CICS Transaction Server for z/OS

CICS System Programming Reference

Version 3 Release 1

SC34-6435-09

CICS Transaction Server for z/OS

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Version 3 Release 1

SC34-6435-09

Note!
Before using this information and the product it supports, be sure to read the general information under “Notices” on page 733.

This edition applies to Version 3 Release 1 of CICS Transaction Server for z/OS, program number 5655-M15, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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Contents

Preface ix
What this book is about ix
Who should read this book ix
What you need to know to understand this book ix
How to use this book ix
Notes on terminology ix

Summary of changes xi
Changes for CICS Transaction Server for z/OS, Version 3 Release 1 xi
Changes for CICS Transaction Server for z/OS, Version 2 Release 3 xi
Changes for CICS Transaction Server for z/OS, Version 2 Release 2 xii
Changes for CICS Transaction Server for z/OS, Version 2 Release 1 xii
Changes for the CICS Transaction Server for OS/390 Version 1 Release 3 edition xiii
Changes for the CICS Transaction Server for OS/390 Version 1 Release 2 edition xiv
Changes for the CICS Transaction Server for OS/390 Version 1 Release 1 edition xiv

Chapter 1. Introduction to System Programming commands 1
How this book is organized 2
Command format 2
CICS syntax notation 3
Summary of format rules 5
Argument values 6
Data-areas and data-values 6
Pointer arguments 8
CICS-value data areas (CVDAs) 8
CVDA examples 9
Data types 11
COBOL argument values 11
C, and C++ argument values 12
PL/I argument values 12
Assembler-language argument values 13
Argument lengths 14
Null values 14
Exception conditions 15
RESP and RESP2 options 15
Security checking 16
The QUERY SECURITY command 18
Inquiry commands 19
Browsing resource definitions 21
Starting a browse 21
Retrieving the next resource 22
Ending the browse 22
Browse example 22
Rules for browsing 23
Exception conditions for browsing 23
SET commands 23
Creating resource definitions 24
ATTRIBUTES option 26
Discarding resource definitions 27
Exit-related commands 28

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Defining exits 28
Exit names 29
CICS threadsafe commands in the SPI 29

Chapter 2. System commands 31
ACQUIRE TERMINAL 35
COLLECT STATISTICS 38
CREATE CONNECTION 48
CREATE CORBASERVER 52
CREATE DB2CONN 55
CREATE DB2ENTRY 58
CREATE DB2TRAN 61
CREATE DJAR 63
CREATE DOCTEMPLATE 65
CREATE ENQMODEL 67
CREATE FILE 69
CREATE JOURNALMODEL 72
CREATE LSRPOOL 74
CREATE MAPSET 77
CREATE PARTITIONSET 79
CREATE PARTNER 81
CREATE PIPELINE 83
CREATE PROCESSTYPE 85
CREATE PROFILE 87
CREATE PROGRAM 89
CREATE REQUESTMODEL 92
CREATE SESSIONS 94
CREATE TCPIPSERVICE 97
CREATE TDQUEUE 100
CREATE TERMINAL 104
CREATE TRANCLASS 107
CREATE TRANSACTION 109
CREATE TSMODEL 112
CREATE TYPETERM 114
CREATE URIMAP 118
CREATE WEBSERVICE 121
DISABLE PROGRAM 123
DISCARD AUTINSTMODEL 127
DISCARD CONNECTION 128
DISCARD CORBASERVER 130
DISCARD DB2CONN 131
DISCARD DB2ENTRY 132
DISCARD DB2TRAN 133
DISCARD DJAR 134
DISCARD DOCTEMPLATE 135
DISCARD ENQMODEL 136
DISCARD FILE 137
DISCARD JOURNALMODEL 138
DISCARD JOURNALNAME 139
DISCARD PARTNER 141
DISCARD PIPELINE 142
DISCARD PROCESSTYPE 143
DISCARD PROFILE 144
DISCARD PROGRAM 145
DISCARD REQUESTMODEL 146
DISCARD TCPIPSERVICE 147

DISCARD TDQUEUE 148
DISCARD TERMINAL 150
DISCARD TRANCLASS 152
DISCARD TRANSACTION 153
DISCARD TSMODEL 154
DISCARD URIMAP 155
DISCARD WEBSERVICE 156
ENABLE PROGRAM 157
EXTRACT EXIT 164
EXTRACT STATISTICS 166
INQUIRE AUTINSTMODEL 170
INQUIRE AUTOINSTALL 171
INQUIRE BEAN 173
INQUIRE BRFACILITY 175
INQUIRE CFDTPOOL 178
INQUIRE CLASSCACHE 180
INQUIRE CONNECTION 183
INQUIRE CORBASERVER 194
INQUIRE DB2CONN 197
INQUIRE DB2ENTRY 205
INQUIRE DB2TRAN 210
INQUIRE DELETSHIPPED 212
INQUIRE DISPATCHER 214
INQUIRE DJAR 217
INQUIRE DOCTEMPLATE 219
INQUIRE DSNAME 222
INQUIRE DUMPDS 229
INQUIRE ENQ 231
INQUIRE ENQMODEL 232
INQUIRE EXCI 234
INQUIRE EXITPROGRAM 236
INQUIRE FILE 242
INQUIRE HOST 254
INQUIRE IRC 256
INQUIRE JOURNALMODEL 257
INQUIRE JOURNALNAME 259
INQUIRE JOURNALNUM 261
INQUIRE JVM 262
INQUIRE JVMPOOL 265
INQUIRE JVMPROFILE 267
INQUIRE MODENAME 269
INQUIRE MONITOR 272
INQUIRE MVSTCB 276
INQUIRE NETNAME 278
INQUIRE PARTNER 280
INQUIRE PIPELINE 282
INQUIRE PROCESSTYPE 284
INQUIRE PROFILE 286
INQUIRE PROGRAM 287
INQUIRE REQID 296
INQUIRE REQUESTMODEL 301
INQUIRE RRMS 303
INQUIRE STATISTICS 304
INQUIRE STORAGE 307
INQUIRE STREAMNAME 310
INQUIRE SUBPOOL 312

INQUIRE SYSDUMPCODE 314
INQUIRE SYSTEM 317
INQUIRE TASK 328
INQUIRE TASK LIST 339
INQUIRE TCLASS 341
INQUIRE TCPIP 342
INQUIRE TCPIPSERVICE 344
INQUIRE TDQUEUE 350
INQUIRE TERMINAL 358
INQUIRE TRACEDEST 378
INQUIRE TRACEFLAG 381
INQUIRE TRACETYPE 383
INQUIRE TRANCLASS 386
INQUIRE TRANDUMPCODE 388
INQUIRE TRANSACTION 391
INQUIRE TSMODEL 399
INQUIRE TSPOOL 401
INQUIRE TSQUEUE / TSQNAME 403
INQUIRE UOW 407
INQUIRE UOWDSNFAIL 412
INQUIRE UOWENQ 417
INQUIRE UOWLINK 423
INQUIRE URIMAP 427
INQUIRE VOLUME 432
INQUIRE VTAM 433
INQUIRE WEB 436
INQUIRE WEBSERVICE 437
INQUIRE WORKREQUEST 440
PERFORM CLASSCACHE 443
PERFORM CORBASERVER 447
PERFORM DELETSHIPPED 450
PERFORM DJAR 451
PERFORM DUMP 453
PERFORM ENDAFFINITY 456
PERFORM PIPELINE 458
PERFORM RESETTIME 460
PERFORM SECURITY REBUILD 461
PERFORM SHUTDOWN 463
PERFORM STATISTICS RECORD 466
RESYNC ENTRYNAME 471
SET AUTOINSTALL 474
SET BRFACILITY 476
SET CLASSCACHE 478
SET CONNECTION 480
SET CORBASERVER 489
SET DB2CONN 492
SET DB2ENTRY 502
SET DB2TRAN 508
SET DELETSHIPPED 510
SET DISPATCHER 513
SET DSNAME 516
SET DUMPDS 525
SET ENQMODEL 527
SET FILE 529
SET HOST 542
SET IRC 544

SET JOURNALNAME 546
SET JOURNALNUM 548
SET JVMPOOL 549
SET MODENAME 551
SET MONITOR 553
SET NETNAME 557
SET PIPELINE 558
SET PROCESSTYPE 559
SET PROGRAM 561
SET STATISTICS 566
SET SYSDUMPCODE. 570
SET SYSTEM. 574
SET TASK 580
SET TCLASS 582
SET TCPIP. 583
SET TCPIPSERVICE 585
SET TDQUEUE 588
SET TERMINAL 593
SET TRACEDEST 602
SET TRACEFLAG 606
SET TRACETYPE 608
SET TRANCLASS 611
SET TRANDUMPCODE 613
SET TRANSACTION 617
SET TSQUEUE / TSQNAME 621
SET UOW 623
SET UOWLINK 625
SET URIMAP 627
SET VOLUME. 629
SET VTAM 630
SET WEB 633
SET WEBSERVICE 634
SET WORKREQUEST 635

Appendix A. CICS-value data areas used by all commands. 637
CVDAs and numeric values in alphabetic sequence 637
CVDAs and numeric values in numeric sequence. 652
CVDA values for the DEVICE option 668

Appendix B. EXEC interface block (EIB) response and function codes 671
Response codes of EXEC CICS commands. 671
EXEC CICS DISCARD, INQUIRE, PERFORM, and SET commands. . . . 671
EXEC CICS DISABLE, ENABLE, and EXTRACT EXIT commands 672
Function codes of EXEC CICS commands 672

Appendix C. EXEC CICS CREATE RESP2 values 681

Appendix D. Threadsafe SPI commands 697

Bibliography 699
The CICS Transaction Server for z/OS library 699
The entitlement set 699
PDF-only books 699
Other CICS books 701
Books from related libraries 701
Other publications 701

Determining if a publication is current 702

Accessibility 703

Index 705

Notices 733
Programming interface information 734
Trademarks. 734

Sending your comments to IBM 735

Preface

What this book is about

This book describes the CICS® Transaction Server for z/OS® system programming interface. It contains reference information needed to prepare COBOL, C, C++, PL/I, and assembler-language application programs, using CICS commands, to be executed under CICS. Guidance information is in the *CICS Application Programming Guide*. For information about debugging CICS applications, see the *CICS Problem Determination Guide*.

Who should read this book

This book is for system programmers who are writing applications to be invoked as transactions for administering the running CICS system.

What you need to know to understand this book

It is assumed that you are an experienced system programmer and that you are familiar with the effects of the CICS-supplied transactions. You must be able to write application programs, and understand the contents of the CICS application programming books (that is, the *CICS Application Programming Reference* manual and the *CICS Application Programming Guide*). Anything that is already documented in those two books is not duplicated here, so you may need to refer to them occasionally.

How to use this book

This book contains two major sections. The first section is an introduction that describes the common features and the overall purpose of the system programming interface commands. The second section is a description of each of the commands, in alphabetic order.

Notes on terminology

- 'CICS' refers to IBM® CICS Transaction Server for z/OS, Version 3 Release 1 (called CICS Transaction Server for z/OS in the rest of this book).
- 'VTAM' refers to IBM ACF/VTAM.
- The term 'SP' indicates those commands that require the special translator option 'SP'. It also indicates those commands that are subject to command security checking. The SP commands are all the INQUIRE, SET, COLLECT, PERFORM, CREATE, and DISCARD commands, together with the DISABLE PROGRAM, ENABLE PROGRAM, EXTRACT EXIT, EXTRACT STATISTICS, and RESYNC ENTRYNAME commands and some of the front-end programming interface (FEPI) commands.
- MB equals 1 048 576 bytes.
- KB equals 1024 bytes.

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Summary of changes

This book is based on the CICS System Programming Reference for CICS Transaction Server for z/OS, Version 2 Release 1, SC34-5726-00. Changes from that edition are marked by vertical bars in the left margin.

This part lists briefly the changes that have been made for the following recent releases:

Changes for CICS Transaction Server for z/OS, Version 3 Release 1

The more significant changes for this edition are:

- New commands:
  - "CREATE PIPELINE" on page 83
  - "CREATE URIMAP" on page 118
  - "CREATE WEBSERVICE" on page 121
  - "DISCARD PIPELINE" on page 142
  - "DISCARD WEBSERVICE" on page 156
  - "EXTRACT STATISTICS" on page 166
  - "INQUIRE PIPELINE" on page 282
  - "PERFORM PIPELINE" on page 458
  - "SET PIPELINE" on page 558

Because of the removal of support for HPJ (Hot-pooling) for Java program objects, the following options are removed:

- The HOTPOOL option is removed from the EXEC CICS CREATE PROGRAM command.
- The HOTPOOLING option is removed from the EXEC CICS INQUIRE PROGRAM command.
- The HOTPOOLING option is removed from the EXEC CICS SET PROGRAM command.
- The ACTHPTCBS and MAXHPTCBS options are removed from the EXEC CICS INQUIRE DISPATCHER command.
- The MAXHPTCBS option is removed from the EXEC CICS SET DISPATCHER command.
- The CVDAs HOTPOOL (1065) and NOTHOTPOOL (1066) are deleted.

Changes for CICS Transaction Server for z/OS, Version 2 Release 3

The more significant changes for this edition are:

- New commands:
  - "INQUIRE WORKREQUEST" on page 440 added.
  - "SET WORKREQUEST" on page 635 added.
  - "INQUIRE JVM" on page 262 added.
  - "INQUIRE JVMPROFILE" on page 267 added.
  - "INQUIRE CLASSCACHE" on page 180 added.
  - "SET CLASSCACHE" on page 478 added.
  - "PERFORM CLASSCACHE" on page 443 added.
- New options:
  - "DEBUGTOOL" on page 320 added to INQUIRE SYSTEM
  - "DEBUGTOOL" on page 575 added to SET SYSTEM
  - "ASSERTED" on page 194 added to INQUIRE CORBASERVER
  - "PRIVACY" on page 347 added to INQUIRE TCPIPSERVICE

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- New attributes supported by the CREATE CORBASERVER and CREATE TCPIPSERVICE command

Changes for CICS Transaction Server for z/OS, Version 2 Release 2

The more significant changes for this edition are:

- New commands:
  - "INQUIRE DISPATCHER" on page 214 is a new command
  - "SET DISPATCHER" on page 513 is a new command
- New options:
  - "DB2GROUPID" on page 201 added to INQUIRE DB2CONN
  - "RESYNCMEMBER" on page 202 added to INQUIRE DB2CONN
  - "PLAN" on page 210 added to INQUIRE DB2TRAN
  - "PLANEXITNAME" on page 210 added to INQUIRE DB2TRAN
  - "SCAN" on page 448 added to PERFORM CORBASERVER
  - "DB2GROUPID" on page 496 added to SET DB2CONN
  - "RESYNCMEMBER" on page 498 added to SET DB2CONN
- Technical changes :
  - In "INQUIRE DB2CONN" on page 197, the definitions of parameters DB2ID, PRIORITY, TCBLIMIT and TCBS have changed.
  - In "INQUIRE DB2ENTRY" on page 205, the definition of the PRIORITY parameter has changed.
  - In "SET DB2CONN" on page 492, the definitions of parameters DB2ID, PRIORITY, TCBLIMIT and TCBS have changed.
  - In "SET DB2ENTRY" on page 502, the definition of the PRIORITY parameter has changed.

Changes for CICS Transaction Server for z/OS, Version 2 Release 1

The more significant changes for this edition are:

The more significant changes for this edition are:

- New commands:
  - "SET DB2CONN" on page 492
  - "CREATE DJAR" on page 63
  - "DISCARD CORBASERVER" on page 130
  - "DISCARD DJAR" on page 134
  - "INQUIRE BEAN" on page 173
  - "INQUIRE CORBASERVER" on page 194
  - "INQUIRE DJAR" on page 217
  - "INQUIRE JVMPOOL" on page 265
  - "PERFORM CORBASERVER" on page 447
  - "PERFORM DJAR" on page 451
  - "SET CORBASERVER" on page 489
  - "SET JVMPOOL" on page 549
- New options
  - "CORBASERVER" on page 42 added to COLLECT STATISTICS
  - "JVMPOOL" on page 43 added to COLLECT STATISTICS
  - "REQUESTMODEL" on page 44 added to COLLECT STATISTICS
  - "TCPIP" on page 45 added to COLLECT STATISTICS
  - HOTPOOLING added to INQUIRE PROGRAM. (This option was removed for CICS Transaction Server for z/OS Version 3 Release 1.)
  - "JVMPROFILE" on page 291 added to INQUIRE PROGRAM

  - "BEANNAME" on page 301 added to INQUIRE REQUESTMODEL
  - "CORBASERVER" on page 301 added to INQUIRE REQUESTMODEL
  - "INTERFACE " on page 301 added to INQUIRE REQUESTMODEL
  - "INTFACETYPE" on page 301 added to INQUIRE REQUESTMODEL
  - "MODULE" on page 302 added to INQUIRE REQUESTMODEL
  - "OPERATION" on page 302 added to INQUIRE REQUESTMODEL
  - "TYPE" on page 302 added to INQUIRE REQUESTMODEL
  - "ACTSOCKETS" on page 342 added to INQUIRE TCPIP
  - "MAXSOCKETS" on page 342 added to INQUIRE TCPIP
  - "AUTHENTICATE" on page 345 added to INQUIRE TCPIPSERVICE
  - "CERTIFICATE" on page 346 added to INQUIRE TCPIPSERVICE
  - "DNSGROUP" on page 346 added to INQUIRE TCPIPSERVICE
  - "DNSSTATUS" on page 346 added to INQUIRE TCPIPSERVICE
  - "GRPCRITICAL" on page 346 added to INQUIRE TCPIPSERVICE
  - "PROTOCOL" on page 347 added to INQUIRE TCPIPSERVICE
  - "OTSTIMEOUT" on page 394A added to INQUIRE TRANSACTION
  - "OTSTID" on page 408 added to INQUIRE UOW
  - "HOST" on page 424 added to INQUIRE UOWLINK
  - "NORESTART" on page 463 added to PERFORM SHUTDOWN
  - "CORBASERVER" on page 467 added to PERFORM STATISTICS RECORD
  - "JVMPOOL" on page 468 added to PERFORM STATISTICS RECORD
  - "REQUESTMODEL " on page 468 added to PERFORM STATISTICS RECORD
  - "TCPIP" on page 469 added to PERFORM STATISTICS RECORD
  - HOTPOOLING added to SET PROGRAM. (This option was removed for CICS Transaction Server for z/OS Version 3 Release 1.)
  - "MAXSOCKETS" on page 583 added to SET TCPIP
  - "NEWMAXSOCKETS" on page 583 added to SET TCPIP
  - "BACKLOG" on page 585 added to SET TCPIPSERVICE
  - "DNSSTATUS" on page 585 added to SET TCPIPSERVICE
  - "OTSTIMEOUT" on page 618 added to SET TRANSACTION
- New CVDA values for this release:
  - "NOTAPPLIC" on page 293 added to RUNTIME in INQUIRE PROGRAM
  - "OTSCOORD" on page 410 added to WAITCAUSE in INQUIRE UOW
- New conditions for this release:
  - "NORMAL" on page 584 added to SET TCPIP
  - "NOTSUPERUSER" on page 584 added to SET TCPIP

Changes for the CICS Transaction Server for OS/390 Version 1 Release 3 edition

- The system programming interface commands:
  - EXEC CICS CREATE
  - EXEC CICS DISCARD
  - EXEC CICS INQUIRE
  - EXEC CICS SET

  are enhanced to provide function for the management of the following new resources:
  - DOCTEMPLATE
  - ENQMODEL
  - PROCESSTYPE
  - REQUESTMODEL
  - TCPIPSERVICE
  - TSMODEL

- The EXEC CICS INQUIRE TDQUEUE command is extended to return the name of the MEMBER when the DDNAME references a partitioned data set.
- The system programming interface commands:
  - EXEC CICS CREATE
  - EXEC CICS DISCARD
  - EXEC CICS INQUIRE
  - EXEC CICS SET

  are enhanced to provide function for the management of programs running under a JVM.

Changes for the CICS Transaction Server for OS/390 Version 1 Release 2 edition

The major changes to CICS that affect CICS Transaction Server for OS/390®, Version 1 Release 2 are:

- Addition of BRIDGE and IDENTIFIER to the INQUIRE TASK command to support the 3270 bridge.
- Addition of BREXIT and FACILITYLIKE to the INQUIRE TRANSACTION command to support the 3270 bridge.
- The CICS DB2 attachment facility is enhanced to provide resource definition online (RDO) support for DB2 resources as an alternative to resource control table (RCT) definitions. The system programming interface is enhanced to provide function for the management of the CICS DB2 attachment facility. The following new commands are added for DB2 resource definitions, DB2CONN, DB2ENTRY, and DB2TRAN:
  - EXEC CICS CREATE
  - EXEC CICS DISCARD
  - EXEC CICS INQUIRE
  - EXEC CICS SET

  The following commands are extended:
  - EXEC CICS INQUIRE TASK returns the name of the DB2 plan used for the task.
  - EXEC CICS INQUIRE SYSTEM returns the name of the DB2CONN currently installed.

Changes for the CICS Transaction Server for OS/390 Version 1 Release 1 edition

The major changes to CICS Transaction Server for OS/390 Release 1 that affect this book are:

- New DISCARD CONNECTION, DISCARD JOURNALMODEL, DISCARD JOURNALNAME, DISCARD TDQUEUE, DISCARD TERMINAL, INQUIRE JOURNALMODEL, INQUIRE JOURNALNAME (replacing INQUIRE JOURNALNUM), INQUIRE STREAMNAME, INQUIRE UOW, INQUIRE UOWDSNFAIL, INQUIRE UOWENQ, INQUIRE UOWLINK, PERFORM ENDAFFINITY, SET JOURNALNAME (replacing SET JOURNALNUM), SET UOW, and SET UOWLINK commands
- New or changed options for COLLECT STATISTICS, DISABLE PROGRAM, ENABLE PROGRAM, INQUIRE CONNECTION, INQUIRE DSNAME, INQUIRE EXITPROGRAM, INQUIRE FILE, INQUIRE NETNAME, INQUIRE SYSTEM, INQUIRE TASK, INQUIRE TDQUEUE, INQUIRE TERMINAL, INQUIRE

TRANSACTION, INQUIRE TSQUEUE, PERFORM SHUTDOWN, PERFORM STATISTICS RECORD, RESYNC ENTRYNAME, SET CONNECTION, SET DSNAME, and SET FILE commands

- Addition of the CREATE commands
- INQUIRE VOLUME and SET VOLUME commands now obsolete
- Removal of local DL/I options
- New conditions on the SET TDQUEUE command

Other changes made to this book include:

Chapter 1. Introduction to System Programming commands

This book describes the CICS system programming interface (SPI) commands. These commands are for managing the CICS system and its resources, in contrast to the application programming interface (API) commands, with which you implement end-user applications. The API is described in a companion manual to this one, the *CICS Application Programming Reference* manual. A third manual, the *CICS Application Programming Guide*, contains general information that applies to both groups of commands.

SPI commands either retrieve information about the system and its resources, or modify them. They fall into three broad categories:

- Commands that retrieve information about a CICS resource or system element:
  - The INQUIRE commands
  - COLLECT STATISTICS
  - EXTRACT STATISTICS
- Commands that modify the status or definition of the system or a resource, or invoke a system process:
  - The SET commands
  - The CREATE commands
  - The DISCARD commands
  - The PERFORM commands
  - ACQUIRE TERMINAL
- Commands that modify or expand system execution by means of exits:
  - DISABLE PROGRAM
  - ENABLE PROGRAM
  - EXTRACT EXIT
  - RESYNC ENTRYNAME

Together, these commands provide you with a command-level equivalent to the function of the master terminal transaction (CEMT)[1] and the trace control transaction (CETR), and as an alternative to the CEDA transaction for defining resources. This means that you can write transactions for administering the running CICS system. You could, for example, provide some functions of the master terminal command for a group of users without giving them authority to use CEMT.

System programming commands are supported in the same way as application programming commands. They can be used in programs written in any CICS-supported language, and they are recognized by the command interpreter (CECI), the execution diagnostic facility (EDF), and the CICS translator.

However, there are some differences between SPI and API commands:

- You cannot function ship SPI commands by naming a remote resource or, generally, by specifying the SYSID option. They are executed in the CICS region in which the issuing program is running. If the command specifies a remote resource (one owned by another region), CICS uses the local (partial) definition

1. Users of much earlier releases of CICS may be familiar with the old programmable interface to the master terminal program (DFHEMTA). Its use is still supported, though the documentation is available only in the *CICS Customization Guide* for releases prior to CICS/ESA® Version 3.

   You cannot use DPL to link to the CICS master terminal program, DFHEMTA. The addresses passed as parameters to DFHEMTA are valid only in the region that issues the EXEC CICS LINK command, which means you cannot route a DFHEMTA request to a remote CICS system. The same restriction also applies to the programmable interface to the RDO transaction, CEDA, invoked through program DFHEDAP.

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to process the request. Consequently, if you want to use or change a resource definition in a remote region, you must cause your SPI command to be executed in that region, either by transaction routing or by distributed program link. Shared temporary storage queues, where the DFHTST TYPE=REMOTE entry is provided, are an exception.

- Additional security checking is available for SPI commands, as explained on page "The format of SPI commands" on page 3.
- Programs containing SPI commands must be translated with the SP translator option, as explained in "Security checking" on page 16.

There are also special considerations that apply to certain groups of commands. These notes begin on page 19.

How this book is organized

The next topics in this chapter explains how SPI commands are written, including information on:

- Command format
- Syntax diagrams
- Argument types and values
- Data formats
- Language-specific notes

There is general information that applies to all SPI commands:

- Exception conditions
- Response codes (RESP and RESP2)
- Security checking

And there is specific information for these groups of commands:

- Inquiries and browsing
- SET commands
- CREATE commands
- DISCARD commands
- Exit-related commands

You should read this material even if you already know how to write CICS commands. It begins on page 15.

Chapter 2 of this book describes the SPI commands individually, in alphabetical order. Descriptions begin with a brief statement of what the command does, followed by a syntax diagram and general information about usage. Command options are described next, also in alphabetical order. A list of the exception conditions that can arise during execution of the command follows and, in some cases, there are also examples of usage.

Command format

SPI commands are written in the same way as API commands. They begin with the words **EXECUTE CICS** (usually abbreviated **EXEC CICS**), followed by the command name, a verb or verb-and-option combination such as:

```
INQUIRE FILE
PERFORM SHUTDOWN
SET SYSTEM
```

Options that indicate details of what you want to do follow the command name. The order of the options is unimportant except when the first one is part of the command name (the FILE in INQUIRE FILE, for example).

SPI commands are translated into the language of the program by the same CICS translator that converts API commands, and you can mix the two categories of commands in the same program. However, you must specify the translator option SP when SPI commands are present, or the translator will not recognize them. This feature allows an installation to limit use of the SPI at compile time. Other security features restrict its use at execution time; these are described in "Security checking" on page 16.

The EXEC CICS that begins a command tells the translator when to begin translating. In high-level languages, you must also tell the translator when to stop, by putting a terminator at the end of the command. In COBOL, the terminator is **END-EXEC**. In C/370™™ and PL/I, it is a semi-colon. You do not need one in assembler, because the translator assumes that the command ends on the current line unless a continuation character is present. So a command that looks like this in assembler:

```
EXEC CICS SET FILE(TAXPGM) OPEN
```

becomes

```
EXEC CICS SET FILE(TAXPGM) OPEN END-EXEC
```

in COBOL, and

```
EXEC CICS SET FILE(TAXPGM) OPEN;
```

in C/370 or PL/I.

For more information about translating the commands, see the *CICS Application Programming Guide* for translator options, and the *CICS Application Programming Guide* for the job control language.

CICS syntax notation

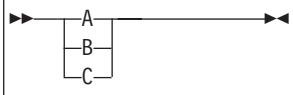
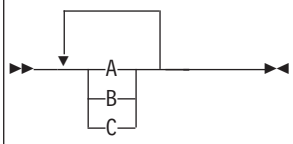
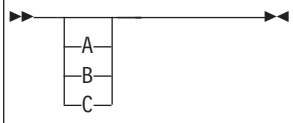
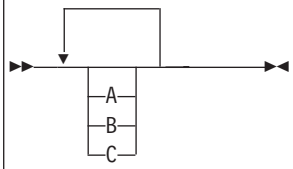
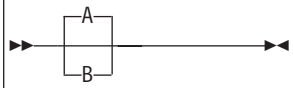
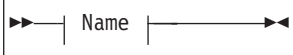
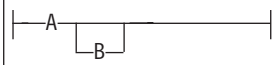
Throughout this book, the syntax for each command is presented in the form of a diagram. The diagram tells you what you can put between the EXEC CICS that begins a command and the terminator that ends it. It summarizes what you can do with the particular command, and indicates relationships between different options and, sometimes, different values of an option.

Note: The diagrams and some of the examples omit the initial EXEC CICS and the language-dependent terminator, even though you must use them in your code. The diagrams also omit options that you can use in any command:

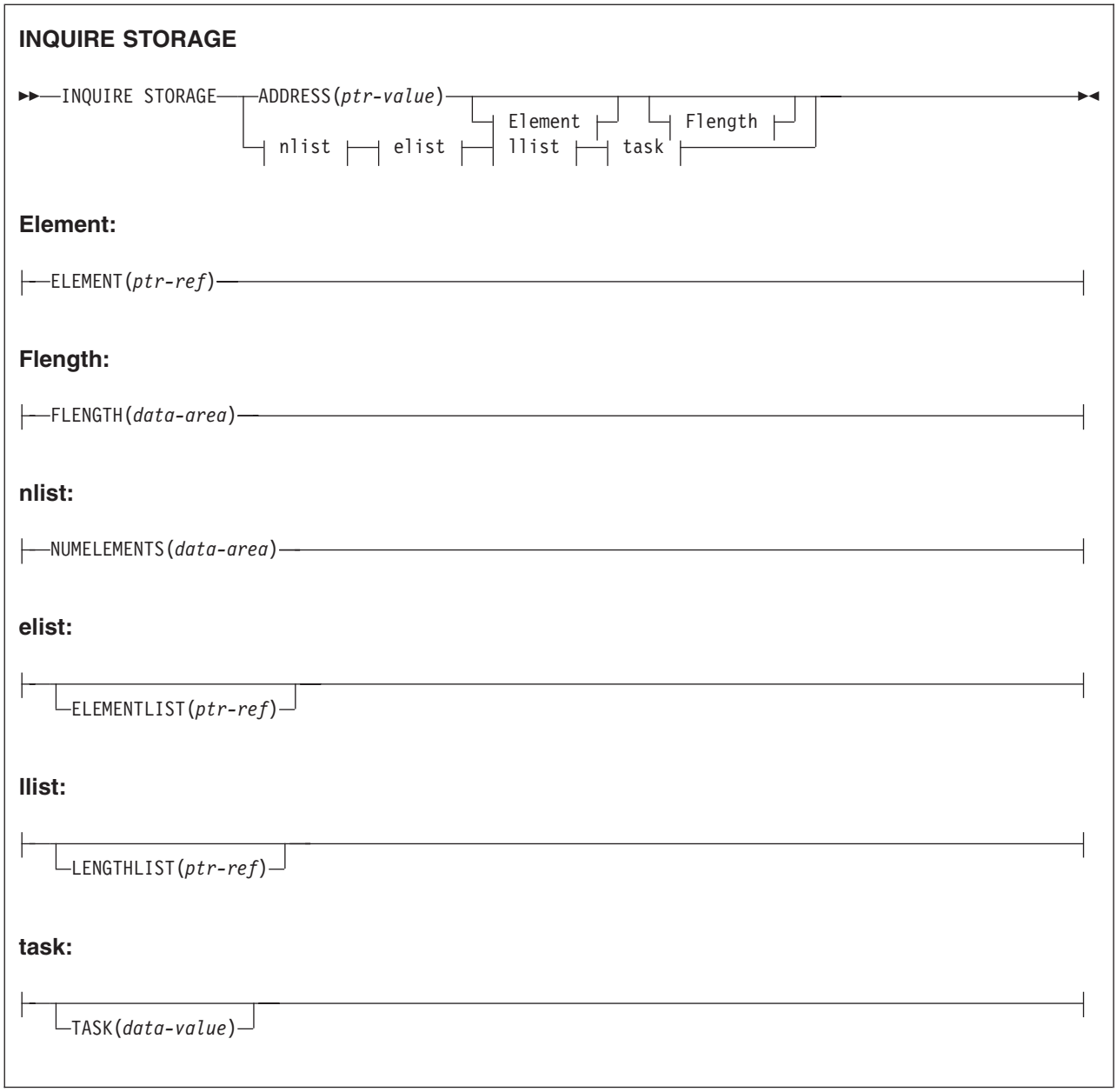
- NOHANDLE
- RESP
- RESP2
- SYSEIB

These have the same meaning in SPI commands as in API commands. (See the *CICS Application Programming Guide* for basic information about these options, and "Exception conditions" on page 15 for additional SPI details.)

You read the diagram by following the arrows from left to right, using these conventions:

Symbol	Action
	A set of alternatives—one of which you ***must*** code.
	A set of alternatives—one of which you ***must*** code. You ***may*** code more than one of them, in any sequence.
	A set of alternatives—one of which you ***may*** code.
	A set of alternatives — any number (including none) of which you may code once, in any sequence.
	Alternatives where **A** is the default.
 **Name:** 	Use with the named section in place of its name.
Punctuation and uppercase characters	Code exactly as shown.
Lowercase characters	Code your own text, as appropriate (for example, `name`).

Below is an example. It indicates that INQUIRE STORAGE requires you to specify either the ADDRESS option or the NUMELEMENTS option (but not both). If, and only if, you choose ADDRESS, you can specify ELEMENT, FLENGTH, both, or neither. If you choose NUMELEMENTS, you can specify DSANAME, ELEMENTLIST, LENGTHLIST, or TASK in any combination (including none).



Conditions: NOTAUTH, TASKIDERR

A list of the exception conditions that can occur on the command appears at the bottom of the diagram. In this case, the possibilities are the NOTAUTH and TASKIDERR conditions.

Summary of format rules

Here is a summary of the format rules for coding CICS commands:

- Follow the conventions of the language in which you are coding for general format (the column in which the command starts, the columns available to it, embedded comments, embedded blanks, and so on).

  Note: The translator is not sensitive to blanks between option names and option values or the parentheses that separate them, so you can use them or not, as you wish, even in assembler.

- Start your command with **EXEC CICS** or **EXECUTE CICS** and end it with the terminator required by the program language (see “Command format” on page 2).
- If a command does not fit on a line, or you wish to break it into multiple lines, use the conventions of the language. In assembler, use a continuation character on all but the last line.
- Select the options you wish to use from the syntax diagram, observing the rules expressed in the diagram and the option text for required options and consistent combinations.
- Code punctuation and upper case letters as shown in the diagram (you can use mixed case or lowercase for keywords shown in uppercase if you prefer).
- Substitute your own text for lowercase letters, following the conventions of the language in which you are coding.

Argument values

The data associated with an option is called its **argument**. Five different types appear in the syntax diagrams:

- data-area
- data-value
- ptr-ref (for pointer-reference)
- ptr-value (pointer-value)
- cvda (CICS-value data area)

Data-areas and data-values

Data-areas and data-values are the basic argument types. The difference between them is the direction in which information flows when a task executes a command. A **data-value** is always, and exclusively, a *sender*: it conveys data to CICS that CICS uses to process the command. A **data-area** is a *receiver*; CICS uses it to return information to the caller. For example, in the command:

```
EXEC CICS INQUIRE PROGRAM (TAXPGM)
          USECOUNT (UCNT) END-EXEC
```

PROGRAM is a sender option and TAXPGM is a data-value; it tells CICS where to find the name of the program you are inquiring about. USECOUNT is a receiver option, and UCNT is a data-area; CICS returns the information you requested (the use count for this program) there.

In general, you can use any area (variable) for a data-area, provided that:

- The data type (format) is correct. The area must be long enough and, in high-level languages, the associated variable must be defined to have the correct length and internal representation. The data types that CICS uses are discussed in “Data types” on page 11.
- The program logic allows the value to be changed (CICS stores into data-areas).
- CICS re-entrancy rules allow the value to be changed. CICS loads only one copy of any given program, no matter how many tasks are using it. To prevent tasks executing the same program from interfering with one another, CICS keeps a separate copy of program areas that may change during execution (sometimes called “working storage”) for each task. This means that any area that may be modified, including data-area arguments to CICS commands, must reside either in such an area of the program or in storage outside the program which the application design allows the program to modify.

Some of this storage is allocated automatically; this category includes the WORKING-STORAGE section in COBOL programs, AUTOMATIC storage in PL/I and C/370, and areas appended to the DFHEISTG DSECT in assembler. It can also be allocated explicitly with a CICS GETMAIN command or a language facility such as a PL/I ALLOCATE statement, in this or a preceding program. This category includes the LINKAGE section in COBOL, BASED and CONTROLLED storage in PL/I, and other DSECTs in assembler. See the *CICS Application Programming Guide* for more detail about CICS re-entrancy rules.

- The program that issues the command has *write* access to the area. CICS changes the content of data-areas and, therefore, you cannot use storage that you are not allowed to change.

  Write access is affected by the storage protection key in which the program is running, and by the transaction isolation status of its task. See the discussion of these subjects in the *CICS Application Programming Guide* and the *CICS System Definition Guide*, and the TRANISOLATE option of a TRANSACTION definition in the *CICS Resource Definition Guide*.
- The MVS/ESA™ restrictions on addressing mode that apply to all CICS commands are observed. These are enforced automatically in high-level languages but, in assembler, the program must be in primary addressing mode, and the primary address space must be the home address space. All arguments for options must reside in the primary address space.

  Note: CICS does not always preserve access registers across CICS commands or macro invocations. If your program uses access registers, it should save them before invoking a CICS service, and restore them before reusing them.

Any area that can be used for a data-area can also be used for a data-value. In addition, you can use areas not allowed for data-areas, because CICS never changes a data-value. In particular, you can use:

- Constants, including literals. In the example above, for instance, you could use a literal instead of a variable for the program name:

  ```
  EXEC CICS SET TDQUEUE ('TAX')
            TRIGGERLEVEL(1) END-EXEC
  ```

  When you use a numeric literal in a command, the translator ensures a constant of the correct type and length, provided the literal is capable of being converted to such a constant, as in TRIGGERLEVEL above. In COBOL and assembler, the translator also ensures character literals of the correct length, padding with blanks if the literal is shorter than the length the argument requires. In C/370 and PL/I, however, you must do this yourself:

  ```
  EXEC CICS SET TDQUEUE ('TAX ')
            TRIGGERLEVEL(1);
  ```
- Other program areas not in “working storage”, such as static storage in PL/I.
- Areas to which your program has read but not write access (the link-pack area, for example).

Note: Sometimes an option is used both to send and receive information, although this usage occurs more often in API than SPI commands. When it does, the argument must be a data-area, because CICS stores into it.

Pointer arguments

A pointer-reference (abbreviated **ptr-ref** in the diagrams) is a special case of a data-area. It also is a receiver field, but CICS uses it to return a pointer to the data requested, rather than the data itself; that is, CICS stores the location (address) of the data in the argument you provide.

A pointer-value (abbreviated **ptr-value**) is the pointer counterpart of a data-value; that is, you *send* information to CICS in a pointer-value, but you provide the address of the data (a pointer to it), rather than the data itself.

The rules listed for data-areas therefore apply to pointer-references, and those for data-values to pointer-values. Each language provides a type definition for pointers, and facilities for expressing address literals that can be used for pointer-values; internally, pointers are stored in fullword binary form. See the FREEMAIN command in the *CICS Application Programming Reference* manual for more information about the distinction between data and pointers.

CICS-value data areas (CVDAs)

A **CVDA** (CICS-value data area) is still another special case: it is an argument to which CICS has assigned a specific and limited set of meaningful values. These values are named, both to make them intuitive and easy to remember and to keep the interface between user programs and CICS symbolic, so that version and platform changes do not require program modifications.

Some CVDAs send information to CICS. A sender CVDA is a special case of a data-value, and the rules for data-values apply. Others return information from CICS, and you must use the rules for data-areas. If there is any question about the direction in which the information is flowing, you can tell from the verb used in the option description. *Specifies* means that you are sending information to CICS (that is, data-value rules apply); *returns* indicates that CICS will return information in the argument (data-area rules apply).

CICS provides the code that converts CVDA value names to the corresponding numeric representations. (Internally, CVDAs are stored as fullword binary numbers, and you must always provide a fullword binary area for options that receive CVDA values.)

One way to send a CVDA value is simply to name the appropriate value (the name of the option is implied in the name of the value). For example:

```
EXEC CICS SET PROGRAM (TAXPGM)
              DPLSUBSET END-EXEC
```

sets the EXECUTIONSET option value to DPLSUBSET. EXECUTIONSET determines the set of commands which the program is allowed to use. It has two possible values: DPLSUBSET, which restricts a program to the commands allowed in a program invoked by a distributed program link, and FULLAPI, which does not restrict the command set.

The alternative is to use the CICS-provided DFHVALUE function, which relates the internal representation to the value name. For example, this code is equivalent to the COBOL statement above:

```
MOVE DFHVALUE(DPLSUBSET) TO TAXAPI.
EXEC CICS SET PROGRAM (TAXPGM)
          EXECUTIONSET(TAXAPI) END-EXEC.
```

This technique is easier to use when program logic is complex.

You also use DFHVALUE when your program needs to interpret a value returned as a CVDA. For example, if you needed to perform logic based on the EXECUTIONSET value, you would write something like this:

```
EXEC CICS INQUIRE PROGRAM (TAXPGM)
          EXECUTIONSET (TAXAPI) END-EXEC.
IF TAXAPI = DFHVALUE(FULLAPI) PERFORM STND-INIT
ELSE PERFORM REMOTE-INIT.
```

Appendix A, “CICS-value data areas used by all commands,” on page 637 lists all of the CVDA value names with corresponding numeric values. These are for reference only, however; you should use value names and DFHVALUE in your code, to keep it version- and platform-independent.

CVDA examples

Here are examples in all the CICS-supported languages which show the use of CVDAs and the DFHVALUE function. In each case, the code provided:

- Tests whether the file named PAYROLL is closed.
- If so, changes the UPDATE and DELETE option values for the file to UPDATABLE and NOTDELETABLE respectively (so that records can be updated and read, but not deleted). Note that the UPDATE option is set by using the DFHVALUE function, and that the DELETE option is set by specifying the value name. These methods are equivalent; either could have been done either way.

  The absence of other options indicates that those values are to remain unchanged. This information could also have been expressed by specifying the options with null values, as explained in “SET commands” on page 23.
- Returns to CICS.

Only the code and definitions related to this part of each program are shown.

COBOL version

```
WORKING-STORAGE SECTION.
01  FILE-STATUS-INFO.
    02  UOPST               PIC S9(8) COMP.
    02  UUPD                PIC S9(8) COMP.
    02  INFILE              PIC X(8).
. . .
CICS-REQUESTS.
    MOVE 'PAYROLL ' TO INFILE.
    EXEC CICS INQUIRE FILE(INFILE)
              OPENSTATUS(UOPST) END-EXEC.
    IF UOPST = DFHVALUE(CLOSED)
        MOVE DFHVALUE(UPDATABLE) TO UUPD
        EXEC CICS SET FILE(INFILE)
                  UPDATE(UUPD)
                  NOTDELETABLE END-EXEC.
    EXEC CICS RETURN.
```

C version

```
#define INFILE    PAYROLL
main()
 {
  long int  uopst,     /* OPENSTATUS value   */
  long int  uupd;      /* UPDATE value       */
 . . .
  EXEC CICS ADDRESS EIB(dfheiptr);
  EXEC CICS INQUIRE FILE(INFILE)
                    OPENSTATUS(uopst);
  if( uopst == DFHVALUE(CLOSED) )
   { uupd  = DFHVALUE(UPDATABLE);
     EXEC CICS SET FILE(INFILE)
                  UPDATE(uupd)
                  NOTDELETABLE; }
  EXEC CICS RETURN;
 }
```

PL/I version

```
DCL (UOPST,UUPD) FIXED BIN(31), /*OPEN,UPD STATUS*/
    INFILE CHAR(8);             /*FILE NAME      */
 . . .
    INFILE='PAYROLL ';
    EXEC CICS INQUIRE FILE(INFILE)
              OPENSTATUS(UOPST):
    IF UOPST = DFHVALUE(CLOSED) THEN DO;
        UUPD = DFHVALUE(UPDATABLE);
        EXEC CICS SET FILE(INFILE)
                    UPDATE(UUPD)
                    NOTDELETABLE;  END;
    EXEC CICS RETURN;
```

Assembler-language version

```
         DFHEISTG
UOPST    DS    F       *OPEN STATUS
UUPD     DS    F       *UPDATE STATUS
INFILE   DS    CL8     *FILE NAME
         . . .
         MVC INFILE,=CL8'PAYROLL '
         EXEC CICS INQUIRE FILE(INFILE)         X
                   OPENSTATUS(UOPST)
         CLC   UOPST,DFHVALUE(CLOSED)
         BNE   OPENLAB
         MVC   UUPD,DFHVALUE(UPDATABLE)
         EXEC CICS SET FILE(INFILE)             X
                   UPDATE(UUPD)                 X
                   NOTDELETABLE
OPENLAB  EXEC CICS RETURN
```

Data types

For most arguments, CICS uses one of five data types (formats):

- Doubleword binary (eight bytes)
- Fullword binary (four bytes)
- Halfword binary (two bytes)
- Packed decimal (variable number of bytes)
- Character string (variable number of bytes)

The first four are all used for numeric data, but they differ in length and internal format; the last is for text. The names used in this book are those used in assembler language.

Data-areas and data-values may require any of these formats. The option text tells you which one to use. CVDAs are always fullword binary. Pointers are also stored in this form, although you generally define them explicitly as pointers or addresses. There are a few exceptions to these types, including the component identifier arguments in the INQUIRE and SET TRACETYPE commands, which are bit strings, options where the user determines the data format, and options for which CICS requires a specific structure. These exceptions are rare in the SPI, however, and are always noted in the option description text.

The data types are the same regardless of the language of the program issuing the command. However, the way you define data of a particular type varies with the language. The rules are summarized in the language sections that follow, but there are other considerations unique to each language. You should refer to the relevant language manual for information, although some language-specific information may be found in the *CICS Application Programming Guide*.

COBOL argument values

In COBOL, you can use any data name of the correct data type for any argument. For a data-value, you can also use a constant that can be converted to the correct type. The ADDRESS special register can be used for both pointer-references and pointer-values, and the LENGTH special register can be used for length arguments that take a data-value.

The table that follows indicates how to define the correct data type.

Data type	COBOL definition
Halfword binary	PIC S9(4) COMP
Fullword binary (including CVDA)	PIC S9(8) COMP
Doubleword binary	PIC S9(18) COMP
Pointer	USAGE IS POINTER
Character string (n characters long)	PIC X(n)
Packed decimal (n decimal digits)	PIC S9(n) COMP-3

C, and C++ argument values

In C, and C++, you can use any data reference of the correct data type for a data-area, data-value, or CVDA, provided the reference is to contiguous storage. In addition, for a data-value, you can use any C expression that can be converted to the correct data type. The table below shows how to define the correct data type.

Data type	C definition
Halfword binary	short int
Fullword binary (including CVDA)	long int
Doubleword binary	long long int
Character string (n characters long)	unsigned char[n]
Packed decimal	Not used—see note
Note: Packed decimal arguments are not supported in C, and C++. Whenever there is an option that takes such an argument, there are other options that convey or return the same information in a format supported by C, and C++.	

Pointer-reference and pointer-value arguments can be any C, or C++ pointer reference, and pointer-values can also be any C, or C++ expression that can be converted to an address.

CICS calling sequences pass arguments by reference (the MVS™ convention), rather than by value (the C convention). Ordinarily, the translator makes the necessary adjustments, but there are some situations in which you need to prefix your argument with an ampersand (&). See the C discussion in the *CICS Application Programming Guide* for details on arguments and other aspects of writing CICS programs in C, and C++.

PL/I argument values

In PL/I, an argument can be any PL/I data reference of the correct data type, provided the reference is to connected storage. In addition, a data-value, a pointer-value, or sender CVDA can be any PL/I expression that can be converted to the required type, including one containing built-in functions like ADDR or LENGTH. The table below shows how to define the correct data type:

Data type	PL/I definition
Halfword binary	FIXED BIN(15)
Fullword binary (including CVDA)	FIXED BIN(31)
Doubleword binary	FIXED BIN(63)
Pointer	POINTER

Data type	PL/I definition
Character string (n characters long)	CHAR(n)
Packed decimal (n decimal digits)	FIXED DEC(n,0)

PL/I requires that the data type, precision, length, and alignment attributes of a variable passed in a CALL statement match those of the corresponding argument on the ENTRY statement for the called procedure. If the attributes do not match, the PL/I compiler substitutes a dummy variable for the one specified in the CALL.

The translator generates ENTRY statements when it translates your CICS commands to PL/I CALLs and, if there is a mismatch between the ENTRY statement specification for an argument and the variable you specify, CICS gets a dummy variable instead of yours. Although the compiler issues a warning message when it makes such a substitution, it is easy to miss the message, and the execution results are almost never what was intended. This occurs even if there is no difference in the way the compiler implements a particular attribute value.

The ENTRY statements that the translator generates specify data type, precision, and length, using the values shown in the table above. Therefore, to prevent the compiler from substituting dummy variables, you must specify these attributes explicitly for variables used in CICS commands unless they happen to match the defaults. (Defaults come from a DEFAULT statement if you have used one, and from the compiler defaults otherwise.)

In contrast, the generated ENTRY statements do *not* specify the alignment attribute, and therefore the defaults apply. This means that alignment agreement between an argument in a CICS option and the ENTRY statement occurs only if the argument has default alignment, and happens automatically if you do not override PL/I's defaults.

Defaults at an installation can change and, therefore, the safest policy is to specify data type, length, and precision explicitly for variables used in CICS commands, and to omit the alignment specification.

If you use variable-length character strings, you need to be aware of another aspect of PL/I. PL/I prefixes character strings defined as VARYING with a two-byte length field. If you name such a string as a data-value, the data CICS receives starts with this length prefix—usually an unintended result. (The length sent to CICS is whatever you specify in the associated length option or, if you omit it, the maximum length for the string plus two for the length prefix.) Similarly, if you name the string as a data-area, CICS stores the information requested starting at the length prefix. CICS does not prefix character data with length, and so this also is usually unintended.

Assembler-language argument values

In assembler language, an argument calling for a data-area, data-value, or CVDA can be any relocatable expression that refers to data of the correct type, including register forms such as 20(0,11), and forms that use the macro-replacement facilities. You can use literal constants, such as =F'1' or =AL2(100), for data-values and sender CVDAs, but you should not use them—or any other storage that is not to be modified—for receiver arguments.

Pointer arguments, in contrast, are conveyed through a general register in CICS assembler programs and, therefore, they must be absolute expressions. For a

pointer-value, you specify the number of the register that contains the address of the data (loading the register first if it doesn't already point to it). For a pointer-reference, you specify the register in which CICS is to return the address of the data. For example, after execution of:

```
EXEC CICS INQUIRE TASK LIST
          LISTSIZE(LISTLEN)
          SET (9)
```

the address of the task list is in register 9.

Argument lengths

Arguments in character form can be variable in length; the USERDATA option in the ACQUIRE TERMINAL command is an example. Where this occurs, CICS provides an option with which you can specify the length of the data, and you must do so if you are coding in C/370. In COBOL, PL/I, and assembler, however, you do not ordinarily need to specify this option because, if you omit it, the translator generates the length option and supplies the correct value using the language facilities. In COBOL, for example, if you write:

```
EXEC CICS ACQUIRE TERMINAL('ABCD')
          USERDATA(LOGONMSG) END-EXEC
```

the translator adds the USERDATALEN option, as if you had written:

```
EXEC CICS ACQUIRE TERMINAL('ABCD')
          USERDATALEN(LENGTH OF LOGONMSG)
          USERDATA(LOGONMSG) END-EXEC
```

Note that the translator gets the length directly from the variable name, so you must use a name with the correct length associated if you omit the length option.

In COBOL, PL/I and assembler language, if the translator option NOLENGTH is used, the translator does not default the length options.

Null values

CICS defines a **null value** for most types of data. CICS sets receiver option values to the null value corresponding to the data type for the option if the option does not apply in a particular situation, and you can use them in sender options to indicate that you want no change to an option value. (See the "Inquiry commands" on page 19 and "SET commands" on page 23 for more about these uses.)

The null value for each data type is listed below:

Data type	Null value
Character string (n characters long)	n blanks (X40)
Halfword binary	-1 (XFFFF)
Fullword binary	-1 (XFFFFFFFF)
Doubleword binary	-1 (XFFFFFFFFFFFFFFFF)
Pointer (address)	XFF000000
CVDA (in receiver option)	DFHVALUE(NOTAPPLIC) (-1 or XFFFFFFFF)
CVDA (in sender option)	DFHVALUE(IGNORE) (-1 or XFFFFFFFF)

Exception conditions

CICS does not distinguish between SPI and API commands in the flow of control after it processes a command. You should read the material on this subject in the *CICS Application Programming Guide* if you are not familiar with it, because the information that follows is only a summary.

A program that issues a CICS command regains control at the point following the command if any of the following are true:

- The command executes normally
- You specify NOHANDLE or RESP in the command (you can specify these options in *any* command)
- An exception occurs for which an IGNORE CONDITION command has been issued

If an exception occurs for which a HANDLE CONDITION command is active, control goes to the point specified in the HANDLE command. Otherwise, CICS takes its default action for the exception. Except where specifically noted, this action is an abend. The abend codes associated with each exception condition are listed in Appendix B, “EXEC interface block (EIB) response and function codes,” on page 671.

RESP and RESP2 options

CICS sets a primary and sometimes a secondary response code when it completes a command, and provides options for you to inspect them. The primary code returned by the RESP option is the general result—either NORMAL, meaning that the command executed successfully, or the name of an exception condition such as NOTAUTH (not authorized) or INVREQ (invalid request). The secondary code, returned by RESP2, provides a finer level of detail.

RESP values are similar to CVDAs in that there is a limited set of values, each of which is named, and CICS translates the value name to its numeric equivalent. Appendix B, “EXEC interface block (EIB) response and function codes,” on page 671 lists the correspondence, but you should use the value names in your code to keep it version- and platform-independent.

For example, here is code from a program that initializes for an application. It opens and enables a file, and then checks to ensure that the operation was successful before continuing:

```
EXEC CICS SET FILE ('TAXFILE ') OPEN ENABLED
          RESP(RC) END-EXEC.
IF RC = DFHVALUE(NORMAL) PERFORM MAIN-RTN
ELSE IF RC = DFHVALUE(NOTAUTH)
          PERFORM SECURITY-WARNING
     ELSE PERFORM ERR-RTN.
```

Many exception conditions can have multiple causes. If you need to know the exact cause, you use the RESP2 option, which you can specify whenever you have specified RESP. For example, if you wanted to distinguish a failure because the file was remote from other failures in the example above, you could add the RESP2 option to the SET FILE statement:

```
EXEC CICS SET FILE ('TAXFILE ') OPEN ENABLED
          RESP(RC) RESP2(RC2) END-EXEC
```

and then test explicitly for a remote file:

```
IF RC2 = 1 . . .
```

RESP2 values are numeric and predefined by CICS, like RESP values, but they are not named; you use the numeric values, as shown in the example. They are unique for a specific command, and the RESP2 value implies the RESP value, so that you do not need to test both. They are not unique across commands, however, as RESP values are. Both are fullword binary values, defined in the same way as a CVDA in the same language:

```
COBOL          PIC S9(8) COMP
C/370          long int
PL/I           FIXED BIN(31)
Assembler      F
```

Security checking

CICS uses an external security manager, such as RACF®, to perform security checking. The facilities CICS provides are summarized in this section, but you will need to refer to other manuals for full information. The *CICS RACF Security Guide* is the most comprehensive reference; it describes in detail how CICS uses RACF facilities to implement security. System and resource definition options that govern security are described in the *CICS System Definition Guide* and the *CICS Resource Definition Guide*, respectively, and the *CICS Customization Guide* contains general information on CICS security.

Five types of security checks govern whether a particular SPI command is executed:

- Transaction
- Command
- Surrogate
- Resource
- Authtype (DB2® objects only)

CICS performs these checks if, and only if, the SEC system initialization parameter has a value of YES.

The **transaction** check occurs first, at task attach time, when CICS ensures that the user initiating the task has authority to use the transaction that is to be executed. This check is governed by the XTRAN system initialization parameter as well as SEC; it is skipped if the XTRAN value is NO. The remaining checks occur as necessary when commands are issued.

Command checking verifies that the user is authorized to use SPI commands. It is governed by the XCMD and CMDSEC system initialization parameters, and the CMDSEC option in the definition of the TRANSACTION being executed, and occurs if the XCMD value is not NO and either the CMDSEC option in the TRANSACTION is YES or the CMDSEC system initialization parameter is ALWAYS. If the user is not authorized, CICS rejects the command with a RESP value of NOTAUTH and a RESP2 value of 100. SPI commands are the ones described in this book, and are the same ones that require the SP option for translation (see page “The format of SPI commands” on page 3).

If the command associates a user ID with a resource, a **surrogate** check may follow the command check. This check ensures that the user ID of the task issuing the command has authority to act as a surrogate for the user ID named in the command. It occurs only if the XUSER system initialization parameter is YES, and applies only to these command-option combinations:

- SET TDQUEUE with ATIUSERID
- SET DB2CONN with AUTHID or COMAUTHID
- SET DB2ENTRY with AUTHID
- SET DB2TRAN that references a DB2ENTRY containing AUTHID
- CREATE CONNECTION with SECURITYNAME
- CREATE DB2CONN with AUTHID or COMAUTHID
- CREATE DB2ENTRY with AUTHID
- CREATE DB2TRAN that references a DB2ENTRY containing AUTHID
- CREATE SESSIONS with USERID
- CREATE TDQUEUE with USERID
- CREATE TERMINAL with USERID

CICS returns a RESP2 value of 102 if the check fails. (Additional checks on the assigned user occur on SET TDQUEUE ATIUSERID, as detailed in the description of that command.)

The **resource** check verifies that the user ID has authority to use the resource in the way required by the command. Resource checking is controlled by the RESSEC option in the TRANSACTION being executed, the RESSEC system initialization parameter, and a system initialization parameter specific to the resource type:

XDCT for transient data queues
XFCT for files
XJCT for journals
XPCT for transactions
XPPT for programs, map sets, partition sets, and exits
XTST for temporary storage queues
XDB2 for DB2 entries and transactions

Resource checking occurs only if the applicable resource-type system initialization system initialization parameter has a value other than NO and either the RESSEC option in the TRANSACTION is YES or the RESSEC system initialization parameter is ALWAYS. For commands other than INQUIRE NEXT, CICS rejects the command with the NOTAUTH condition and a RESP2 value of 101 if a resource check fails. During a browse, however, CICS simply skips resources that would fail the resource check on an ordinary INQUIRE (see “Rules for browsing” on page 23 for details).

The resources that can be protected in this way, and the SPI commands that require access authority, are shown in the table that follows. The letter in parentheses after the command indicates whether the user needs read (R), update (U), or alter (A) authority to the resource.

Resource (system initialization parameter)	**Commands**
Exits (XPPT option)	DISABLE PROGRAM (U) ENABLE PROGRAM (U) EXTRACT EXIT (R) INQUIRE EXITPROGRAM (R)
Files (XFCT option)	COLLECT STATISTICS FILE (R) CREATE FILE (A) DISCARD FILE (A) INQUIRE FILE (R) SET FILE (U)

Resource (system initialization parameter)	Commands
Journals (XJCT option)	COLLECT STATISTICS JOURNALNAME (R) COLLECT STATISTICS JOURNALNUM (R) DISCARD JOURNALNAME (A) INQUIRE JOURNALNAME (R) SET JOURNALNAME (U)
Programs Map sets Partition sets (XPPT option)	COLLECT STATISTICS PROGRAM (R) CREATE MAPSET (A) CREATE PARTITIONSET (A) CREATE PROGRAM (A) DISCARD PROGRAM (A) INQUIRE PROGRAM (R) SET PROGRAM (U)
Temporary storage queues (XTST option)	INQUIRE TSQUEUE (R) INQUIRE TSQNAME (R)
Transactions (XPCT option)	COLLECT STATISTICS TRANSACTION (R) CREATE TRANSACTION (A) DISCARD TRANSACTION (A) INQUIRE TRANSACTION (R) INQUIRE REQID TRANSID (R) SET TRANSACTION (U)
Transaction classes (XPCT option)	COLLECT STATISTICS TCLASS (R) COLLECT STATISTICS TRANCLASS (R) CREATE TRANCLASS (A) DISCARD TRANCLASS (A) INQUIRE TCLASS (R) INQUIRE TRANCLASS (R) SET TCLASS (U) SET TRANCLASS (U)
Transient data queues (XDCT option)	COLLECT STATISTICS TDQUEUE (R) CREATE TDQUEUE (A) DISCARD TDQUEUE (A) INQUIRE TDQUEUE (R) SET TDQUEUE (U)
DB2ENTRYs (XDB2 option)	CREATE DB2ENTRY (A) CREATE DB2TRAN (A) INQUIRE DB2ENTRY (R) INQUIRE DB2TRAN (R) SET DB2ENTRY (U) SET DB2TRAN (U)
DB2TRANs (XDB2 option)	CREATE DB2ENTRY (A) CREATE DB2TRAN (A) INQUIRE DB2ENTRY (R) INQUIRE DB2TRAN (R) SET DB2ENTRY (U) SET DB2TRAN (U)

Authtype checking applies to DB2CONNs, DB2ENTRYs, and DB2TRANs only. For more information, see the *CICS DB2 Guide*.

The QUERY SECURITY command

You can find out whether you are authorized to access a resource or to issue a system programming command by issuing the QUERY SECURITY command. This

is not an SPI command and does not access any resources, and so never raises a NOTAUTH condition. It is described in the *CICS Application Programming Reference* manual.

Inquiry commands

The system programming commands allow you to inquire about the definition and status of most of the resources defined to CICS, and about many elements of the CICS system as well. The resources about which you can inquire are:

- Autoinstall terminal models (AUTINSTMODEL)
- Bridge facilities used by the 3270 bridge (BRFACILITY)
- Enterprise beans (BEAN)
- Coupling facility data table server connections (CFDTPOOL)
- Connections (CONNECTION and UOWLINK)
- CorbaServers (CORBASERVER)
- DB2 connections (DB2CONN)
- DB2 entries (DB2ENTRY)
- DB2 transactions (DB2TRAN)
- DOC templates (DOCTEMPLATE)
- Deployed JAR files (DJAR)
- Exits (EXITPROGRAM)
- External data sets (DSNAME and UOWDSNFAIL)
- Files (FILE)
- Installed enterprise bean (BEAN)
- Journals (JOURNALNAME and JOURNALMODEL)
- JVMs (JVM)
- JVM profiles (JVMPROFILE)
- Log streams (STREAMNAME)
- Map sets (PROGRAM)
- Partition sets (PROGRAM)
- Partners (PARTNER)
- Pipelines (PIPELINE)
- Process type (PROCESSTYPE)
- Profiles (PROFILE)
- Programs (PROGRAM)
- Request models (REQUESTMODEL)
- Session groups (MODENAME)
- Storage subpools (SUBPOOL)
- System dump codes (SYSDUMPCODE)
- TCP/IP services (TCPIPSERVICE)
- Temporary storage queues (TSQUEUE and TSQNAME)
- Temporary storage pools (TSPOOL)
- Temporary storage models (TSMODEL)
- Terminals (TERMINAL, NETNAME)
- Transaction classes (TCLASS, TRANCLASS)
- Transaction dump codes (TRANDUMPCODE)
- Transactions (TRANSACTION)
- Transient data queues (TDQUEUE)
- URIMAP resource definitions (URIMAP)
- Virtual hosts (HOST)
- Web services (WEBSERVICE)

For most resource types, the options in the INQUIRE command correspond to specific elements in the definition of that resource. Such options usually have the same or similar names in the INQUIRE command and in the resource definition. Where they do not, the option text in this manual notes the corresponding definition

option. Consequently, if you need additional information about the meaning of an option value, it is often helpful to refer to the definition of the resource in the *CICS Resource Definition Guide*.

The system elements about which you can inquire are:

Autoinstall for terminals (AUTOINSTALL)
Dispatcher (DISPATCHER)
Dump data sets (DUMPDS)
Enqueues (UOWENQ)
Interregion communication (IRC)
Monitor (MONITOR)
MVS TCBs (MVSTCB)
JVM pool (JVMPOOL)
Requests (REQID)
Shared class cache (CLASSCACHE)
Shipped terminal status (DELETSHIPPED)
Statistics (STATISTICS)
Storage (STORAGE)
System status (SYSTEM)
Tasks (TASK, TASK LIST)
TCP/IP (TCPIP)
Tracing (TRACEDEST, TRACEFLAG, TRACETYPE)
Transactional EXCI (RRMS)
Units of work (UOW, UOWDSNFAIL, UOWENQ, UOWLINK)
VTAM®
Web interface (WEB)
Work requests (WORKREQUEST)

Most of these elements correspond to system initialization parameters. If you need more information about them, see the system initialization parameters discussion in the *CICS System Definition Guide*.

Certain considerations apply to all of the inquiry commands, which are principally the INQUIREs, but also include COLLECT STATISTICS, EXTRACT STATISTICS and EXTRACT EXIT.

- **Exception conditions**: CICS returns no information when an exception condition occurs; data-areas named in receiver options are unchanged.
- **Exclusive control**: A task inquiring about a resource, system setting, or system component does not get exclusive control of the object of the inquiry. The information returned may be changed by another task or system event at any time. The resource currently being inquired on should not be deleted since the current resource is used to position to the next resource on a subsequent GETNEXT command. Only after the subsequent GETNEXT command can the resource be deleted, since it is no longer required for positioning within this browse request.
- **Browsing**: Resources defined in the first (resource) list can be retrieved sequentially, as explained in “Browsing resource definitions” on page 21.
- **Inapplicable options**: If you specify a receiver option that does not apply to the resource about which you are inquiring, CICS generally returns the appropriate “null value”, as defined in “Null values” on page 14. (In a few cases, an exception is raised; these cases are noted in the command descriptions.)

  For example, if you include BLOCKFORMAT in an INQUIRE TDQUEUE command that specifies an intrapartition transient data queue, CICS returns the value NOTAPPLIC to the CVDA you provide, because BLOCKFORMAT is valid for extrapartition queues only.

Browsing resource definitions

The INQUIRE commands that apply to resources ordinarily retrieve information about a **single** resource that you name when you issue the command, and the individual command syntax discussions in the next section describe them in this form.

However, there is another form that enables you to browse through some or all of the definitions of a given type. The resource types that you are allowed to browse are those in the first list in “Inquiry commands” on page 19, plus requests (REQIDs) and units of work (UOWs, UOWDSNFAILs, UOWENQs, and UOWLINKs).

Starting a browse

A browse involves three steps. First, you issue the INQUIRE command with an additional option, START, to set up the browse. This command does not produce any information; it just tells CICS what you are going to do. The general form of the command is:

Browse START

```
INQUIRE resource-type START
```

In addition to the START option, there are several differences in the way you issue this setup command from the normal syntax:

- You identify the resource type only, without providing a resource name; that is, the resource type appears without its customary data-value.
- You omit all of the options in which CICS returns information to you.
- You also omit options that send information to CICS, other than the resource type. (INQUIRE EXITPROGRAM and INQUIRE UOWENQ are exceptions to this rule; you can limit the browse by supplying additional information on the START, as explained in the descriptions of these commands.)

Generally, CICS returns resource definitions to you in the order it keeps them internally. You cannot control this order, and you should not depend on it always being the same. For a few resource types, however, CICS returns definitions in alphabetic order of resource name. These are:

- DB2ENTRYs and DB2TRANs
- Programs, map sets, and partition sets
- Temporary storage queues
- Transactions
- Transaction classes

For these resources only, you can specify a starting point for the browse with the AT option on the INQUIRE START:

START browse AT

```
INQUIRE resource-type START AT(data-value)
```

The AT data-value is the name at which you want to start. It must be in the correct format for a name of the resource type being browsed, but it does not have to correspond to an installed resource; it is used only to start the browse at the proper point in the resource list. CICS restricts the definitions that it returns on your

INQUIRE NEXT commands to resources with names equal to or greater (in the collating sequence) than the value you provide.

JVM profiles are also returned in alphabetic order of resource name, but you cannot use the AT option with the INQUIRE JVMPROFILE START command.

Retrieving the next resource

In the second step of a browse, you issue the INQUIRE command repetitively with another new option, NEXT. CICS returns one resource definition for each INQUIRE NEXT. The general format is:

Browse NEXT

```
INQUIRE resource-type(data-area) NEXT option...option
```

Apart from the addition of NEXT, the options are almost the same on an INQUIRE NEXT as on a single INQUIRE for the same type of resource. Again, however, there are some differences:

- Instead of specifying the name of the resource (a data-value), you provide a **data-area** of the same length for CICS to return the name of the next resource to you.
- Options by which CICS returns data to you are used in the same way as on the single-resource form.
- A few options, such as the CONNECTION option on INQUIRE MODENAME, change their roles in a browse. These differences also are noted in the commands to which they apply.

You repeat the INQUIRE NEXT command until you have seen the resource definitions you want or have exhausted the definitions. After you have retrieved the last of them, CICS raises the END condition on subsequent INQUIRE NEXTs, leaving any data-areas you provided unchanged. However, you do not have to retrieve all the definitions; you can stop the browse at any time.

Ending the browse

Stopping the browse is the final step. To do so you issue an INQUIRE for the resource type with just the END option, thus:

Browse END

```
INQUIRE resource-type END
```

Browse example

Here is an example of a typical browse sequence. This code retrieves the names of all the files installed in the system and calls a subroutine to process information about the recovery characteristics if the file is open.

```
EXEC CICS INQUIRE FILE START END-EXEC.
PERFORM UNTIL RESPCODE = DFHRESP(END)
    EXEC CICS INQUIRE FILE(FILENAME) NEXT
        OPENSTATUS(OPENSTAT)
        RECOVSTAT(RCVRSTAT)
        FWDRECSTATUS(FWDSTAT)
        RESP(RESPCODE) END-EXEC
    IF RESPCODE = DFHRESP(NORMAL)
```

```
        IF OPENSTAT = DFHVALUE(OPEN)
            CALL RCVY-RTN USING RCVRSTAT FWDSTAT
        END-IF
    ELSE CALL ERROR-RTN END-IF
END-PERFORM.
EXEC CICS INQUIRE FILE END END-EXEC.
```

Rules for browsing

In addition to the syntax changes described above, there are some rules you should note about browsing resource definitions:

1. Your position in a browse is associated with your task, so that it is preserved across LINK and XCTL commands.

   Note: Programs that run as part of a program list table (PLT) during CICS initialization or termination run under a single task. Consequently, they should terminate explicitly any browse they begin, in order not to conflict with other programs in the same PLT.
2. A task can browse more than one type of resource at the same time, but can have only one browse in progress for a particular resource type.
3. A SYNCPOINT command does not end a browse or affect your position in it.
4. Resource definitions are not locked during a browse, and another task may change the definitions while you are inquiring on them.
5. Nonetheless, you should always end a resource browse explicitly, rather than allowing end-of-task processing to do so implicitly, because a browse holds control blocks that other tasks may require for browsing.
6. INQUIRE NEXT commands usually do not cause a task switch. Therefore, a task browsing a long list of resources may exceed the runaway task interval without giving up control, causing CICS to abend it with an AICA code. If this occurs, you need to intersperse a SUSPEND command periodically among your INQUIRE NEXTs.
7. During a browse in a task for which resource security checking is in effect, CICS returns only those definitions that the user is authorized to see. The others are skipped without any indication.

Exception conditions for browsing

Two conditions can occur on the browse forms of an INQUIRE command, in addition to those that apply to the single-resource form of the command:

END

RESP2 values:

2 INQUIRE NEXT has been issued, but there are no more resource definitions of the type being browsed.

ILLOGIC

RESP2 values:

1 A START has been given when a browse of the same resource type is already in progress, or a NEXT or an END has been given without a preceding START.

SET commands

You can change most of the system elements and resource definitions about which you can inquire, although in general you cannot change as many option values as you can retrieve. Changes are made with a SET command naming the resource or system element.

Like the INQUIRE commands, SET commands follow some general rules:

- **Exceptions**: When a SET command results in an exception condition, CICS makes as few of the requested changes as possible. To establish which, if any, changes have been made, you can issue the corresponding INQUIRE command.
- **Permanence**: If you change a system setting or resource definition element that is ordinarily recorded in the CICS global catalog, the change is also recorded in the catalog and thus preserved over a warm or emergency restart. If the information is not ordinarily recorded, it lasts only for the current execution of CICS. In a cold or initial start, the catalog information is discarded and all effects of earlier SET commands are lost.
- **Recoverability**: SET commands are not recoverable. Their effects are not backed out if the task that issued them abends or issues a SYNCPOINT ROLLBACK command. Consequently, SET commands do not lock resources, and you do not need to precede a SET with the corresponding INQUIRE command.
- **"No change" values**: Except where there is a default value for an option, CICS does not change the value associated with an option that you omit. However, there is a second way to indicate that you want no change. If you specify the null value in a sender option that is not required, CICS leaves the option value unchanged. Although you can get the same effect by omitting the option if there is no default, the ability to specify a "no change" value allows you to vary the options in a command as well as the option values, simplifying your code in some situations.

  For example, suppose you needed to change many different combinations of options, depending on the outcome of some calculations. Your code might look something like this:

```
IF ... MOVE DFHVALUE(NOTDELETABLE) TO DEL
ELSE MOVE DFHVALUE(IGNORE) TO DEL.
IF ... MOVE 2 TO POOL
ELSE MOVE -1 TO POOL.
IF ... MOVE 'TAXID.MASTER' to DSN
ELSE MOVE SPACES TO DSN.
EXEC CICS SET FILE('TAXMSTR ') DELETE(DEL)
     LSRPOOLID(POOL) DSNAME(DSN) END-EXEC.
```

  See "Null values" on page 14 for more about null values.

  Note: There are a few options, such as the NEXTTRANSID option in a SET TERMINAL command, for which blanks (the null value for a character field) are a meaningful value. For these options, there is no null value, and you must omit the option if you do not want to change its value; these cases are noted in the option descriptions.

Creating resource definitions

CREATE commands allow you to add resource definitions to the local CICS region by program, so that you can write applications to administer a running CICS system. These definitions are equivalent to those produced by CEDA transactions. They are recorded in the CICS global catalog and persist over a warm or emergency restart.

However, CREATE commands neither refer to nor record in the CICS system definition (CSD) file. Consequently, the resulting definitions are lost on a cold or initial start, and you cannot refer to them in a CEDA transaction.

You can create definitions for the following types of resources:

- Connections
- CorbaServer (CORBASERVER)
- DB2 connection
- DB2 resources (DB2ENTRYs DB2TRANs)
- Deployed JAR files (DJAR)
- Document templates
- ENQ models
- Files
- Journal models
- LSR pools
- Map sets
- Partition sets
- Partners
- PIPELINEs
- Process types
- Profiles
- Programs
- Request models
- Sessions
- TCP/IP service
- Temporary storage queue models
- Transient data queues
- Terminals
- Terminal types (TYPETERMs)
- Transaction classes
- Transactions
- URIMAPs
- WEBSERVICEs

A CREATE command corresponds to a combined CEDA DEFINE and INSTALL, except for not updating the CSD file. If there is no resource of the same name and type already installed, the new definition is added to the resources of your CICS region. (Definitions always apply to the local CICS region, even if they describe resources located on a remote system.) If the resource was already installed, the new definition replaces the old one, and an implicit discard of the old resource occurs as well. In this case, most restrictions that would apply to a DISCARD command naming the same resource apply to the CREATE.

During the processing, CICS syncpoints your task, as if a SYNCPOINT command had been issued along with the CREATE. Changes made to recoverable resources between the CREATE and task start (or the most recent syncpoint) are committed if processing is successful, and rolled back if not. (For TERMINAL definitions and CONNECTION-SESSIONS definitions that require more than one CREATE command to complete, the syncpoint takes place on the final CREATE of the sequence.)

If an error is detected before installation processing begins, installation is not attempted. CICS raises an exception condition and returns control to the issuing task without syncpointing. However, some errors are detected later in the process and cause rollback, and all successful CREATEs cause a commit. Tasks using these commands need to be written with these commit effects in mind.

In addition, the implied syncpoint means that CREATE commands cannot be issued in a program invoked by a distributed program link unless the LINK command specifies SYNCONRETURN, in a program with an EXECUTIONSET value of DPLSUBSET, or in any other situation where syncpoint is not allowed.

CREATE commands can be executed at any time after the start of the third phase of CICS initialization. This means they can be used in programs specified in the second section of the program load table for postinitialization (PLTPI) as well as during normal CICS execution.

ATTRIBUTES option

The specifics of the resource definition that a CREATE command installs are conveyed through the ATTRIBUTES option value, which is a character string listing the attributes of the resource. You specify attributes and attribute values in text form, in the same way that you do on a CEDA DEFINE screen. This character string is analyzed at the time the CREATE command is executed, and consequently must consist entirely of text, rather than variable names, in a single string. The syntax within the string is provided for each CREATE command, using the same conventions as command syntax, except for the attribute values as noted below. However, the contents are *not* parsed by the translator, which checks only the command syntax, shown in the main diagram.

Attribute values appear essentially as they do on CEDA DEFINE screens. However, because DEFINE screens are preformatted and ATTRIBUTES strings are not, you need to know the following rules:

- Attributes may appear in any order (you do not have to follow the order in the syntax diagram or in the CEDA command).
- The name of an attribute must be that shown in the syntax diagram or the abbreviation permitted in the corresponding CEDA DEFINE entry (see the discussion of DEFINE in the *CICS Resource Definition Guide*).

  Note: Abbreviations can change from release to release, and thus full spellings are safest.
- The attribute string is not converted to uppercase, in contrast to inputs to CEDA and the DFHCSDUP utility. Attribute names are recognized regardless whether you use upper, lower, or mixed case, as are value names assigned by CICS (those shown in uppercase letters in the syntax diagram). However, other character values—resource names and message text, for example—are taken as is, so that you need to supply them in the intended case.
- The argument value, if any, must follow the rules for the same attribute in a CEDA DEFINE panel. Where there are a limited number of possible values, they are listed in the attributes diagram in uppercase. Otherwise the diagram indicates only the form of the value, using the following conventions:
  char*n* A character string of length *n* or, where the argument can be of variable length, of maximum length *n*.
  hex*n* A string of hexadecimal characters of length *n* or, where the argument can be of variable length, of maximum length *n*.
  n1-n2 A number in the range *n1* to *n2*.

  Note: You can omit trailing blanks in character arguments, trailing X00s in hexadecimal arguments, and leading zeros in numeric arguments.
  In all cases, you should refer to the *CICS Resource Definition Guide* for specific rules about the argument values.
- You can use one or more blanks to separate attributes for readability, but a blank is required only between an attribute that has no argument and the next attribute. Commas and other separators are not allowed. Blanks may also appear between an attribute name and the parentheses that surround its argument, and between the parentheses and the argument value, but they are not necessary. Thus both of these, and similar combinations, are correct:

```
ATTRIBUTES ( UCTRAN (NO)RTIMEOUT (10 ))
ATTRIBUTES( UCTRAN(NO)   RTIMEOUT( 10)  )
```

- No quote marks are required within the attribute string (you need them around the whole string if you use a literal, as in the example above). If you want quotes within your text—in the DESCRIPTION attribute, for example—use two quote characters for each one that you want to appear in the text, as you do in literal constants that contain quotes.
- Very few attributes require specification, and omitting one is equivalent to not keying a value for it on a CEDA screen. Where the default value is always the same, it is shown in the diagram in the same way as in syntax diagrams. However, some defaults depend on the values of other attributes, and these are not shown. (You cannot define your own defaults, because CREATEs do not use the CSD file.)
- For some resource types, you can use defaults for all attributes. If you wish to do this, set the length of the string to zero in the ATTRLEN option. You must still specify the ATTRIBUTES option in this case, even though the data-value you provide is not examined.
- You can omit the ATTRLEN option when it is not zero if it is the length of the variable specified in ATTRIBUTES and you are not coding in C/370, as explained in “Argument lengths” on page 14.

If you make an error in the ATTRIBUTES string, CICS raises the INVREQ condition with an appropriate RESP2 value. Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 lists the RESP2 values that apply.

Discarding resource definitions

The DISCARD command deletes the definition of a resource installed in the local CICS system, so that the system no longer has access to the resource, or makes a model ineligible for use as a model. It reverses the effect of the installation of the resource, which can occur at system startup, through a subsequent CREATE command or CEDA transaction, or by an automatic installation process.

Each DISCARD command removes the definition of one resource. You can remove definitions for the following types of resources:

Autoinstall models for terminals
Connections
CorbaServer (CORBASERVER)
DB2Conns
DB2Entrys
DB2Trans
Deployed JAR files (DJAR)
Document templates
ENQ models
Files
Journals and journal models
Partners
PIPELINEs
Process types
Profiles
Programs, map sets, and partition sets
Request models
TCP/IP service
Temporary storage queue models
Terminals
Transaction classes

Transactions
Transient data queues
URIMAPs
WEBSERVICEs

You cannot discard a resource that is currently in use. For example, you cannot discard a PROFILE definition if some installed TRANSACTION definition still points to it, or a FILE that is open, or a TRANSACTION that is scheduled for execution.

In addition, some resources are not eligible for discard at all. These include resources whose names begin with the letters DFH (reserved for CICS-supplied definitions), and transactions whose names begin with C (also reserved for CICS).

Some DISCARD commands cause a syncpoint on behalf of the issuing task, as the CREATE commands do. For these commands, the discussion of syncpoint considerations on page "Creating resource definitions, CICS syncpoints your task" on page 25 applies.

DISCARD commands are recorded in the CICS catalog, so that their effects persist over a warm or emergency restart, but they do not modify the CSD file and thus are lost on a cold or initial start.

Exit-related commands

In CICS, an **exit** is installation-supplied code that is invoked either at specific, CICS-defined points within CICS system code, or by an application request that uses the exit mechanism (such as a DB2 or IMS™™ request). There are two types: global user exits and task-related user exits. Global user exits are always invoked at CICS-defined points in system code; task-related exits can be invoked both ways. The *CICS Customization Guide* lists the points in CICS code at which global exits may be invoked, describes how and when task-related exits are driven, and gives full details for programming exits.

Five SPI commands are related to exits:
ENABLE PROGRAM
DISABLE PROGRAM
EXTRACT EXIT
RESYNC ENTRYNAME
INQUIRE EXITPROGRAM

You can use them in any language supported by CICS, even though the exit itself must be coded in assembler.

Defining exits

The only way to define an exit in CICS—that is, to install it so that the code gets executed—is to issue the ENABLE PROGRAM command.

Similarly, the only way to delete the definition is to issue the corresponding DISABLE PROGRAM EXITALL command or shut down the system. Exit definitions last only for the current execution of CICS. They are not recorded in keypoints, the CICS global catalog, or the CSD file, and therefore do not survive a shutdown of any kind.

ENABLE and DISABLE PROGRAM commands affect only the CICS region in which they are issued. Even if CICS system code or exit program code is shared among several executing CICS regions, the exit must be defined and deleted separately in each region that uses it.

Moreover, these commands are not recoverable; their effects are not backed out if the task that issued them fails or issues a SYNCPOINT ROLLBACK command.

Exit names

The code that an exit executes is contained in one or more ordinary load modules (a module may be used both by an exit and a user transaction, in fact). You identify the first module to be executed in an exit by naming it in the PROGRAM option of the ENABLE PROGRAM command that creates the exit. The exit can execute other modules as well, but you tell CICS where to start, just as you name only the first program to be executed in a TRANSACTION definition.

Exits are named by the ENTRYNAME value in the initial ENABLE PROGRAM command, not the PROGRAM value, although you can omit the ENTRYNAME option and allow its value to default to the PROGRAM value. Exit names must be unique, however, and if a program is used first by more than one exit, only one of them can be named by default in this way. Moreover, even when an exit and its first program have the same name, they are separate entities of different types.

Because of this default (and some history), CICS requires that you always identify an exit in the same way that you did in the ENABLE PROGRAM command that created it—that is, by coding (or omitting) the same PROGRAM and ENTRYNAME values. RESYNC ENTRYNAME is an exception; you specify the exit name in the ENTRYNAME option, regardless of whether you used ENTRYNAME or PROGRAM to assign the name initially. Also, in the INQUIRE EXITPROGRAM command, the option that names the initial program is EXITPROGRAM rather than PROGRAM.

Like modules invoked by user transactions, load modules used by exits must be defined as PROGRAM resources, either explicitly or by autoinstallation, and they must have an ENABLESTATUS value of ENABLED at the time of invocation. In addition, the initial program for an exit must be in ENABLED status at the time of the ENABLE PROGRAM command that creates the exit. However, the ENABLESTATUS of a program is independent of any exits that use it, and it is not affected by ENABLE and DISABLE PROGRAM commands that refer to it.

CICS threadsafe commands in the SPI

If you write and define a CICS program as threadsafe, it can receive control on an open transaction environment (OTE) TCB. To obtain the maximum performance benefit from OTE, write your CICS programs in a threadsafe manner to avoid CICS having to switch TCBs. However, be aware that not all EXEC CICS commands are threadsafe, and issuing any of the non-threadsafe commands causes CICS to switch your task back to the QR TCB to ensure serialization. The commands that are threadsafe are indicated in the command syntax diagrams in this programming reference with the statement: "This command is threadsafe".

For a list of the system programming interface (SPI) commands that are threadsafe, see Appendix D, “Threadsafe SPI commands,” on page 697.

For similar statements about the application programming interface (API), see the *CICS Application Programming Reference* manual.

Chapter 2. System commands

ACQUIRE TERMINAL 35
COLLECT STATISTICS 38
CREATE CONNECTION 48
CREATE CORBASERVER 52
CREATE DB2CONN 55
CREATE DB2ENTRY 58
CREATE DB2TRAN 61
CREATE DJAR 63
CREATE DOCTEMPLATE 65
CREATE ENQMODEL 67
CREATE FILE 69
CREATE JOURNALMODEL 72
CREATE LSRPOOL 74
CREATE MAPSET 77
CREATE PARTITIONSET 79
CREATE PARTNER 81
CREATE PIPELINE 83
CREATE PROCESSTYPE 85
CREATE PROFILE 87
CREATE PROGRAM 89
CREATE REQUESTMODEL 92
CREATE SESSIONS 94
CREATE TCPIPSERVICE 97
CREATE TDQUEUE 100
CREATE TERMINAL 104
CREATE TRANCLASS 107
CREATE TRANSACTION 109
CREATE TSMODEL 112
CREATE TYPETERM 114
CREATE URIMAP 118
CREATE WEBSERVICE 121
DISABLE PROGRAM 123
DISCARD AUTINSTMODEL 127
DISCARD CONNECTION 128
DISCARD CORBASERVER 130
DISCARD DB2CONN 131
DISCARD DB2ENTRY 132
DISCARD DB2TRAN 133
DISCARD DJAR 134
DISCARD DOCTEMPLATE 135
DISCARD ENQMODEL 136
DISCARD FILE 137
DISCARD JOURNALMODEL 138
DISCARD JOURNALNAME 139
DISCARD PARTNER 141
DISCARD PIPELINE 142
DISCARD PROCESSTYPE 143
DISCARD PROFILE 144
DISCARD PROGRAM 145
DISCARD REQUESTMODEL 146
DISCARD TCPIPSERVICE 147
DISCARD TDQUEUE 148
DISCARD TERMINAL 150

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DISCARD TRANCLASS 152
DISCARD TRANSACTION 153
DISCARD TSMODEL 154
DISCARD URIMAP 155
DISCARD WEBSERVICE 156
ENABLE PROGRAM 157
EXTRACT EXIT 164
EXTRACT STATISTICS 166
INQUIRE AUTINSTMODEL 170
INQUIRE AUTOINSTALL 171
INQUIRE BEAN 173
INQUIRE BRFACILITY 175
INQUIRE CFDTPOOL 178
INQUIRE CLASSCACHE 180
INQUIRE CONNECTION 183
INQUIRE CORBASERVER 194
INQUIRE DB2CONN 197
INQUIRE DB2ENTRY 205
INQUIRE DB2TRAN 210
INQUIRE DELETSHIPPED 212
INQUIRE DISPATCHER 214
INQUIRE DJAR 217
INQUIRE DOCTEMPLATE 219
INQUIRE DSNAME 222
INQUIRE DUMPDS 229
INQUIRE ENQ 231
INQUIRE ENQMODEL 232
INQUIRE EXCI 234
INQUIRE EXITPROGRAM 236
INQUIRE FILE 242
INQUIRE HOST 254
INQUIRE IRC 256
INQUIRE JOURNALMODEL 257
INQUIRE JOURNALNAME 259
INQUIRE JOURNALNUM 261
INQUIRE JVM 262
INQUIRE JVMPOOL 265
INQUIRE JVMPROFILE 267
INQUIRE MODENAME 269
INQUIRE MONITOR 272
INQUIRE MVSTCB 276
INQUIRE NETNAME 278
INQUIRE PARTNER 280
INQUIRE PIPELINE 282
INQUIRE PROCESSTYPE 284
INQUIRE PROFILE 286
INQUIRE PROGRAM 287
INQUIRE REQID 296
INQUIRE REQUESTMODEL 301
INQUIRE RRMS 303
INQUIRE STATISTICS 304
INQUIRE STORAGE 307
INQUIRE STREAMNAME 310
INQUIRE SUBPOOL 312
INQUIRE SYSDUMPCODE 314
INQUIRE SYSTEM 317

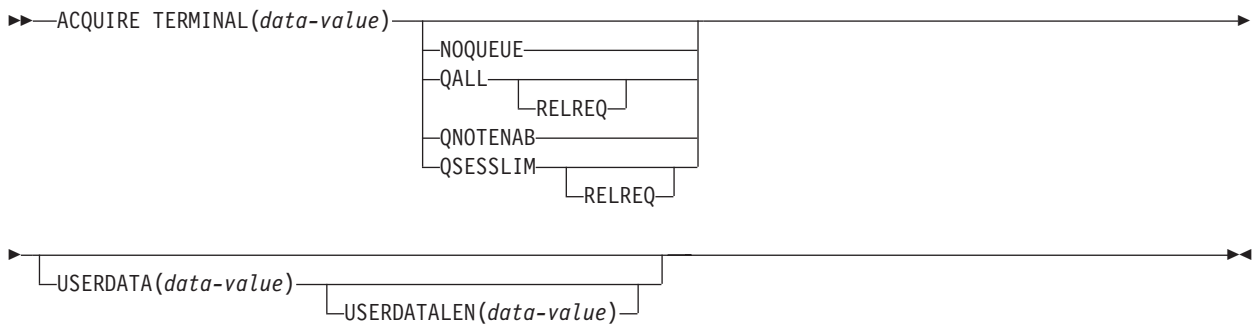
INQUIRE TASK 328
INQUIRE TASK LIST 339
INQUIRE TCLASS 341
INQUIRE TCPIP 342
INQUIRE TCPIPSERVICE 344
INQUIRE TDQUEUE 350
INQUIRE TERMINAL 358
INQUIRE TRACEDEST 378
INQUIRE TRACEFLAG 381
INQUIRE TRACETYPE 383
INQUIRE TRANCLASS 386
INQUIRE TRANDUMPCODE 388
INQUIRE TRANSACTION 391
INQUIRE TSMODEL 399
INQUIRE TSPOOL 401
INQUIRE TSQUEUE / TSQNAME 403
INQUIRE UOW 407
INQUIRE UOWDSNFAIL 412
INQUIRE UOWENQ 417
INQUIRE UOWLINK 423
INQUIRE URIMAP 427
INQUIRE VOLUME 432
INQUIRE VTAM 433
INQUIRE WEB 436
INQUIRE WEBSERVICE 437
INQUIRE WORKREQUEST 440
PERFORM CLASSCACHE 443
PERFORM CORBASERVER 447
PERFORM DELETSHIPPED 450
PERFORM DJAR 451
PERFORM DUMP 453
PERFORM ENDAFFINITY 456
PERFORM PIPELINE 458
PERFORM RESETTIME 460
PERFORM SECURITY REBUILD 461
PERFORM SHUTDOWN 463
PERFORM STATISTICS RECORD 466
RESYNC ENTRYNAME 471
SET AUTOINSTALL 474
SET BRFACILITY 476
SET CLASSCACHE 478
SET CONNECTION 480
SET CORBASERVER 489
SET DB2CONN 492
SET DB2ENTRY 502
SET DB2TRAN 508
SET DELETSHIPPED 510
SET DISPATCHER 513
SET DSNAME 516
SET DUMPDS 525
SET ENQMODEL 527
SET FILE 529
SET HOST 542
SET IRC 544
SET JOURNALNAME 546
SET JOURNALNUM 548

SET JVMPOOL 549
SET MODENAME 551
SET MONITOR 553
SET NETNAME 557
SET PIPELINE 558
SET PROCESSTYPE 559
SET PROGRAM 561
SET STATISTICS 566
SET SYSDUMPCODE. 570
SET SYSTEM. 574
SET TASK 580
SET TCLASS 582
SET TCPIP. 583
SET TCPIPSERVICE 585
SET TDQUEUE 588
SET TERMINAL 593
SET TRACEDEST 602
SET TRACEFLAG 606
SET TRACETYPE 608
SET TRANCLASS 611
SET TRANDUMPCODE 613
SET TRANSACTION 617
SET TSQUEUE / TSQNAME 621
SET UOW 623
SET UOWLINK 625
SET URIMAP 627
SET VOLUME. 629
SET VTAM 630
SET WEB 633
SET WEBSERVICE 634
SET WORKREQUEST 635

ACQUIRE TERMINAL

Acquire a session with a terminal.

ACQUIRE TERMINAL



Conditions: INVREQ, LENGERR, NOTAUTH, TERMIDERR

Description

The ACQUIRE TERMINAL command enables you to tell CICS to acquire a session with a particular terminal.

The terminal you specify must be a VTAM terminal, and it cannot be an APPC, LU6.1, or IRC session. It must already be defined to CICS, either in an installed TERMINAL definition or by the autoinstall process, and it must be local to the system on which the ACQUIRE TERMINAL is issued, not remote.

This means that, if the terminal was autoinstalled, you must issue the ACQUIRE command before CICS deletes the terminal definition.

CICS normally deletes an autoinstalled terminal definition if the session ends and is not reestablished within the interval specified in the AIRDELAY value in the system initialization table. The terminal does not have to be reacquired within this interval, however; after you issue the command, CICS suspends its time-out and does not delete the definition while waiting for the session to be reestablished.

CICS processes an ACQUIRE command by sending a SIMLOGON request to VTAM (the queueing options on the command are for VTAM use and correspond to those on a SIMLOGON request). The task that issued the command is dispatchable as soon as this occurs. It is not notified of the eventual result of the VTAM request, nor when the terminal is actually acquired, and the terminal does not become associated with the task.

The request is sent straight to VTAM unless the terminal is already in session with the requesting CICS system. If it is, and NOQUEUE or QNOTENAB are present, CICS rejects the request as invalid (because a SIMLOGON would fail under these circumstances). Otherwise, CICS stores the request until the terminal's current session ends and then sends it to VTAM. For this reason, requests may be queued by VTAM in a different order from the order in which they were originally issued.

After it has been issued, an ACQUIRE TERMINAL request cannot be canceled, and you cannot ordinarily determine whether an ACQUIRE TERMINAL has been issued for a particular terminal.

Options

NOQUEUE
specifies that VTAM should not queue the request. Consequently, the ACQUIRE succeeds only if the terminal is immediately available.

QALL
specifies that VTAM should queue the request if the terminal is not enabled for sessions or is at its session limit (that is, in session with another VTAM application).

QNOTENAB
specifies that VTAM should queue the request only if the terminal is not enabled for sessions.

QSESSLIM
specifies that VTAM should queue the request only if the terminal is at its session limit (that is, in session with another VTAM application).

RELREQ
is meaningful only if the QALL or QSESSLIM option is set. The RELREQ option specifies that, if the requested terminal is already in session with another VTAM application, that application is notified of your request via its RELREQ exit routine. If RELREQ is not specified, the other application is not notified.

If the other application is a CICS system, the RELREQ value of the terminal definition in that system determines whether the request to release the terminal is honored. RELREQ is specified on the TYPETERM definition associated with the terminal.

TERMINAL(*data-value***)**
is the 4-character identifier of the terminal with which CICS is to acquire a session.

USERDATA(*data-value***)**
specifies the data area containing the logon user data, if any. VTAM simulates a logon when CICS asks to acquire a terminal. This data corresponds to user data that sometimes accompanies a real logon. VTAM passes it to the application (in this case, the requesting CICS system) when the terminal has been acquired successfully. See the description of the EXTRACT LOGON command in the *CICS Application Programming Reference* manual for programming information.

USERDATALEN(*data-value***)**
specifies the length, as a halfword binary value, of the user data. Because of a VTAM limitation, the maximum length of the user data is restricted to 255 bytes.

Conditions

INVREQ
RESP2 values:
2 The terminal is a remote terminal.
3 The terminal is LU6.1, APPC, IRC or a non-VTAM device.
4 The terminal is not in service; that is, it is not available for use.
5 VTAM is not open.
7 CICS is already in the process of acquiring this session.

8 NOQUEUE and QNOTENAB options are invalid for a logged-on device.

LENGERR

RESP2 values:

6 Out-of-range value supplied in the USERDATALEN option.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

TERMIDERR

RESP2 values:

1 The terminal cannot be found.

COLLECT STATISTICS

Retrieve the current statistics for a single resource, or global statistics for a class of resources.

For statistics relating to the resources URIMAP, PIPELINE, and WEBSERVICE, see "EXTRACT STATISTICS" on page 166.

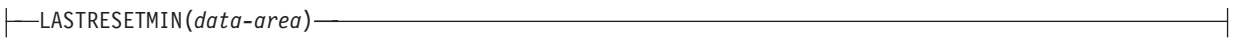
COLLECT STATISTICS

Conditions: INVREQ, IOERR, NOTAUTH, NOTFND

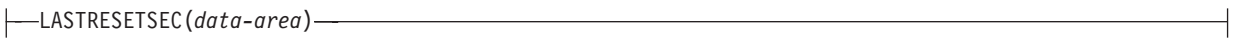
last time:

hours:

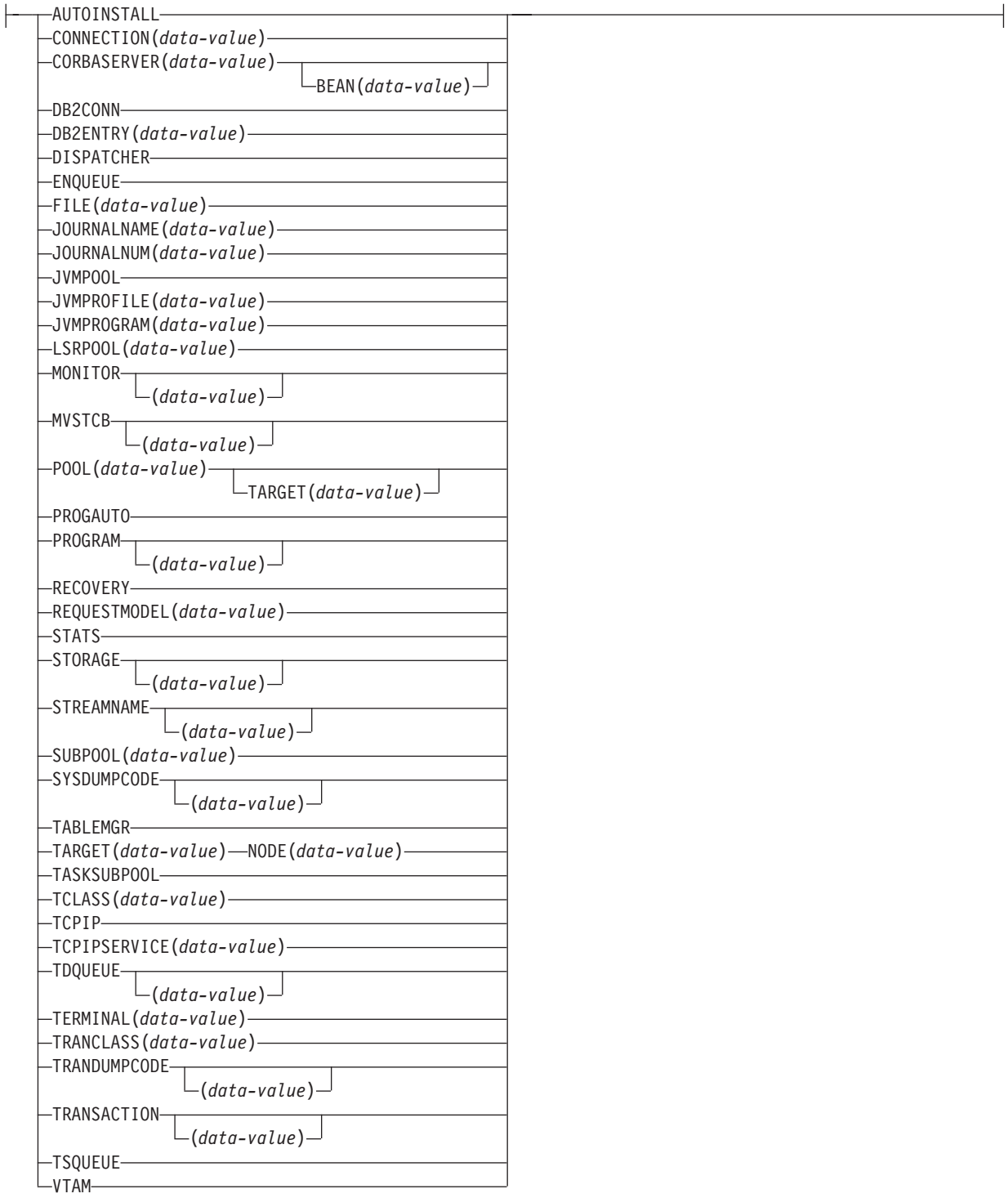
minutes:



seconds:



resource types:



Description

The COLLECT STATISTICS command returns to the invoking application the current statistics for a particular resource, or overall statistics for the resources of a given type. For example, you can get the statistics for global transaction activity in your CICS system (such as the total number of transactions attached), or you can specify a single transaction that you are interested in (such as CEMT).

The statistics that CICS gives you are those that have been accumulated after the expiry of the last statistics collection interval, end-of-day expiry, or requested reset. (Statistics already written to the SMF data set cannot be accessed.) The COLLECT STATISTICS command does not cause the statistics counters to be reset.

CICS obtains enough storage for the data returned from this command, and returns a pointer to this area. The first two bytes of the area contain its length. This storage can be reused by subsequent COLLECT STATISTICS commands, so you should store elsewhere any data that is required beyond the next issue of the command. CICS releases this storage at task termination.

Table 1 contains Product-sensitive Programming Interface information. See “Programming interface information” on page 734 for an explanation of Programming Interface information.

Not all resource types provide both global and specific statistics. Table 1 tells you which statistics are available for each resource type, and gives the copybook name for each set of available statistics. The copybooks define the format of the returned statistics. Where no copybook name is given in the global statistics column, global statistics are not available for the resource type; similarly, where there is no entry in the specific statistics column, you cannot get statistics for an individual resource.

Table 1. Resource types and statistics

Resource type	Statistic type	Global statistics	Specific statistics
AUTOINSTALL	Terminal autoinstall	DFHA04DS	-
BEAN	Enterprise beans	-	DFHEJBDS
CONNECTION	ISC/IRC system and mode entries	-	DFHA14DS
CORBASERVER	CorbaServer entries	-	DFHEJRDS
DB2CONN	DB2 Connection	DFHD2GDS	-
DB2ENTRY	DB2 Entry	-	DFHD2RDS
DISPATCHER	Dispatcher	DFHDSGDS	-
ENQUEUE	Enqueue	DFHNQGDS	-
FEPI CONNECTION	FEPI Connection	-	DFHA23DS
FEPI POOL	FEPI Pool	-	DFHA22DS
FEPI TARGET	FEPI Target	-	DFHA24DS
FILE	File control	-	DFHA17DS
JOURNALNAME	Journalname	-	DFHLGRDS
JOURNALNUM	Journalname	-	DFHLGRDS
JVMPOOL	JVM pool	DFHSJGDS	-
JVMPROFILE	JVM profiles	-	DFHSJRDS
JVMPROGRAM	JVM programs	-	DFHPGRDS

Table 1. Resource types and statistics (continued)

Resource type	Statistic type	Global statistics	Specific statistics
LSRPOOL	LSR pools	-	DFHA08DS
MONITOR	Monitor	DFHMNGDS	DFHMNTDS
MVSTCB	MVS TCB	DFHDSTDS	DFHDSRDS
PROGAUTO	Program autoinstall	DFHPGGDS	-
PROGRAM	Program	DFHLDGDS	DFHLDRDS
RECOVERY	Recovery manager	DFHRMGDS	-
REQUESTMODEL	Request models	-	DFHIIRDS
STATS	Statistics	DFHSTGDS	-
STORAGE	Storage manager (SM)	DFHSMSDS	DFHSMDDS
STREAMNAME	Log stream	DFHLGGDS	DFHLGSDS
SUBPOOL	SM domain subpool	-	DFHSMDDS
SYSDUMPCODE	Dump (system)	DFHSDGDS	DFHSDRDS
TABLEMGR	Table manager	DFHA16DS	-
TASKSUBPOOL	SM task subpool	DFHSMTDS	-
TCLASS	Transaction class	-	DFHXMCDS
TCPIP	Sockets domain	DFHSOGDS	-
TCPIPSERVICE	TCP/IP service	-	DFHSORDS
TDQUEUE	Transient data	DFHTQGDS	DFHTQRDS
TERMINAL	Terminals	-	DFHA06DS
TRANCLASS	Transaction class	-	DFHXMCDS
TRANDUMPCODE	Dump (transaction)	DFHTDGDS	DFHTDRDS
TRANSACTION	Transaction manager	DFHXMGDS	DFHXMRDS
TSQUEUE	Temporary storage	DFHTSGDS	
VTAM	VTAM	DFHA03DS	-

Copybooks are provided in ASSEMBLER, COBOL, and PL/I. (There is no copybook for C.) The names of the copybooks are the same in each language. You can find them in the following libraries:

ASSEMBLER	CICSTS31.CICS.SDFHMAC
COBOL	CICSTS31.CICS.SDFHCOB
PL/I	CICSTS31.CICS.SDFHPL1

Note: Some of the copybooks contain packed fields. Before these fields are used, they should be checked for hexadecimal zeros. The COBOL versions of the fields have been redefined as numeric with a suffix of -R for this purpose.

For further information about these copybooks, see the *CICS Performance Guide*.

Options

AUTOINSTALL
requests global statistics on autoinstall.

BEAN(*data-value***)**
requests statistics for an enterprise bean; data-value is the 1–240 character name of the bean.

Because a bean of the same name may exist in multiple CorbaServers, if you specify this option you must also specify CORBASERVER.

CONNECTION(*data-value***)**
requests statistics for a connection to a remote system or region; data-value is the 4-character identifier (from its CONNECTION definition) of the system or region.

CORBASERVER(*data-value***)**
requests statistics for a CorbaServer; data-value is the 4-character name of the CorbaServer.

DB2CONN
requests statistics for the CICS DB2 connection including information for pool threads and command threads.

DB2ENTRY(*data-value***)**
requests statistics for a DB2ENTRY; data-value is the 8-character identifier of the DB2ENTRY (from its DB2ENTRY definition).

DISPATCHER
requests global statistics on the dispatcher domain.

ENQUEUE
requests global statistics for enqueue requests.

FILE(*data-value***)**
requests statistics for a file; data-value is the 8-character identifier of the file (from its FILE definition).

JOURNALNAME(*data-value***)**
requests statistics for a CICS journal; data-value is an 8-character journal name. CICS returns the address of the area of storage that contains the requested statistics.

To collect statistics for journals defined using the journal numbering convention (for example, for the auto journals defined in file resource definitions), specify the name as DFH*nn*, where nn is the journal number in the range 01 to 99.

Note: Specifying DFHJ01 returns statistics written to a user journal of that name, *not* the system log.

JOURNALNUM(*data-value***)**
requests statistics for a journal; data-value is the number of the journal, in half-word binary format. Journal numbers range from 1 to 99. CICS returns the address of the area of storage that contains the requested statistics.

Specifying JOURNALNUM(1) returns statistics for journal DFHJ01. Note that this is *not* the system log.

Specifying identifiers in the range 1—99 returns statistics for journals DFHJ01—DFHJ99.

Note: JOURNALNUM continues to be supported for compatibility with releases of CICS earlier than CICS Transaction Server for z/OS. However, the statistics returned are CICS log manager statistics, *not* journal control

statistics. You can map the data at the address returned only by using the DFHLGRDS DSECT which replaces the DFHA13DS DSECT supported at earlier releases.

When you make changes to application programs that use JOURNALNUM, you are recommended to use the JOURNALNAME option.

JVMPOOL
requests statistics for the JVM pool, if one exists. (There is no identifier on JVMPOOL: a CICS region can have only one JVM pool.) CICS returns the address of the area of storage that contains the requested statistics.

JVMPROFILE(*data-value***)**
requests statistics for a JVM profile. The data-value is the 8–character name of the JVM profile.

When you use the name of a JVM profile anywhere in CICS, you must enter it using the same combination of upper and lower case characters that is present in the HFS file name.

JVMPROGRAM(*data-value***)**
requests statistics for a Java program that runs in a JVM. The data-value is the name of the program's PROGRAM resource definition.

LASTRESET(*data-area***)**
returns a 4-byte packed decimal field giving the time at which the counters for the requested statistics were last reset. This is usually the time of the expiry of the last interval. The last reset time is always returned in local time.

There are two formats for the reset time:

- A composite (packed decimal format 0hhmmss+), which you obtain by using the LASTRESET option.
- Separate hours, minutes, and seconds, which you obtain by specifying the LASTRESETHRS, LASTRESETMIN, and LASTRESETSEC options respectively.

LASTRESETHRS(*data-area***)**
returns a fullword binary field giving the hours component of the time at which the counters for the requested statistics were last reset (see the LASTRESET option).

LASTRESETMIN(*data-area***)**
returns a fullword binary field giving the minutes component of the time at which the counters for the requested statistics were last reset (see the LASTRESET option).

LASTRESETSEC(*data-area***)**
returns a fullword binary field giving the seconds component of the time at which the counters for the requested statistics were last reset (see the LASTRESET option).

LSRPOOL(*data-value***)**
requests statistics on a VSAM LSR pool; data-value is the pool number, in the range 1–8, in fullword binary form.

MONITOR(*data-value***)**
requests performance class statistics for a task when a data-value is supplied. The data-value is the task number, in 4-byte packed decimal format. (For programming information, see EIBTASKN in Appendix A of the *CICS Application Programming Reference* manual.) Without a data-value, MONITOR requests global performance class statistics.

The monitoring performance class must be active for any statistics to be returned. If performance class is not active, the NOTFND condition is returned. For background information on monitoring, see the *CICS Performance Guide*.

MVSTCB(*data-value***)**
requests statistics for an MVS TCB when a data-value is supplied. The data-value is the address of an MVS TCB. Without a data-value, MVSTCB requests global statistics for MVS TCBs in the CICS address space.

POOL(*data-value***)**
requests statistics for a FEPI pool; data-value is the 8-character name of the pool.

POOL(*data-value***) TARGET(***data-value***)**
requests statistics for a FEPI target within a FEPI pool. The POOL data-value identifies the pool, and the TARGET data-value identifies the system within the pool for which statistics are requested.

PROGAUTO
requests global statistics on the autoinstalled program definitions.

PROGRAM(*data-value***)**
requests statistics for a program when a data-value is supplied. The data-value is the 8-character name of the program PROGRAM definition. Without a data-value, PROGRAM requests the global program statistics. CICS does not collect statistics for programs that run in a JVM when a COLLECT STATISTICS PROGRAM command is issued; you need to use the COLLECT STATISTICS JVMPROGRAM command to obtain these statistics.

RECOVERY
requests global statistics on the recovery manager.

REQUESTMODEL(*data-value***)**
requests statistics for a request model; data-value is the 8-character name of the request model resource definition.

SET(*ptr-ref***)**
specifies a pointer reference to be set to the address of the data area containing the returned statistics. The first 2 bytes of the data area contain the length of the data area in halfword binary form.

STATS
requests global statistics on the statistics domain.

STORAGE(*data-value***)**
requests statistics for a storage domain subpool when a data-value is present. The data-value is the 8-character name of a storage domain subpool. A complete list of the possible subpool names is documented in the *CICS Performance Guide*. Without a data-value, this option requests the global statistics for the CICS dynamic storage areas.

STREAMNAME(*data-value***)**
requests statistics for a logstream when a data-value is supplied. The data-value is the 26-character name of the logstream. Without a data-value, STREAMNAME requests the global statistics for the CICS log manager.

SUBPOOL*data-value***)**
requests statistics for a storage manager domain subpool. The data-value is the 8-character name of a domain subpool. For tables of the CICS storage manager domain subpools, see the *CICS Performance Guide*

SYSDUMPCODE(*data-value***)**
requests statistics for a system dump code when a data-value is supplied. The data-value is the 8-character dump code. Without a data-value, SYSDUMPCODE requests global statistics on system dumps.

TABLEMGR
requests global statistics on the table manager.

TARGET (*data-value***) NODE(***data-value***)**
requests statistics for a FEPI connection. The NODE data-value is the 8-character name of the terminal which FEPI simulates, and the TARGET data-value is the 8-character name of the system to which FEPI appears as a secondary logical unit.

TASKSUBPOOL
requests global statistics for the storage manager task subpools.

TCLASS(*data-value***)**
requests statistics for a transaction class; data-value is the class number, in the range 1-10, in fullword binary form. Transaction classes are no longer identified by number, but instead by an 8-character identifier.

When you use the TCLASS option to request statistics for a class (as opposed to TRANCLASS), a conversion from fullword binary number to 8-character value is made on your behalf (for example, TCLASS(01) becomes the equivalent of TRANCLASS('DFHTCL01')).

TCPIP
requests global statistics for IP sockets.

TCPIPSERVICE(*data-value***)**
requests the statistics for a TCP/IP service; data-value is the 8-character name of the TCP/IP service.

TDQUEUE(*data-value***)**
requests statistics for a transient data queue when data-value is supplied. The data-value is the 4-character name of the queue. Without a data-value, TDQUEUE requests the global statistics for transient data.

TERMINAL(*data-value***)**
requests statistics for a terminal; data-value is the 4-character terminal identifier (from the TERMINAL definition).

TRANCLASS(*data-value***)**
requests statistics for a transaction class; data-value is the 8-character name of the class from the TRANCLASS definition.

TRANDUMPCODE(*data-value***)**
requests statistics for a transaction dump code when a data-value is supplied. The data-value is the 4-character dump code. Without a data-value, TRANDUMPCODE requests global statistics on transaction dumps.

TRANSACTION(*data-value***)**
requests statistics for a transaction when a data-value is supplied. The data-value is the 4-character transaction identifier (from the TRANSACTION definition). Without a data-value, TRANSACTION requests global statistics on transactions.

TSQUEUE
requests global statistics on temporary storage.

VTAM
requests global statistics on VTAM.

Conditions

INVREQ
RESP2 values:
4 The TCLASS value was not in the range 1-10, or the LSRPOOL value was not in the range 1-8.

IOERR
RESP2 values:
3 The requested statistics area was not functioning. This happens if, for instance, statistics control blocks are overwritten.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

NOTFND
RESP2 values:
1 The requested resource cannot be found (for example, if the JOURNALNAME you specify is not known to CICS).
2 The type of resource is not defined in the CICS system (for example, FEPI statistics are requested with POOL or NODE when the FEPI system initialization parameter specifies NO).

Note: NOTFND is also returned if you attempt to use COLLECT STATISTICS PROGRAM when you should use COLLECT STATISTICS JVMPROGRAM. See “Collecting statistics for Java programs that run in a JVM” for additional information.

Examples

CICS provides a sample COLLECT STATISTICS application (DFH0STAT) that makes use of virtually all the options described in this section. This set of programs illustrates ways of using the COLLECT STATISTICS and INQUIRE commands of CICS Transaction Server for z/OS to produce information about a CICS system. The reports include a CICS and MVS storage analysis that can be used as an aid to specifying the DSA LIMIT parameters.

See the *CICS Performance Guide* for information on installing and operating the DFH0STAT application. The source code for the application can be found in CICSTS31.CICS.SDFHSAMP.

Restrictions

Collecting statistics for Java programs that run in a JVM

Statistics for Java programs that run in a JVM are collected separately from statistics for other programs, because the JVM programs are not loaded by CICS. CICS does not collect statistics for JVM programs when a COLLECT or PERFORM STATISTICS PROGRAM command is issued; to see them, you need to use the COLLECT or PERFORM STATISTICS JVMPROGRAM command instead.

However, when you browse program names using the INQUIRE PROGRAM command, JVM programs are found. If you have an application that collects statistics for programs by browsing with the INQUIRE PROGRAM command, and then issuing the COLLECT STATISTICS PROGRAM command for the program

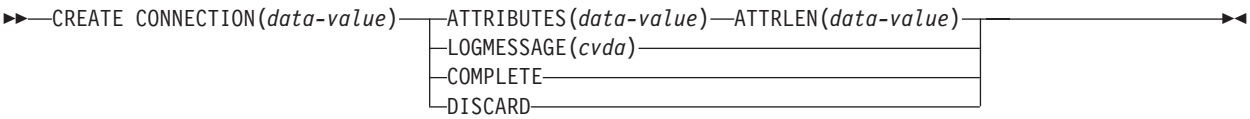
names that it finds, the application will now receive a "not found" response when it
attempts to collect statistics for any JVM programs. (Previously, zeros would have
been returned as statistics values for these programs.)

To avoid receiving this response, make the application check the RUNTIME value
for each program name that it finds. If the RUNTIME value is JVM, the application
should not issue the COLLECT STATISTICS PROGRAM command for that program
name. If you want to see the statistics for programs with a RUNTIME value of JVM,
you can make the application issue the COLLECT STATISTICS JVMPROGRAM
command for those programs. Note that the statistics information that is collected
for JVM programs is not the same as that collected for other programs.

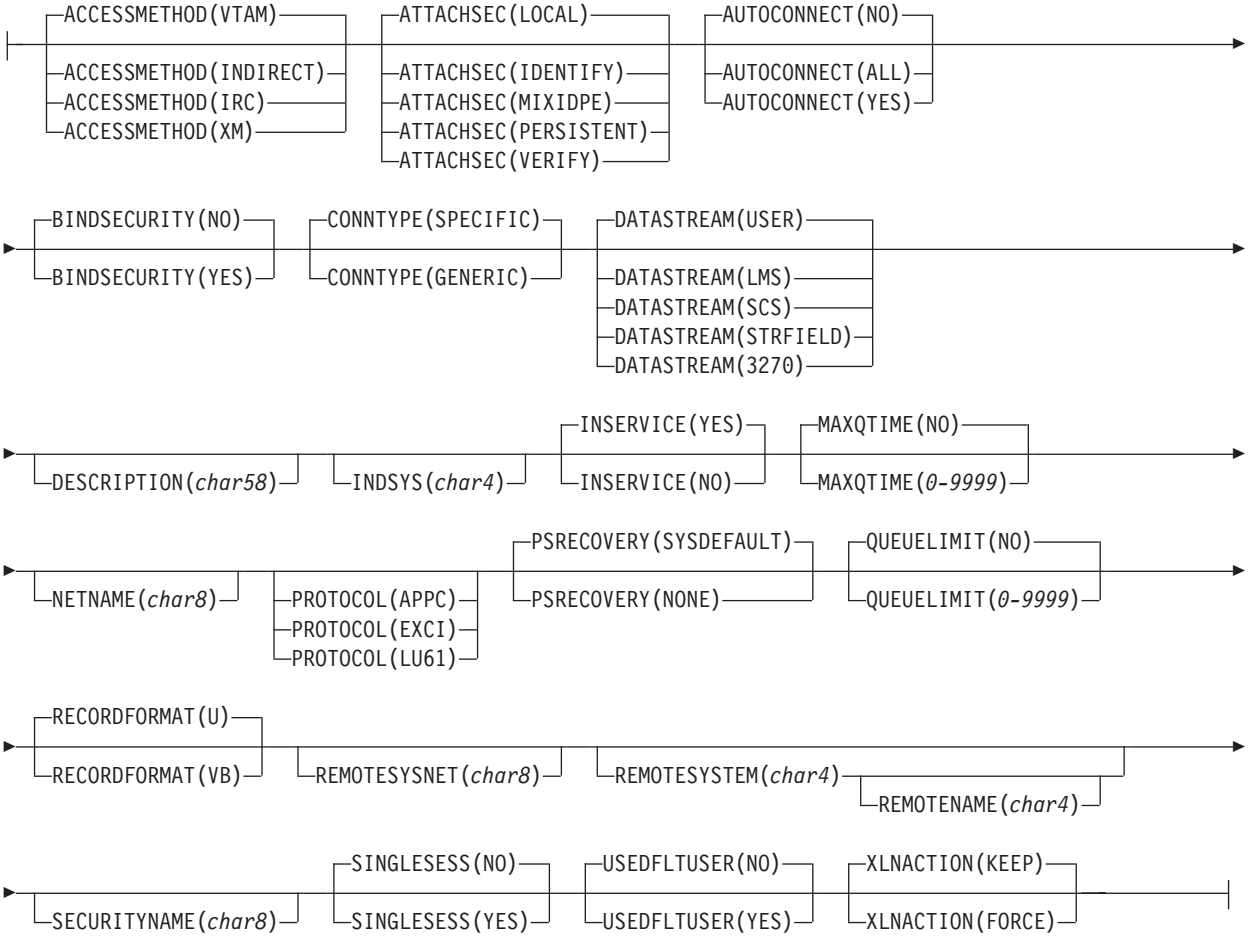
CREATE CONNECTION

Define a CONNECTION in the local CICS region.

CREATE CONNECTION



CREATE CONNECTION attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE CONNECTION commands, in combination with the CREATE SESSIONS commands, install CONNECTION and SESSIONS definitions with the attribute specified on the command to the local CICS region. They do not use resource definitions stored in the CSD. See “Creating resource definitions” on page 24 for other general rules about CREATE commands

To create a new CONNECTION, you issue a series of commands in this order:

1. CREATE CONNECTION with the ATTRIBUTES and ATTRLEN options
2. CREATE SESSIONS
3. Additional CREATE SESSIONS if desired (only one group of sessions is required, but you can define additional groups)
4. CREATE CONNECTION with the COMPLETE option.

The CONNECTION is not added until all of these steps take place. During the time the definition is being built (that is, between the initial and final CREATE CONNECTIONs), you may not:

- Define other resources of any type, including other connections
- Issue a SYNCPOINT (or any command that implies one)
- Terminate your task (normally)

However, if you encounter an error or problem during the course of building a CONNECTION definition, you can terminate the process at any point by issuing a CREATE CONNECTION DISCARD command. If you do this, CICS discards the partial CONNECTION definition and any SESSIONS created for it.

Otherwise, when the final CREATE CONNECTION COMPLETE command is issued, CICS adds the CONNECTION and its SESSIONS to its resource definitions, replacing a CONNECTION definition of the same name if one exists.

CICS also performs an implicit SYNCPOINT command during the processing of the final CREATE for a connection, unless it contains an error that can be detected early in the processing. The syncpoint commits uncommitted changes to recoverable resources made up to that point in the task if the definition is successful, and rolls back changes, as if SYNCPOINT ROLLBACK had been issued, if the definition fails or ends in a DISCARD. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the CONNECTION being added. The list of attributes must be coded as a single character string using the syntax shown in **CONNECTION attributes**. See “ATTRIBUTES option” on page 26 for general

rules for specifying attributes, and the CONNECTION chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a CONNECTION definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

COMPLETE
specifies that the set of definitions for this CONNECTION is complete and should be added to the CICS system.

CONNECTION(*data-value***)**
specifies the 4-character name of the CONNECTION definition to be added.

DISCARD
specifies that the CONNECTION definition under construction is not to be completed and that it and any SESSIONS created for it are to be discarded and *not* added.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:
1 The length specified in ATTRLEN is negative.

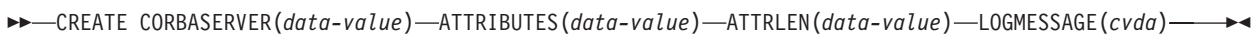
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

102 The user associated with the task issuing the CREATE CONNECTION command is not an authorized surrogate of the user specified in SECURITYNAME.

CREATE CORBASERVER

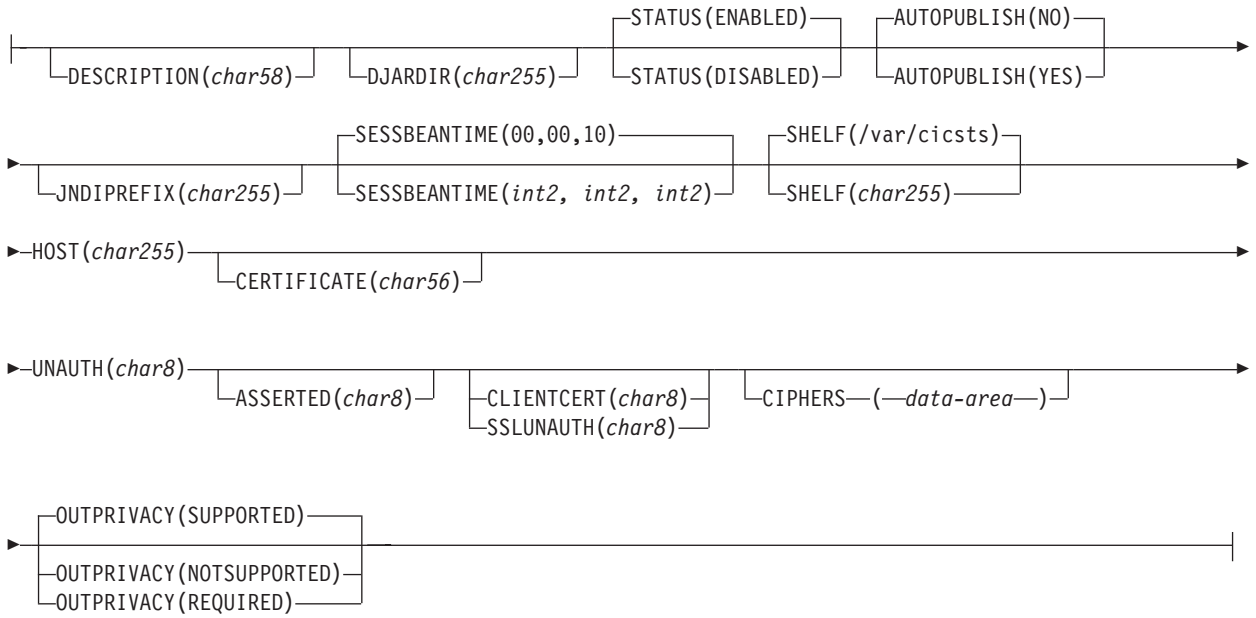
Define a CorbaServer in the local CICS region.

CREATE CORBASERVER



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

CREATE CORBASERVER attributes:



Description

CREATE CORBASERVER commands build CORBASERVER definitions, without reference to data stored on the CSD file. If the named CorbaServer already exists, an error condition (INVREQ, RESP2=612) is raised.

A syncpoint is implicit in CREATE CORBASERVER processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the CORBASERVER being added. The list of attributes must be coded as a single character string using the syntax shown in **CORBASERVER attributes**. See “ATTRIBUTES option” on page 26 for general

rules for specifying attributes, and the CORBASERVER chapter in the*CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a CORBASERVER definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

CORBASERVER(*data-value***)**
specifies the 4-character name of the CorbaServer definition to be added.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. The RESP2 value is associated with a message written to the transient data queue CSMT which identifies more precisely the nature of the error. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.
612 Installation of the CorbaServer definition failed because it already exists.
613 Installation of the CorbaServer definition failed because an invalid JNDIprefix, shelf or certificate value has been specified.
615 Installation of the CorbaServer definition failed because the resource resolution transaction CEJR could not attach.
616 Installation of the CorbaServer defintion failed because the specified certificate is not known to the external security manager (ESM).
619 Installation of the CorbaServer defintion failed because one of its associated TCPIPSERVICES was not installed.

LENGERR
RESP2 values:
1 The length specified in ATTRLEN is negative.

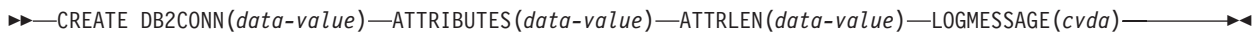
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

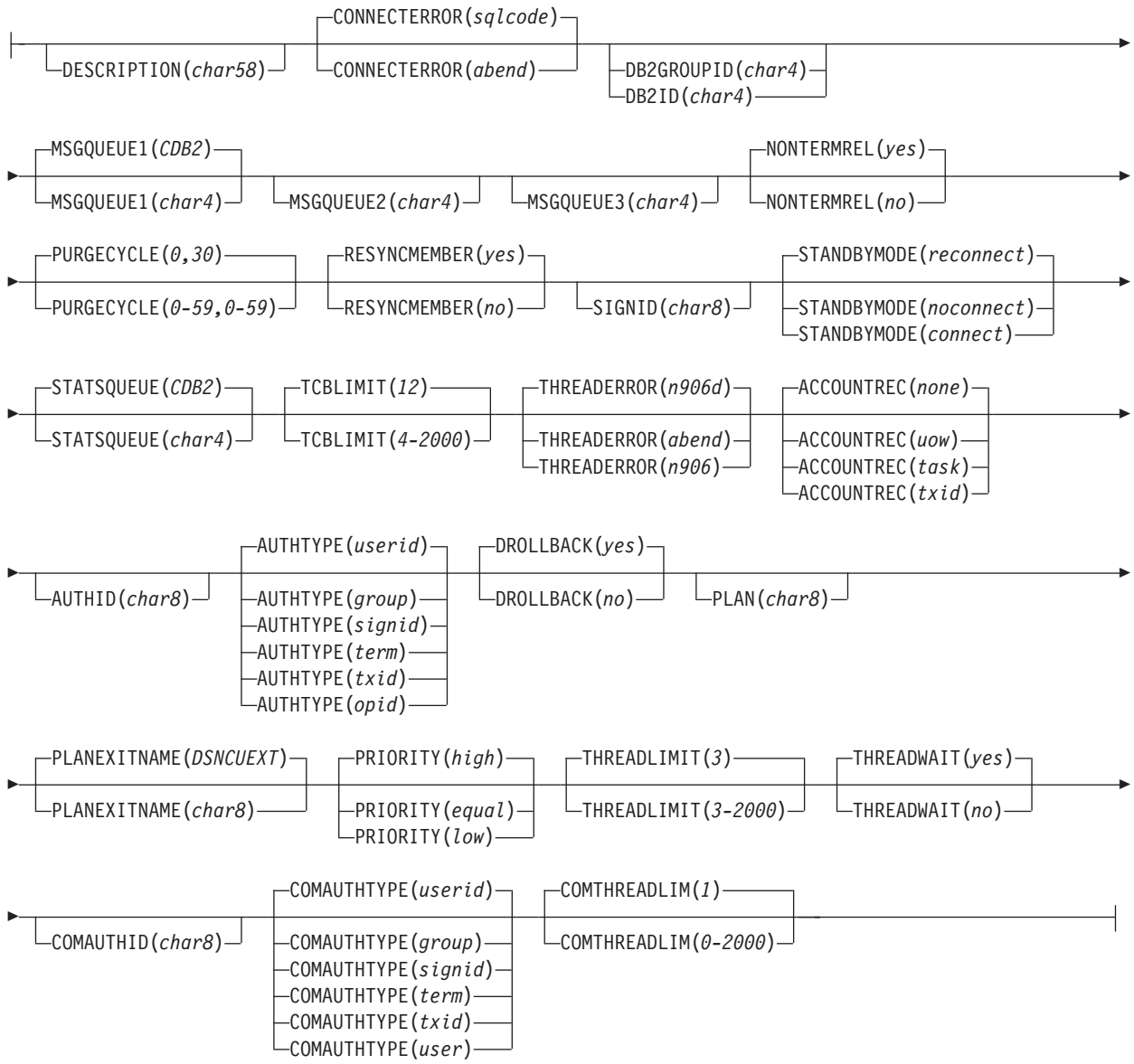
CREATE DB2CONN

Define a DB2CONN in the local system.

CREATE DB2CONN



CREATE DB2CONN attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE DB2CONN command installs a DB2CONN definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a DB2CONN in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE DB2CONN processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the DB2CONN being added. The list of attributes must be coded as a single character string using the syntax shown in **DB2CONN attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the DB2CONN chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a DB2CONN definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

DB2CONN(*data-value***)**
specifies the 8-character name of the DB2CONN definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ

RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

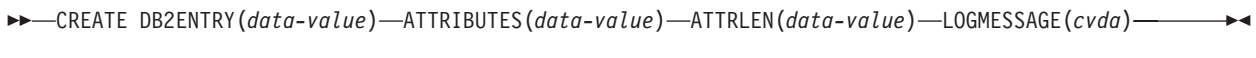
102 The user associated with the issuing task is not an authorized surrogate of the user specified in the AUTHID, COMAUTHID, or SIGNID parameter.

103 The user associated with the issuing task is not authorized to create a DB2CONN with an AUTHTYPE or COMAUTHTYPE parameter.

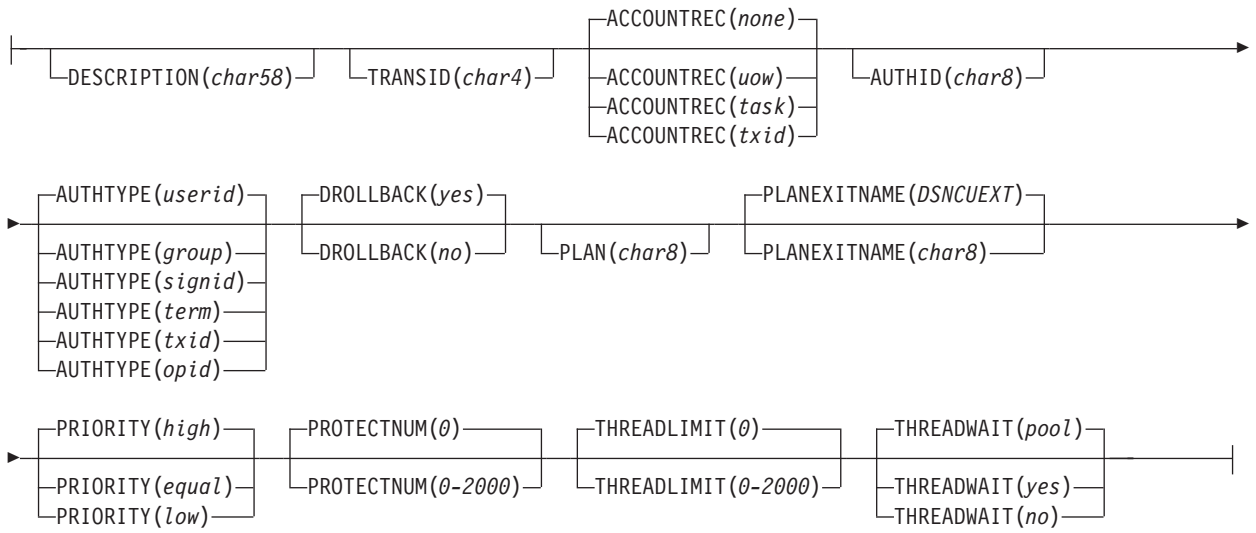
CREATE DB2ENTRY

Define a DB2ENTRY in the local system.

CREATE DB2ENTRY



CREATE DB2ENTRY attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE DB2ENTRY command installs a DB2ENTRY definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a DB2ENTRY with the name you specify in the local CICS region, the command fails unless the existing DB2ENTRY is disabled, in which case the new definition replaces the old one. If no DB2ENTRY with the name specified exists, the new definition is added.

A syncpoint is implicit in CREATE DB2ENTRY processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the DB2ENTRY being added. The list of attributes must be coded as a single character string using the syntax shown in **DB2ENTRY attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the DB2ENTRY chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a DB2ENTRY definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

DB2ENTRY(*data-value***)**
specifies the 8-character name of the DB2ENTRY definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to create a DB2ENTRY definition with this name.

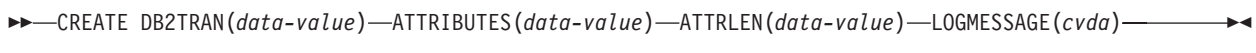
102 The user associated with the issuing task is not an authorized user specified in the AUTHID parameter.

103 The user associated with the issuing task is not authorized to create this DB2ENTRY with an AUTHTYPE parameter.

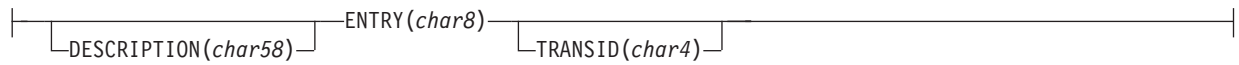
CREATE DB2TRAN

Define a DB2TRAN in the local system.

CREATE DB2TRAN



CREATE DB2TRAN attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE DB2TRAN command installs a DB2TRAN definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a DB2TRAN with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added. If there is already a DB2TRAN in the local CICS region that specifies the same TRANSID, the command fails, as each transaction can only have one DB2TRAN definition.

A syncpoint is implicit in CREATE DB2TRAN processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the DB2TRAN being added. The list of attributes must be coded as a single character string using the syntax shown in **DB2TRAN attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the DB2TRAN chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a DB2TRAN definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

DB2TRAN(*data-value***)**
specifies the 8-character name of the DB2TRAN definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

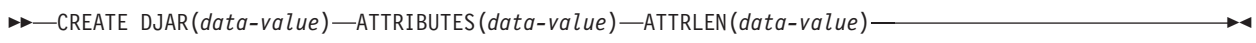
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to create a DB2TRAN definition and associate it with the names DB2ENTRY.
102 The user associated with the issuing task is not an authorized surrogate of the user specified in the AUTHID parameter of the DB2ENTRY named in the DB2TRAN.
103 The user associated with the issuing task is not authorized to associate this DB2TRAN with the names DB2ENTRY specifying AUTHTYPE.

CREATE DJAR

Define a deployed JAR file in the local CICS region.

CREATE DJAR



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

CREATE DJAR attributes:

Description

The CREATE DJAR command installs a DJAR definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If the named DJAR already exists, it is replaced by the new definition and any beans installed in the DJAR are discarded. Any new beans in the new DJAR are installed.

A syncpoint is implicit in CREATE DJAR processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the CorbaServer being added. The list of attributes must be coded as a single character string using the syntax shown in **DJAR attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a DJAR definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

DJAR(*data-value***)**
specifies the 8-character name of the DJAR definition to be added.

Note: The names of *static* DJAR definitions (those installed from a CSD or by means of CREATE DJAR) are limited to 8 characters. The names of *dynamic* DJAR definitions (those installed by the CICS scanning mechanism) can be up to 32 characters long.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. The RESP2 value is assoicated with a message written to the transient data queue CSMT which identifies more precisely the nature of the error. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.
612 Installation of the DJAR definition failed because it already exists.
613 Installation of the DJAR definition failed because HFSfile, state, CorbaServer, or DJAR invalid.
614 Installation of the DJAR definition failed because specified CORBASERVER does not exist.
615 Installation of the DJAR definition failed because the resource resolution transaction CEJR could not attach.
617 Installation of the DJAR definition failed because specified CORBASERVER is not in a valid state.
618 Installation of a DJAR definition failed because its HFSFILE is a duplicate of one that already exists.

LENGERR
RESP2 values:
1 The length specified in ATTRLEN is negative.

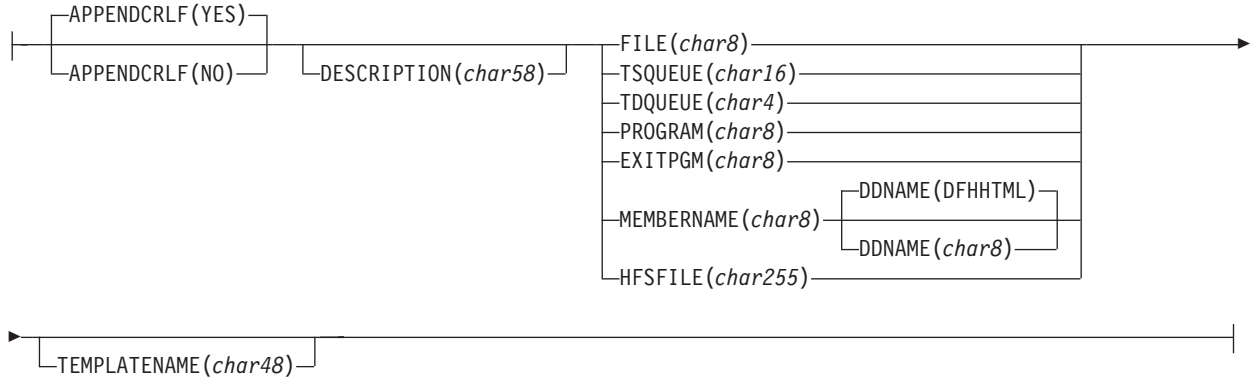
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

CREATE DOCTEMPLATE

Define a document template.

CREATE DOCTEMPLATE

CREATE DOCTEMPLATE attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE DOCTEMPLATE command installs a DOCTEMPLATE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a document template with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE DOCTEMPLATE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the DOCTEMPLATE being added. The list of

attributes must be coded as a single character string using the syntax shown in **DOCTEMPLATE attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the DOCTEMPLATE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

DOCTEMPLATE(*data-value***)**
specifies the 8-character name of the DOCTEMPLATE definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET for a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:

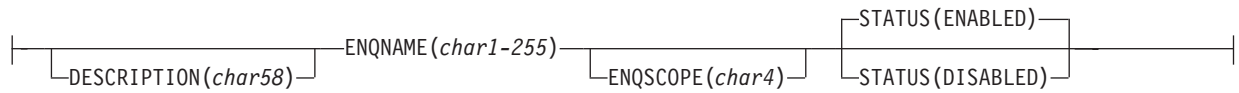
100 The user associated with the issuing task is not authorized to use this command.

CREATE ENQMODEL

Define an ENQMODEL resource definition.

CREATE ENQMODEL

CREATE ENQMODEL attribute values:



Conditions: INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE ENQMODEL command installs a ENQMODEL definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already an ENQMODEL with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

When CREATE is issued, the ENQMODEL is put into the WAITING state until there are no enqueues in the local system which match the ENQNAME pattern. It is then ENABLED or DISABLED, as specified in the CREATE command.

ENQMODELs forming nested generic enqnames must either be installed in the disabled state, or be installed in order, from the most to the least specific. If another ENQMODEL with the same or a less specific nested enqname is already installed enabled, INVREQ is returned to the caller.

For example: If an ENQMODEL containing AB* is installed, it must be discarded or disabled before creating an ENQMODEL with ABCD*.

A syncpoint is implicit in CREATE ENQMODEL processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the ENQMODEL being added. The list of attributes must be coded as a single character string using the syntax shown in **ENQMODEL attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the ENQMODEL chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

ENQMODEL(*data-value***)**
specifies the 8-character name of the ENQMODEL definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG the resources attributes are not logged to the CSDL transient data queue.

Conditions

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:

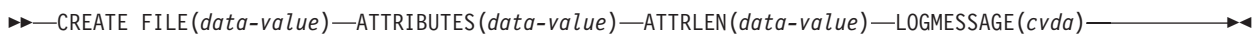
100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to create an ENQMODEL definition with this name.

CREATE FILE

Define a FILE in the local CICS region.

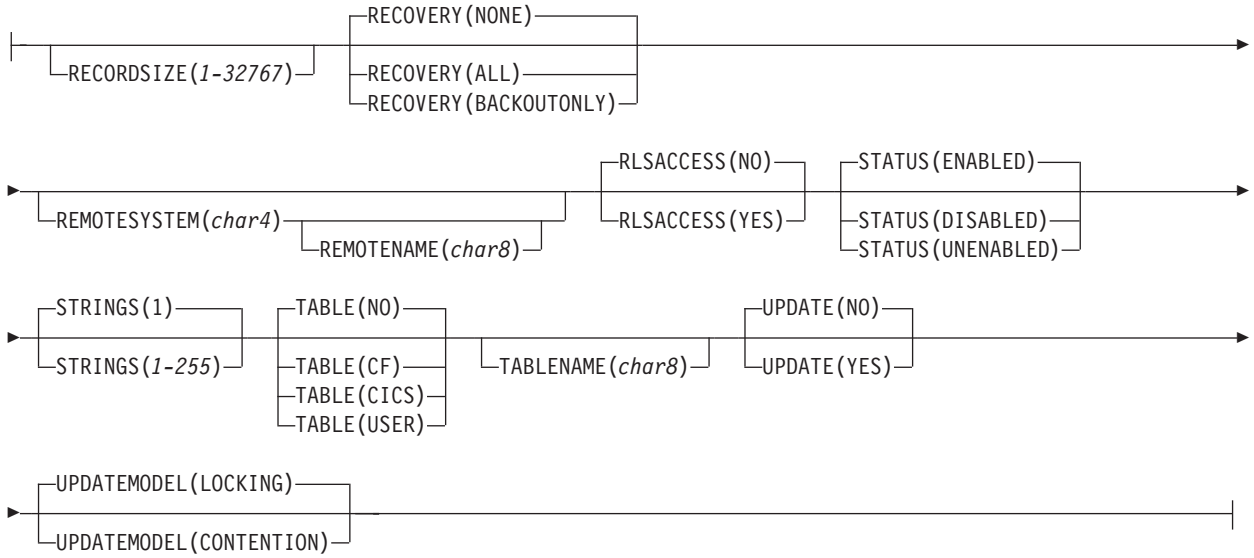
CREATE FILE



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

CREATE FILE attribute values (part 1):

CREATE FILE attributes (part 2):



Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE FILE command installs a FILE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a file with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE FILE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the FILE being added. The list of attributes must be coded as a single character string using the syntax shown in **FILE attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the FILE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a FILE definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

FILE(*data-value***)**
specifies the 8-character name of the FILE definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

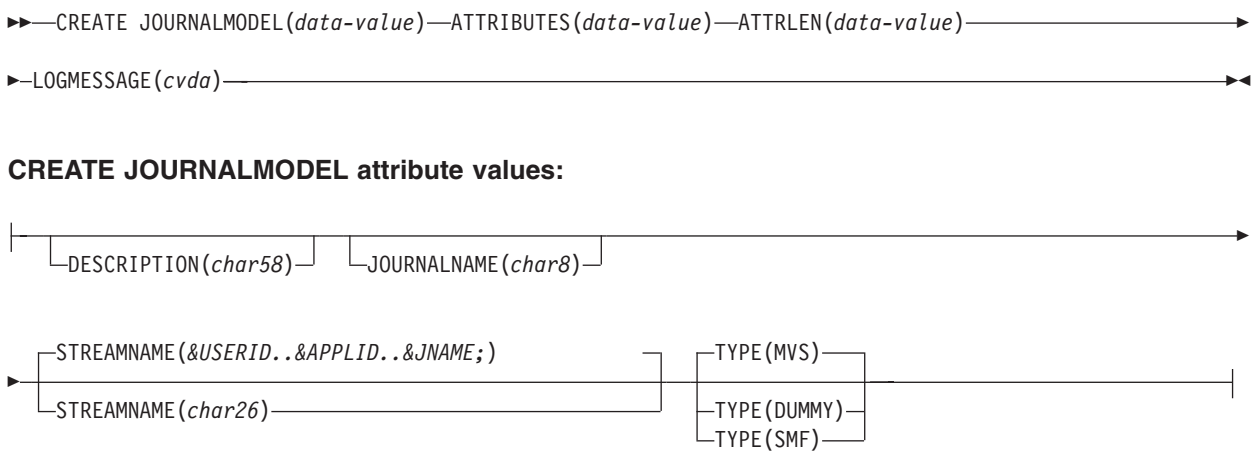
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to create a FILE definition with this name.

CREATE JOURNALMODEL

Define a journal model in the local CICS region.

CREATE JOURNALMODEL



CREATE JOURNALMODEL attribute values:

Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE JOURNALMODEL command installs a JOURNALMODEL definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a journal model with the name you specify in the local CICS region, the new definition replaces the old one; it not, the new definition is added.

A syncpoint is implicit in CREATE JOURNALMODEL processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the JOURNALMODEL being added. The list of attributes must be coded as a single character string using the syntax shown in **JOURNALMODEL attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the JOURNALMODEL chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a JOURNALMODEL definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

JOURNALMODEL(*data-value***)**
specifies the 8-character name of the JOURNALMODEL definition to be added to the CICS region.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

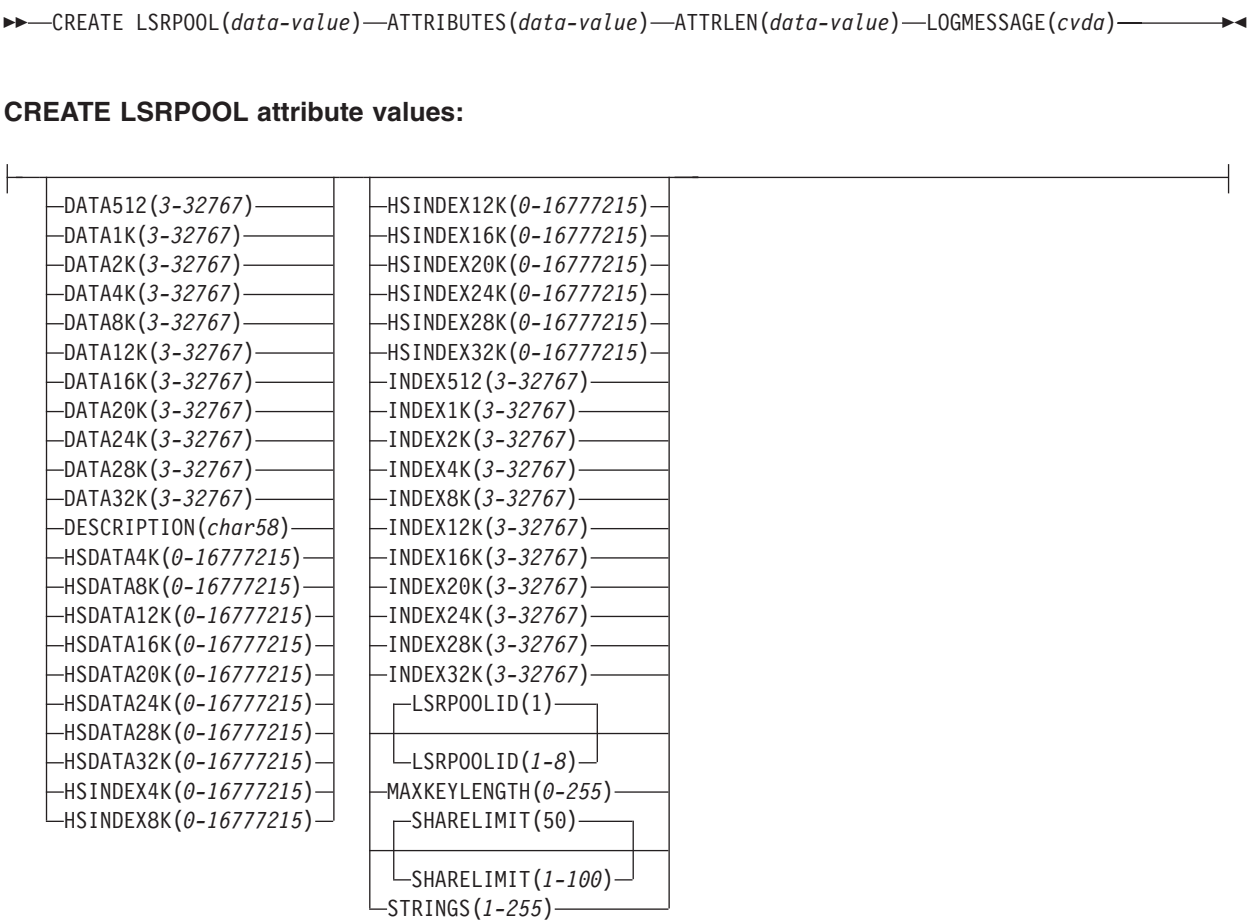
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

CREATE LSRPOOL

Define an LSR pool in the local CICS region.

CREATE LSRPOOL



CREATE LSRPOOL attribute values:

Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE LSRPOOL command installs a LSRPOOL definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. LSR pools must have unique LSRPOOLID values within a CICS region. If the local region already contains a definition with the same LSRPOOLID value, the new definition replaces the old one; if not, the new definition is added. (Unlike most

resource definitions, the name you specify in the LSRPOOL option does not determine replacement; instead the LSRPOOLID value governs.)

Note: When you replace the definition of a pool that is currently open, the new definition does not take effect until the next time the pool is built. The pool is not rebuilt until all of the files using it are closed and one is reopened subsequently.

A syncpoint is implicit in CREATE LSRPOOL processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the LSRPOOL being added. The list of attributes must be coded as a single character string using the syntax shown in **LSRPOOL attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the LSRPOOL chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a LSRPOOL definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

LSRPOOL(*data-value***)**
specifies the 8-character name of the LSRPOOL definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

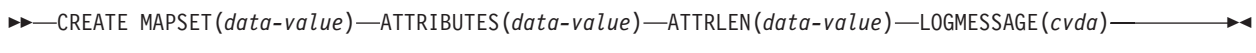
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

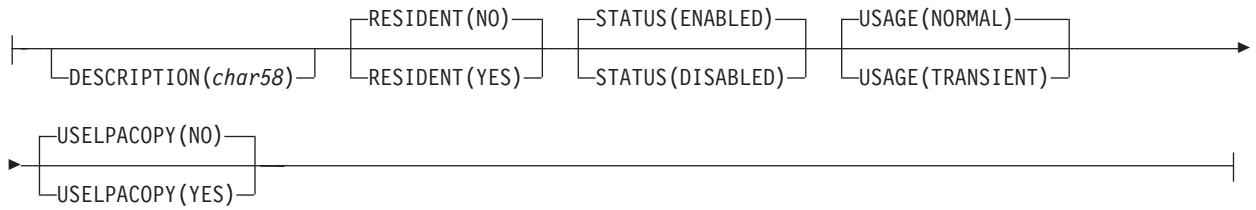
CREATE MAPSET

Define a map set in the local CICS region.

CREATE MAPSET



CREATE MAPSET attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE MAPSET command installs a MAPSET definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. Map set names must be unique among map set, program, and partition set names within a CICS region. If the local region already has one of these resources with the name you specify, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE MAPSET processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the MAPSET being added. The list of attributes must be coded as a single character string using the syntax shown in **MAPSET attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the MAPSET chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a MAPSET definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

MAPSET(*data-value***)**
specifies the 8-character name of the MAPSET definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

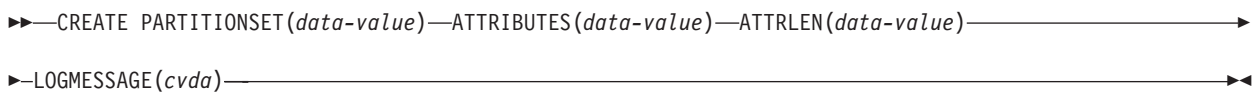
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to create a MAPSET definition with this name.

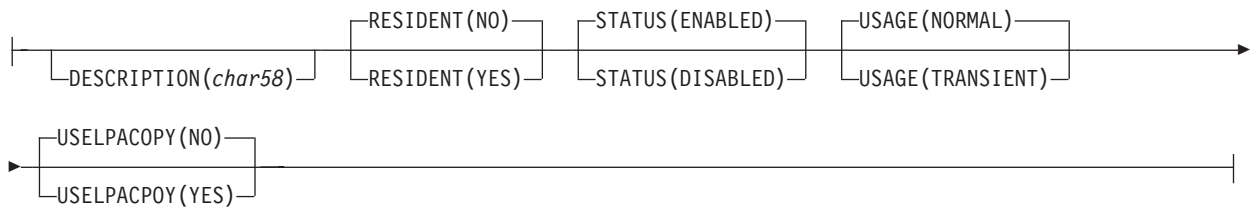
CREATE PARTITIONSET

Define a partition set in the local CICS region.

CREATE PARTITIONSET



CREATE PARTITIONSET attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE PARTITIONSET command installs a PARTITIONSET definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. Partition set names must be unique among partition set, map set, and program names within a CICS region. If the local region already has one of these resources with the name you specify, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE PARTITIONSET processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the PARTITIONSET being added. The list of attributes must be coded as a single character string using the syntax shown in **PARTITIONSET attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the PARTITIONSET chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a PARTITIONSET definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

PARTITIONSET(*data-value***)**
specifies the 8-character name of the PARTITIONSET definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

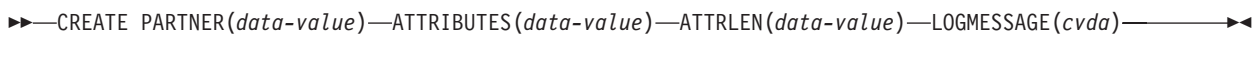
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to create a PARTITIONSET definition with this name.

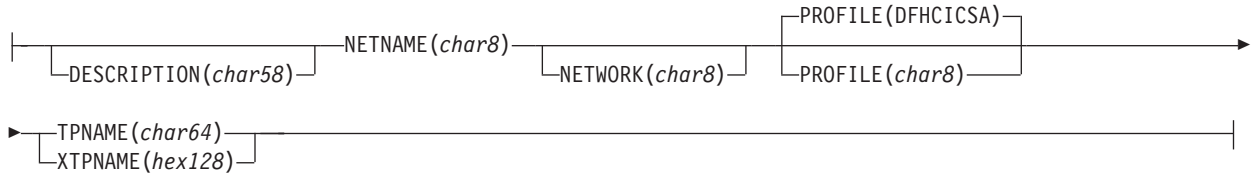
CREATE PARTNER

Define a PARTNER in the local CICS region.

CREATE PARTNER



CREATE PARTNER attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE PARTNER command installs a PARTNER definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a partner with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE PARTNER processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the PARTNER being added. The list of attributes must be coded as a single character string using the syntax shown in **PARTNER attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the PARTNER chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

PARTNER(*data-value***)**
specifies the 8-character name of the PARTNER definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:

2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:

1 The length you have specified in ATTRLEN is negative.

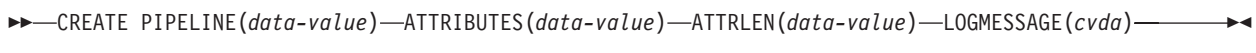
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

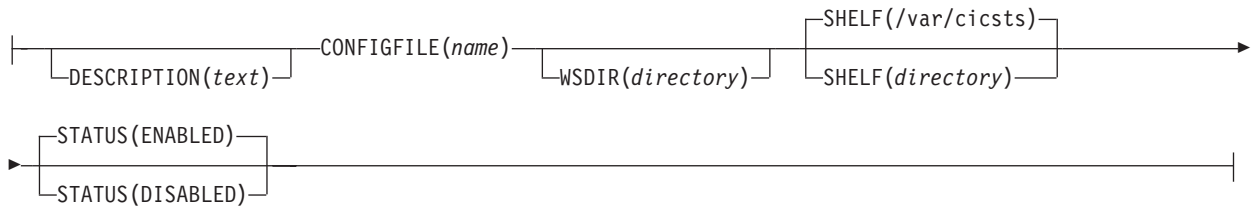
CREATE PIPELINE

Define a PIPELINE in the local CICS region.

CREATE PIPELINE



CREATE PIPELINE attribute values:



Conditions: INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE PIPELINE command installs a PIPELINE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a PIPELINE with the name you specify in the local CICS region, and the existing PIPELINE is disabled, the new definition replaces the old one; if an existing PIPELINE is not disabled, the CREATE command fails.

A syncpoint is implicit in CREATE PIPELINE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the PIPELINE being added. The list of attributes must be coded as a single character string using the syntax shown in **PIPELINE attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the PIPELINE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

PIPELINE(*data-value***)**
specifies the 8-character name of the PIPELINE definition to be added to the CICS region.

Conditions

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. The RESP2 value is associated with a message written to the transient data queue CSMT which identifies more precisely the nature of the error. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

612 Installation of this PIPELINE failed because it already exists

LENGERR
RESP2 values:

1 The length you have specified in ATTRLEN is negative.

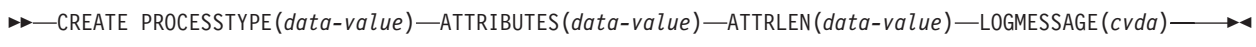
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

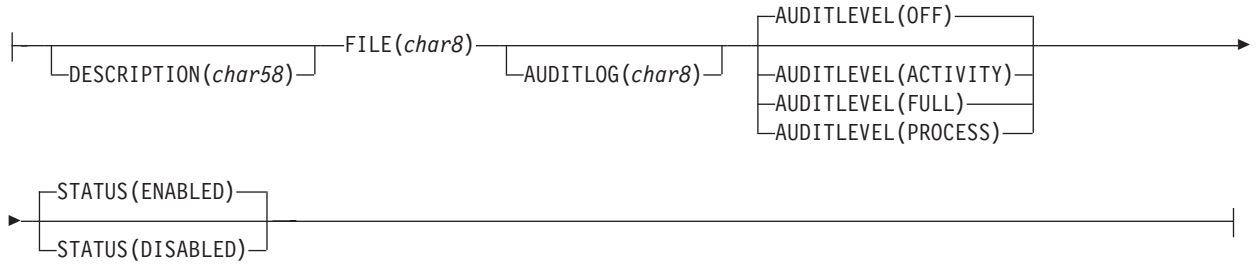
CREATE PROCESSTYPE

Define a PROCESSTYPE in the local CICS region.

CREATE PROCESSTYPE



CREATE PROCESSTYPE attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE PROCESSTYPE command installs a PROCESSTYPE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a process-type with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE PROCESSTYPE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the PROCESSTYPE being added. The list of attributes must be coded as a single character string using the syntax shown in **PROCESSTYPE attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the PROCESSTYPE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

PROCESSTYPE(*data-value***)**
specifies the 1- to 8-character name of the PROCESSTYPE definition to be added to the CICS region. The acceptable characters are A-Z a-z 0-9 $ @ # . / -_ % & ? ! : | = ¬ , ; < >. Leading and embedded blank characters are not permitted. If the name supplied is less than eight characters, it is padded with trailing blanks up to eight characters.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

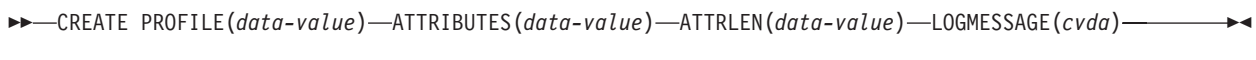
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to create a PROCESSTYPE definition with this name.
102 The caller does not have surrogate authority to install the resource with the particular userid.

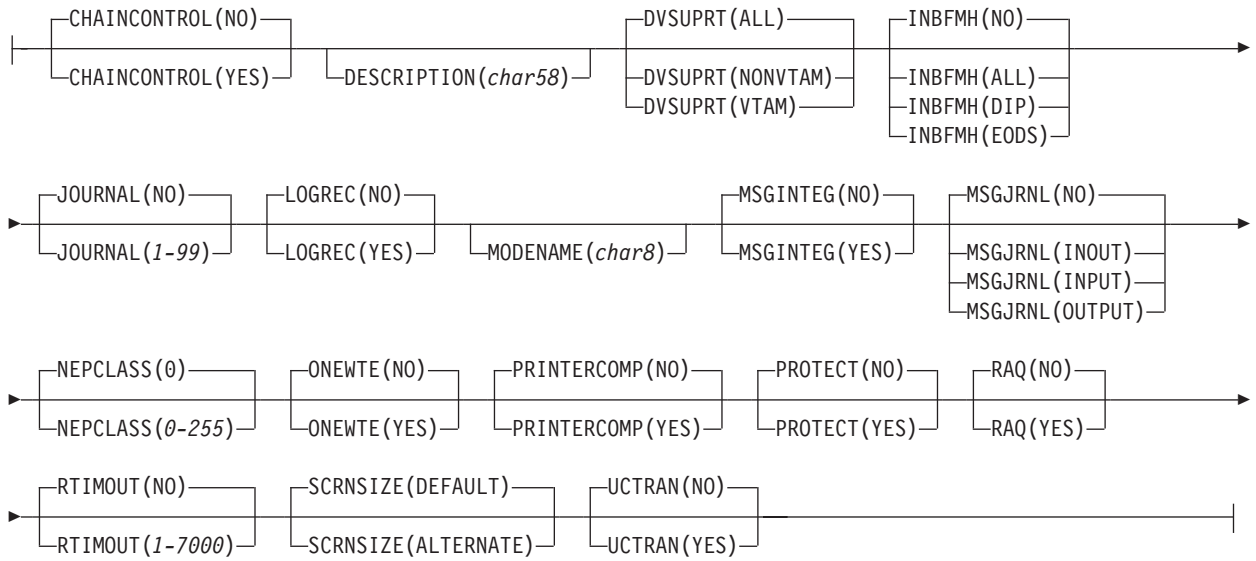
CREATE PROFILE

Define a transaction PROFILE in the local CICS region.

CREATE PROFILE



CREATE PROFILE attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE PROFILE command installs a PROFILE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a profile with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE PROFILE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the PROFILE being added. The list of attributes must be coded as a single character string using the syntax shown in **PROFILE attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the PROFILE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a PROFILE definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

PROFILE(*data-value***)**
specifies the 8-character name of the PROFILE definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

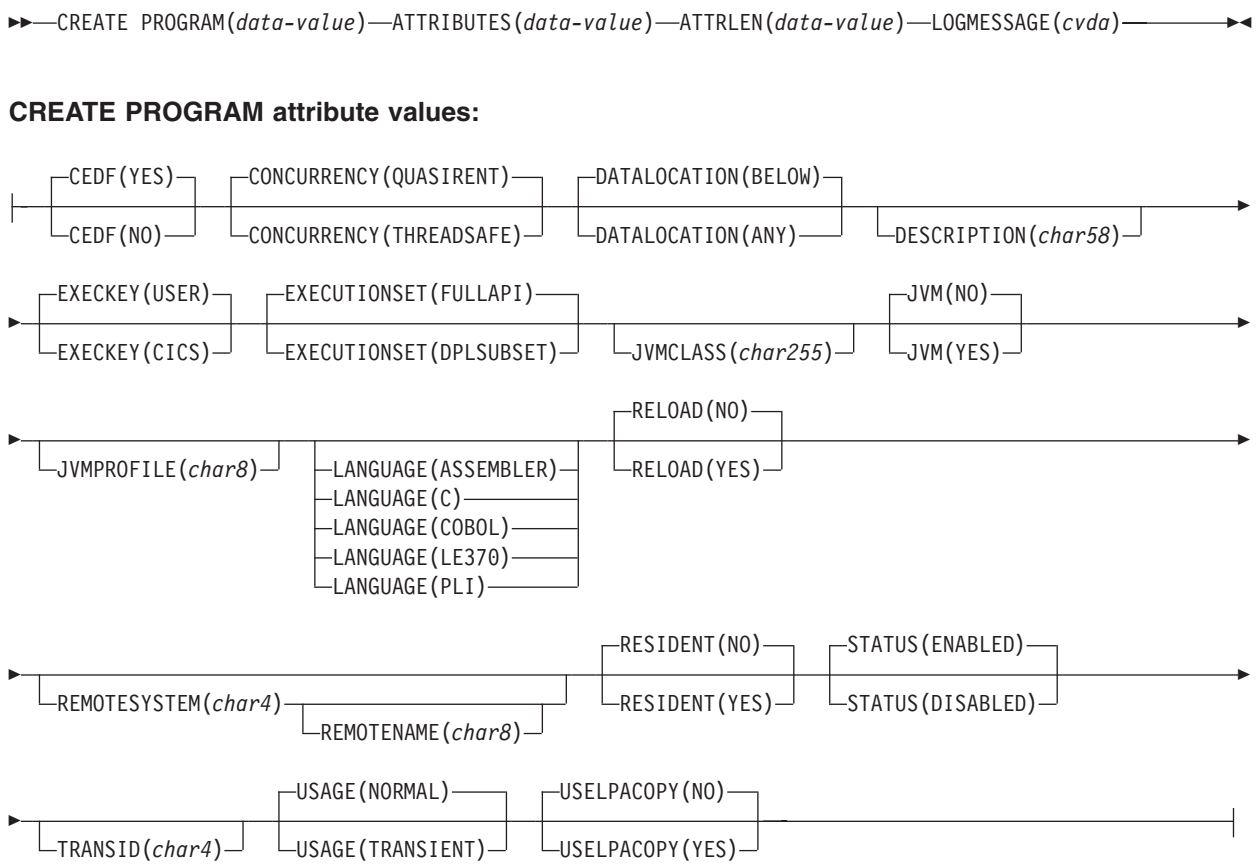
LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

CREATE PROGRAM

Define a PROGRAM in the local CICS region.

CREATE PROGRAM



CREATE PROGRAM attribute values:

Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE PROGRAM command installs a PROGRAM definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. Program names must be unique among program, map set, and partition set names within a CICS region. If the local region already has one of these resources with the name you specify, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE PROGRAM processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the PROGRAM being added. The list of attributes must be coded as a single character string using the syntax shown in **PROGRAM attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the PROGRAM chapter in the *CICS Resource Definition Guide* for details about specific attributes.

Note: You can assign default values for all attributes of a PROGRAM definition by specifying an ATTRLEN value of 0. You still need to specify the ATTRIBUTES option, however, even though its value is not used.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

PROGRAM(*data-value***)**
specifies the 8-character name of the PROGRAM definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

NOTAUTH

RESP2 values:

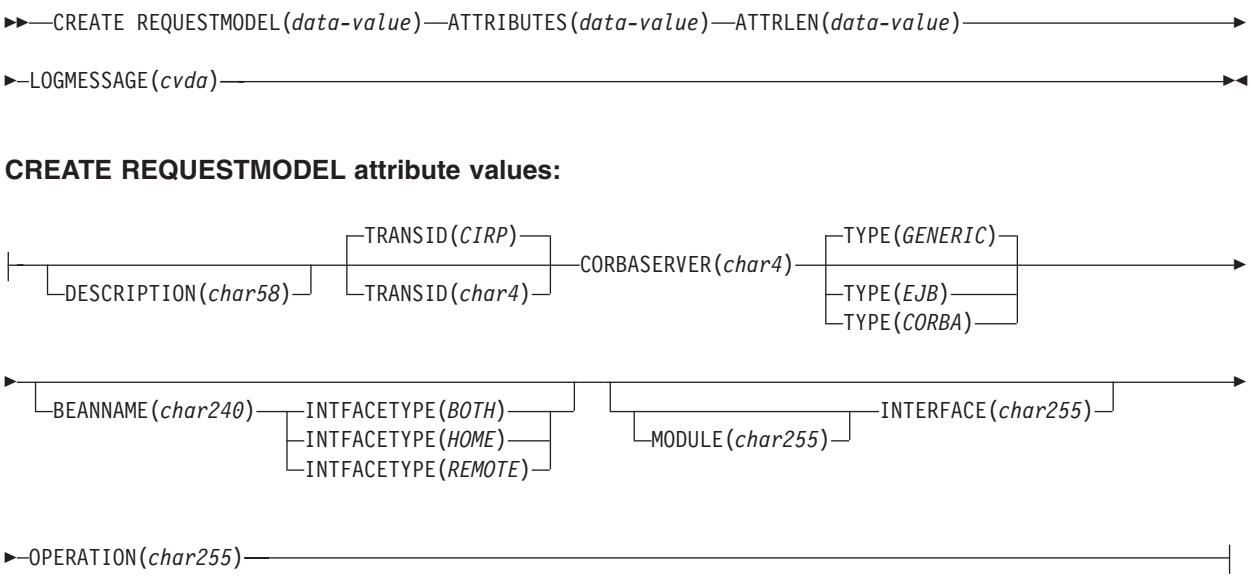
100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to create a PROGRAM definition with this name.

CREATE REQUESTMODEL

Define a request model in the local CICS region.

CREATE REQUESTMODEL



CREATE REQUESTMODEL attribute values:

Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE REQUESTMODEL command installs a REQUESTMODEL definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. . If there is already a request model with the name you specify in the local CICS region, the new definition replaces the old one; it not, the new definition is added.

A syncpoint is implicit in CREATE REQUESTMODEL processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the REQUESTMODEL being added. The list of attributes must be coded as a single character string using the syntax shown in **REQUESTMODEL attributes**. See "ATTRIBUTES option" on page 26 for general rules for specifying attributes, and the REQUESTMODEL chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length can be from 0 to 32767.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

REQUESTMODEL(*data-value***)**
specifies the 8-character name of the REQUESTMODEL definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, "EXEC CICS CREATE RESP2 values," on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.
611 Installation of the REQUESTMODEL definitiuon *r1* failed because a duplicate pattern already exists in *r2*.
618 Installation of the REQUESTMODEL definition *r1* failed because it is not a valid REQUESTMODEL for this level of CICS.

LENGERR
RESP2 values:
1 The length you have specified in ATTRLEN is negative.

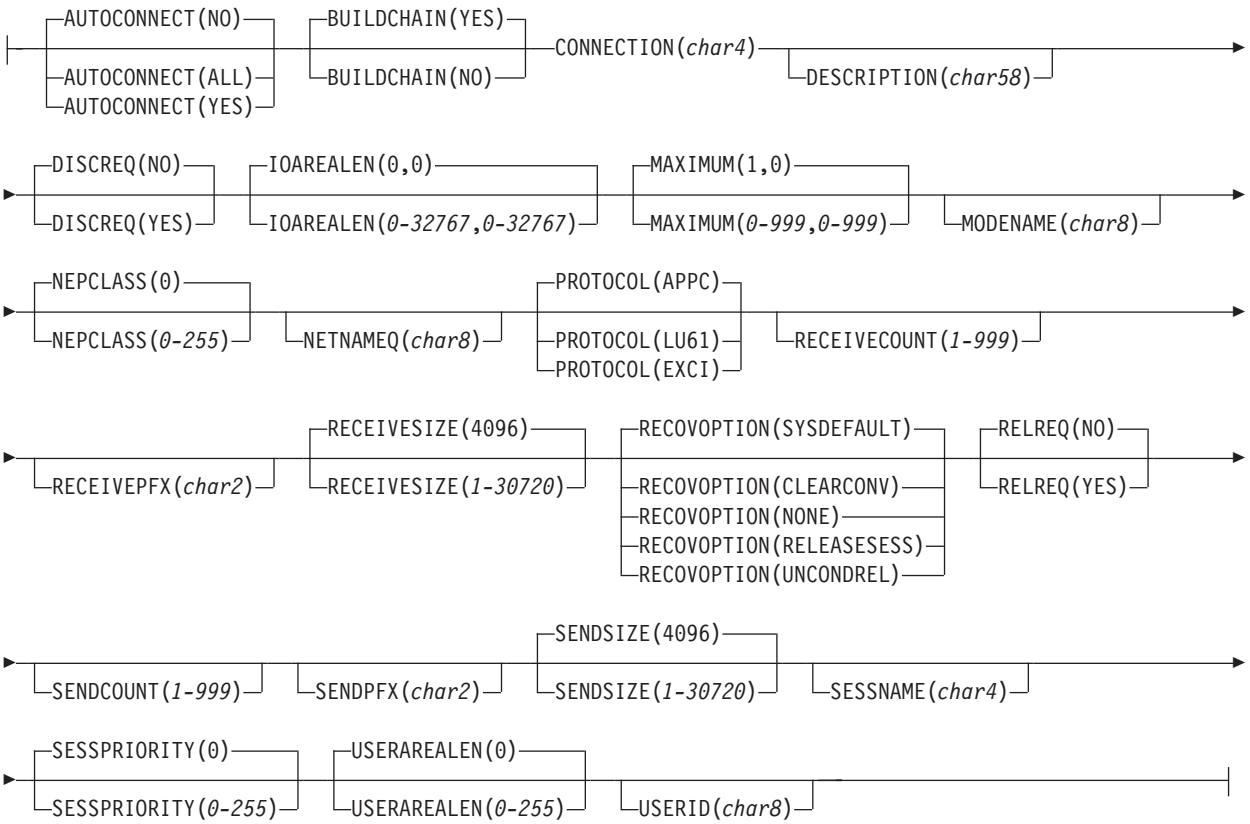
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

CREATE SESSIONS

Add a session group to the CONNECTION definition being created.

CREATE SESSIONS

CREATE SESSIONS attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE SESSIONS command installs a SESSIONS definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. You can use it only after issuing the initial CREATE CONNECTION

command that defines the attributes of a connection and before the final CREATE CONNECTION COMPLETE (or DISCARD) command that ends the process.

The sessions you define always belong to the current connection, and the name that you specify in the CONNECTION option within your ATTRIBUTES string must match the name of the connection specified in the preceding CREATE CONNECTION command. See “CREATE CONNECTION” on page 48 for rules about the order of the commands that build a connection, and “Creating resource definitions” on page 24 for general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the group of SESSIONS being added. The list of attributes must be coded as a single character string using the syntax shown in **SESSIONS attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the SESSIONS chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

SESSIONS(*data-value***)**
specifies the 8-character name of the SESSIONS definition to be added to CONNECTION definition under construction. The name of a sessions group needs to be unique only within the current CONNECTION definition, and the group is always added unless you repeat a session name within a connection. In this case, the last successful SESSIONS definition of the same name is the one that is used.

Conditions

ILLOGIC
RESP2 values:

2 The command cannot be executed because no CREATE CONNECTION ATTRIBUTES command has been issued, or the CONNECTION name specified in the ATTRIBUTES argument of this command does not match the name of the connection assigned in the CREATE CONNECTION command.

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an

EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

RESP2 values:

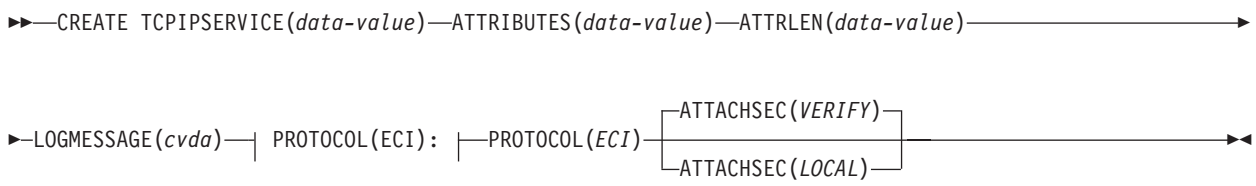
100 The user associated with the issuing task is not authorized to use this command.

102 The user of the transaction issuing the CREATE SESSIONS command is not an authorized surrogate of the user specified in USERID.

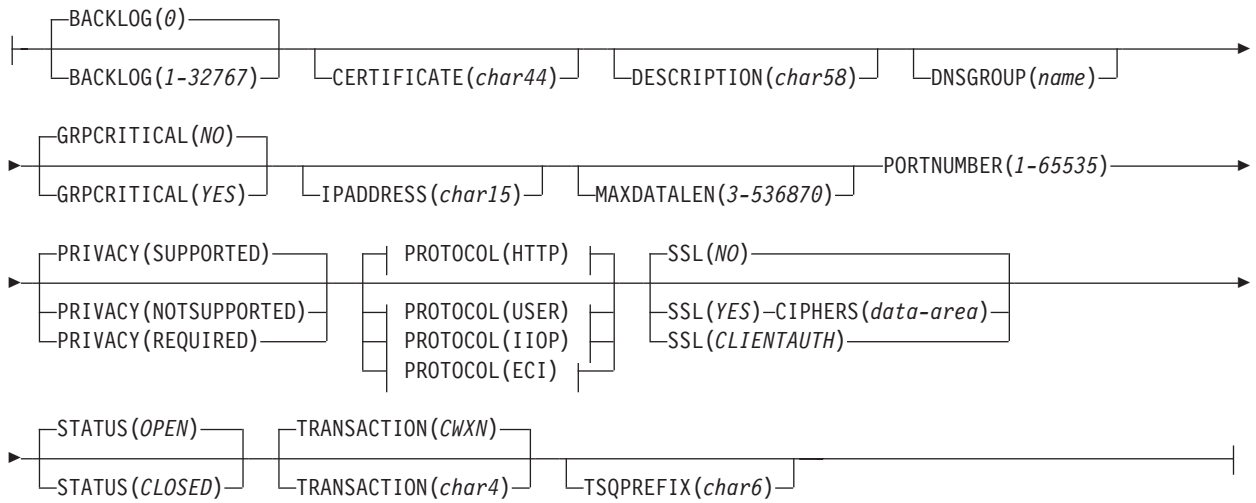
CREATE TCPIPSERVICE

Define a TCP/IP service in the local CICS region.

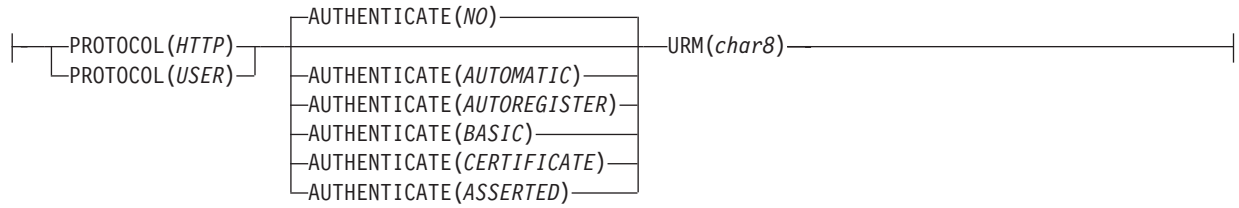
CREATE TCPIPSERVICE



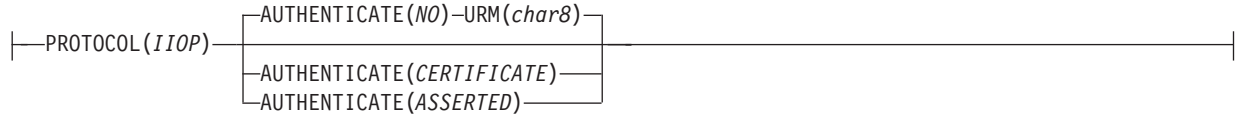
CREATE TCPIPSERVICE attribute values:



PROTOCOL(HTTP) or PROTOCOL(USER):



PROTOCOL(IIOP):



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TCPIPSERVICE command installs a TCPIPSERVICE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a TCP/IP service by the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE TCPIPSERVICE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not.

See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the TCPIPSERVICE being added. The list of attributes must be coded as a single character string using the syntax shown in **CONNECTION attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the TCPIPSERVICE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TCPIPSERVICE(*data-value***)**
specifies the 8-character name of the TCPIPSERVICE definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ

RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET, or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

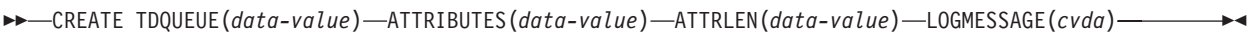
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

CREATE TDQUEUE

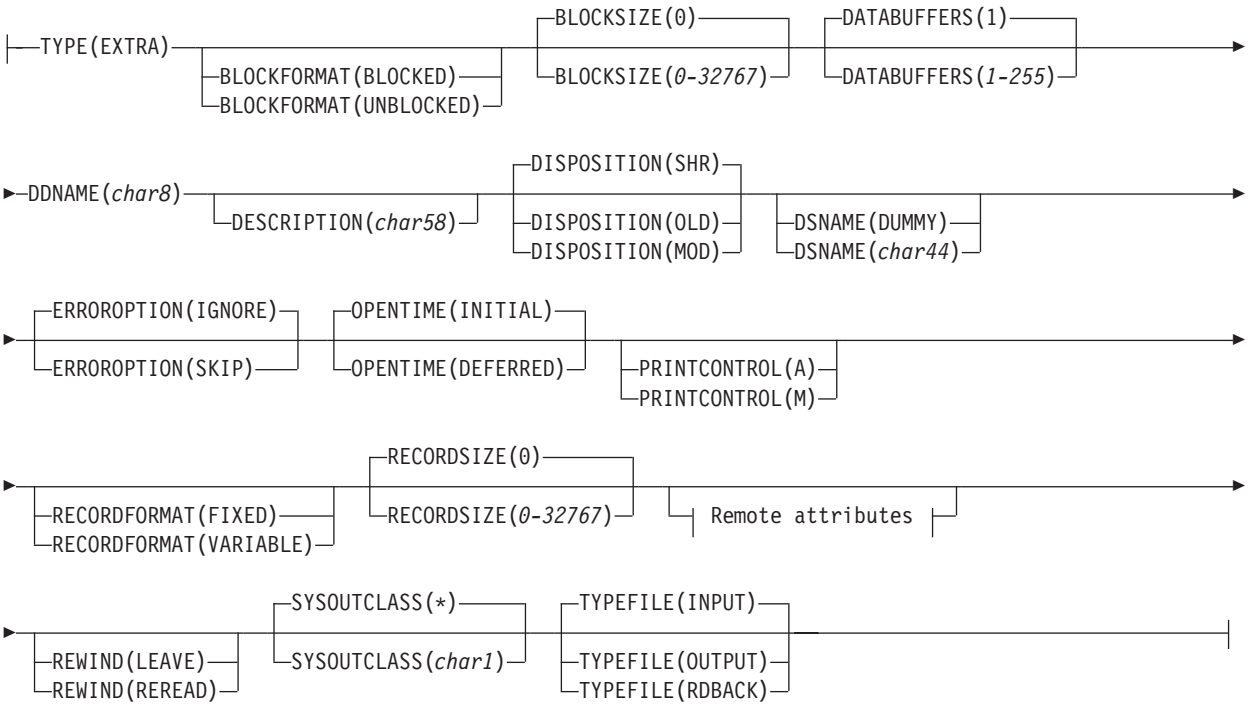
Define a transient data queue in the local CICS region.

CREATE TDQUEUE

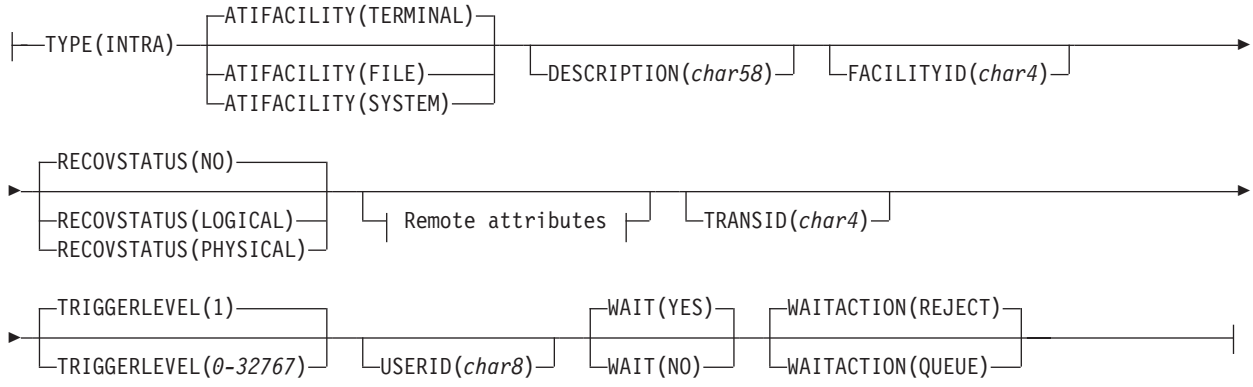


Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

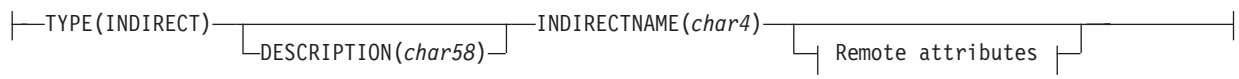
CREATE TDQUEUE attribute values for extra-partition queues:



CREATE TDQUEUE attribute values for intra-partition queues:

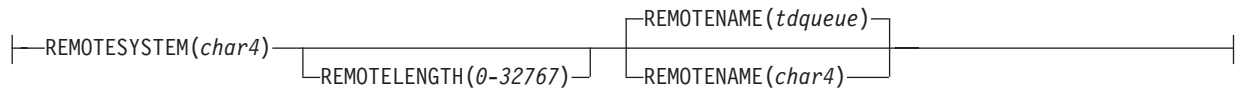


CREATE TDQUEUE attribute values for indirect queues:



CREATE TDQUEUE attribute values for remote queues of unspecified TYPE:

Remote attributes:



Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TDQUEUE command installs a TDQUEUE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a transient data queue with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE TDQUEUE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the queue being added. The list of attributes must be coded as a single character string and must include the TYPE option unless the queue is remote. The remaining attributes depend on the queue type; use the syntax shown in the figure (**extra-partition, intra-partition,** or **indirect**) that corresponds to your TYPE value. If the queue is remote, you still can specify TYPE and use the appropriate syntax, but you can also use the briefer form labelled **remote queues of unspecified TYPE**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the TDQUEUE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TDQUEUE(*data-value***)**
specifies the 4-character name of the TDQUEUE definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an

EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

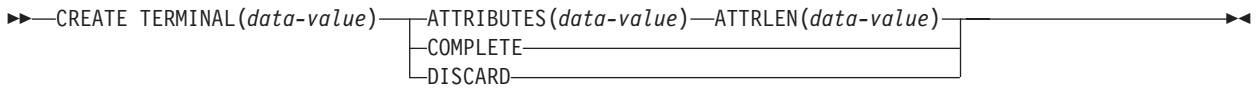
101 The user associated with the issuing task is not authorized to create a TDQUEUE definition with this name.

102 The user of the transaction issuing the CREATE TDQUEUE command is not an authorized surrogate of the user specified in USERID.

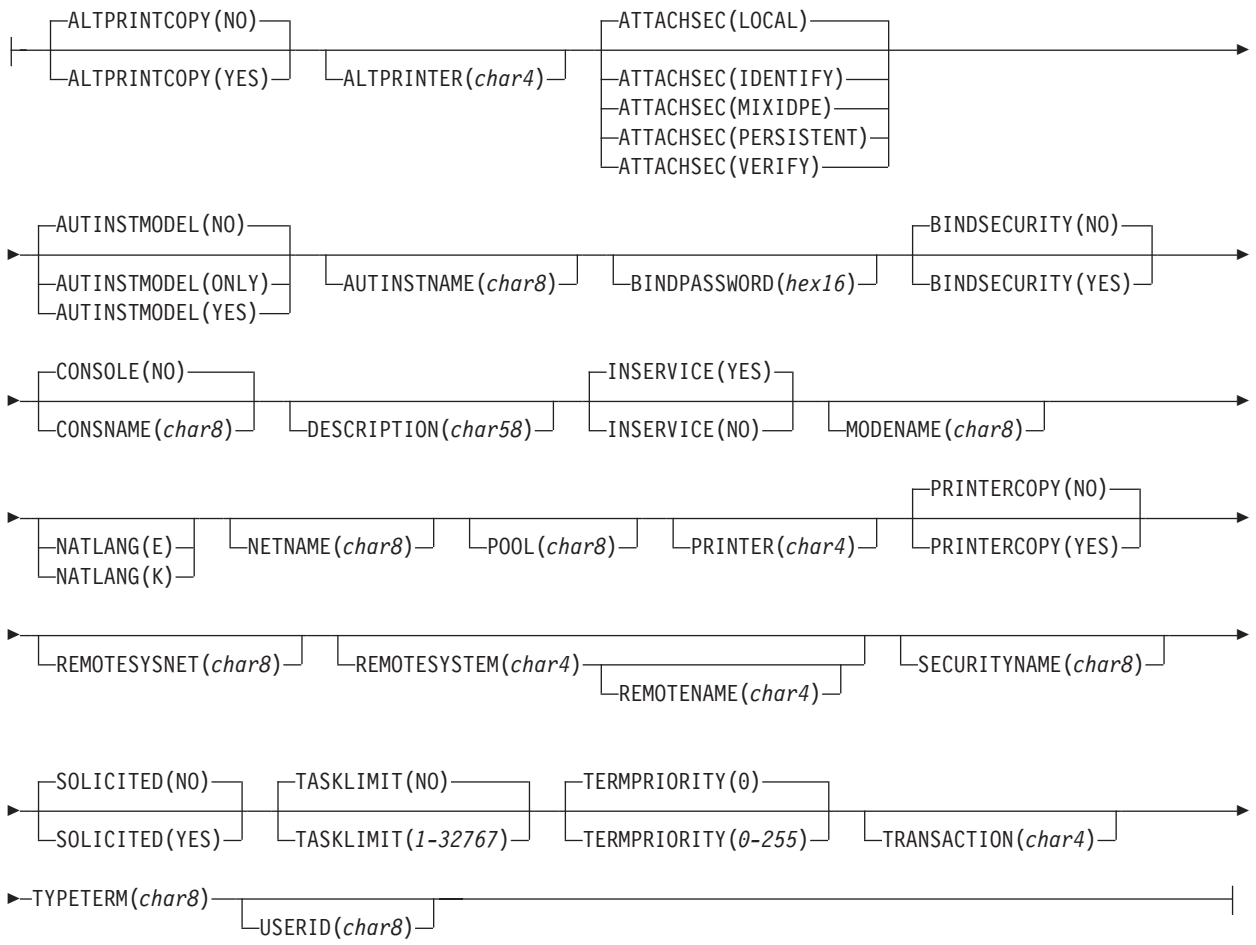
CREATE TERMINAL

Define a TERMINAL in the local CICS region.

CREATE TERMINAL



CREATE TERMINAL attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TERMINAL command installs a TERMINAL definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. You can use them either to define individual terminals or a pool of terminals.

The POOL attribute determines which mode you are using. Without it, each command defines a single, independent terminal. If there is already a terminal with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

To define a pool, you issue one CREATE TERMINAL ATTRIBUTES command for each terminal in the pool, specifying the same POOL value in the ATTRIBUTES string. After all of the terminals are defined, you issue CREATE TERMINAL COMPLETE; CICS collects but does not install the TERMINAL definitions until the COMPLETE command. At this point, if there was a pool of the same name in the local CICS region, CICS deletes all of its terminals and installs the new definitions; if not, it adds the new definitions. Consequently, pool terminals must be defined all at once; you cannot add terminals to an existing pool or include a terminal with the same name as an existing non-pool terminal.

During the time the pool is being built, you may not:

- Change or omit the pool name
- Define other resources of any type, including terminals outside the current pool
- Issue a SYNCPOINT (or any command that implies one)
- Terminate your task (normally)

However, if you encounter an error or problem during the course of building a pool, you can terminate the process at any point by issuing a CREATE TERMINAL DISCARD command. If you do this, CICS discards the partial pool definition, including all of its terminals.

A syncpoint is implicit in CREATE TERMINAL processing, as in other CREATE commands, except when an exception condition is detected early in the processing. Uncommitted changes to recoverable resources are committed when definitions are processed successfully, and rolled back if not or if you specify DISCARD. For non-pool terminals, the syncpoint occurs on each CREATE command. When you are building a pool, however, it occurs only on the command that ends the pool definition, whether you specify COMPLETE or DISCARD. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the TERMINAL being added. The list of attributes must be coded as a single character string using the syntax shown in

TERMINAL attributes. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the TERMINAL chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

COMPLETE
specifies that the terminal pool definition under construction is complete. It can be used only after the last terminal of a pool has been defined.

DISCARD
specifies that the terminal pool definition under construction is not to be completed, and all of the TERMINAL definitions issued since the pool was started are to be discarded and *not* added.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TERMINAL(*data-value***)**
specifies the 4-character name of the TERMINAL definition to be added.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.
7 The LOGMESSAGE cvda value is not valid.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:
1 The length specified in ATTRLEN is negative.

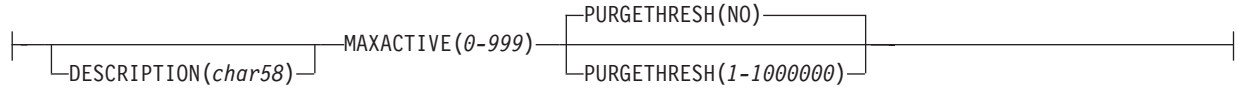
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
102 The user associated with the task issuing the CREATE TERMINAL command is not an authorized surrogate of the user specified in USERID.

CREATE TRANCLASS

Define a transaction class in the local CICS region.

CREATE TRANCLASS

CREATE TRANCLASS attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TRANCLASS command installs a TRANCLASS definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a transaction class with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE TRANCLASS processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the TRANCLASS being added. The list of attributes must be coded as a single character string using the syntax shown in **TRANCLASS attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the TRANCLASS chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TRANCLASS(*data-value***)**
specifies the 8-character name of the TRANCLASS definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:

2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:

1 The length you have specified in ATTRLEN is negative.

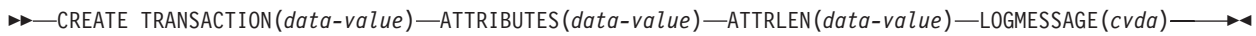
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

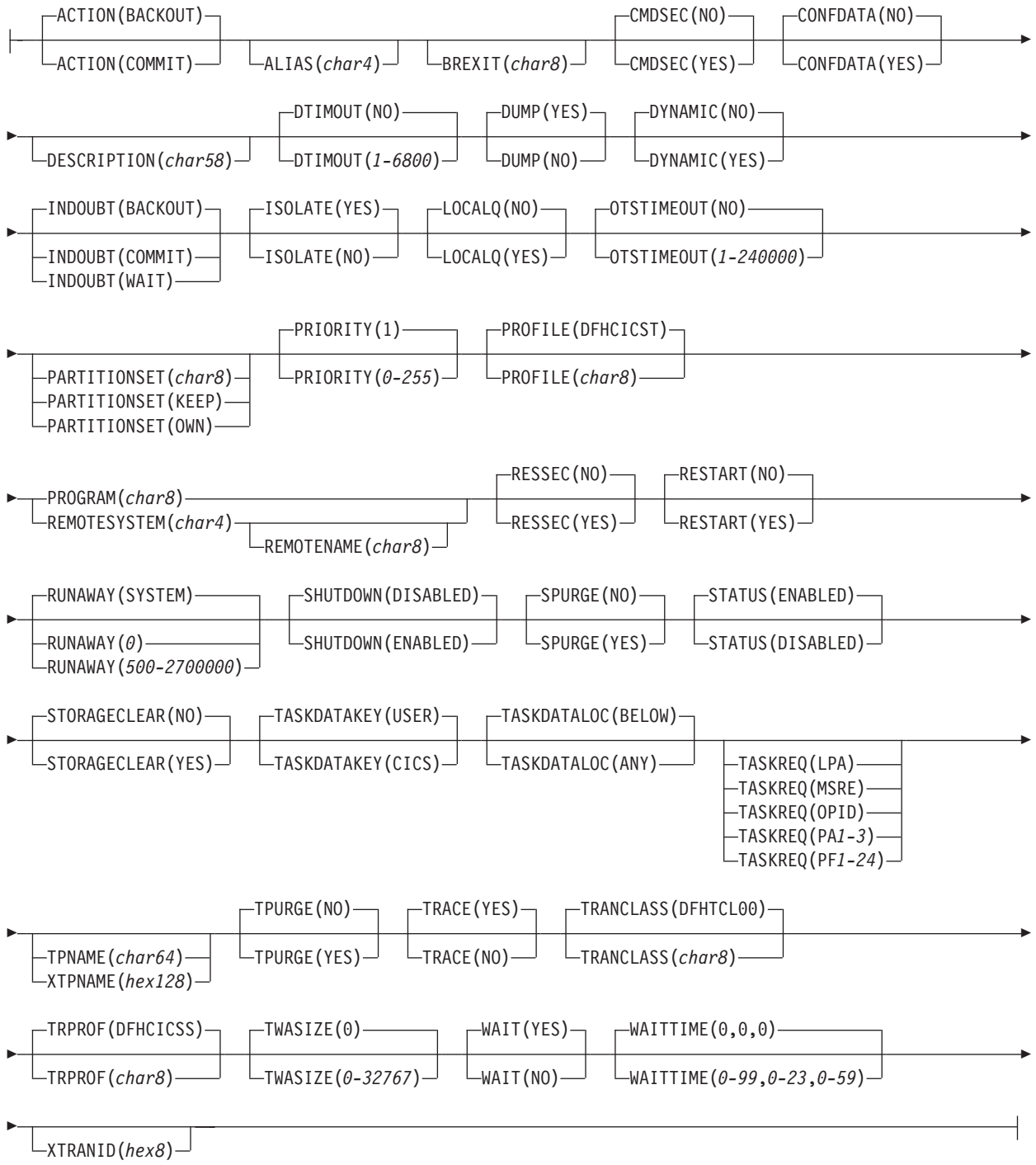
CREATE TRANSACTION

Define a TRANSACTION in the local CICS region.

CREATE TRANSACTION



CREATE TRANSACTION attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TRANSACTION command installs a TRANSACTION definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is no transaction with the name you specify in the local CICS region, the new definition is added. If there is, the new definition replaces the old one. However, it does not apply to tasks already in flight, which continue to use the definition under which they were initiated.

A syncpoint is implicit in CREATE TRANSACTION processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the TRANSACTION being added. The list of attributes must be coded as a single character string using the syntax shown in **TRANSACTION attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the TRANSACTION chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TRANSACTION(*data-value***)**
specifies the 4-character name of the TRANSACTION definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

RESP2 values:

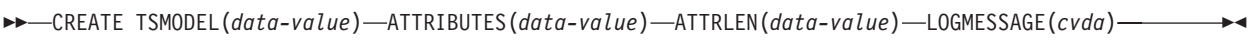
100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to create a TRANSACTION definition with this name.

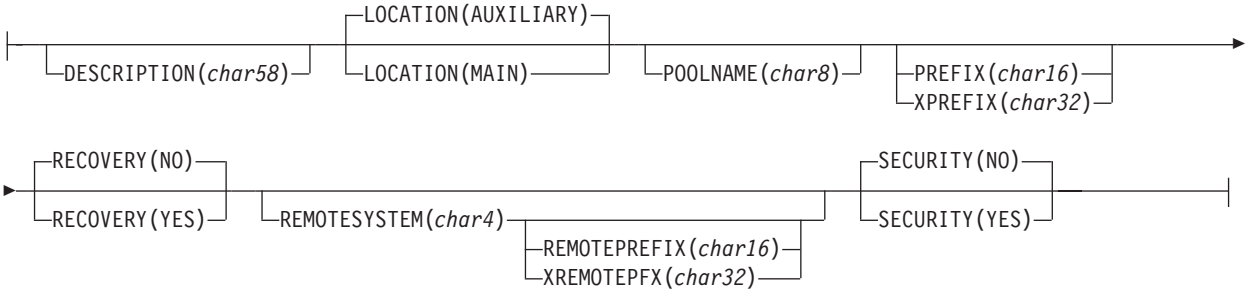
CREATE TSMODEL

Define a temporary Storage Table in the local CICS region.

CREATE TSMODEL



CREATE TSMODEL attribute values:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TSMODEL command installs a TSMODEL definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a TS model with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

No two TS models may have the same prefix. An attempt to add or replace a model which would result in there being two models with the same prefix will therefore fail.

A syncpoint is implicit in CREATE TSMODEL processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the TSMODEL being added. The list of attributes must be coded as a single character string using the syntax shown in **TSMODEL attributes**. See “ATTRIBUTES option” on page 26 for general rules for

specifying attributes, and the TSMODEL chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TSMODEL(*data-value***)**
specifies the 8-character name of the TSMODEL definition to be added to the CICS region.

Conditions

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR
RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to create a TSMODEL definition with this name.

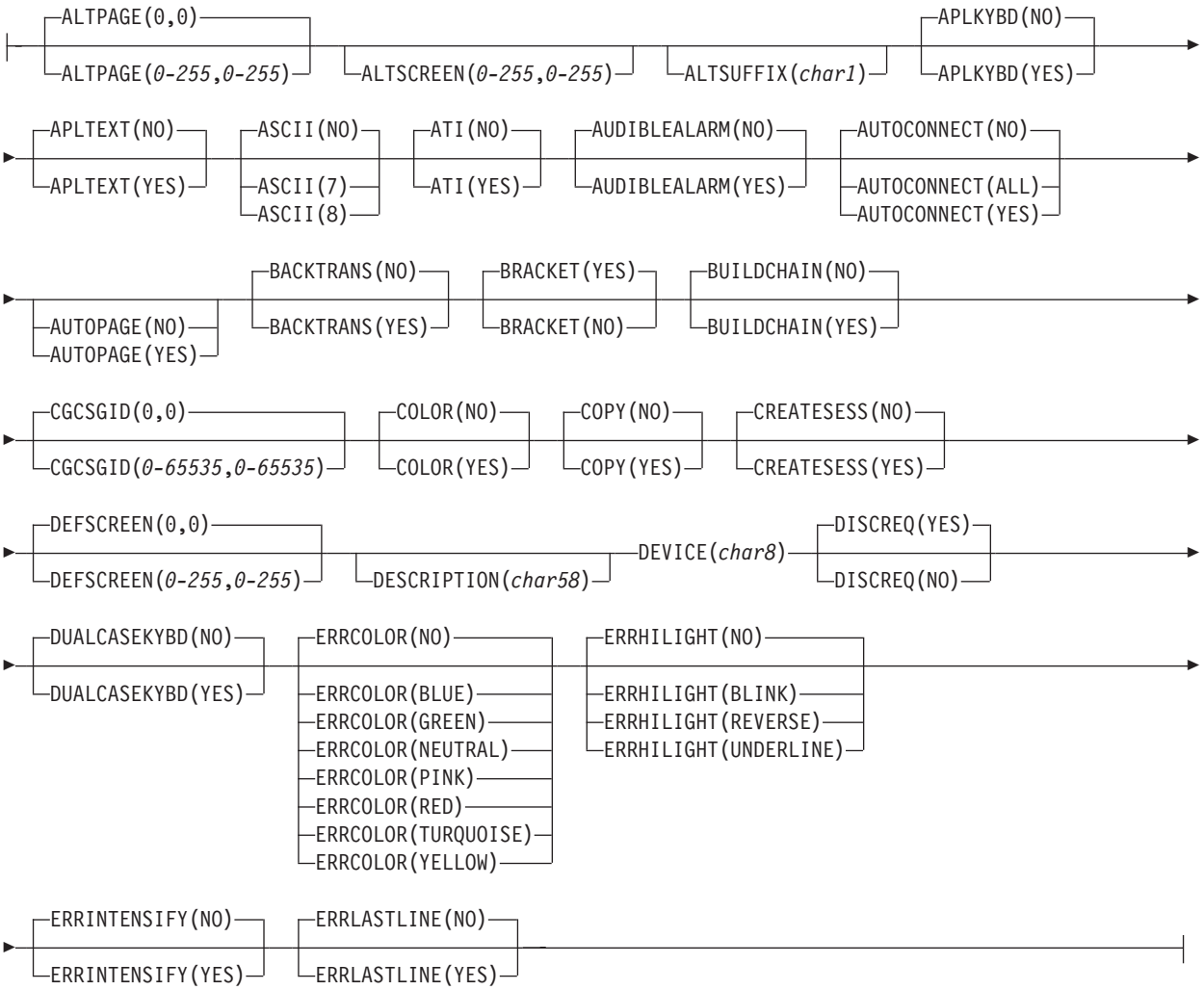
CREATE TYPETERM

Define a terminal type in the local CICS region.

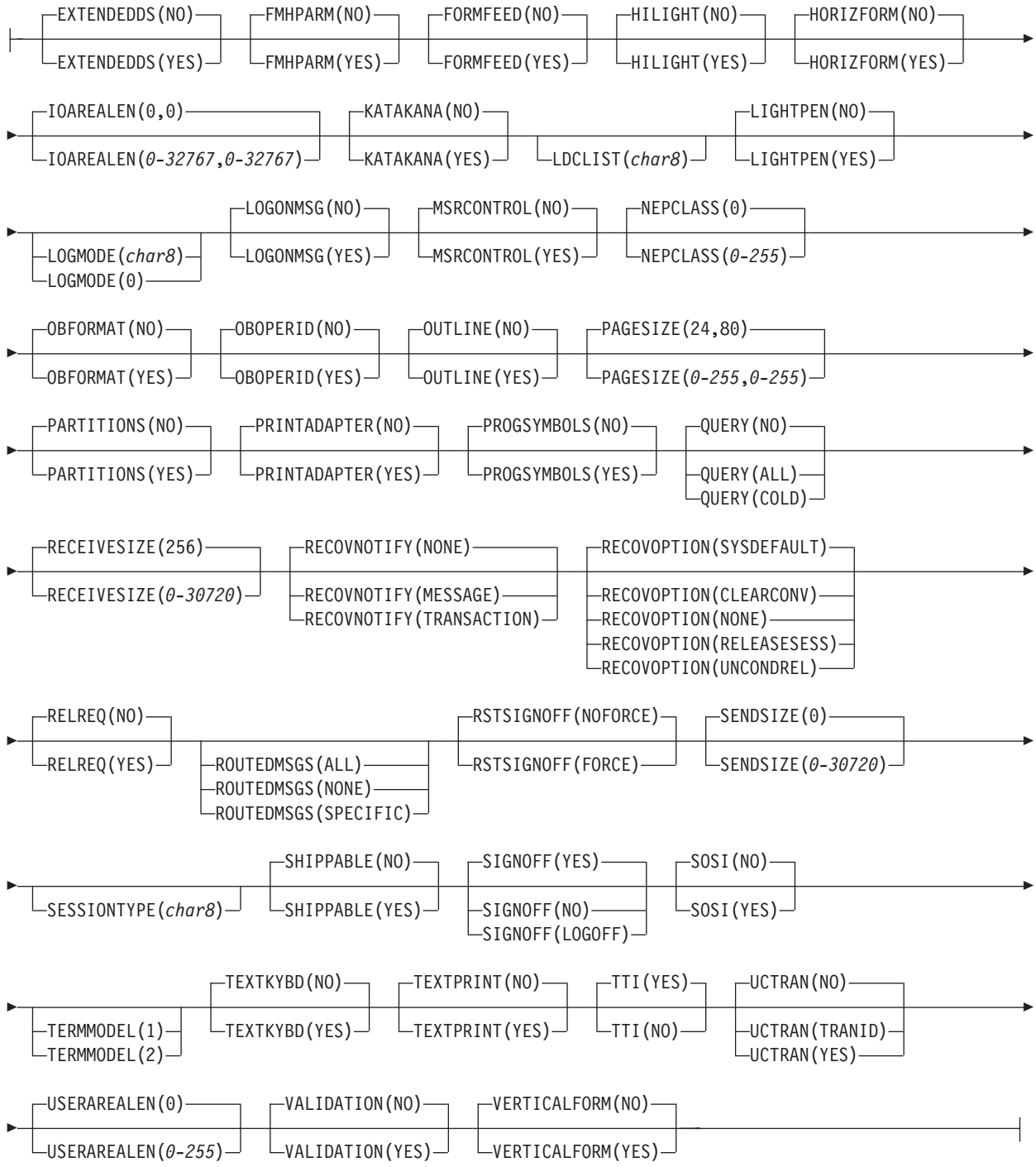
CREATE TYPETERM

Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

CREATE TYPETERM attribute values (part 1 of 2):



CREATE TYPETERM attribute values (part 2 of 2):



Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE TYPETERM command installs a TYPETERM definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a terminal type definition with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE TYPETERM processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the TYPETERM being added. The list of attributes must be coded as a single character string using the syntax shown in **TYPETERM attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the TYPETERM chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

TYPETERM(*data-value***)**
specifies the 8-character name of the TYPETERM definition to be added to the CICS region.

Conditions

ILLOGIC
RESP2 values:
2 The command cannot be executed because an earlier CONNECTION or TERMINAL pool definition has not yet been completed.

INVREQ
RESP2 values:
n There is a syntax error in the ATTRIBUTES string, or an error occurred

during either the discard or resource definition phase of the processing. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

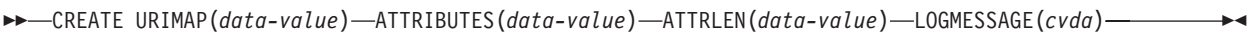
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

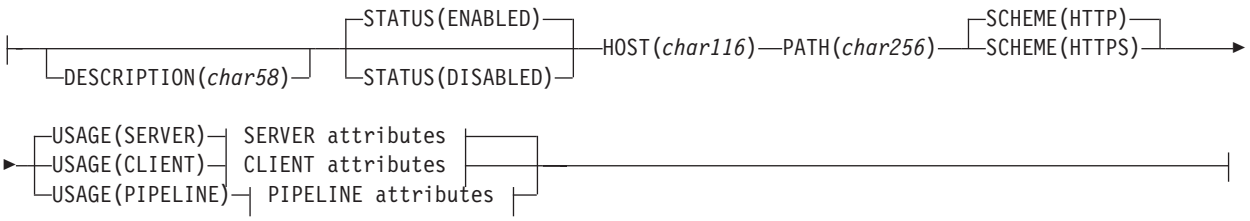
CREATE URIMAP

Define a URIMAP in the local CICS region.

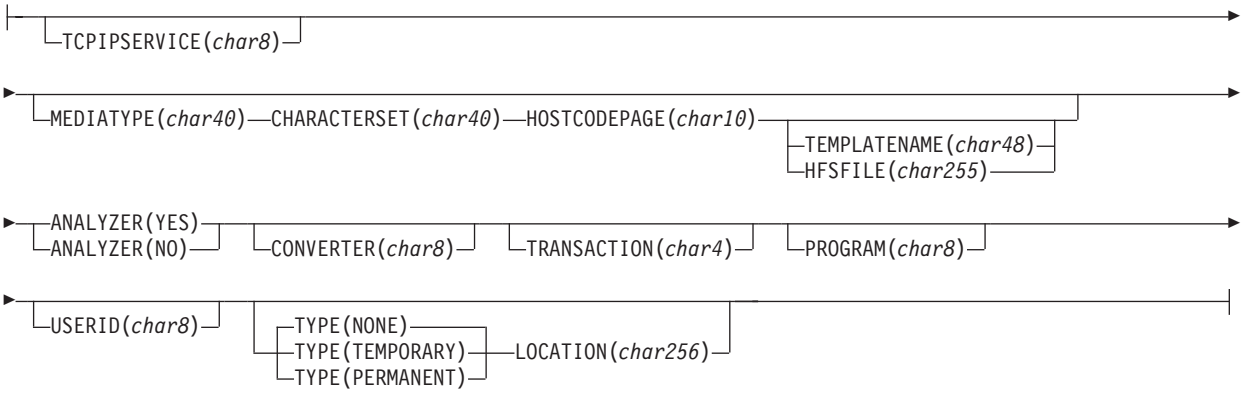
CREATE URIMAP



CREATE URIMAP attribute values:

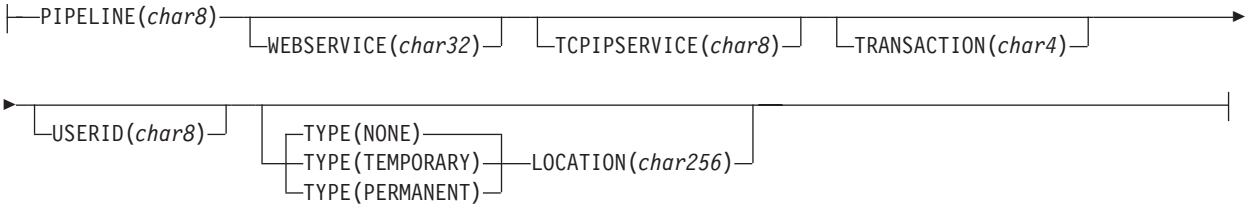


SERVER attributes:



CLIENT attributes:

PIPELINE attributes:



Conditions: ILLOGIC, INVREQ, LENGERR, NOTAUTH

This command is threadsafe.

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE URIMAP command builds a URIMAP definition. It does not use a resource definition stored in the CSD. If there is already a URIMAP definition with the name you specify in the local CICS region, the command fails unless the existing URIMAP definition is disabled, in which case the new definition replaces the old one. If no URIMAP definition with the name specified exists, the new definition is added.

A syncpoint is implicit in CREATE URIMAP processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the URIMAP definition being added. The list of attributes must be coded as a single character string using the syntax shown in **URIMAP definition attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the URIMAP chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

LOGMESSAGE
specifies whether CICS logs the attributes used for the resource being created to the CSDL transient data queue. CVDA values are:

LOG The resources attributes are logged to the CSDL transient data queue.

NOLOG The resources attributes are not logged to the CSDL transient data queue.

URIMAP(*data-value***)**
specifies the 8-character name of the URIMAP definition to be added to the CICS region.

Conditions

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. The RESP2 value is associated with a message written to the transient data queue CSMT which identifies more precisely the nature of the

error. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

7 The LOGMESSAGE cvda value is not valid.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

LENGERR

RESP2 values:

1 The length you have specified in ATTRLEN is negative.

NOTAUTH

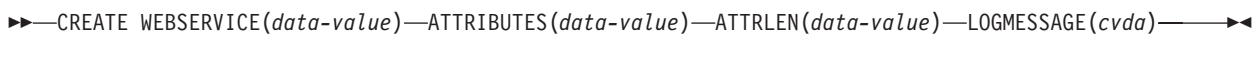
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

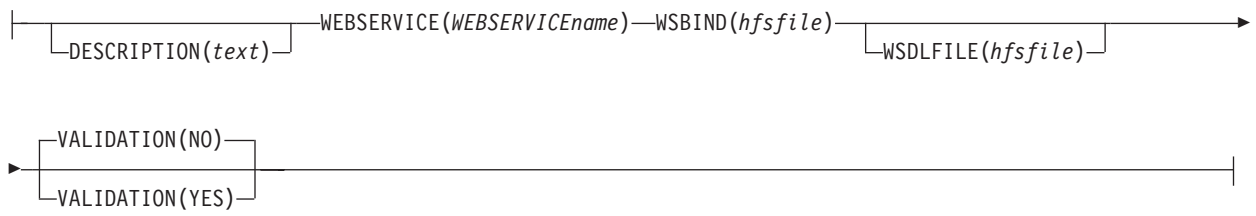
CREATE WEBSERVICE

Define a WEBSERVICE in the local CICS region.

CREATE WEBSERVICE



CREATE WEBSERVICE attribute values:



Conditions: INVREQ, LENGERR, NOTAUTH

Note to COBOL programmers:

In the syntax above, you must use
--- ATTRIBUTES (data-area)--- instead of
--- ATTRIBUTES (data-value)---

Description

The CREATE WEBSERVICE command installs a WEBSERVICE definition with the attribute specified on the command. It does not use a resource definition stored in the CSD. If there is already a WEBSERVICE with the name you specify in the local CICS region, the new definition replaces the old one; if not, the new definition is added.

A syncpoint is implicit in CREATE WEBSERVICE processing, except when an exception condition is detected early in processing the command. Uncommitted changes to recoverable resources made up to that point in the task are committed if the CREATE executes successfully, and rolled back if not. See “Creating resource definitions” on page 24 for other general rules governing CREATE commands.

Options

ATTRIBUTES(*data-value***)**
specifies the attributes of the WEBSERVICE being added. The list of attributes must be coded as a single character string using the syntax shown in **WEBSERVICE attributes**. See “ATTRIBUTES option” on page 26 for general rules for specifying attributes, and the WEBSERVICE chapter in the *CICS Resource Definition Guide* for details about specific attributes.

ATTRLEN(*data-value***)**
specifies the length in bytes of the character string supplied in the ATTRIBUTES option, as a halfword binary value. The length may not exceed 32767 bytes.

WEBSERVICE(*data-value***)**
specifies the 8-character name of the WEBSERVICE definition to be added to the CICS region.

Conditions

INVREQ
RESP2 values:

n There is a syntax error in the ATTRIBUTES string, or an error occurred during either the discard or resource definition phase of the processing. The RESP2 value is associated with a message written to the transient data queue CSMT which identifies more precisely the nature of the error. See Appendix C, “EXEC CICS CREATE RESP2 values,” on page 681 for information on RESP2 values.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

612 Installation of this WEBSERVICE failed because it already exists

LENGERR
RESP2 values:

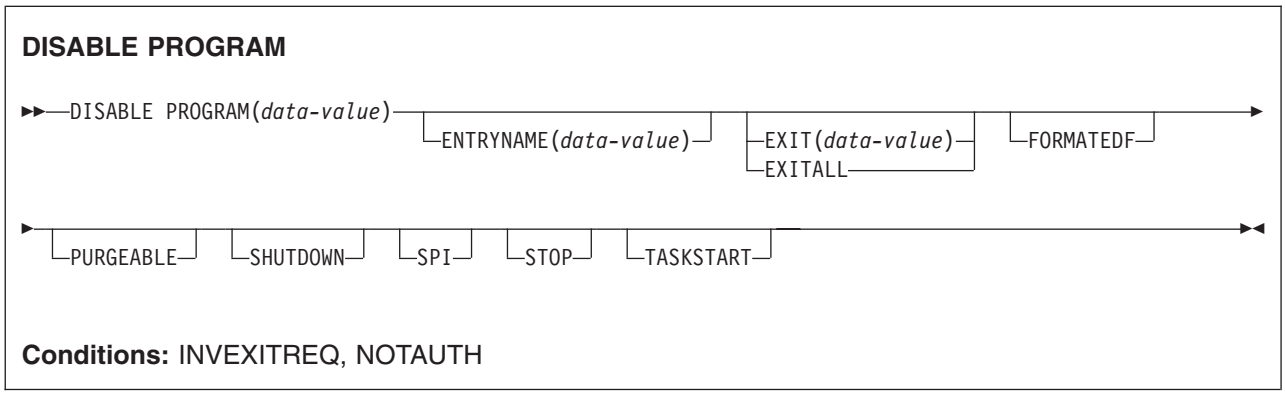
1 The length you have specified in ATTRLEN is negative.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

DISABLE PROGRAM

Terminate or otherwise modify the invocation of a user exit.



Description

The DISABLE PROGRAM command changes the status of a global or task-related user exit, reversing the effects of corresponding options in an ENABLE PROGRAM command.

You use it to:

- Remove points at which a particular exit is invoked
- Make the exit unavailable for execution (without removing its status as an exit)
- Delete its definition as an exit entirely.

Options on the DISABLE PROGRAM command correspond to those on the ENABLE command:

- ENTRYNAME and PROGRAM identify the exit to be disabled, and you must use exactly the same combination of values that you did in the ENABLE command that defined the exit.
- EXIT, FORMATEDF, SHUTDOWN, and TASKSTART reverse the effect of the same-named options on ENABLE PROGRAM; that is, they turn off invocation of the exit at the points specified.
- STOP reverses the effect of START, making the exit unavailable for execution.
- EXITALL deletes the definition entirely, reversing the effect of the ENABLE PROGRAM that created the exit. Work areas and the load module associated with the exit may be deleted as well.

For programming information about CICS exits, see the *CICS Customization Guide*; you should also see the general discussion of commands that modify exits in “Exit-related commands” on page 28.

Note: One or more of STOP and (EXIT or EXITALL) is required for a global user exit, and one or more of STOP, EXITALL, TASKSTART, SHUTDOWN, and FORMATEDF is required for a task-related user exit.

Options

ENTRYNAME(*data-value***)**
specifies the name of the global or task-related user exit whose status is to be changed. If you omit ENTRYNAME, CICS assumes that the name of the exit is

the same as the load module name given in the PROGRAM option. Therefore, you must use the same combination of ENTRYNAME and PROGRAM values on DISABLE commands as was specified on the initial ENABLE command that defined the exit.

EXIT(*data-value***) (global user exits only)**
specifies the name of the global user exit point from which this exit program is to be dissociated. It causes CICS to stop invoking the exit at this point but does not, of itself, cause CICS to delete the associated load module from virtual storage, even if it is no longer being used at any exit points. Exit point names are eight characters long; for programming information, including a list of exit points, see the *CICS Customization Guide*.

EXITALL
causes CICS to discard the definition of the exit. For a global user exit, EXITALL dissociates the exit from *all* of the exit points from which it currently is invoked. If possible, the associated load module is deleted from virtual storage.

For a task-related user exit, the associated load module is deleted from virtual storage if it is not in use by another exit and if the ENTRY option was not specified in the ENABLE command that defined the exit. If the exit owns a global work area, the work area is released as soon as no other exits are sharing it.

EXITALL implies STOP, so the exit becomes unavailable for execution. For a task-related user exit, you must avoid requesting this function until all tasks that have used the exit have ended; the results of EXITALL before that point are
unpredictable.This means that for start-of-task, end-of-task and shutdown calls,
when all task related user exits would be called and a DISABLE EXITALL
command is issued from the current TRUE for itself then the number of TRUEs
actually called is unpredictable. If the need arises for the exit to be refreshed
then the TRUE should disable itself using the STOP option and invoke a
separate task to issue the DISABLE with the EXITALL option.

FORMATEDF (task-related user exits only)
indicates that the exit should not be invoked to format EDF screens. You can reinstate invocation at EDF points with an ENABLE command specifying FORMATEDF.

PROGRAM(*data-value***)**
specifies the 8-character name of the **load module** that contains the entry point for the exit. This name is also used as the name of the exit when ENTRYNAME is not specified; see the ENTRYNAME option.

PURGEABLE (task-related user exits only)
removes the ability to be purged from CICS waits whilst active in the task-related user exit. You can turn this on with an ENABLE command specifying PURGEABLE.

SHUTDOWN (task-related user exits only)
indicates that the exit should not be invoked at CICS shutdown. You can reinstate invocation at shutdown with an ENABLE command specifying SHUTDOWN.

SPI (task-related user exits only)
specifies that the task-related user exit is no longer to be invoked if an INQUIRE EXITPROGRAM command specifies the CONNECTST or QUALIFIER option, or both.

STOP
specifies that the exit is to be made unavailable for execution, but is to remain

enabled (defined as an exit). You can make the exit available for execution again with an ENABLE command specifying START.

When a STOPped task-related user exit gets invoked, the invoking code gets an AEY9 abend code. There is no corresponding error for global user exits, however, because CICS invokes only those exits associated with an exit point which are also available for execution (not stopped).

TASKSTART (task-related user exits only)
indicates that the exit should not be invoked at the start and end of each task. You can reinstate these invocations with an ENABLE command specifying TASKSTART.

Conditions

INVEXITREQ
The INVEXITREQ condition of the DISABLE command is indicated by X80 in the first byte of EIBRCODE. The exact cause of the error can be determined by examining the second and third bytes of EIBRCODE, which can have the values shown in the following list.

X808000
The load module named on the PROGRAM parameter has not been defined to CICS, or the load module is not in the load library, or the load module has been disabled.

X804000
The value of EXIT is not a valid exit point.

X800200
The exit identified by the PROGRAM value is not defined as an exit.

X800100
The exit identified by ENTRYNAME is not defined as an exit.

X800080
The exit is currently invoked by another task (see note).

Note: The INVEXITREQ condition with X0080 in the second and third bytes can occur:

- If you issue the DISABLE request while a task using the exit has been suspended temporarily because of a request for a CICS service within the exit. The normal action for this condition is to retry the DISABLE request.
- When a DISABLE request with EXITALL or EXIT has been specified, but the exit has already terminated abnormally. In this case, the use count of the associated load module remains greater than zero. The exit cannot be dissociated from any exit point, and the load module cannot be deleted from virtual storage. The exit can, however, be made unavailable for execution by issuing a DISABLE STOP command.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

Examples

Example 1

```
EXEC CICS DISABLE PROGRAM('EP2') STOP
```

Example 1 makes exit EP2 non-executable. It does not dissociate it from the exit points with which it is associated, however, or delete its definition as an exit. It can be made available again by issuing an ENABLE PROGRAM(EP2) START command.

Example 2

```
EXEC CICS DISABLE ENTRYNAME ('ZX') PROGRAM('EP3')
EXIT('XTDREQ')
```

Example 2 stops global user exit ZX from being invoked at exit point XTDREQ. ZX is still defined, however, and if it is associated with other exit points, it is still invoked at them.

Example 3

```
EXEC CICS DISABLE PROGRAM('EP3') EXITALL
```

Example 3 dissociates EP3 from all points at which invocation was requested (exit points, in the case of a global user exit; task start, shutdown, and so on, in the case of a task-related user exit), and discards the definition of the exit. If the load module EP3 is not in use, it is deleted.

DISCARD AUTINSTMODEL

Remove a terminal autoinstall model definition.

DISCARD AUTINSTMODEL

Conditions: INVREQ, MODELIDERR, NOTAUTH

Description

The DISCARD AUTINSTMODEL command makes a TERMINAL definition in the local CICS system ineligible for use as a model for automatic installation of terminals. The TERMINAL definition is not discarded or otherwise modified; it is only removed from the list of autoinstall models available. (Use the DISCARD TERMINAL command if you want to remove the definition of the terminal.)

See “Discarding resource definitions” on page 27 for general information about discards.

Options

AUTINSTMODEL(*data-value***)**
specifies the 8-character name of the autoinstall model that is to be removed. This is the name specified in the AUTINSTNAME option of the TERMINAL definition that defines the model, or the name of the terminal if AUTINSTNAME was not specified.

Models whose names begin with the letters DFH are assumed to be CICS-supplied models and cannot be discarded.

Conditions

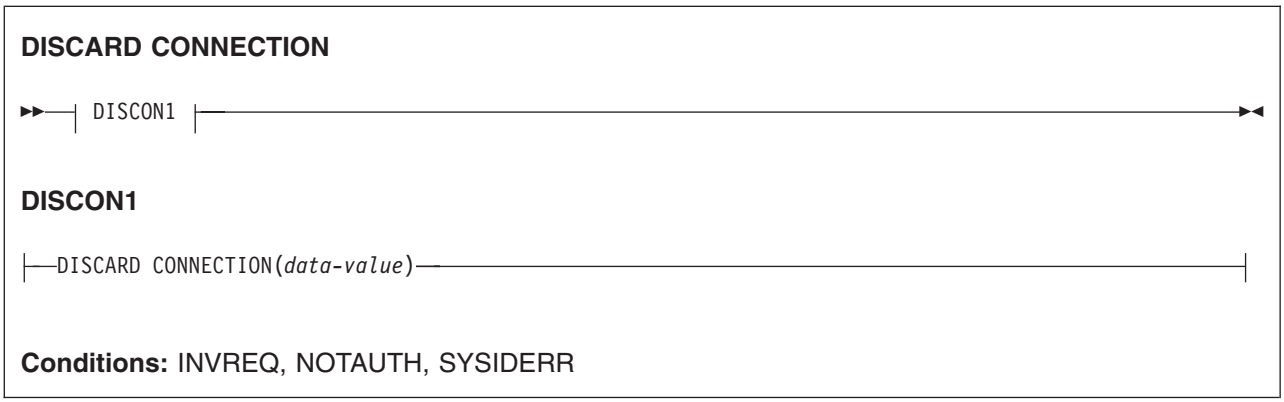
INVREQ
RESP2 values:
2 The model you requested is currently in use.
3 The model cannot be discarded because its name begins with DFH.

MODELIDERR
RESP2 values:
1 The model cannot be found.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

DISCARD CONNECTION

Remove a CONNECTION definition.



Description

The DISCARD CONNECTION command removes a CONNECTION definition from the local CICS system. When a connection is removed, all of the associated sessions also are removed.

For deletion to be successful:

- The connection can have no active sessions if it is remote (that is, has a REMOTESYSTEM value other than the name of the local region), and must be in OUTSERVICE status if it is not remote.
- The interregion communications facility must be closed if the connection is an MRO connection. (You can use the SET IRC CLOSED command to close it.)
- If the connection is an APPC connection and the local CICS system is a member of a VTAM generic resource group, there can be no deferred work pending. Deferred work occurs when a failure causes a unit of work which has used a session on the connection at SYNCLEVEL 2 to be “shunted” (held for later disposition, because recovery action is required before disposition can be completed).

  Other types of connection *can* be discarded, even if there is recovery work outstanding for them. However, it is recommended that you do not discard them if there is. You can use the INQUIRE CONNECTION RECOVSTATUS command to check.
- There can be no indirect CONNECTION definitions pointing to the connection to be discarded.

Note: In unusual circumstances, the discard of an LU6.1 connection can fail, even when it is out-of-service, if some of its sessions are still in-service. If this happens, set the connection status to INSERVICE, then OUTSERVICE, and then reissue the DISCARD command.

CICS completes successful DISCARD CONNECTION processing with an implicit syncpoint on behalf of the issuing task, committing changes to recoverable resources made up to that point in the task. If the discard processing fails, CICS raises the INVREQ exception condition with a RESP2 value of 27, and does a SYNCPOINT ROLLBACK instead, rolling back changes to recoverable resources. For all other exception conditions, however, discard processing is not attempted and neither SYNCPOINT nor SYNCPOINT ROLLBACK is issued.

See “Discarding resource definitions” on page 27 for general information about DISCARD commands.

Options

CONNECTION(*data-value***)**
specifies the 4-character identifier of the CONNECTION definition to be discarded.

Conditions

INVREQ
RESP2 values:
24 The connection is remote and is in use locally.
25 The connection is local and is not out-of-service.
26 Recovery information is outstanding for the connection which must be resolved before discard is allowed.
27 Discard processing failed.
28 Indirect connections point to the connection.
29 The connection is an MRO connection and IRC is not closed.
38 Discard of this connection is already in progress.
39 The CONNECTION definition is currently in use.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SYSIDERR
RESP2 values:
9 The connection cannot be found.

DISCARD CORBASERVER

Remove the definition of a CorbaServer from the system, together with any associated deployed JAR files and beans.

DISCARD CORBASERVER

Conditions: INVREQ,NOTAUTH, NOTFND

Description

The DISCARD CORBASERVER command allows you to remove the definition of a CorbaServer from the system, together with any associated deployed JAR files and beans.

If any of the beans installed in the named CorbaServer are in use when the DISCARD command executes, the state of the CorbaServer turns to DISCARDING. No new work is accepted. When all outstanding work has completed, the CORBASERVER definition is removed.

Copies of deployed JAR files are deleted from the CorbaServer's shelf, together with any other files on the shelf that belong to the CorbaServer. The CorbaServer's shelf directory is deleted.

Conditions

INVREQ
RESP2 values:
22 Discard is in progress for this deployed Corbaserver.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The named CorbaServer was not found.

DISCARD DB2CONN

Remove a DB2CONN definition.

DISCARD DB2CONN

Conditions: INVREQ, NOTAUTH, NOTFND

This command is threadsafe.

Description

The DISCARD DB2CONN command removes the definition of a DB2CONN from the local CICS system; that is, it revokes the earlier installation of a DB2CONN resource definition.

A DB2CONN can only be discarded when the CICS DB2 interface is not active.

Note: A discard of a DB2CONN also implicitly discards all DB2ENTRYs and DB2TRANs currently installed.

Options

None

Conditions

INVREQ
RESP2 values:
2 The CICS DB2 interface is active.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 A DB2CONN cannot be found.

DISCARD DB2ENTRY

Remove a DB2ENTRY definition.

DISCARD DB2ENTRY

Conditions: NOTFND, INVREQ, NOTAUTH

This command is threadsafe.

Description

The DISCARD DB2ENTRY command removes the definition of a DB2ENTRY from the local CICS system, so that the system no longer has access to the DB2ENTRY; that is, it revokes the earlier installation of a DB2ENTRY resource definition of the same name.

A DB2ENTRY must be disabled for its definition to be discarded.

Options

DB2ENTRY(*data-value***)**
specifies the 8-character name of the DB2ENTRY that is to be removed.

Conditions

NOTFND
RESP2 values:
1 The DB2ENTRY cannot be found.

INVREQ
RESP2 values:
2 The DB2ENTRY is currently in use.
3 The DB2ENTRY is not disabled.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

DISCARD DB2TRAN

Remove a DB2TRAN definition.

DISCARD DB2TRAN

Conditions: NOTFND, NOTAUTH

This command is threadsafe.

Description

The DISCARD DB2TRAN command removes the definition of a DB2TRAN from the local CICS system, so that the transaction id specified in the DB2TRAN no longer uses the named DB2ENTRY; that is, it revokes the earlier installation of a DB2TRAN resource definition of the same name.

A DB2TRAN can be discarded at any time.

Options

DB2TRAN(*data-value***)**
specifies the 8-character name of the DB2TRAN that is to be removed.

Conditions

NOTFND
RESP2 values:
1 The DB2TRAN cannot be found.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access the DB2ENTRY referenced by this DB2TRAN in the way required by this command.

DISCARD DJAR

Remove the definition of a specified deployed JAR file from the system, together with any associated beans.

DISCARD DJAR

Conditions: INVREQ,NOTAUTH, NOTFND

Description

The DISCARD DJAR command removes the definition of a deployed JAR file from the system, together with the shelf copy of the deployed JAR file and the beans it contains. The current set of JVM instances are marked for termination, so that each JVM instance will not be reused after it terminates. New JVM instances load all their classes and do not use old versions of classes whose bytecodes have been replaced.

The copy of the deployed JAR file that was created when the deployed JAR file was installed is deleted from the CorbaServer's shelf.

Passivated stateful session bean instances are not deleted by this operation because, in a workload-managed CICS EJB server, they could be activated by other AORs .

References to the homes of enterprise beans in the deployed JAR file are not retracted from the namespace because other AORs might still have the homes installed. However, before discarding a deployed JAR file from the last AOR in which it is installed, you might wish to issue a PERFORM DJAR RETRACT command to retract references to home interfaces.

Options

DJAR(*data-value***)**
specifies the 1–32 character name of the deployed JAR file to be discarded.

Conditions

INVREQ
RESP2 values:
22 Delete is in progress for this deployed JAR file.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The named deployed JAR file was not found.

DISCARD DOCTEMPLATE

Remove a document template.

DISCARD DOCTEMPLATE

Conditions: NOTAUTH, NOTFND

This command is threadsafe.

Description

The DISCARD DOCTEMPLATE command removes a document template definition from the local CICS system, so that the system no longer has access to the resource (that is, it revokes the earlier installation of an DOCTEMPLATE definition of the same name).

See “Discarding resource definitions” on page 27 for general information about discards.

Options

DOCTEMPLATE(*data-value***)**
specifies the 8-character name of the DOCTEMPLATE definition that you want to remove.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The specified DOCTEMPLATE is not installed on this system.

DISCARD ENQMODEL

Remove an ENQMODEL resource definition.

DISCARD ENQMODEL

Conditions: NOTAUTH, NOTFND

Description

The DISCARD ENQMODEL command removes the definition of an ENQ model from the local CICS system. When discard is issued, the ENQMODEL is put into the WAITING state until there are no enqueues in the local system which match the ENQNAME pattern. It is then removed from the local system, so that the system no longer has access to the ENQMODEL; that is, it revokes the earlier installation of an ENQMODEL resource definition of the same name.

Adding or removing a definition does not affect enqueues already held, only ENQ commands issued after the definition is added or removed are affected.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

ENQMODEL(*data-value***)**
specifies the 8-character identifier of the ENQ model that is to be discarded.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The specified ENQMODEL is not installed on this system.

DISCARD FILE

Remove a FILE definition.

DISCARD FILE

Conditions: FILENOTFOUND, INVREQ, NOTAUTH

Description

The DISCARD FILE command removes the definition of a file from the local CICS system, so that the system no longer has access to the file; that is, it revokes the earlier installation of a FILE resource definition of the same name.

A file must be closed and disabled for its definition to be discarded. In addition, if the file is recoverable, it cannot be discarded until all retained locks on it are released. A lock is retained when a failure causes a unit of work which has modified the file to be “shunted” (held for later disposition, because recovery action is required before disposition can be completed).

See “Discarding resource definitions” on page 27 for general information about discards.

Options

FILE(*data-value***)**
specifies the 8-character name of the file that is to be removed.

You cannot remove the definition of a file whose name begins with the letters DFH, because such files are reserved for CICS.

Conditions

FILENOTFOUND
RESP2 values:
18 The file cannot be found.

INVREQ
RESP2 values:
2 The file is not closed.
3 The file is not disabled.
25 The FILE definition is currently in use.
26 The file cannot be discarded because its name begins with DFH.
43 The file cannot be discarded because it has deferred work outstanding, for which there are retained locks.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

DISCARD JOURNALMODEL

Remove a journal model definition.

DISCARD JOURNALMODEL

Conditions: NOTAUTH, NOTFND

Description

The DISCARD JOURNALMODEL command makes a JOURNALMODEL definition ineligible as a model for defining journals in local CICS system. The JOURNALMODEL definition itself is not discarded or otherwise modified, nor is there any effect on existing journals defined using the model. These journals continue to use their existing definitions unless they are discarded using a DISCARD JOURNALNAME command.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

JOURNALMODEL(*data-value***)**
specifies the 8-character name of the journal model that you want to remove.

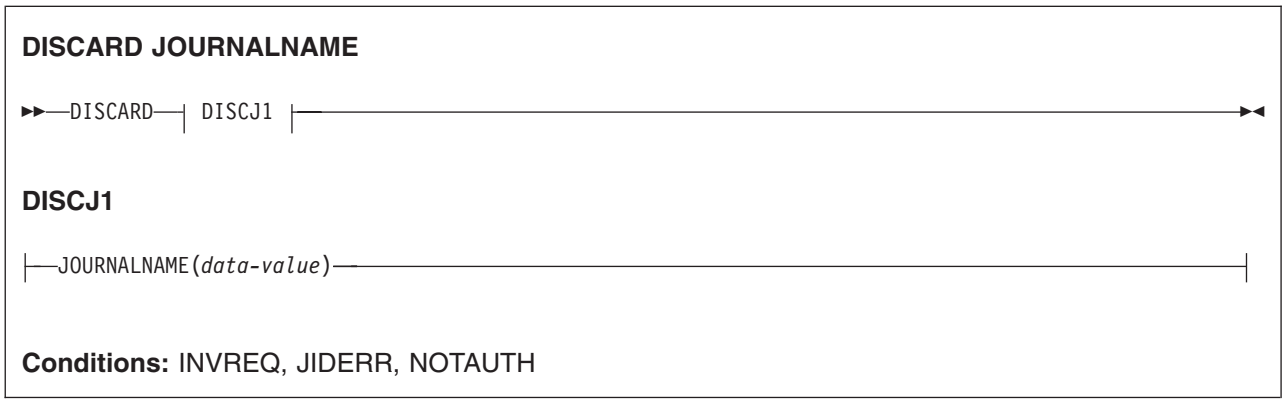
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The journal model name was not found.

DISCARD JOURNALNAME

Remove a journal name from the journal names table.



Conditions: INVREQ, JIDERR, NOTAUTH

Description

The DISCARD JOURNALNAME command removes a journal definition from the local CICS system, so that the next time the journal definition is used, it is recreated based on the current set of JOURNALMODEL definitions. Thus you can use it in conjunction with DISCARD and CREATE JOURNALMODEL commands to change the definition of a particular journal.

The command takes effect immediately for user journals, including the “log of logs” journal, and for terminal control autojournals. On the next reference to the journal following the DISCARD, a new journal definition is created using attributes from the JOURNALMODEL definition that matches best at that time.

For forward recovery and auto-journaling journals, however, the journal definition is used only when one of the files using the journal is opened. Hence the command has no effect on forward-recovery logging or auto-journaling operations for VSAM files that are open and using the journal at the time of the DISCARD. They continue to use the log stream referenced by the existing journal until the files are closed, and are not affected by the DISCARD unless the file is subsequently reopened. In addition, if the logstream identifier is present in the VSAM catalog definition for a file, as it must be for an RLS file and may be for others, the catalog value overrides the JOURNALMODEL value.

Neither component of the CICS system log, DFHLOG or DFHSHUNT, is eligible for discard.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

JOURNALNAME(*data-value***)**
specifies the 8-character name of the journal that you want to remove.

Note: To discard a journal defined with a numeric identifier specify the journal name as DFHJ*nn*, where *nn* is the two-digit journal number, in the range 01–99. (DFHJ01 is a user journal in CICS Transaction Server for OS/390, not the system log.)

Conditions

INVREQ
RESP2 values:
3 The journal specified cannot be discarded.

JIDERR
RESP2 values:
1 The journal cannot found.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

DISCARD PARTNER

Remove a PARTNER definition.

DISCARD PARTNER

Conditions: INVREQ, NOTAUTH, PARTNERIDERR

Description

The DISCARD PARTNER command removes the definition of a partner from the local CICS system, so that the system no longer has access to the partner; that is, it revokes the earlier installation of a PARTNER resource definition of the same name.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

PARTNER(*data-value***)**
specifies the 8-character name of the partner that is to be removed.

Partners whose names begin with the letters DFH are assumed to be CICS-defined partners and cannot be discarded.

Conditions

INVREQ
RESP2 values:
2 The PARTNER definition is currently in use.
3 The partner cannot be discarded because its name begins with DFH.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

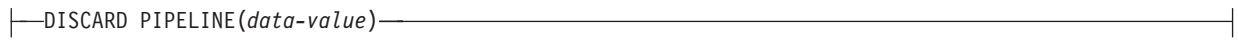
PARTNERIDERR
RESP2 values:
1 The partner cannot be found.
5 The Partner Resource Manager (PRM) is not active, because it failed to initialize during CICS initialization.

DISCARD PIPELINE

Remove a PIPELINE definition.

DISCARD PIPELINE

DISCARD PIPELINE



Conditions: INVREQ, NOTAUTH, NOTFND

Description

Use the DISCARD PIPELINE to remove an PIPELINE from your CICS region. The PIPELINE must be disabled before it can be discarded.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

PIPELINE(*data-value***)**
specifies the 8-character name of the PIPELINE whose definition is to be discarded.

Conditions

INVREQ
RESP2 values:
8 The PIPELINE cannot be discarded because it is not disabled.
22 Delete is in progress for this PIPELINE.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The PIPELINE cannot be found

DISCARD PROCESSTYPE

Remove a PROCESSTYPE definition.

DISCARD PROCESSTYPE

Conditions: INVREQ, NOTAUTH, PROCESSERR

Description

The DISCARD PROCESSTYPE command removes a CICS business transaction services (BTS) PROCESSTYPE definition from the local CICS region.

Notes:

1. Only disabled process-types can be discarded.
2. If you are using BTS in a single CICS region, you can use the DISCARD PROCESSTYPE command to remove process-types. However, if you are using BTS in a sysplex, it is strongly recommended that you use CPSM to remove them. If you don't use CPSM, problems could arise if Scheduler Services routes to this region work that requires a discarded definition.

See "Discarding resource definitions" on page 27 for general information about discards.

Options

PROCESSTYPE(*data-value***)**
specifies the 8-character name of the PROCESSTYPE that you want to remove.

Conditions

INVREQ
RESP2 values:
2 The process-type named in the PROCESSTYPE option is not disabled.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PROCESSERR
RESP2 values:
1 The process-type named in the PROCESSTYPE option is not defined in the process-type table (PTT).

DISCARD PROFILE

Remove a PROFILE definition.

DISCARD PROFILE

Conditions: INVREQ, NOTAUTH, PROFILEIDERR

Description

The DISCARD PROFILE command removes the definition of a profile from the local CICS system, so that the system no longer has access to the profile; that is, it revokes the earlier installation of a PROFILE resource definition of the same name. You cannot discard a profile while any installed TRANSACTION definitions point to it.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

PROFILE(*data-value***)**
specifies the 8-character name of the profile that is to be removed.

Profiles whose names begin with the letters DFH are assumed to be CICS-supplied profiles and cannot be discarded.

Conditions

INVREQ
RESP2 values:
2 The PROFILE definition is currently in use.
3 A TRANSACTION definition points to the profile.
4 The profile cannot be discarded because its name begins with DFH.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PROFILEIDERR
RESP2 values:
1 The profile cannot be found.

DISCARD PROGRAM

Remove the definition of a program, map set, or partition set.

DISCARD PROGRAM

Conditions: INVREQ, NOTAUTH, PGMIDERR

Description

The DISCARD PROGRAM command removes the definition of a program, map set, or partition set (a load module resource) from the local CICS system, so that the system no longer has access to the resource; that is, it revokes the earlier installation of a PROGRAM, MAPSET, or PARTITIONSET definition of the same name.

You cannot discard a module that is being executed or otherwise used by a task. Definitions supplied by CICS (modules whose name begin with DFH) and modules defined as user-replaceable (such as autoinstall programs) also are ineligible.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

PROGRAM(*data-value***)**
specifies the 8-character name of the program, map set, or partition set that is to be removed.

Conditions

INVREQ
RESP2 values:
1 The resource cannot be discarded because its name begins with DFH.
11 The resource definition is currently in use.
15 The resource cannot be discarded because it is a user-replaceable module.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

PGMIDERR
RESP2 values:
7 The resource definition cannot be found.

DISCARD REQUESTMODEL

Remove a request model definition.

Description

The DISCARD REQUESTMODEL command makes a REQUESTMODEL definition ineligible as a model for defining requests in the local CICS system. The REQUESTMODEL definition itself is not deleted or otherwise modified.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

REQUESTMODEL(*data-value***)**
specifies the 8-character name of the request model that you want to remove.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The request model name was not found.

DISCARD TCPIPSERVICE

Remove a TCPIPSERVICE definition.

DISCARD TCPIPSERVICE

Conditions: INVREQ, NOTAUTH, NOTFND

Description

The DISCARD TCPIPSERVICE command removes a TCPIPSERVICE definition from the local CICS system.

You cannot discard a TCPIPSERVICE unless it is in CLOSED status, showing that is not in use.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

TCPIPSERVICE(*data-value***)**
specifies the 8-character name of the TCPIPSERVICE that you want to remove.

Conditions

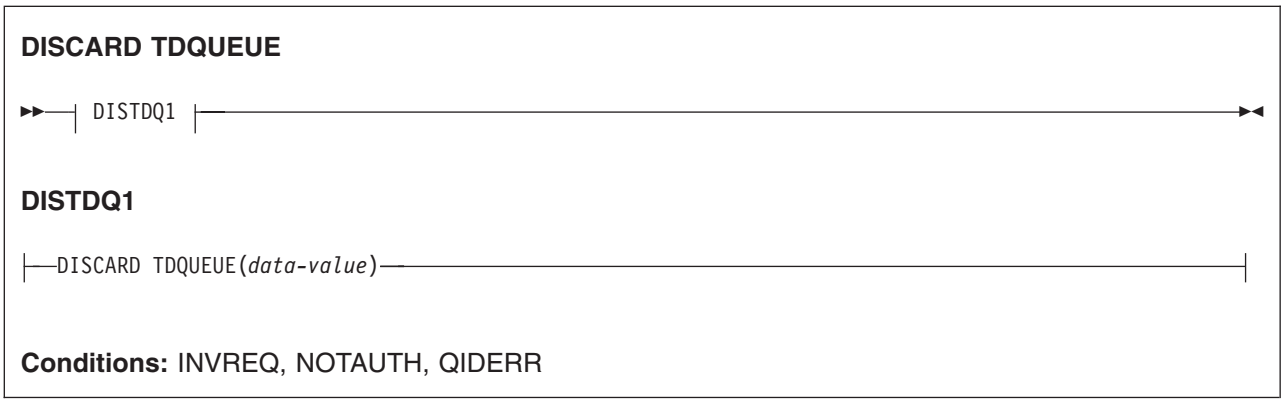
INVREQ
RESP2 values:
9 The TCPIPSERVICE is still open.
16 The TCPIPSERVICE cannot be discarded because it is referred to by an installed CORBASERVER definition.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
3 The TCPIPSERVICE name was not found.

DISCARD TDQUEUE

Remove a transient data queue definition.



Conditions: INVREQ, NOTAUTH, QIDERR

Description

The DISCARD TDQUEUE command removes the definition of a transient data queue from the local CICS system.

A queue must be disabled before it can be discarded, and an extrapartition queue must be closed as well. See “Discarding resource definitions” on page 27 for rules governing disabling of queues. Queues required by CICS (those whose names begin with the letter C) cannot be discarded.

When an intrapartition queue is discarded, an implicit DELETEQ command is executed to empty the queue and release space in the data set associated with it. If the queue is defined as logically recoverable, an implicit SYNCPOINT command follows the DELETEQ. The SYNCPOINT commits all changes to recoverable resources made up to that point in the task that issued the DISCARD TDQUEUE command. However, deletion and syncpoint take place only if the command completes successfully, without raising any exception conditions.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

TDQUEUE(*data-value***)**
specifies the 4-character name of the transient data queue that is to be removed.

Conditions

INVREQ
RESP2 values:

11 The queue name begins with the letter C.

18 The queue is not closed.

30 The queue is in “disable pending” status (that is, the disabling process is not completed).

31 The queue is not disabled.

200 The command was executed in a program defined with an

EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

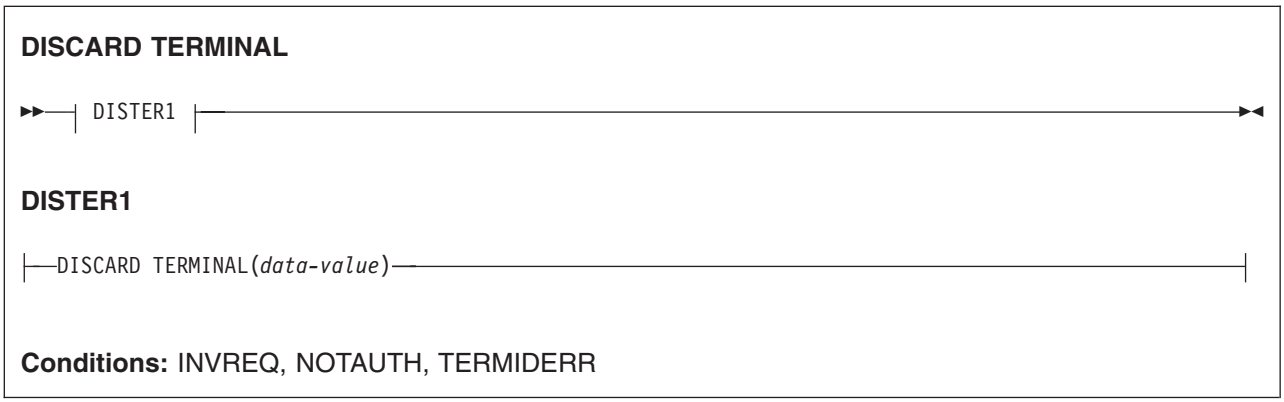
QIDERR

RESP2 values:

1 The queue cannot be found.

DISCARD TERMINAL

Remove a TERMINAL definition.



Conditions: INVREQ, NOTAUTH, TERMIDERR

Description

The DISCARD TERMINAL command removes the definition of a terminal from the local CICS system, so that the system no longer has access to the terminal; that is, it deletes a TERMINAL resource definition of the same name which was installed explicitly, installed automatically, or shipped by another CICS which routed a transaction to the local CICS.

To be eligible for discard, a terminal defined as local must be either a VTAM terminal or a console, it must be in out-of-service status, and it cannot be the CICS-defined error console CERR. A remote terminal cannot be in use by the local system (that is, it cannot be the principal facility of a task there). Sessions on a connection cannot be discarded with a DISCARD TERMINAL command, even if they were installed via a TERMINAL resource definition. You must use DISCARD CONNECTION instead.

CICS completes successful DISCARD TERMINAL processing with an implicit syncpoint on behalf of the issuing task, committing changes to recoverable resources made up to that point in the task. If the discard processing fails, CICS raises the INVREQ exception condition with a RESP2 value of 43, and does a SYNCPOINT ROLLBACK instead, rolling back changes to recoverable resources. In all other exception situations, however, discard processing is not attempted and neither SYNCPOINT nor SYNCPOINT ROLLBACK is issued.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

TERMINAL(*data-value***)**
specifies the 4-character name of the terminal whose definition is to be discarded.

Conditions

INVREQ
RESP2 values:
33 The terminal is an APPC session or device.
38 The terminal type is neither VTAM nor console.

39 The terminal is local and not out-of-service.
40 The terminal is the system error console.
41 The terminal is an MRO session.
43 Delete processing failed.
44 The terminal is remote and is in use locally.
45 The TERMINAL definition is in use.
46 Discard of this TERMINAL definition is already in progress.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

TERMIDERR

RESP2 values:

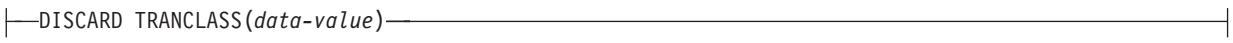
23 The terminal cannot be found

DISCARD TRANCLASS

Remove a transaction class definition.

DISCARD TRANCLASS

DIS1



Conditions: INVREQ, NOTAUTH, TCIDERR

Description

The DISCARD TRANCLASS command removes the definition of a transaction class from the local CICS system. A transaction class cannot be removed while any TRANSACTION definitions belong to it.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

TRANCLASS(*data-value***)**
specifies the 8-character name of the transaction class that is to be removed.

In earlier releases of CICS, transaction classes were numbered from 1 through 10 rather than named, as they are now, and class definitions were implicit rather than explicit. For compatibility, CICS supplies definitions for the numbered classes, named ‘DFHTCL*nn*’, where *nn* is the 2-digit class number. You can discard a numbered class by using the associated name for the TRANCLASS value (DFHTCL01 for class 1, for example).

Conditions

INVREQ
RESP2 values:
2 The TRANCLASS definition is in use.
12 The transaction class cannot be discarded because installed transactions belong to it.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TCIDERR
RESP2 values:
1 The transaction class cannot be found.

DISCARD TRANSACTION

Remove a transaction definition.

DISCARD TRANSACTION

Conditions: INVREQ, NOTAUTH, TRANSIDERR

Description

The DISCARD TRANSACTION command removes the definition of a transaction from the local CICS system. That is, it revokes the earlier installation of a TRANSACTION resource definition of the same name.

You cannot delete transactions supplied by CICS (names beginning with the letter *C*), transactions defined by the CICS system initialization table (paging transactions, for example), or transactions that are scheduled to execute at a future time or when required resources are available. Transactions already in flight are not affected; they continue to execute under the definition in force at the time they were attached.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

TRANSACTION(*data-value***)**
specifies the 4-character name of the transaction that is to be removed.

Conditions

INVREQ
RESP2 values:
4 The transaction cannot be discarded because its name begins with C.
13 The transaction is defined in the SIT.
14 The transaction is scheduled to run at a future time (in use by an interval control element).
15 The transaction is scheduled to run when required resources are available (in use by an automatic initiate descriptor).

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

TRANSIDERR
RESP2 values:
1 The transaction cannot be found.

DISCARD TSMODEL

Remove a temporary storage model definition.

DISCARD TSMODEL

Conditions: INVREQ, NOTAUTH, NOTFND

Description

The DISCARD TSMODEL command removes the definition of a temporary storage model from the local CICS system, so that the system no longer has access to the temporary storage model; that is, it revokes the earlier installation of a TSMODEL resource definition of the same name.

You can discard a TSMODEL, except those begining with DFH, at any time. In-flight UOWs which are using such TSMODELs will complete normally.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

TSMODEL(*data-value***)**
specifies the 8-character name of the temporary storage model that is to be removed. .

Conditions

INVREQ
RESP2 values:
2 The TSMODEL definition is currently in use.
3 The temporary storage model cannot be discarded because its name begins with DFH.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to discard a TSMODEL definition with this name.

NOTFND
RESP2 values:
1 The TSMODEL does not exist.

DISCARD URIMAP

Remove a URIMAP definition from the system.

DISCARD URIMAP

Conditions: INVREQ, NOTAUTH, NOTFND

This command is threadsafe.

Description

The DISCARD URIMAP command removes a URIMAP definition from the system. For a URIMAP definition to be discarded, it must be disabled individually (using the SET URIMAP command). Disabling a virtual host (using the SET HOST command) does not allow the URIMAP definitions that make up the virtual host to be discarded.

See Discarding resource definitions for general information about discards.

Options

URIMAP*(data-value)*
specifies the 8-character name of the URIMAP definition that is to be removed.

Conditions

INVREQ
RESP2 values are:

4 The URIMAP is not disabled.

200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

NOTAUTH
RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values are:

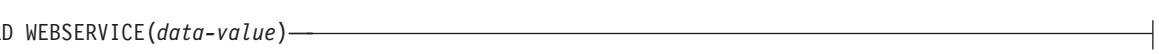
3 The URIMAP cannot be found.

DISCARD WEBSERVICE

Remove a WEBSERVICE definition.

DISCARD WEBSERVICE

DISCARD WEBSERVICE



Conditions: INVREQ, NOTAUTH, NOTFND

Description

Use the DISCARD WEBSERVICE to remove an WEBSERVICE from your CICS region. The WEBSERVICE must be disabled before it can be discarded.

See “Discarding resource definitions” on page 27 for general information about discards.

Options

WEBSERVICE(*data-value***)**
specifies the 8-character name of the WEBSERVICE whose definition is to be discarded.

Conditions

INVREQ
RESP2 values:
22 Delete is in progress for this WEBSERVICE.
200 The command was executed in a program defined with an EXECUTIONSET value of DPLSUBSET or a program invoked from a remote system by a distributed program link without the SYNCONRETURN option.

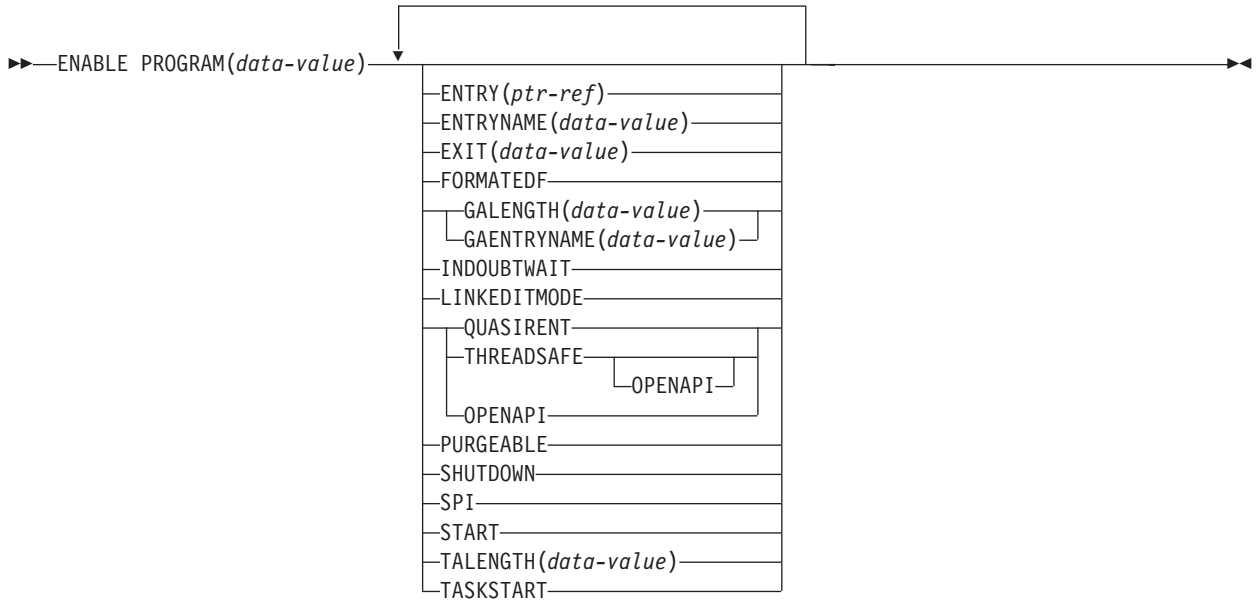
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The WEBSERVICE cannot be found

ENABLE PROGRAM

Enable a user exit to allow it to be invoked.

ENABLE PROGRAM



Conditions: INVEXITREQ, NOTAUTH

Description

The initial ENABLE PROGRAM command for an exit:

- Defines it as an exit to the executing CICS system and names it
- Sets the initial execution status (whether it is available for execution and the points at which it is executed)
- Allocates work areas
- Loads the associated load module if necessary and establishes the entry point within it for the exit.

After the initial ENABLE command that defines the exit, you can add or remove points at which the exit is executed or change its availability dynamically with ENABLE and DISABLE commands, until you disable with the EXITALL option, which deletes the definition of the exit. See the description of that command on page “DISABLE PROGRAM” on page 123 for the correspondence between options on the two commands.

For programming information about exits in CICS, see the *CICS Customization Guide*; you should also see the general discussion of commands that modify exits in “Exit-related commands” on page 28.

Options

ENTRY(*ptr-ref***)**
specifies a pointer reference that contains the entry point address of the global or task-related user exit. The address you specify must be within the virtual storage range occupied by the load module named in the PROGRAM option.

The use of the ENTRY option means that the module named in the PROGRAM option has already been loaded or is permanently resident. CICS does not attempt to load the module, and also does not delete it when the user exit is disabled with EXITALL. If you omit ENTRY, CICS uses the first entry point in the load module and manages loading and deletion for you.

ENTRY is valid only on the initial ENABLE command that defines the exit.

If you specify LINKEDITMODE for a task-related user exit, the top bit of the entry address must contain the addressing mode (AMODE) indicator. The top bit is set if the exit is AMODE=31 and is zero if AMODE=24.

ENTRYNAME(*data-value***)**
specifies the 8-character name of the global or task-related user exit that is to be enabled. This name must be different from the name of any exit already established. It does not have to be defined to CICS other than by means of this command, and it need not be the name of a load module or an entry point to a load module.

If you omit ENTRYNAME, the name of the exit defaults to the name of the load module specified in the PROGRAM option.

After the initial ENABLE command that defines the exit, you must use the same combination of ENTRYNAME and PROGRAM values to identify the exit on subsequent ENABLE, DISABLE, and EXTRACT EXIT commands.

EXIT(*data-value***) (global user exits only)**
specifies the 8-character name of a global user exit point with which this exit is to be associated. When an exit is “associated” with an exit point, it is invoked when CICS reaches that particular point in its management code, provided the exit has been “started” (made available for execution). Exit points are defined and named by CICS. For programming information about exits, and a list of exit points, see the *CICS Customization Guide*.

You can name only one exit point on each ENABLE command. If the same exit is to be invoked from multiple exit points, you need a separate ENABLE command for each point.

FORMATEDF (task-related user exits only)
specifies that the exit is to be invoked at additional points (within EDF), when the exit is invoked by a task running under EDF. The additional invocations allow the exit to format EDF displays and interpret changes made by the user to fields on the EDF screen. You can turn off EDF invocations with a DISABLE command specifying FORMATEDF.

GAENTRYNAME(*data-value***)**
specifies the 8-character name of a currently enabled global or task-related user exit whose global work area is to be shared by the exit being enabled. This is the name assigned to that exit when it was defined (its ENTRYNAME if one was used or its load module name from the PROGRAM option if not).

It must own the work area (that is, GALENGTH must have been specified when it was originally enabled). CICS does not release a work area until all of the exits using it are disabled with EXITALL (no longer defined), but the owning exit must still be enabled for a new exit to share its work area.

GALENGTH and GAENTRYNAME are mutually exclusive and must be specified on the initial ENABLE command that defines the exit. If neither option is supplied, no global work area is provided.

GALENGTH(*data-value***)**
specifies, as a halfword binary value, the length in bytes of the global work area that is to be provided by CICS for this exit. Valid lengths are 1 through 32767. The work area is initialized to binary zeros.

GALENGTH is valid only on the initial ENABLE command that defines the exit.

CICS does not return the address of the work area on the ENABLE command; you can use an EXTRACT EXIT command to determine it.

Note: Although the maximum GALENGTH that you can specify using this command at the terminal is 32767, there is no limit to the value you can request for GALENGTH if one of your programs issues the command. However, if more than 65535 is requested in this way, the request is truncated to the low order halfword of the requested amount. After any required truncation, if the value (which cannot now exceed 65535), exceeds 65516, an error response is issued for the INVEXITREQ condition.

INDOUBTWAIT (task-related user exits only)
specifies that the task-related user exit supports the in-doubt protocol. For information about the in-doubt protocol, see the *CICS Customization Guide*.

LINKEDITMODE (task-related user exits only)
specifies that the exit should be invoked in the addressing mode in which it was link-edited. If you do not specify LINKEDITMODE, it is invoked in the addressing mode of the caller. LINKEDITMODE is valid only on the initial ENABLE command that defines the exit.

You should avoid using LINKEDITMODE to force a task-related user exit to run in AMODE(24) because:

- An exit link-edited in AMODE(24) cannot be invoked from a task running with TASKDATALOC(ANY). If you attempt to do this, the task abends with CICS abend code AEZB.
- Enabling an exit for TASKSTART and LINKEDITMODE causes CICS to force all transactions to run with TASKDATALOC(BELOW) if the associated load module is link edited for AMODE(24).
- For a CICS shutdown call, CICS ignores the LINKEDITMODE attribute and invokes the exit in the addressing mode of the task that performs this shutdown function. For some types of shutdown, the addressing mode of this task is not predefined.

OPENAPI (task-related user exits only)
specifies that the task-related user exit program is using non-CICS APIs. If the user application program that invokes the task-related user exit is defined as quasi-reentrant, CICS switches the user task to an L8 mode open TCB before passing control to the task-related user exit program. CICS assumes that a task-related user exit enabled with OPENAPI does not manage its own private pool of TCBs for non-CICS services, and can perform its processing on the L8 mode TCB.

If you specify OPENAPI without THREADSAFE, CICS enforces THREADSAFE by default. A task-related user exit that specifies OPENAPI must be written to threadsafe standards.

If OPENAPI is omitted, CICS assumes that the task-related user exit is either using only the CICS API, or that it performs its own TCB switch to invoke non-CICS services.

Note: You do not explicitly enable the DB2 task-related user exit, because this is done automatically for you when you start the CICS DB2 adapter. If you are connected to DB2 Version 6 or later, the exit is enabled with OPENAPI and the adapter uses L8 mode TCBs provided by CICS. The number of open TCBs permitted for this purpose is controlled by the MAXOPENTCBS system initialization parameter (see the *CICS System Definition Guide*).

For the rules that determine which calls to a task-related user exit cause the exit to be invoked on an L8 mode TCB or the QR TCB, and for other associated information, see the *CICS Customization Guide*.

PROGRAM(*data-value***)**
specifies the 8-character name of the load module containing the entry point of the exit. CICS uses the PROGRAM resource definition of this name to load the program, if necessary, and to verify that it is enabled and resides on the same CICS system as the exit. If no such definition exists, CICS attempts to build one dynamically if the system is defined to allow autoinstall of programs.

If you omit the ENTRYNAME option, CICS assumes that the name of the exit is the same as that of the load module.

PURGEABLE (task-related user exits only)
allows tasks that have entered a CICS wait state and are active in the task-related user exit, to be purged. The task-related user exit must be written to correctly process the purged response from the wait if this option is to be used. You can turn this off with a DISABLE command specifying PURGEABLE.

QUASIRENT (task-related user exits only)
specifies that the task-related user exit program is quasi-reentrant, and relies on the serialization provided by CICS when accessing shared resources. The task-related user exit program is restricted to the CICS permitted programming interfaces, and must comply with CICS quasi-reentrancy rules. CICS always invokes a quasi-reentrant task-related user exit under the QR TCB. If the task-related user exit program uses MVS services, it must switch to its own private TCB before issuing calls to these services, and switch back again before returning to its caller.

SHUTDOWN (task-related user exits only)
specifies that the exit is to be invoked during CICS shutdown processing. You can turn off the invocation with a DISABLE command specifying SHUTDOWN.

SPI (task-related user exits only)
specifies that the task-related user exit is to be invoked if an INQUIRE EXITPROGRAM command which names it specifies the CONNECTST or QUALIFIER option, or both.

The task-related user exit program is invoked with an SPI call, allowing it to return CONNECTST and QUALIFIER information to the inquiring program. For details of RMI SPI calls, see the *CICS Customization Guide*.

START
indicates that the exit is available for execution. You can turn availability on and off with ENABLE commands (specifying START) and DISABLE commands (specifying STOP), but the exit starts out in stopped mode and is not available until the first ENABLE with START.

When a STOPped task-related user exit gets invoked, the invoking code gets an AEY9 abend code. There is no corresponding error for global user exits, however, because CICS invokes only those exits associated with an exit point which are also available for execution (not stopped).

When a single global user exit is to be associated with several exit points, the START option allows you to delay execution of the exit until all the required ENABLE commands have been issued. You can, however, associate more exit points with the exit *after* it has been started.

TALENGTH(*data-value***) (task-related user exits only)**
specifies, as a halfword binary value, the length in bytes of the work area that CICS provides for each task that uses the exit. Valid lengths are 1 through 32767. CICS allocates the work area and initializes it to binary zeros before the first use of the exit by the task, and releases it at task end. If you do not specify TALENGTH, CICS does not create task work areas.

TASKSTART (task-related user exits only)
specifies that the exit is to be invoked at the start of every task. The exit is also invoked at end of task, but you can turn off this invocation within the exit if you wish. (The task that logs off an autoinstalled terminal in an MRO environment is an exception; it does not invoke the exit.)

The TASKSTART option is independent of the START option, but you should turn on START before or at the same time as TASKSTART, to avoid invoking the exit when it is not available for execution. In addition, you must not code the TASKSTART option on any ENABLE command that can be executed before the recovery part of CICS initialization.

You can turn off these invocations with a DISABLE command specifying TASKSTART.

THREADSAFE (task-related user exits only)
specifies that the task-related user exit program is written to threadsafe standards, and takes into account the possibility that, when accessing shared resources, other programs may be executing concurrently and attempting to modify the same resources. It uses appropriate serialization techniques when accessing any shared resources.

A threadsafe task-related user exit program must be able to run under whichever TCB CICS invokes it. This could be either the QR TCB or an open TCB. (If OPENAPI is also specified, and when it is enabled, CICS will always invoke the task-related user exit under an L8 open TCB.)

Conditions

INVEXITREQ
The INVEXITREQ condition of the ENABLE command is indicated by X80 in the first byte of EIBRCODE. The exact cause of the error can be determined by examining the second and third bytes of EIBRCODE.

X808000
The load module named in the PROGRAM option has not been defined to CICS and could not be autoinstalled, or is not in the load library, or has been disabled, or is defined as remote, or does not contain the address specified in the ENTRY option.

X804000
The name specified in the EXIT option is not a valid global user exit point.

X802000
The exit is already enabled. ENTRY, LINKEDITMODE, TALENGTH, GALENGTH and GAENTRY are valid only on the initial ENABLE command that defines the exit.

X801000
The exit is already associated with the exit point specified in the EXIT option.

X800800
The exit specified in the GAENTRYNAME option is not enabled.

X800400
The exit specified in the GAENTRYNAME option does not own a work area.

X800040
The length specified in GALENGTH option exceeds the maximum allowed of 65516.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

Examples

Enabling global user exits

Example 1

```
EXEC CICS ENABLE PROGRAM('EP') ENTRYNAME('EP1')
     EXIT('XFCREQ') START
```

Example 1 defines exit EP1, tells CICS that EP1 is to be invoked from exit point XFCREQ, and makes EP1 available for execution. No global work area is obtained. CICS loads the EP module if necessary.

Example 2

```
EXEC CICS ENABLE PROGRAM('EP2') EXIT('XMNOUT')
     START ENTRY(EADDR) GALENGTH(500)
```

Example 2 defines an exit named EP2 (named by default from its load module). This module is already loaded, and the entry point for the exit is in EADDR. The exit is to be executed at exit point XMNOUT, and it is available for execution. A global work area of 500 bytes, which is to be owned by EP2, is obtained.

Example 3

```
EXEC CICS ENABLE PROGRAM('EP3') EXIT('XTDOUT')
     GAENTRYNAME('EP2')
EXEC CICS ENABLE PROGRAM('EP3') EXIT('XTDIN')
EXEC CICS ENABLE PROGRAM('EP3') EXIT('XTDREQ') START
```

The first command of Example 3 defines exit EP3; it is associated with exit point XTDOUT. CICS loads module EP3 if necessary. EP3 is to use the work area that is owned by exit EP2. (This assumes that the ENABLE command in Example 2 has already been issued.)

The second command says that EP3 is also associated with exit point XTDIN. The third command says that EP3 is associated with exit point XTDREQ, and makes the exit available for execution. EP3 is now invoked from all of these exit points, and it can use EP2's work area on any of those invocations.

Enabling task-related user exits

Example

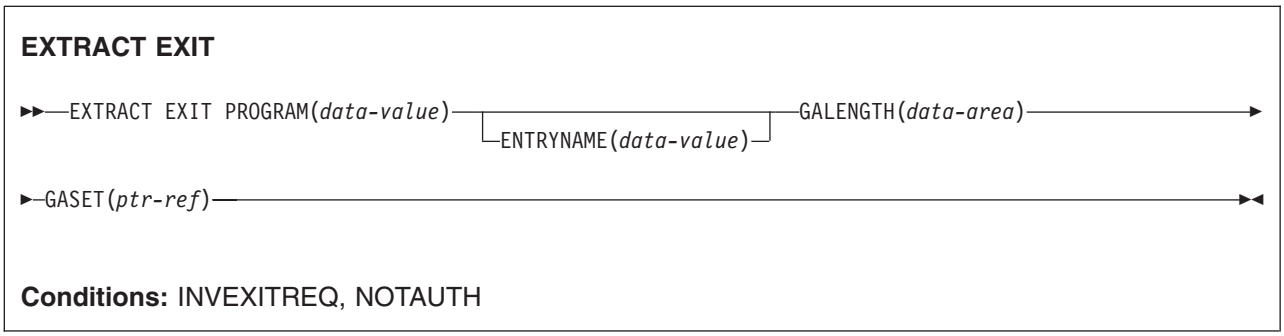
```
EXEC CICS ENABLE PROGRAM('EP9')
     TALENGTH(750) ENTRYNAME('RM1') GALENGTH(200)

EXEC CICS ENABLE PROGRAM('EP9')
     ENTRYNAME('RM1') START
```

The first command defines the task-related user exit RM1, loads EP9 (the load module executed initially) if it is not already resident, and allocates a 200-byte global work area to the exit. It also schedules the allocation of a further 750-byte work area for each task that invokes RM1. The second command makes the exit available for execution.

EXTRACT EXIT

Obtain the address and length of a global work area.



Description

The EXTRACT EXIT command obtains the address and length of the global work area that is owned by, or shared by, a user exit.

Note: To enable the migration of application programs written for earlier releases that specify DSNCEXT1 or DSN2EXT1 on the EXTRACT EXIT command to inquire on the status of the CICS-DB2 interface, CICS automatically substitutes the correct name, DFHD2EX1. CICS does this by setting argument 1 in the parameter list to address the new name, and no application program storage is altered. This allows existing application programs to work unchanged.

Options

ENTRYNAME(*data-value***)**
specifies the 8-character name of the global or task-related user exit for which you want global work area information. If you omit ENTRYNAME, CICS assumes that the name of the exit is the same as the name of the load module given in the PROGRAM option. Therefore, you must use the same combination of ENTRYNAME and PROGRAM values as was specified on the ENABLE command that defined the exit.

GALENGTH(*data-area***)**
returns the length in bytes of the global work area, in halfword binary form.

Note: If a GALENGTH greater than 32767 has been defined (see “GALENGTH for ENABLE PROGRAM” on page 159 for details), the response to this command reflects that higher value as follows:

- If you issued the EXTRACT EXIT command at your terminal, the response shows a negative value for GALENGTH.
- If you issued the EXTRACT EXIT command from a program, the high order bit of the response for GALENGTH is set. You must allow for this possibility when deciding what operation to next perform on the returned value.

GASET(*ptr-ref***)**
returns the address of the global work area.

PROGRAM(*data-value***)**
specifies the name of the load module containing the entry point of the exit. This name is also used as the name of the exit when ENTRYNAME is not specified; see the ENTRYNAME option.

Conditions

INVEXITREQ
The INVEXITREQ condition of the EXTRACT EXIT command is indicated by X80 in the first byte of EIBRCODE. The exact cause of the error can be determined by examining the second and third bytes of EIBRCODE. For further information on EIBRCODE, see Appendix B, “EXEC interface block (EIB) response and function codes,” on page 671.

X800200
The exit is not enabled.

X800400
The exit has no global work area.

X808000
The load module named in the PROGRAM option is not the same as the one used when the exit specified in the ENTRYNAME option was enabled.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

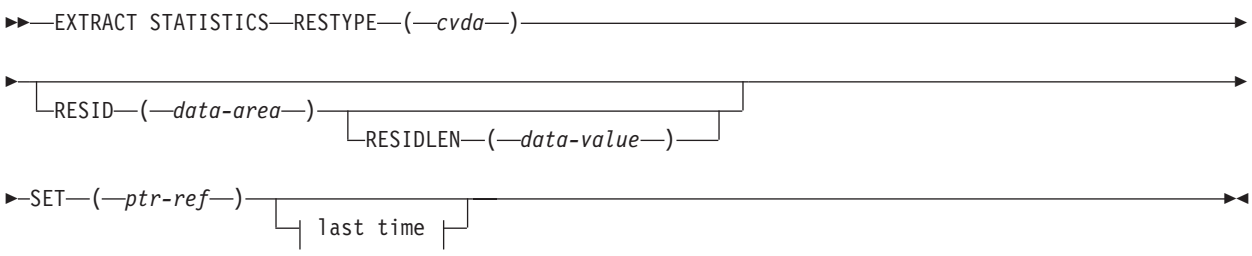
EXTRACT STATISTICS

Retrieve the current statistics for a single resource, or global statistics for a class of resources.

EXTRACT STATISTICS only deals with the URIMAP, PIPELINE, and WEBSERVICE resources, to COLLECT STATISTICS for other resources see “COLLECT STATISTICS” on page 38.

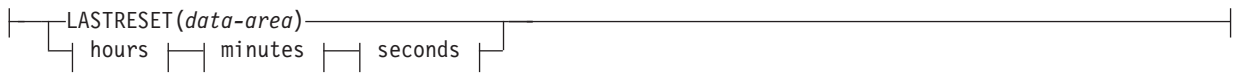
EXTRACT STATISTICS performs a function equivalent to COLLECT STATISTICS for the resources URIMAP, PIPELINE, and WEBSERVICE. These could not be provided by extending COLLECT STATISTICS due to a design limitation of that command. The syntax of EXTRACT STATISTICS is different and provides for unlimited future expansion.

Extract STATISTICS



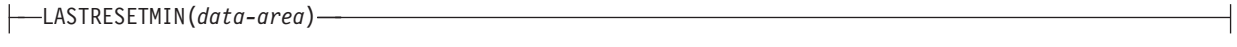
Conditions: INVREQ, IOERR, LENGERR, NOTAUTH, NOTFND

last time:



hours:

minutes:



seconds:

Description

The EXTRACT STATISTICS command returns to the invoking application the current statistics for a particular resource, or overall statistics for the resources of a given type.

The statistics that CICS gives you are those that have been accumulated after the expiry of the last statistics extraction interval, end-of-day expiry, or requested reset. (Statistics already written to the SMF data set cannot be accessed.) The EXTRACT STATISTICS command does not cause the statistics counters to be reset.

CICS obtains enough storage for the data returned from this command, and returns a pointer to this area. The first two bytes of the area contain its length. This storage can be reused by subsequent EXTRACT STATISTICS commands, so you should store elsewhere any data that is required beyond the next issue of the command. CICS releases this storage at task termination.

Table 2 contains Product-sensitive Programming Interface information. See “Programming interface information” on page 734 for an explanation of Programming Interface information.

Not all resource types provide both global and specific statistics. Table 2 tells you which statistics are available for each resource type, and gives the copybook name for each set of available statistics. The copybooks define the format of the returned statistics. Where no copybook name is given in the global statistics column, global statistics are not available for the resource type; similarly, where there is no entry in the specific statistics column, you cannot get statistics for an individual resource.

Table 2. Resource types and statistics

Resource type	CVDA	RESIDLEN	Statistic type	Global statistics	Specific statistics
PIPELINE	1124	Char(8)	PIPELINE	—	DFHPIRDS
URIMAP	1173	Char(8)	URIMAP	DFHWBGDS	DFHWBRDS
WEBSERVICE	1174	Char(32)	WEBSERVICE	—	DFHPIW DS

Copybooks are provided in ASSEMBLER, COBOL, and PL/I. (There is no copybook for C.) The names of the copybooks are the same in each language. You can find them in the following libraries:

ASSEMBLER	CICSTS31.CICS.SDFHMAC
COBOL	CICSTS31.CICS.SDFHCOB
PL/I	CICSTS31.CICS.SDFHPL1

Note: Some of the copybooks contain packed fields. Before these fields are used, they should be checked for hexadecimal zeros. The COBOL versions of the fields have been redefined as numeric with a suffix of -R for this purpose.

For further information about these copybooks, see the *CICS Performance Guide*.

Options

LASTRESET(*data-area***)**
returns a 4-byte packed decimal field giving the time at which the counters for

the requested statistics were last reset. This is usually the time of the expiry of the last interval. The last reset time is always returned in local time.

There are two formats for the reset time:

- A composite (packed decimal format 0hhmmss+), which you obtain by using the LASTRESET option.
- Separate hours, minutes, and seconds, which you obtain by specifying the LASTRESETHRS, LASTRESETMIN, and LASTRESETSEC options respectively.

LASTRESETHRS(*data-area***)**
returns a fullword binary field giving the hours component of the time at which the counters for the requested statistics were last reset (see the LASTRESET option).

LASTRESETMIN(*data-area***)**
returns a fullword binary field giving the minutes component of the time at which the counters for the requested statistics were last reset (see the LASTRESET option).

LASTRESETSEC(*data-area***)**
returns a fullword binary field giving the seconds component of the time at which the counters for the requested statistics were last reset (see the LASTRESET option).

RESTYPE(*cvda***)**
requests statistics for a particular resource type depending on the cvda supplied. Valid CVDA values are:

PIPELINE requests statistics for a PIPELINE; RESID identifies the particular PIPELINE.

URIMAP requests statistics for a URIMAP; RESID identifies the particular URIMAP.

WEBSERVICE
requests statistics for a WEBSERVICE; RESID identifies the particular WEBSERVICE.

RESID(*data-area***)**
specifies the name of the resource for which statistics are being extracted. The absence of this keyword means that global statistics are to be extracted.

RESIDLEN(*data-value***)**
specifies the length of the RESID data area. If omitted, the default value is the length given in Table 2 on page 167.

SET(*ptr-ref***)**
specifies a pointer reference to be set to the address of the data area containing the returned statistics. The first 2 bytes of the data area contain the length of the data area in halfword binary form.

Conditions

INVREQ
RESP2 values:

5 An invalid RESTYPE has been specified. Valid types are the cvda values listed in Table 2 on page 167.

6 A mandatory RESID has NOT been specified for the requested RESTYPE.

IOERR
RESP2 values:
3 The requested statistics area was not functioning. This happens if, for instance, statistics control blocks are overwritten.

LENGERR
RESP2 values:
7 An invalid RESIDLEN was supplied for the requested RESID.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

NOTFND
RESP2 values:
1 The requested resource cannot be found (for example, if the WEBSERVICE you specify is not known to CICS).

Examples

e.g.

```
EXEC CICS EXTRACT STATISTICS URIMAP
or
EXEC CICS EXTRACT STATISTICS RESTYPE(1173)
or
EXEC CICS EXTRACT STATISTICS RESTYPE(DFHVALUE(URIMAP))
```

CICS provides a sample EXTRACT STATISTICS application (DFH0STAT) that makes use of virtually all the options described in this section. This set of programs illustrates ways of using the EXTRACT STATISTICS and INQUIRE commands of CICS Transaction Server for z/OS to produce information about a CICS system. The reports include a CICS and MVS storage analysis that can be used as an aid to specifying the DSA LIMIT parameters.

See the *CICS Performance Guide* for information on installing and operating the DFH0STAT application. The source code for the application can be found in CICSTS31.CICS.SDFHSAMP.

INQUIRE AUTINSTMODEL

Find out whether an autoinstall model is installed.

INQUIRE AUTINSTMODEL

Conditions: END, ILLOGIC, MODELIDERR, NOTAUTH

Description

The INQUIRE AUTINSTMODEL command allows you to determine whether a particular autoinstall model is installed (defined in the current execution of your CICS system).

Browsing

You can also browse through all of the autoinstall models installed in your system by using the browse options (START, NEXT, and END) on INQUIRE AUTOINSTALL commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

AUTINSTMODEL(*data-value***)**
specifies the 8-character identifier of the autoinstall model about which you are inquiring.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

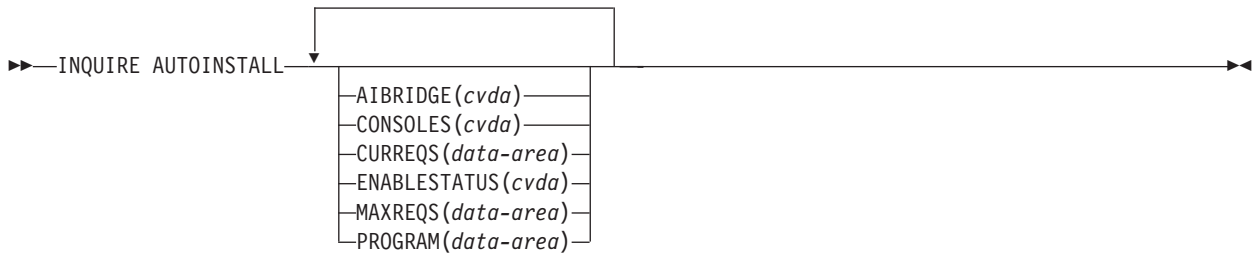
MODELIDERR
RESP2 values:
1 The model specified cannot be found.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE AUTOINSTALL

Retrieve autoinstall values.

INQUIRE AUTOINSTALL



Conditions: NOTAUTH

Description

The INQUIRE AUTOINSTALL returns information relating to the automatic installation (autoinstall) of VTAM terminals, APPC sessions, virtual terminals (bridge facilities) used by the 3270 bridge mechanism, and MVS consoles in your CICS system.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Options

AIBRIDGE(*cvda***)**
returns a CVDA value indicating whether the autoinstall user replaceable program (URM) is called for bridge facilities. The CVDA values are:

AUTOTERMID
Bridge facilities are defined automatically by CICS. The autoinstall user replaceable program is not called.

URMTERMID
The autoinstall user replaceable program is called.

CONSOLES(*cvda***)**
returns a CVDA value indicating the status of console autoinstall in CICS. The CVDA values are:

PROGAUTO
Consoles can be autoinstalled if ENABLESTATUS returns a CVDA of ENABLED. The autoinstall control program is called for the install and delete functions.

FULLAUTO
Consoles can be autoinstalled if ENABLESTATUS returns a CVDA of ENABLED. The autoinstall control program is not called for the install and delete functions, and CICS generates the terminal identifier automatically for the consoles it autoinstalls.

NOAUTO
Consoles cannot be autoinstalled.

CURREQS(*data-area***)**
returns a fullword binary field indicating the number of terminal autoinstall requests that are currently being processed. This count does not include terminals already installed in this manner.

ENABLESTATUS(*cvda***)**
returns a CVDA value indicating the overall status of the CICS autoinstall facility. CVDA values are:

DISABLED
Neither consoles nor terminals can be autoinstalled in CICS. DISABLED is returned for the following conditions:

Terminals
MAXREQS equal 0, or the autoinstall control program is disabled.

Consoles
1. CONSOLES CVDA returns NOAUTO.
2. CONSOLES CVDA returns PROGAUTO but autoinstall control program is disabled.

ENABLED
Either consoles or terminals or both can be autoinstalled in CICS. If you want to check whether ENABLED applies to consoles, terminals, or both, check the values returned on other options. ENABLED is returned for the following conditions:

Terminals
MAXREQS not equal 0 and autoinstall control program is enabled.

Consoles
1. CONSOLES CVDA returns FULLAUTO.
2. CONSOLES CVDA returns PROGAUTO and autoinstall control program is enabled.

MAXREQS(*data-area***)**
returns a fullword binary field indicating the largest number of autoinstall requests that can be processed concurrently. Note that this value has no effect on the total number of terminals that can be installed automatically. (The MAXREQS option corresponds to the AIQMAX system initialization parameter.)

PROGRAM(*data-area***)**
returns the 8-character name of the installation-supplied program used in the autoinstall process. This is either the CICS-supplied default autoinstall program, DFHZATDX, or a user-written program.

Conditions

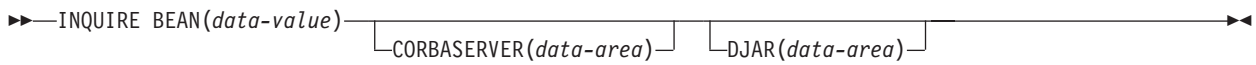
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

INQUIRE BEAN

Retrieve information about an installed enterprise bean.

INQUIRE BEAN



Conditions: END, NOTAUTH , NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

INQUIRE BEAN retrieves the CorbaServer and DJAR names associated with an installed enterprise bean.

Browsing

You can also browse through all of the enterprise beans installed in your system by using the browse options (START, NEXT, and END) on INQUIRE BEAN commands.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

BEAN(*data-value***)**
specifies the name of the enterprise bean.

CORBASERVER(*data-area***)**
specifies a 4-character area to receive the name of the associated CorbaServer.

DJAR(*data-area***)**
specifies a 32-character area to receive the name of the deployed JAR file that contains the bean.

Conditions

END
RESP2 values:
2 There are no more beans to browse.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The BEAN was not found

Examples

```
EXEC CICS INQUIRE BEAN(*)
EXEC CICS INQUIRE BEAN(*) CORBASERVER(CORB)
EXEC CICS INQUIRE BEAN(*) DJAR(CART)
EXEC CICS INQUIRE BEAN(MyBean) CORBASERVER(CORB)
```

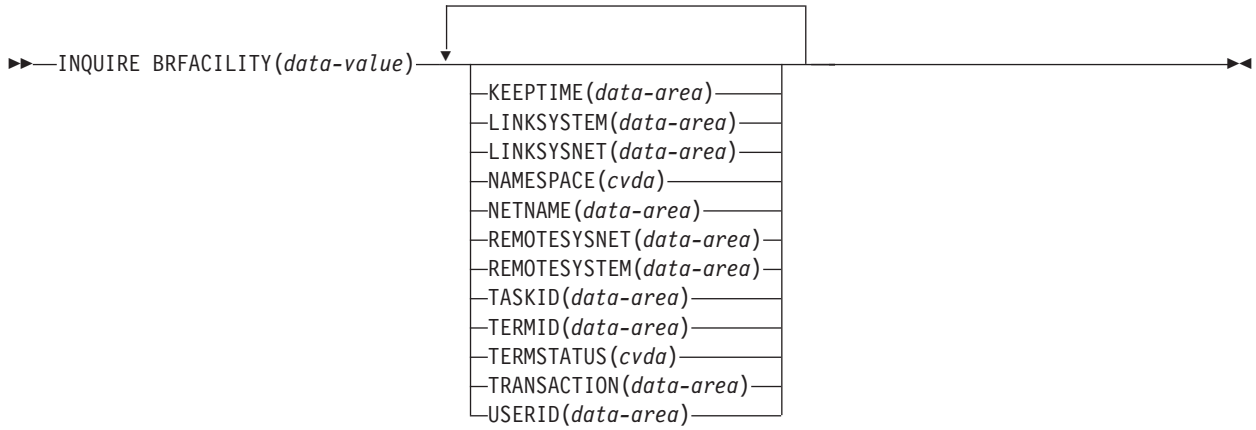
In these examples, CICS displays information about:

1. All installed beans
2. All beans installed in CorbaServer CORB
3. All beans installed from DJAR CART
4. Installed bean `MyBean` in CorbaServer CORB.

INQUIRE BRFACILITY

Retrieve information about a virtual terminal (bridge facility) used by the 3270 bridge mechanism.

INQUIRE BRFACILITY



Conditions: END, ILLOGIC, NOTAUTH, NOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE BRFACILITY command returns information about a bridge facility. This is a virtual terminal used by the 3270 bridge mechanism to simulate a real 3270 when running a CICS 3270 application in a bridged environment. You can use this command in any application running in the Link3270 bridge program or AOR region where the bridge facility was created, to retrieve information about any active bridge facility, even if it is not your principal facility.

Browsing

You can also browse through the bridge facilities installed in your system by using the browse options (START, NEXT, and END) on INQUIRE BRFACILITY commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

BRFACILITY(*data-value***)**
specifies the 8-byte facility token of the bridge facility about which you are inquiring.

KEEPTIME(*data-area***)**
returns a full word binary field showing the length of time (in seconds) that the bridge facility is kept if inactive.

- If the bridge facility being displayed is a Link-Bridge, this value is:
  - the keeptime specified when the facility was allocated,

– or a default value of 5 minutes if no keeptime was specified,

if the keeptime, so determined, is larger than the value of SIT
BRMAXKEEPTIME, it is reduced to BRMAXKEEPTIME.

• If the facility being displayed is a Web-Bridge, the keeptime is initially set to
be the Webdelay terminal keep time (the second part of the WEBDELAY SIT
parameter).

LINKSYSNET(*data-area***)**
returns the 8-byte applid of the AOR if the Link3270 bridge request is routed to another region. If the request is processed in the same region as the Link3270 bridge program, then this field is blank. This field may change if dynamic transaction routing makes more than one attempt at running the first transaction in a Link3270 session. This field is only set in the Link3270 bridge program region.

LINKSYSTEM(*data-area***)**
returns the 4-byte sysid of the AOR if the Link3270 bridge request is routed to another region. If the request is processed in the same region as the Link3270 bridge program, then this field is blank. This field may change if dynamic transaction routing makes more than one attempt at running the first transaction in a Link3270 session. This field is only set in the Link3270 bridge program region.

NAMESPACE(*cvda***)**
returns a CVDA value indicating the scope of the name space used to allocate bridge facility names. CVDA values are:

LOCAL
The bridge facility was allocated by the START BREXIT bridge mechanism, so its name is unique only in the local region where it is created.

SHARED
The bridge facility was allocated by the Link3270 bridge mechanism, so its name is unique across all CICS Link3270 bridge regions in the CICSplex who have access to a shared DFHBRNSF namespace file.

NETNAME(*data-area***)**
specifies the 8-byte virtual netname name of the bridge facility about which you are inquiring.

REMOTESYSNET(*data-area***)**
returns an 8–byte field giving the applid of the router. This field is only set in the AOR region. It is blank if the AOR is the router region.

REMOTESYSTEM(*data-area***)**
returns a 4-byte giving the sysid of the router. This field is only set in the AOR region. It is blank if the AOR is the router region.

TASKID(*data-area***)**
returns a full word binary field showing the number of the task running the user transaction. This field is only set in the AOR. This field is zero the bridge facility is currently not in use.

TERMID(*data-area***)**
specifies the 4-byte virtual terminal name of the bridge facility about which you are inquiring.

TERMSTATUS(*cvda***)**
returns a CVDA value indicating the status of the bridge facility. CVDA values are:

ACQUIRED
The bridge facility is currently in use.

AVAILABLE
The bridge facility is not in use. It can be reused by the client.

RELEASED
SET BRFACILITY RELEASED has been issued for the bridge facility. It will be deleted on the next cleanup cycle.

TRANSACTION(*data-area***)**
returns a 4–byte field giving the name of the user transaction being run by the 3270 bridge, as known in the current region. This is blank if the bridge facility is currently not in use.

USERID(*data-area***)**
returns an 8–byte field giving the userid associated with this bridge facility.

Conditions

END
RESP2 values:
1 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

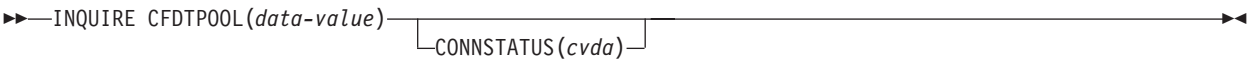
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFOUND
RESP2 values:
1 The specified bridge facility cannot be found.

INQUIRE CFDTPOOL

Retrieve information about a coupling facility data table pool.

INQUIRE CFDTPOOL



Conditions: END, ILLOGIC, NOTAUTH, POOLERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE CFDTPOOL command returns the status of the connection of the local CICS region to a coupling facility data table pool.

Browsing

You can also browse through all the coupling facility data table pool names that a CICS region has installed, using the browse options (START, NEXT, and END) on INQUIRE CFDTPOOL commands. CICS implicitly installs coupling facility data table pool names from file definitions that specify a coupling facility data table pool name, even if the definition specifies TABLE(NO). See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

CFDTPOOL(*data-value***)**
specifies the 8-character name of the coupling facility data table pool about which you are inquiring.

CONNSTATUS(*cvda***)**
returns a CVDA value indicating whether CICS is connected to the specified pool.

CVDA values are:

CONNECTED
The server for the coupling facility data table pool is available in this MVS image, and this CICS is currently connected to it.

UNCONNECTED
The server for the coupling facility data table pool is available in this MVS image, but this CICS is not currently connected to it.

UNAVAILABLE
The server for the coupling facility data table pool is currently unavailable in this MVS image.

Conditions

END
RESP2 values:

2 There are no more coupling facility data table pools to browse.

ILLOGIC

RESP2 values:

1 You have issued a START command when a browse of CFDTPOOLs is already in progress, or you have issued a NEXT or an END command when a browse of CFDTPOOLs is not in progress.

NOTAUTH

RESP2 values:

100 The user associated with the task issuing the command is not authorized to use this command.

POOLERR

RESP2 values:

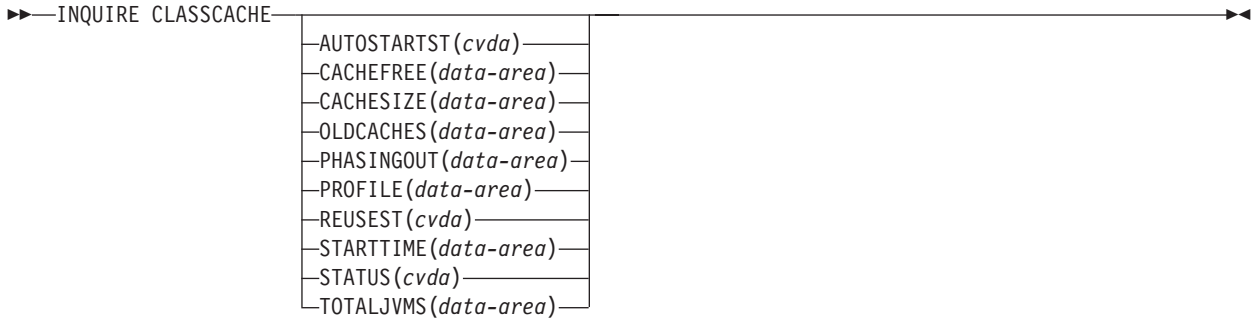
1 The named CFDT pool was not found. Either CICS has not installed any file definitions that specify the named coupling facility data table pool, or the name is specified incorrectly on the command.

2 An internal control structure that CICS uses to maintain access to CFDT pools has been altered while the set of pools known to CICS was being browsed.

INQUIRE CLASSCACHE

Retrieve information about the shared class cache in the CICS region, and report the presence of any old shared class caches that are awaiting deletion.

INQUIRE CLASSCACHE



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE CLASSCACHE command returns information about the shared class cache in the CICS region. There can be only one active shared class cache in a CICS region, therefore no name or identifier is required on this command.

Options

AUTOSTARTST(*cvda***)**
returns a CVDA value indicating the status of autostart for the shared class cache. CVDA values are:

ENABLED
If the shared class cache has been stopped by an explicit command or has not yet been started on this CICS execution, the shared class cache is started as soon as CICS receives a request to run a Java application in a JVM whose profile requires the use of the shared class cache.

DISABLED
If the shared class cache has been stopped by an explicit command or has not yet been started on this CICS execution, an explicit EXEC CICS PERFORM CLASSCACHE INITIALIZE(START) command (or the equivalent CEMT command) is required to start it. If the status of the shared class cache is STOPPED and autostart is disabled, and CICS receives a request to run a Java application in a JVM whose profile requires the use of the shared class cache, the request fails.

CACHEFREE(*data-area***)**
returns a doubleword binary value representing the amount of free space in the shared class cache, in bytes.

CACHESIZE(*data-area***)**
returns a doubleword binary value representing the size of the shared class cache, in bytes. If the status of the shared class cache is STOPPED, this option returns the size that will be used by default when the shared class cache is started. If the status of the shared class cache is STARTING or STARTED, this option returns the size of the current shared class cache. If the status of the shared class cache is RELOADING, this option returns the size of the new shared class cache that is being loaded.

OLDCACHES(*data-area***)**
returns a fullword binary value giving the number of old shared class caches that are still present in the region because they are waiting for worker JVMs that are dependent on them to be phased out. If the status of the current shared class cache is STOPPED, and worker JVMs are still dependent on it, then that shared class cache is included in the number of old shared class caches.

PHASINGOUT(*data-area***)**
returns a fullword binary value giving the number of worker JVMs that are dependent on an old shared class cache, and are being phased out. If the status of the current shared class cache is STOPPED, then any worker JVMs that are still dependent on it are included in the number of worker JVMs being phased out.

PROFILE(*data-area***)**
If the status of the shared class cache is STOPPED, this option returns the eight-character name of the JVM profile that will be used for a master JVM to start the shared class cache. If the status of the shared class cache is STARTED, STARTING or RELOADING, this displays the eight-character name of the JVM profile that was used for the last valid request to start or reload the shared class cache. This name is displayed even if the shared class cache fails to start or reload. The displayed JVM profile is used next time you issue the command to start or reload the shared class cache, unless you specify a different JVM profile using the PROFILE option.

REUSEST(*cvda***)**
returns a CVDA value indicating the level of reusability for the master JVM that initializes the shared class cache. All the worker JVMs in a CICS region inherit their level of reusability from the master JVM. CVDA values are:

RESET
The master JVM and worker JVMs are resettable.

REUSE
The master JVM and worker JVMs are continuous.

UNKNOWN
The level of reusability for the master JVM and worker JVMs is not known, because the shared class cache is not started.

STARTTIME(*data-area***)**
returns the time when the current shared class cache was started. The time is in ABSTIME format, which is an 8–byte packed decimal field containing the time since 00:00 hours on 1 January 1900 (in milliseconds rounded to the nearest hundredth of a second). You can convert this absolute date and time to an alternative format by using the FORMATTIME command.

STATUS(*cvda***)**
returns the status of the current shared class cache. CVDA values are:

STARTING
The shared class cache is being initialized. If autostart is enabled, the shared class cache is starting either because CICS received a request to run a Java application in a JVM whose profile requires the use of the shared class cache, or because an explicit EXEC CICS PERFORM CLASSCACHE INITIALIZE(START) command (or the equivalent CEMT command) was issued. If autostart is disabled, the shared class cache is starting because an explicit EXEC CICS PERFORM CLASSCACHE INITIALIZE(START) command (or the equivalent CEMT command) was issued. Worker JVMs that require the use of the shared class cache must wait until the startup process is complete and the shared class cache is ready. If initialization of the shared class cache is unsuccessful, any waiting requests for worker JVMs fail.

STARTED
The shared class cache is ready, and it can be used by worker JVMs.

RELOADING
An EXEC CICS PERFORM CLASSCACHE INITIALIZE(RELOAD) command (or the equivalent CEMT command) has been issued, and a new shared class cache is being loaded to replace the existing shared class cache. Worker JVMs, both those that were already allocated to tasks and those that were allocated to tasks after the command was issued, continue to use the existing shared class cache until the new shared class cache is ready.

STOPPED
The shared class cache has either not been initialized on this CICS execution, or it has been stopped by an EXEC CICS PERFORM CLASSCACHE TERMINATE command or an EXEC CICS SET JVMPOOL TERMINATE command (or the equivalent CEMT commands). If autostart is disabled, requests to run a Java application in a JVM whose profile requires the use of the shared class cache (that is, requests for worker JVMs) will fail. If autostart is enabled, a new shared class cache will be initialized as soon as CICS receives a request to run a Java application in a JVM whose profile requires the use of the shared class cache.

TOTALJVMS(*data-area***)**
returns a fullword binary value giving the number of worker JVMs in the CICS region that are dependent on a shared class cache. This includes both the worker JVMs that are dependent on the current shared class cache, and any worker JVMs that are dependent on an old shared class cache and are being phased out.

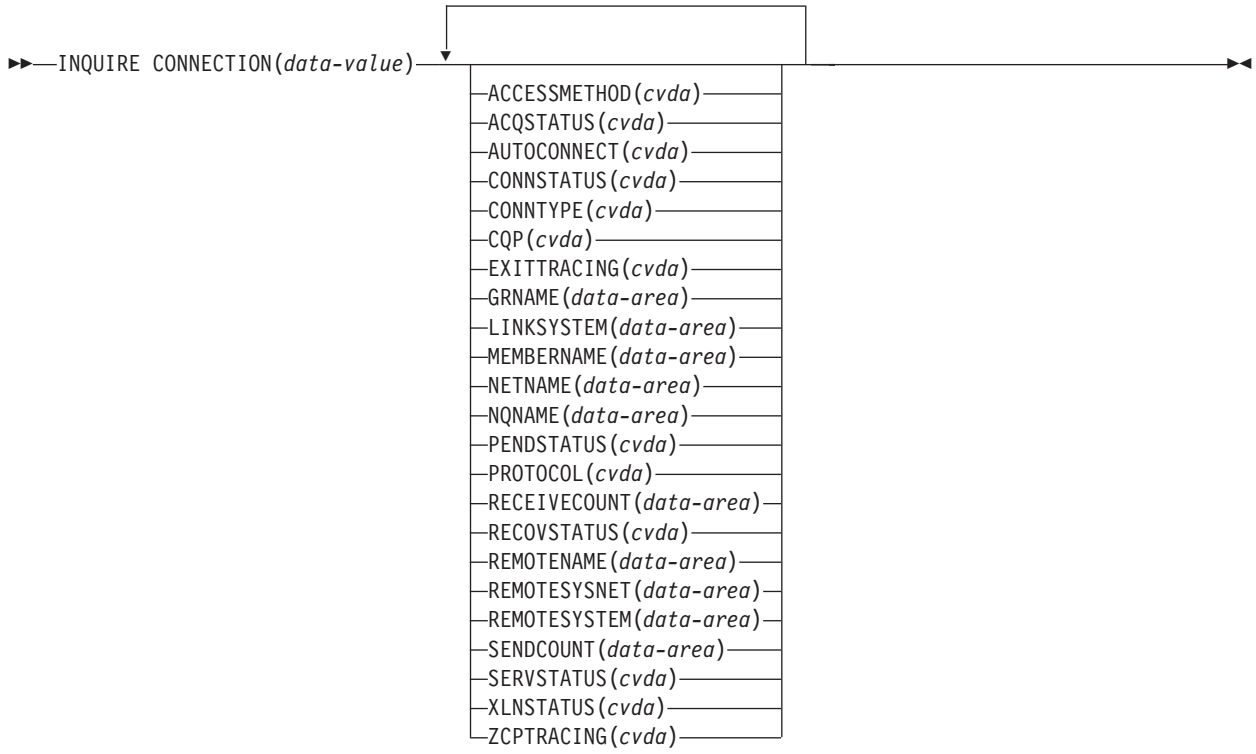
Conditions

NOTAUTH
RESP2 value:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE CONNECTION

Retrieve information about a system connection.

INQUIRE CONNECTION



Conditions: END, ILLOGIC, NOTAUTH, SYSIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE CONNECTION command retrieves information about a connection from your local CICS region to another CICS region or another system. A CONNECTION definition is sometimes known as a “system entry”.

There are two main types of system connection:

- Multiregion operation (MRO), which uses the CICS interregion communication program (DFHIRP) to establish a connection between two MRO partners. An MRO connection can exist between two CICS regions on the same MVS image or within the same MVS/ESA sysplex.

  A special form of MRO connection, used by the external CICS interface (EXCI), can exist between a CICS region and a non-CICS client program running in MVS, for example an MVS batch or TSO program. An EXCI connection connects the client program to a CICS region running in the same MVS image or within the same MVS/ESA sysplex.

- Intersystem communication (ISC) connections, between CICS and any other system which supports VTAM APPC or LUTYPE6.1 communications. For example, ISC connections can exist between CICS regions running in different MVS/ESA sysplexes or on different operating system platforms, between CICS and any APPC device, and between CICS and IMS.

Remote connections

In addition to links to other systems or devices, some connection definitions refer to remote connections. A remote connection is a link to another system or device that is actually owned by another CICS system. The owning system is called the terminal-owning region (TOR). Note that different connections may have different TORs. TOR here refers to the owning system for a particular connection.

The way that the local system is connected to the TOR makes a difference to the way in which the REMOTESYSTEM and REMOTESYSNET options of the remote CONNECTION definition are specified.

If the TOR is **directly** connected to the local system, the REMOTESYSTEM option usually names the CONNECTION definition for the link. (It can name an indirect connection, but that is an unusual setup). In this case, the netname of the TOR is specified in the link CONNECTION definition. The REMOTESYSNET option of the remote CONNECTION definition may or may not specify the netname of the TOR.

If a remote connection is on a system that is **not directly linked** to the TOR, the REMOTESYSTEM option can name one of two types of connection, as follows:

- A “real” connection that is the next link in the chain towards the TOR. In this case, the REMOTESYSNET option must specify the netname of the TOR. For example, in Figure 1 on page 186, connection CON2 points to connection INTS, which is the first link in the chain to the TOR.
- An indirect connection. In this case, the indirect connection NETNAME contains the netname of the TOR, and its INDSYS option names another connection, which can also be indirect or “real”. For example, in Figure 1 on page 186, connection CON1 points to connection INDC, which in turn points to INTS. The REMOTESYSNET option of the remote CONNECTION definition may or may not specify the netname of the TOR.

Note, however, that for remote connection definitions:

- The LINKSYSTEM option of INQUIRE CONNECTION returns the “real” connection that is the next link towards the TOR. It is determined by looking at the logical chain of entries from the connection in question to the “real” connection entry. If the chain is broken (because an entry has not been installed yet, or has been discarded) LINKSYSTEM is not set.
- The REMOTESYSNET option of INQUIRE CONNECTION always returns the netname of the TOR (even if the REMOTESYSNET option was not specified on the original CONNECTION definition), unless both the following are true:
  - The system returned in the REMOTESYSTEM field has not been installed.
  - REMOTESYSNET was not specified on the CONNECTION definition.

Example of Remote definitions

An application-owning region (AOR) has direct links to an intermediate system, CONNECTION(INTS) NETNAME(SYSI) to CONNECTION(AOR) NETNAME(AOR1); and also to terminal-owning regions (TORs), CONNECTION(TORB) NETNAME(TOR2) to CONNECTION(AOR) NETNAME(AOR1).

The AOR, APPLID=AOR1, has remote connection definitions, CONNECTION(CON1) NETNAME(NETCON1) REMOTESYSTEM(INDC) REMOTESYSNET() and links by indirect link to CONNECTION(INDC) NETNAME(TOR1) INDSYS(INTS); and then links by direct links to the intermediate system, CONNECTION(INTS) NETNAME(SYSI) to CONNECTION(AOR) NETNAME(AOR1). The AOR also has remote terminal definition, TERMINAL(TER1) NETNAME(NETTER1) REMOTESYSTEM(TORB) REMOTESYSNET() that has direct links to the TORs, CONNECTION(TORB) NETNAME(TOR2) to CONNECTION(AOR) NETNAME(AOR1).

The intermediate system has direct links to the TORs, CONNECTION(TORA) NETNAME(TOR1) to CONNECTION(INTS) NETNAME(SYSI).

The TORs have local connection definitions, CONNECTION(CON1) NETNAME(NETCON1), and local terminal definition, TERMINAL(TER1) NETNAME(NETTER1).

The following diagram illustrates a graphical representation of the example above.

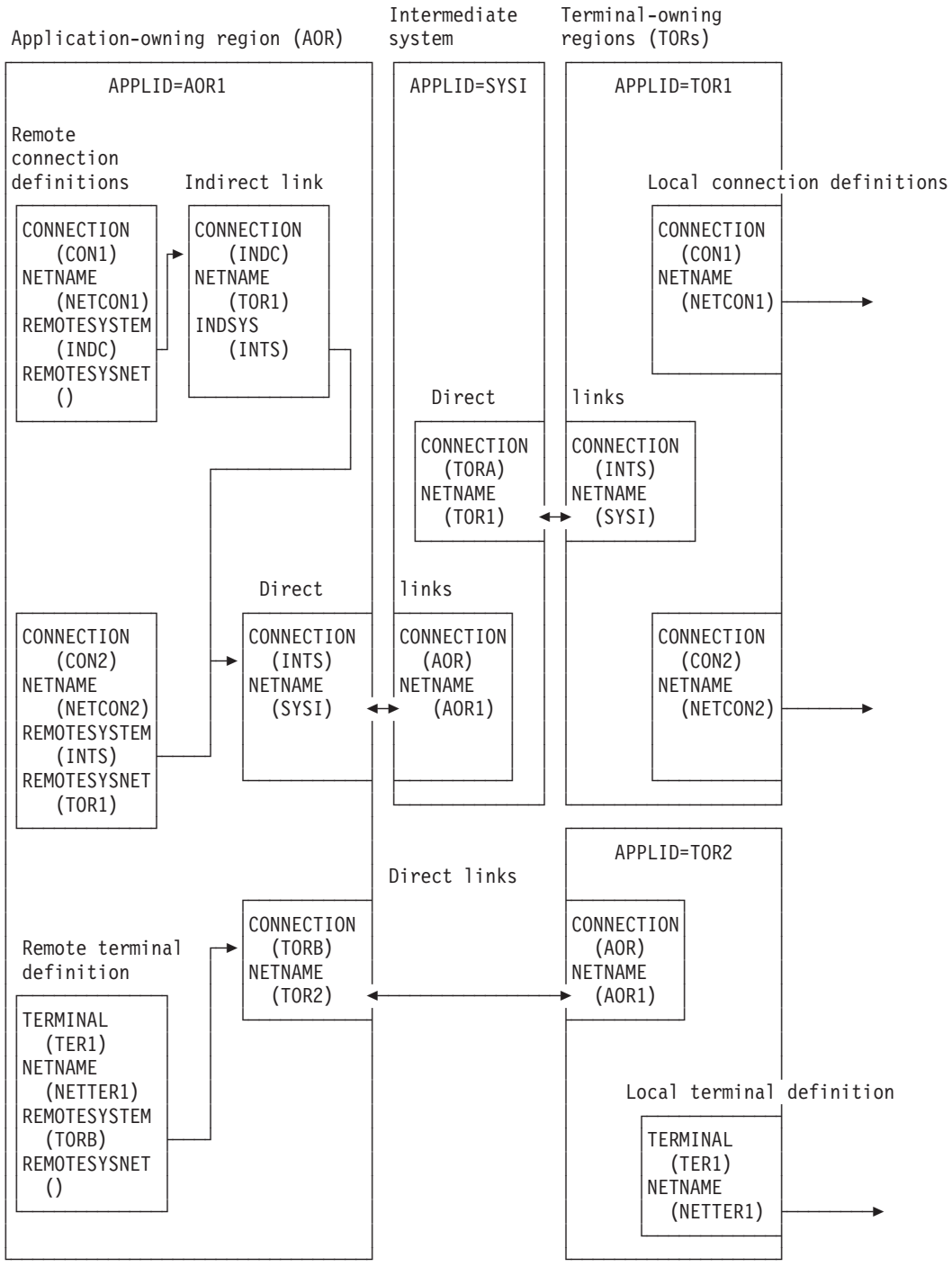


Figure 1. Remote definitions. How the REMOTESYSTEM and REMOTESYSNET options of the CONNECTION definition are specified depends on the path to the TOR. The LINKSYSTEM field of INQUIRE CONNECTION always returns the real link sysid. The REMOTESYSNET field of INQUIRE CONNECTION always returns the netname of the TOR, if it exists.

Browsing

You can also browse through all of the CONNECTION definitions installed in your system by using the browse options (START, NEXT, and END) on INQUIRE

CONNECTION commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACCESSMETHOD(*cvda***)**
returns a CVDA value indicating the type of connection between the local system and the one you are inquiring about. CVDA values are:

INDIRECT
Communication between the local CICS system and the system defined by this connection is through the system named in the INDSYS operand of the CONNECTION definition.

IRC The connection is used for multiregion operation (MRO), and has been defined to use DFHIRP for communication. If the CONNSTATUS is ACQUIRED, the MRO partner is running on the same MVS image. If the CONNSTATUS is RELEASED, the MRO partner may not be on the same MVS image; if it is not, the XCF access method is used when the connection becomes ACQUIRED.

VTAM The connection is used for intersystem communication (ISC).

XCF The connection is used for multiregion operation (MRO), and communication uses the cross-system coupling facility (XCF) of MVS/ESA. XCF is used for MRO links between CICS regions on different MVS images within an MVS sysplex. It is selected dynamically by CICS for such links when the access method is defined as IRC or XM in the CONNECTION definition.

XM The connection is used for multiregion operation (MRO) and has been defined to use MVS cross-memory (XM) services for communication. If the CONNSTATUS is ACQUIRED, the MRO partner is running on the same MVS image. If the CONNSTATUS is RELEASED, the MRO partner may not be on the same MVS image; if it is not, the XCF access method is used when the connection becomes ACQUIRED.

ACQSTATUS(*cvda***) (APPC only)**
returns the same value as the CONNSTATUS option and is retained only for compatibility purposes. You should use CONNSTATUS in new applications.

AUTOCONNECT(*cvda***) (VTAM only)**
returns a CVDA value identifying which AUTOCONNECT option has been specified in the CONNECTION definition. For parallel APPC connections (those with SINGLESESS(NO) specified), the AUTOCONNECT operand controls the binding of the LU services manager sessions whenever communication with VTAM is started. For single-session APPC connections and for LUTYPE6.1 connections, the AUTOCONNECT operand on the CONNECTION definition is ignored and the value returned is not meaningful. CVDA values are:

ALLCONN
AUTOCONNECT(ALL) has been specified on the CONNECTION definition. This is the same as specifying AUTOCONNECT(YES), but it can be used for consistency with the associated SESSIONS definition, which allows AUTOCONNECT(ALL).

AUTOCONN
AUTOCONNECT(YES) has been specified on the CONNECTION definition. CICS is to try to bind the LU services manager sessions.

NONAUTOCONN
AUTOCONNECT(NO) has been specified for the CONNECTION definition. CICS does not bind LU services manager sessions.

CONNECTION(*data-value***)**
specifies the 4-character identifier of the remote system or region about which you are inquiring (that is, the name assigned to its CONNECTION definition).

CONNSTATUS(*cvda***) (APPC and MRO only)**
returns a CVDA value identifying the state of the connection between CICS and the remote system. The remote system can be an APPC partner or a CICS MRO partner; CONNSTATUS is not applicable to EXCI or LU6.1 connections. The ACQUIRED and RELEASED CVDA values are common to both APPC and MRO; the others are unique to APPC. CVDA values are:

ACQUIRED
The connection is acquired. The criteria for ACQUIRED for VTAM links are:

- The partner LU has been contacted.
- The initial CHANGE-NUMBER-OF-SESSIONS (CNOS) exchange has been done.

The criteria for ACQUIRED for MRO links are:

- Both sides of the link are in service.
- Both sides of the link are successfully logged on to DFHIRP.
- A connection request by each side has been successful for at least one session, and therefore each side can send and receive data.

AVAILABLE (APPC only)
The connection is acquired but there are currently no bound sessions because they were unbound for limited resource reasons.

FREEING (APPC only)
The connection is being released.

NOTAPPLIC
The connection is not a CICS-to-CICS MRO connection or an APPC connection.

OBTAINING (APPC only)
The connection is being acquired. The connection remains in the OBTAINING state until all the criteria for ACQUIRED have been met.

RELEASED
The connection is RELEASED. Although it may also be in INSERVICE status, it is not usable.

The RELEASED status can be caused by any one of a number of general conditions:

- The remote system has not yet initialized.
- No CONNECTION definition exists on the remote system.
- The connection on the remote system has been set out of service.

In the case of a CICS-to-CICS MRO connection, the RELEASED status may also be because:

- The remote CICS region has not yet logged on to DFHIRP.
- The remote CICS region has closed interregion communication.

In the case of an APPC ISC connection, the RELEASED status may also be because:

- The remote CICS region has not yet opened its VTAM ACB.
- AUTOCONNECT(NO) has been specified on the CONNECTION or SESSIONS definition.

CONNTYPE(*cvda***) (EXCI only)**
returns a CVDA value identifying the type of external CICS interface (EXCI) sessions, or pipes, defined for this connection. This option applies only to EXCI connections. CVDA values are:

GENERIC The connection is generic. A GENERIC connection is an MRO link with many sessions to be shared by multiple users.

NOTAPPLIC The connection is not an EXCI connection.

SPECIFIC The connection is specific. A SPECIFIC connection is an MRO link with one or more sessions dedicated to a single user.

See the *CICS External Interfaces Guide* for more information about EXCI connections.

CQP(*cvda***)**
returns a CVDA indicating the status of the connection quiesce protocol for the connection. The CVDA values are:

COMPLETE
The quiesce protocol completed successfully when the connection was released. This reverts to NOTATTEMPTED if the connection is reacquired.

FAILED
The protocol failed. This can occur for one of several reasons, such as a session failure during execution of the protocol, or because the partner receiving the CQP flow has outstanding work.

NOTATTEMPTED
The connection supports the protocol, but it has not yet been invoked because the connection status is ACQUIRED.

NOTSUPPORTED
The connection does not support the quiesce protocol. This could be, for example, because the partner is a back-level CICS region that does not support the connection quiesce protocol.

EXITTRACING(*cvda***) (VTAM only)**
returns a CVDA value indicating whether the terminal exit program is tracing the sessions associated with this connection. CVDA values are:

EXITTRACE
Tracing is on.

NOEXITTRACE
Tracing is off.

NOTAPPLIC
The connection is not LU6.1 or APPC.

GRNAME(*data-area***)**
returns (for an APPC connection to a generic resource when this system is also a generic resource) the 8-character generic resource name of the connected LU. Otherwise it returns blanks. CICS assumes that the partner is a generic

resource if the two NETNAMEs sent with a BIND are different. This information may also be returned for a partner which is not a generic resource but which uses XRF.

LINKSYSTEM(*data-area***)**
returns the 4-character name of the connection that is the real link towards the TOR for a remote or indirect system entry, if it is available. It is not set if some connection definitions in the chain from the remote or indirect entry to the link system are missing.

MEMBERNAME(*data-area***)**
returns (for an APPC connection to a generic resource when this system is also a generic resource) the 8-character member name (applid) of the connected LU. Otherwise it returns blanks. CICS assumes that the partner is a generic resource if the two NETNAMEs sent with a BIND are different. This information may also be returned for a partner that is not a generic resource but which uses XRF.

NETNAME(*data-area***)**
returns the 8-character name by which the remote system is known to the network (from the NETNAME value specified in the CONNECTION definition).

For an ISC connection, the NETNAME corresponds to the VTAM APPLID of the remote system.

For a CICS-to-CICS MRO connection, the NETNAME is the name the remote system uses to log on to DFHIRP (from the APPLID option in its system initialization table (SIT)).

For a SPECIFIC EXCI connection, NETNAME is the name of the client program which is passed on the EXCI INITIALIZE_USER command; for a GENERIC EXCI connection, NETNAME is always blanks.

For an indirect connection, NETNAME corresponds to the APPLID (as specified in the SIT APPLID option) of the terminal-owning region.

NQNAME(*data-area***)**
returns the 17-character network-qualified name for any connection that received an NQNAME from VTAM at logon time.

NQNAME, which is supported for problem determination purposes only, is returned for both autoinstalled and RDO-defined resources if it has been supplied by VTAM. However, it is not catalogued for RDO-defined resources and is therefore not available on a restart until that resource logs on again.

If the resource is non-VTAM, NQNAME is blank. If the resource is a VTAM resource but has not yet received an NQNAME, CICS returns the known netname.

PENDSTATUS(*cvda***) (APPC and MRO only)**
returns a CVDA value identifying whether there are any pending units of work for this connection. CVDA values are:

NOTAPPLIC
This is not an APPC parallel-session nor a CICS-to-CICS MRO connection.

NOTPENDING
There has been no mismatch of lognames with the partner.

Note: MRO connections to pre-CICS Transaction Server for z/OS systems do not use lognames. Therefore, for these connections, PENDSTATUS always returns NOTPENDING.

PENDING

There is resynchronization work outstanding for the connection but the partner system has performed an initial start, preventing completion of the resynchronization process. (If the partner system is a CICS version earlier than CICS Transaction Server, a cold start performed on the partner system has the same effect.) You can use the SET CONNECTION NOTPENDING command to unilaterally commit or back out the units of work associated with the connection, according to their associated transaction definitions. You can also investigate the units of work individually and force them to commit or back out, in which case you must also complete the recovery activity by using a SET CONNECTION NOTPENDING command to clear the PENDING condition.

If this is an APPC connection, no new syncpoint work (that is, work involving synclevel 2 protocols) can be transmitted across it until a SET CONNECTION NOTPENDING command has been issued. This restriction does not apply to MRO connections.

If you are not concerned by the loss of synchronization caused by the initial (or cold) start of the partner, you can cause the SET CONNECTION NOTPENDING command to be issued automatically by specifying XLNACTION(FORCE) on the CONNECTION definition.

For further information about pending units of work, see the *CICS Intercommunication Guide*.

PROTOCOL(*cvda***) (VTAM and EXCI only)**
returns a CVDA value identifying the protocol in use if this is a VTAM or EXCI connection. CVDA values are:

APPC The connection uses the VTAM LUTYPE6.2 protocol for intersystem communication.

EXCI The connection uses the external CICS interface for communication between CICS and a non-CICS client program.

LU61 The connection uses the VTAM LUTYPE6.1 protocol.

NOTAPPLIC
The connection is used for CICS-to-CICS MRO communication or it is INDIRECT.

RECEIVECOUNT(*data-area***) (MRO only)**
returns a fullword binary value giving the number of RECEIVE sessions defined for this connection. This option applies only to MRO connections; for others the value returned is -1.

RECOVSTATUS(cvda) (APPC and MRO only)
returns a CVDA value indicating whether there is resynchronization work outstanding for the connection. The connection may never have been connected, have been quiesced and all resynchronization work completed, or disrupted without quiesce—in which case resynchronization may be necessary. CVDA values are:

NORECOVDATA
Neither side has recovery information outstanding.

NOTAPPLIC
This is not an APPC parallel-session nor a CICS-to-CICS MRO connection, and does not support two-phase commit protocols.

NRS CICS does not have recovery outstanding for the connection, but the partner may have.

RECOVDATA
There are in-doubt units of work associated with the connection, or there are outstanding resyncs awaiting FORGET on the connection. Resynchronization takes place when the connection next becomes active, or when the UOW is unshunted.

If there is recovery outstanding, then on completion of exchange lognames, either resynchronization takes place or, in the case of a cold exchange, the PENDING condition is created.

REMOTENAME(*data-area***)**
returns the 4-character name by which this connection is known in a remote system, if the subject of the inquiry is a remote connection.

REMOTESYSNET(*data-area***)**
returns the 8-character netname of the owning TOR, if the subject of this inquiry is a remote connection. If it is blank, but the connection is remote, the system named in the REMOTESYSTEM field has not been installed, and no value was specified for the REMOTESYSNET option when the connection was defined.

REMOTESYSTEM(*data-area***)**
returns the 4-character name of a connection, if the subject of the inquiry is a remote connection. The named connection can be either a connection entry that links towards the TOR, or an indirect connection which provides the netname of the TOR, and itself points to another connection.

Otherwise this field is blank.

SENDCOUNT(*data-area***) (MRO only)**
returns a fullword binary value giving the number of SEND sessions defined for this connection. For EXCI connections, the SENDCOUNT is always zero. This option applies only to MRO connections; for others the value returned is -1.

SERVSTATUS(*cvda***)**
returns a CVDA value indicating whether data can be sent and received on the connection. CVDA values are:

GOINGOUT
OUTSERVICE has been requested on a SET CONNECTION command, and the request cannot be acted on until some current work has completed.

INSERVICE
Data can be sent and received.

OUTSERVICE
Data cannot be sent and received.

XLNSTATUS(*cvda***) (APPC only)**
returns a CVDA value identifying the status of the exchange log names (XLN) process. CVDA values are:

NOTAPPLIC
The XLN process is not applicable. This can be because the link:

- Is released

- Is MRO, LUTYPE6.1, or single-session APPC
- Does not support synchronization level 2 conversations.

For information about the APPC exchange log names process, see the *CICS Intercommunication Guide*.

XNOTDONE
The XLN flow for the APPC connection has not completed successfully. The CSMT log can contain information relating to this state. Synchronization level 2 conversations are not allowed on the connection, but synchronization levels 0 and 1 are still allowed.

XOK The XLN process for the APPC connection has completed successfully.

ZCPTRACING(*cvda***) (VTAM only)**
returns a CVDA value indicating whether the VTAM control component of CICS is tracing activity on the sessions associated with this connection. CVDA values are:

NOTAPPLIC
The connection is not LUTYPE6.1 or APPC.

NOZCPTRACE
ZCP tracing is not active.

ZCPTRACE
ZCP tracing is active.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

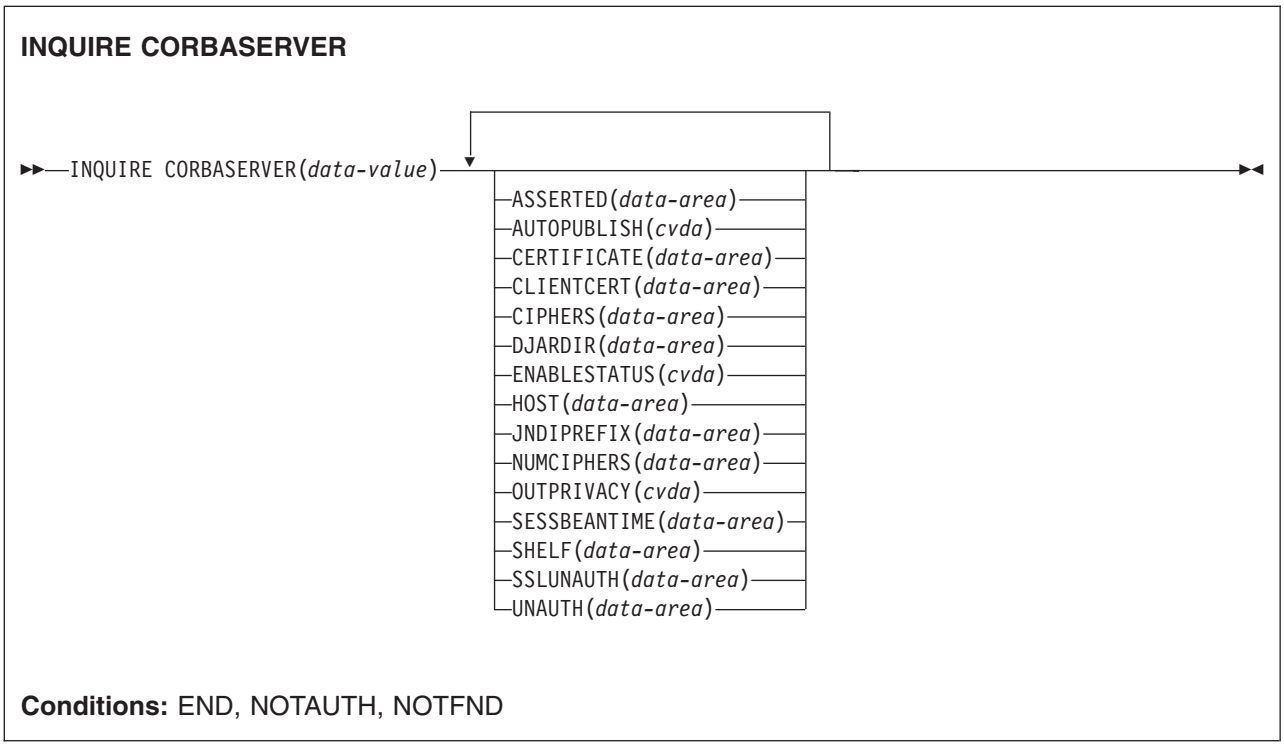
ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SYSIDERR
RESP2 values:
1 The connection cannot be found.

INQUIRE CORBASERVER

Retrieve information about a particular CorbaServer.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE CORBASERVER command allows you to retrieve information about a particular CorbaServer.

Browsing

You can also browse through all the CorbaServers installed in the region, using the browse options (START, NEXT, and END) on INQUIRE CORBASERVER commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ASSERTED(*data-area***)**
returns the 8-character name of a TCPIPSERVICE resource that defines the characteristics of the port which is used for inbound IIOP with asserted identity authentication.

AUTOPUBLISH(*cvda***)**
returns a CVDA value indicating whether enterprise beans are to be automatically published to the JNDI namespace when the deployed JAR file that contains them is successfully installed in the CorbaServer. The CVDA values are:

AUTOPUB
Enterprise beans are to be automatically published.

NOAUTO
Enterprise beans are not to be automatically published.

CERTIFICATE(*data-area***)**
returns a 56-character area containing the label of the certificate within the key ring that is used as a client certificate in the SSL handshake for outbound IIOP connections. If the label is blank, the certificate nominated as the default for the key ring is used.

The distinguished name within this certificate is used to provide inputs to the Distinguished Name URM (DFHEJDNX). See the *CICS Intercommunication Guide*.

CIPHERS(*data-area***)**
returns a 56–character area containing the list of cipher suites that is used to negotiate with clients during the SSL handshake. The list is set by the ENCRYPTION system initialization parameter, but you can edit the list to remove or change the order of cipher suites. See the *CICS RACF Security Guide*.

CLIENTCERT(*data-area***)**
returns the 8-character name of a TCPIPSERVICE resource that defines the characteristics of the port which is used for inbound IIOP with SSL client certificate authentication.

CORBASERVER(*data-value***)**
specifies the 4-character name of a CorbaServer.

DJARDIR(*data-value***)**
returns a 255-character area containing the name of the deployed JAR file directory (also known as the *pickup directory*) on HFS. (The pickup directory is the place that you put deployed JAR files that you want to be installed into the CorbaServer by the CICS scanning mechanism.)

ENABLESTATUS(*cvda***)**
returns a CVDA value indicating the current state of the CorbaServer. The CVDA values are:

DISABLED
The CorbaServer is currently not processing any requests and is unable to accept new requests. It may have failed to initialize properly or been explicitly disabled.

DISABLING
The CorbaServer is quiescing before entering disabled state. It is not accepting new requests but is allowing currently-executing work to complete.

DISCARDING
A DISCARD request has been received for this CorbaServer. The CorbaServer is quiescing before being discarded. It is not accepting new requests but is allowing currently-executing work to complete.

ENABLED
The CorbaServer is available and is accepting requests.

ENABLING
The CorbaServer is being initialized. It is not yet ready to accept requests.

HOST(*data-area***)**
returns a 255-character area containing the TCP/IP host name, or a string containing the dotted decimal TCP/IP address, which is included in Interoperable Object References (IORs) exported from the CorbaServer.

JNDIPREFIX(*data-area***)**
returns a 255-character area containing the JNDI prefix.

NUMCIPHER(*data-area***)**
returns a binary halfword data-area that contains the number of cipher suites that are specified in the CIPHERS attribute.

OUTPRIVACY(*cvda***)**
returns a CVDA value indicating the level of SSL encryption that is used for outbound connections from this CORBASERVER. This level is determined by the CIPHERS attribute. Possible values are:

NOTSUPPORTED
Encryption is not used. During the SSL handshake, CICS advertises only supported cipher suites that do not provide encryption.

REQUIRED
Encryption is used. During the SSL handshake, CICS advertises only supported cipher suites that provide encryption.

SUPPORTED
Encryption is used if both client and server support it. During the SSL handshake, CICS advertises all supported cipher suites.

SESSBEANTIME(*data-area***)**
returns a fullword area containing the elapsed time period in minutes, in the range 0 through 143999 (99 days, 23 hours, 59 minutes) of inactivity after which a session bean may be discarded. A value of zero indicates that beans are not timed out.

SHELF(*data-area***)**
returns a 255-character area containing the name of the HFS shelf directory.

SSLUNAUTH(*data-area***)**
returns the 8-character name of a TCPIPSERVICE resource that defines the chracteristics of the port which is used for inbound IIOP with SSL but no client authentication.

UNAUTH(*data-area***)**
returns the 8-character name of a TCPIPSERVICE resource that defines the characteristics of the port which is used for inbound IIOP with no authentication.

Conditions

END
RESP2 values:
2 There are no more Corbaservers to browse.

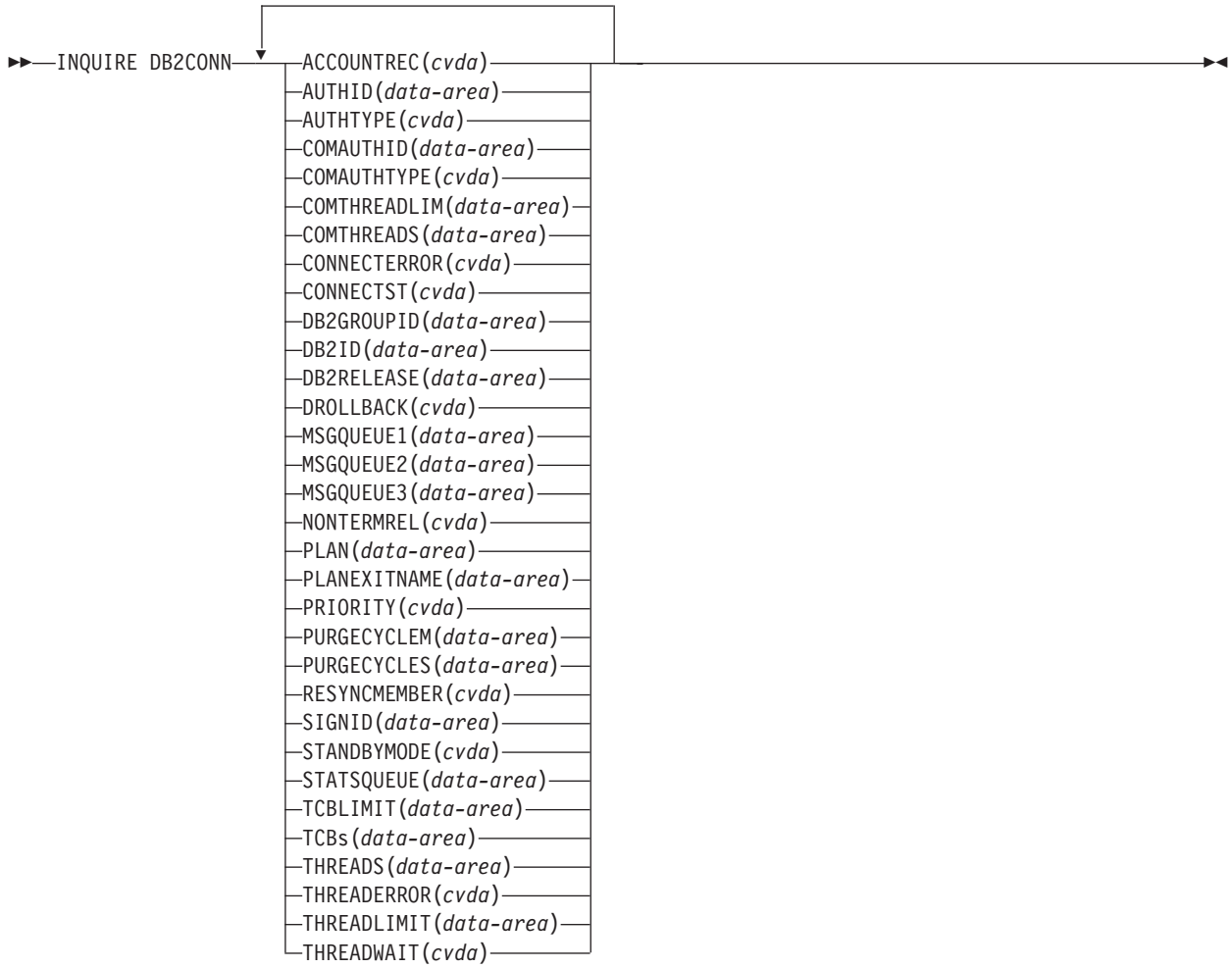
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
2 The named CorbaServer was not found

INQUIRE DB2CONN

Defines the attributes of the connection made between CICS and DB2.

INQUIRE DB2CONN



Conditions: NOTAUTH, NOTFND

This command is threadsafe.

Description

The INQUIRE DB2CONN command allows you to inquire about attributes of the currently installed DB2CONN which defines the connection to DB2.

Note that because there can be only one DB2CONN installed at a time, the name of the DB2CONN is not required on input.

Options

ACCOUNTREC
returns the minimum amount of DB2 accounting required for transactions using pool threads. The specified minimum may be exceeded as described in the following options. CVDA values are:

UOW The CICS DB2 attachment facility causes an accounting record to be produced by DB2 for each UOW, assuming that the thread is released at the end of the UOW.

TASK The CICS DB2 attachment facility causes a minimum of one accounting record to be produced by DB2 for each CICS task.

A transaction containing multiple UOWs (assuming the thread is released at syncpoint) may use a different thread for each of its UOWs. The result may be the production of an accounting record for each UOW. For example, an accounting record is produced if a thread terminates after being released, or if a thread is reused but the primary AUTHID is changed.

TXID The CICS DB2 attachment facility causes an accounting record to be produced by DB2 when the transaction ID using the thread changes.

Because pool threads are typically used by a number of different transaction IDs, there is an increased chance that a transaction containing multiple UOWs will use a different thread for each UOW (assuming the thread is released at syncpoint). In this case an accounting record may be produced for each UOW.For example, an accounting record is produced if a thread terminates after being released, or if a thread is reused but the primary AUTHID is changed.

NONE No accounting records are required for transactions using pool threads.

DB2 nevertheless produces at least one accounting record for each thread when the thread is terminated. Additionally, authorization changes cause accounting records to be produced.

AUTHID
returns an id to be used for security checking when using pool threads. If an AUTHID is returned, AUTHTYPE is not applicable.

AUTHTYPE
returns the type of id to be used for security checking when using pool threads. If an AUTHType is returned, AUTHid is blank. CVDA values are:

GROUP The 8-character USERID and the connected group name are used as the authorization ID. The following table shows how these two values are interpreted by DB2.

IDs passed to DB2	How DB2 interprets values
CICS sign-on user ID (USERID)	Represents the primary DB2 authorization ID.

IDs passed to DB2	How DB2 interprets values
RACF-connected group name	If the RACF list of group options is not active, DB2 uses the connected group name supplied by the CICS attachment facility as the secondary DB2 authorization ID. If the RACF list of group options is active, DB2 ignores the connected group name supplied by the CICS attachment facility, but the value appears in the DB2 list of secondary DB2 authorization IDs.

If no RACF group ID is available for this USERID, an 8-character field of blanks is passed to DB2 as the group ID.

SIGN The SIGNID parameter of the DB2CONN is used as the resource authorization ID.

TERM The terminal identification (four characters padded to eight) is used as an authorization ID. An authorization ID cannot be obtained in this manner if a terminal is not connected with the transaction.

If a transaction is started (using a CICS command) and has no terminal associated with it, AUTHTYPE(TERM) should not be used.

TX The transaction identification (four characters padded to eight) is used as the authorization ID.

OPID The user operator identification associated with the userid, associated with the CICS transaction, is used as the authorization ID (three characters padded to eight).

USERID The 8-character USERID associated with the CICS transaction is used as the authorization ID.

When the DB2 sample sign-on exit DSN3@.SGN is used with AUTHTYPE(USERID), the exit sends the USERID to DB2 as the primary authorization ID and the RACF group ID to DB2 as the secondary ID. When the sample sign-on exit is used, there is no difference between AUTHTYPE(USERID) and AUTHTYPE(GROUP).

COMAUTHID
returns an ID to be used for security checking when using command threads. If COMAUTHType is returned, COMAUTHid is not applicable.

COMAUTHTYPE
returns the type of ID to be used for security checking when using command threads. If COMAUTHType is returned, COMAUTHid is blank. CVDA values are:

CGROUP The 8-character USERID and the connected group name are used as the authorization ID. The following table shows how these two values are interpreted by DB2.

IDs passed to DB2	How DB2 interprets values
CICS sign-on user ID (USERID)	Represents the primary DB2 authorization ID.

	IDs passed to DB2	How DB2 interprets values
	RACF-connected group name	If the RACF list of group options is not active, DB2 uses the connected group name supplied by the CICS attachment facility as the secondary DB2 authorization ID. If the RACF list of group options is active, DB2 ignores the connected group name supplied by the CICS attachment facility, but the value appears in the DB2 list of secondary DB2 authorization IDs.

If no RACF group ID is available for this USERID, an 8-character field of blanks is passed to DB2 as the group ID.

CSIGN The SIGNID parameter of the DB2CONN is used as the resource authorization ID.

CTERM The terminal identification (four characters padded to eight) is used as an authorization ID. An authorization ID cannot be obtained in this manner if a terminal is not connected with the transaction.

If a transaction is started (using a CICS command) and has no terminal associated with it, COMAUTHTYPE(CTERM) should not be used.

CTX The transaction identification (four characters padded to eight) is used as the authorization ID.

COPID The operator identification associated with the userid that is associated with the CICS transaction is used as the authorization ID (three characters padded to eight).

CUSERID The 8-character USERID associated with the CICS transaction is used as the authorization ID.

When the DB2 sample sign-on exit DSN3@.SGN is used with COMAUTHTYPE(CUSERID), the exit sends the USERID to DB2 as the primary authorization ID and the RACF group ID to DB2 as the secondary ID. When the sample sign-on exit is used, there is no difference between COMAUTHTYPE(CUSERID) and COMAUTHTYPE(CGROUP).

COMTHREADS
returns the current number of active command threads.

COMTHREADLIM
returns the current maximum number of command threads the CICS DB2 attachment allows active before requests overflow to the pool.

CONNECTERROR
returns how the fact that CICS is not connected to DB2 because the adapter is in 'standby mode' is reported back to an application that has issued a SQL request. CVDA values are:

ABEND The application is abended with abend AEY9.

SQLCODE The application receives a -923 SQLCODE.

CONNECTST
returns the status of the CICS DB2 connection. CVDA values are:

CONNECTED CICS is connected to DB2.

NOTCONNECTED
CICS is not connected to DB2.

CONNECTING
CICS is currently attempting to connect to DB2.

DISCONNING CICS is currently disconnecting from DB2.

DB2GROUPID
If you are using group attach, this returns the name of a data sharing group of DB2 subsystems that you have specified. CICS attempts to connect to any active member of this group. If the CICS DB2 attachment is connected, the name of the DB2 subsystem that was chosen from the group appears in the DB2ID field. If CICS is waiting to reconnect to a specific DB2 subsystem within the data sharing group, because it is holding outstanding units of work for that subsystem, the name of the specific DB2 subsystem appears in the DB2ID field, and the status CONNECTING is returned. (For this situation to arise, RESYNCMEMBER(RESYNC) must be specified.)

DB2ID
If you are not using group attach, this returns the name of the DB2 subsystem that the CICS DB2 attachment is connected to, or if the CICS DB2 attachment is not connected, the name of the DB2 subsystem that you have specified for CICS to connect to. If you are using group attach and the CICS DB2 attachment is connected, this returns the name of the DB2 subsystem that the CICS DB2 attachment is connected to. If you are using group attach and the CICS DB2 attachment is not connected, this field is normally blank. However, if CICS is waiting to reconnect to a specific DB2 subsystem, because RESYNCMEMBER(YES) is specified and the DB2 subsystem for which CICS is holding outstanding units of work is unavailable, the command returns the DB2ID of that subsystem with the status CONNECTING.

DB2RELEASE
returns a four-character value indicating the version and release level of the DB2 subsystem CICS is connected to. When CICS is not connected to DB2, blanks are returned.

DROLLBACK
returns a value showing whether the CICS DB2 attachment is to initiate a SYNCPOINT ROLLBACK in the event of a transaction being selected as victim of a deadlock resolution. CVDA values are:

ROLLBACK the attachment facility issues a sync point rollback before returning control to the application. An SQL return code of -911 is returned to the program.

NOROLLBACK
the attachment facility is not to initiate a rollback for a transaction. An SQL return code of -913 is returned to the application.

MSGQUEUE1
returns the name of the first transient data destination to which unsolicited messages from the CICS DB2 attachment are sent.

MSGQUEUE2
returns the name of the second transient data destination to which unsolicited messages from the CICS DB2 attachment are sent.

MSGQUEUE3
returns the name of the third transient data destination to which unsolicited messages from the CICS DB2 attachment are sent.

NONTERMREL
retuns a value showing whether non-terminal transactions are to release threads for reuse at intermediate syncpoints. CVDA values are:

RELEASE non-terminal transactions release threads for reuse at intermediate syncpoints.

NORELEASE non-terminal transactions do not release threads for reuse at intermediate syncpoints.

PLAN
returns the name of the plan used for the pool. If a plan name is returned, PLANEXITNAME is blank.

PLANEXITNAME
returns the name of the dynamic plan exit used for pool threads. If a PLANEXITNAME is returned, PLAN is blank.

PRIORITY
returns the priority of the pool thread TCBs relative to the CICS main TCB (QR TCB). If CICS is connected to DB2 Version 6 or later, the thread TCBs are CICS open L8 TCBs. If CICS is connected to DB2 Version 5 or earlier, the thread TCBs are private TCBs created by the CICS-DB2 Attachment Facility. CVDA values are:

HIGH Thread TCBs have a higher priority than the CICS QR TCB.

EQUAL Thread TCBs have equal priority with the CICS QR TCB.

LOW Thread TCBs have a lower priority than the CICS QR TCB.

PURGECYCLEM
returns in minutes the length of the protected thread purge cycle. The range for PURGECYCLEM is 0-59.

A protected thread is not terminated immediately when it is released. It is terminated only after two completed purge cycles, if it has not been reused in the meantime. Hence if the purge cycle is set to 30 seconds after it is released, a protected thread is purged 30 - 60 seconds after it is released. An unprotected thread is terminated when it is released (at syncpoint or end of task) if there are no other transactions waiting for a thread on that DB2ENTRY.

PURGECYCLES
returns in seconds the length of the protected thread purge cycle. The range for PUrgecycles is 30-59.

A protected thread is not terminated immediately when it is released. It is terminated only after two completed purge cycles, if it has not been reused in the meantime. Hence if the purge cycle is set to 30 seconds after it is released, a protected thread is purged 30 - 60 seconds after it is released. An unprotected thread is terminated when it is released (at syncpoint or end of task) if there are no other transactions waiting for a thread on that DB2ENTRY.

RESYNCMEMBER
This applies only if you are using group attach, and specifies the strategy that CICS adopts if outstanding units of work are being held for the last DB2 data sharing group member to which CICS was connected. (Units of work which are shunted indoubt are not included in this process, because CICS itself is unable to resolve those units of work at this time. Resynchronization for those UOWs will occur when CICS has resynchronized with its remote coordinator.) CVDA values are:

RESYNC CICS connects to the same DB2 data sharing group member.

NORESYNC CICS makes one attempt to connect to the same DB2 data sharing group member, and if that attempt fails, CICS connects to any member of the DB2 data sharing group and issues a warning about the outstanding units of work.

If you perform an INQUIRE DB2CONN RESYNCMEMBER command and are not using group attach, a Not Applicable value is returned.

SIGNID
returns the authorization ID to be used by the CICS DB2 attachment when signing on to DB2 for pool and DB2 entry threads specifying AUTHTYPE(SIGN) and command threads specifying COMAUTHTYPE(CSIGN).

STANDBYMODE
returns the action to be taken by the CICS DB2 attachment if DB2 is not active when an attempt is made to start the connection from CICS to DB2. CVDA values are:

NOCONNECT The CICS DB2 attachment terminates.

CONNECT The CICS DB2 attachment goes into 'standby mode' to wait for DB2.

RECONNECT The CICS DB2 attachment goes into 'standby mode' and waits for DB2. Having connected to DB2, if DB2 subsequently fails the CICS DB2 attachment reverts to standby mode again and subsequently reconnects to DB2 when it comes up again.

STATSQUEUE
returns the transient data destination for CICS DB2 attachment statistics produced when the CICS DB2 attachment is shutdown.

TCBS
returns a number indicating the TCBs currently used by the CICS DB2 attachment facility. The number returned is the number of TCBs that are associated with DB2 connections (command, pool or DB2ENTRY threads), so the interpretation of the number depends on the release of DB2 to which CICS is connected, as follows:

Connected to DB2 Version 5 or earlier (therefore not using the open transaction environment)
Subtask TCBs are created and managed by the CICS DB2 attachment facility to service DB2 requests, and remain permanently associated with DB2 connections (command, pool or DB2ENTRY threads). In this case, the TCBS option returns the high-water mark of TCBs created to access DB2.

Connected to DB2 Version 6 or later (therefore using the open transaction environment)
The TCBs used by the CICS DB2 attachment facility are allocated by CICS from the pool of L8 mode TCBs. A DB2 connection is not permanently assigned to the same L8 TCB, and between CICS tasks, it can move from one L8 mode TCB to another. In this environment, the TCBS option returns the number of L8 mode TCBs that are using a DB2 connection at the time of the inquiry, and this value varies depending on workload.

TCBLIMIT
returns the maximum number of TCBs that can be used to process DB2 requests. When connected to DB2 Version 5 or earlier, the CICS DB2 attachment facility creates the TCBs in the form of subtasks up to the limit specified by TCBLIMIT. Each of these subtasks identifies to DB2 and creates a connection into DB2. When connected to DB2 Version 6 or later, CICS creates

open TCBs (up to the limit specified in the system initialization parameter MAXOPENTCBS). The TCBLIMIT attribute of the DB2CONN definition governs how many of the open TCBs can be used to access DB2 — that is, how many of them can identify to DB2 and create a connection into DB2.

THREADERROR
returns the processing that is to occur following a create thread error. CVDA values are:

ABEND
For a second or subsequent SQL error the transaction is abended with abend code AD2S, AD2T, or AD2U, dependent on the type of error that occurred. The transaction must be terminated and reinitialized before it is allowed to issue another SQL request.

N906D
A transaction dump is to be taken and the DSNCSQL RMI associated with the transaction is *not* to be disabled. The transaction receives a -906 SQLCODE if another SQL is issued, unless the transaction issues SYNCPOINT ROLLBACK. SYNCPOINT without the ROLLBACK option results in an ASP3 or ASP7 abend. The transaction dump records an abend of AD2S, AD2T, or AD2U.

N906 The DSNCSQL RMI associated with the transaction is *not* to be disabled. The transaction receives a -906 SQLCODE if another SQL request is issued, unless the transaction issues a SYNCPOINT ROLLBACK. SYNCPOINT without the ROLLBACK option results in an ASP3 or ASP7 abend.

THREADLIMIT
returns the current maximum number of pool threads the CICS DB2 attachment allows active before requests are made to wait or are rejected (see THREADWait).

THREADS
returns the current number of active pool threads.

THREADWAIT
returns whether or not transactions should wait for a pool thread or be abended should the number of active pool threads reach the threadlimit number. CVDA values are:

TWAIT If all threads are busy, a transaction waits until one becomes available.

NOTWAIT If all threads are busy, a transaction is terminated with an abend code AD3T.

Conditions

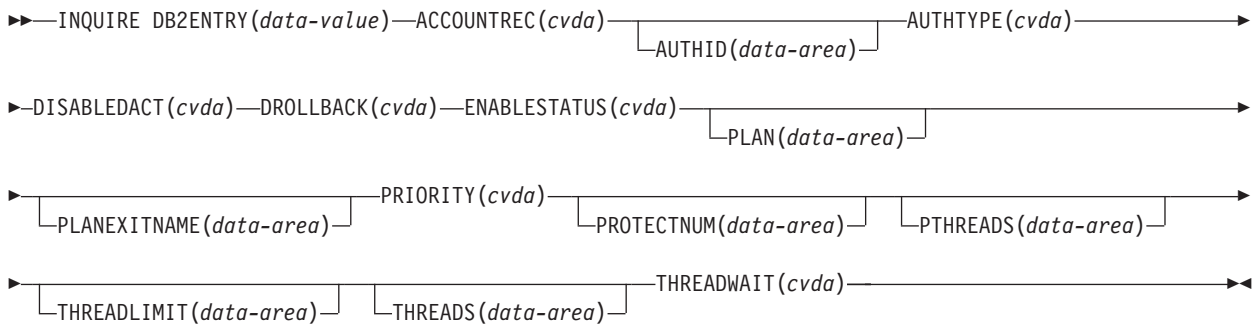
NOTFND
RESP2 values:
1 The DB2CONN cannot be found.

NOTAUTH
RESP2 values:
100 Command authorization failure

INQUIRE DB2ENTRY

Returns the attributes of the DB2ENTRY that defines resources to be used by a specific transaction or by a group of transactions when accessing DB2.

INQUIRE DB2ENTRY



Conditions: END,ILLOGIC,NOTAUTH, NOTFND

This command is threadsafe.

Description

The entry is identified by the name it was defined with in the CSD by the DEFINE DB2ENTRY command. For RCTs migrated to the CSD, it is identified by the name of the first transaction on the DSNCRCT TYPE=ENTRY statement unless the RDONAME parameter has been specified.

Browsing

You can also browse through all of the DB2ENTRYs installed in a CICS region by using the browse options (START, NEXT, and END) on INQUIRE DB2ENTRY commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACCOUNTREC

returns the minimum amount of DB2 accounting required for transactions using this DB2ENTRY. The specified minimum may be exceeded, as described in the following options. CVDA values are:

UOW The CICS DB2 attachment facility causes an accounting to be produced by DB2 for each UOW, assuming that the thread is released at the end of the UOW.

TASK The CICS DB2 attachment facility causes a minimum of one accounting record to be produced by DB2 for each CICS task.

A transaction containing multiple UOWs may use a different thread for each UOW (assuming the thread is released at syncpoint). The result may be the production of an accounting record for each UOW. For example, an accounting record is

produced if a thread terminates after being released, or if a thread is reused but the primary AUTHID is changed.

TXID The CICS DB2 attachment facility causes an accounting record to be produced by DB2 when the transid using the thread changes.

This option applies to DB2ENTRYs that are used by more than one transaction ID. As threads are typically released at syncpoint, a transaction containing multiple UOWs may use a different thread for each UOW. The result may be that an accounting record is produced for each UOW. For example, an accounting record is produced if a thread terminates after being released, or if a thread is reused but the primary AUTHID is changed.

NONE No accounting records are required for transactions using threads from this DB2ENTRY.

DB2 produces. however, at least one accounting record per thread when the thread is terminated. Additionally, authorization changes cause accounting records to be produced.

AUTHID
returns an id to be used for security checking for threads on this DB2ENTRY. If an AUTHId is returned, AUTHType is not applicable.

AUTHTYPE
returns the type of id to be used for security checking for threads on this DB2ENTRY. If an AUTHType is returned, AUTHid is blank. CVDA values are:

GROUP The 8-character userid and the connected group name are used as the authorization ID. The following table shows how these two values are interpreted by DB2.

	IDs passed to DB2	How DB2 interprets values
	CICS sign-on user ID (USERID)	Represents the primary DB2 authorization ID.
	RACF-connected group name	If the RACF list of group options is not active, then DB2 uses the connected group name supplied by the CICS attachment facility as the secondary DB2 authorization ID. If the RACF list of group options is active, DB2 ignores the connected group name supplied by the CICS attachment facility, but the value appears in the DB2 list of secondary DB2 authorization IDs.

If no RACF group ID is available for this USERID, then an 8-character field of blanks is passed to DB2 as the group ID.

SIGN The SIGNID parameter of the DB2CONN is used as the resource authorization ID.

TERM The terminal identification (four characters padded to eight) is used as an authorization ID. An authorization ID cannot be obtained in this manner if a terminal is not connected with the transaction.

If a transaction is started (using a CICS command) and has no terminal associated with it, AUTHTYPE(TERM) should not be used.

TX The transaction identification (four characters padded to eight) is used as the authorization ID.

OPID The operator identification associated with the userid that is associated with the CICS transaction is used as the authorization ID (three characters padded to eight).

USERID The 8-character USERID associated with the CICS transaction is used as the authorization ID.

When the DB2 sample sign-on exit DSN3@.SGN is used with AUTHTYPE(USERID), the exit sends the USERID to DB2 as the primary authorization ID and the RACF group ID to DB2 as the secondary ID. When the sample sign-on exit is used, there is no difference between AUTHTYPE(USERID) and AUTHTYPE(GROUP).

DISABLEDACT
returns what CICS is to do with new transactions accessing the DB2ENTRY when it has been disabled or disabling. If DISABLEDACT is not specified, and DB2ENTRY is disabled, new requests are routed to the pool by default. CVDA values are:

POOL The CICS DB2 attachment facility routes the request to the pool. Message DFHDB2072 is sent to the transient data destination specified by MSGQUEUEn on the DB2CONN for each transaction routed to the pool.

ABEND The CICS DB2 attachment facility abends the transaction.The abend code is AD26.

SQLCODE An SQLCODE is returned to the application indicating that the DB2ENTRY is disabled.

DROLLBACK
returns whether or not the CICS DB2 attachment should initiate a SYNCPOINT rollback in the event of a transaction being selected as victim of a deadlock resolution. CVDA values are:

ROLLBACK The attachment facility issues a sync point rollback before returning control to the application. An SQL return code of -911 is returned to the program.

NOROLLBACK
The attachment facility is not to initiate a rollback for this transaction. An SQL return code of -913 is returned to the application.

ENABLESTATUS
returns a cvda indicating whether the DB2ENTRY can be accessed by applications. CVDA values are:

ENABLED The DB2ENTRY can be accessed by applications. DB2ENTRY is installed in an ENABLED state.

DISABLED The DB2ENTRY cannot be accessed by applications.

DISABLING The DB2ENTRY is in the process of being disabled. New transactions cannot access the DB2ENTRY. Existing transactions using the DB2ENTRY are allowed to complete unless the DB2ENTRY is being disabled with the FORCE option.

PLAN
returns the name of the plan to be used for this DB2ENTRY. If PLAN is returned, PLANEXITNAME is blank.

PLANEXITNAME
returns the name of the dynamic plan exit (if any) to be used for this DB2ENTRY. If PLANEXITname is returned, PLAN is blank.

PRIORITY
returns the priority of the thread TCBs for this DB2ENTRY relative to the CICS main TCB (QR TCB). If CICS is connected to DB2 Version 6 or later, the thread TCBs are CICS open L8 TCBs. If CICS is connected to DB2 Version 5 or earlier, the thread TCBs are private TCBs created by the CICS-DB2 Attachment Facility. CVDA values are:

HIGH Thread TCBs have a higher priority than the CICS QR TCB.

EQUAL Thread TCBs have equal priority with the CICS QR TCB.

LOW Thread TCBs have a lower priority than the CICS QR TCB.

PROTECTNUM
returns the maximum number of protected threads allowed for this DB2ENTRY.

PTHREADS
returns the current number of protected threads for this DB2ENTRY. A protected thread is an inactive thread available for reuse by a new transaction. If no transaction has reused the thread by the time it has been processed by 2 purge cycles, the thread is terminated.

THREADS
returns the current number of threads active for this DB2ENTRY.

THREADLIMIT
returns the current maximum number of threads for this DB2ENTRY that the CICS DB2 attachment allows active before requests are made to wait, overflow to the pool, or are rejected (see THREADWait).

THREADWAIT
returns whether or not transactions should wait for a DB2ENTRY thread be abended, or overflow to the pool if the number of active DB2ENTRY threads reach the Threadlimit number. CVDA values are:

TWAIT If all threads are busy, a transaction waits until one becomes available.

NOTWAIT If any threads are busy, a transaction is terminated with an abend code AD2P.

TPOOL If all threads are busy, a transaction is diverted to use a pool thread. If the pool is also busy, and NOTWAIT has been specified for the THREADWAIT parameter on the DB2CONN, the transaction is terminated with an abend code AD3T.

Conditions

NOTFND
RESP2 values:
1 The DB2ENTRY cannot be found.

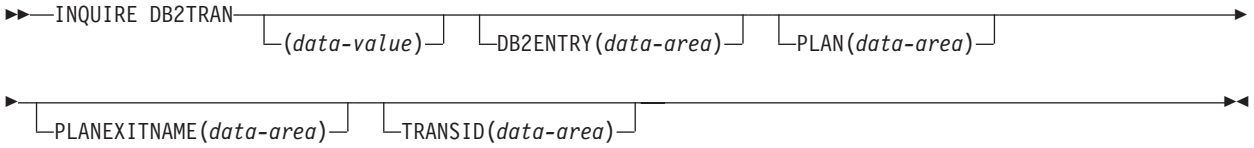
NOTAUTH
RESP2 values:
100 Command authorization failure

101 Resource authorization failure

INQUIRE DB2TRAN

Returns attributes of a particular DB2TRAN which associates a transaction or group of transactions with a DB2ENTRY.

INQUIRE DB2TRAN



Conditions: END,ILLOGIC,NOTAUTH, NOTFND

This command is threadsafe.

Description

The DB2TRAN is identified by the name it was defined with in CEDA. For RCTs migrated to the CSD, the name is the same as the transaction for which the DB2TRAN is being created.

If a TRANSID is specified on a DB2ENTRY when the DB2ENTRY is installed, CICS installs a DB2TRAN named DFHtttt, where tttt is the TRANSID.

Browsing

You can also browse through all of the DB2TRANs installed in your system by using the browse options (START, NEXT, and END) on INQUIRE DB2TRAN commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

DB2ENTRY
returns the name of the DB2ENTRY to which this DB2TRAN refers; that is, the DB2ENTRY with which this additional transaction is associated.

PLAN
returns the name of the plan retrieved from the associated DB2ENTRY if it exists. If there is no associated DB2ENTRY, or the DB2ENTRY is disabled with DISABLEDACT(POOL), then the pool plan name is returned if it exists. If PLAN is returned, PLANEXITNAME is blank.

PLANEXITNAME
returns the name of the dynamic plan exit to be used (if any) from the associated DB2ENTRY if it exists. If there is no associated DB2ENTRY, or the DB2ENTRY is disabled with DISABLEDACT(POOL), then the pool plan exit name is returned if it exists. If PLANEXITNAME is returned, PLAN is blank.

TRANSID
specifies the transaction id to be associated with the entry. The transaction id can include wildcard characters (see the *CICS Resource Definition Guide* for information about use of wildcard characters).

Conditions

NOTFND

RESP2 values:

1 The DB2TRAN cannot be found.

NOTAUTH

RESP2 values:

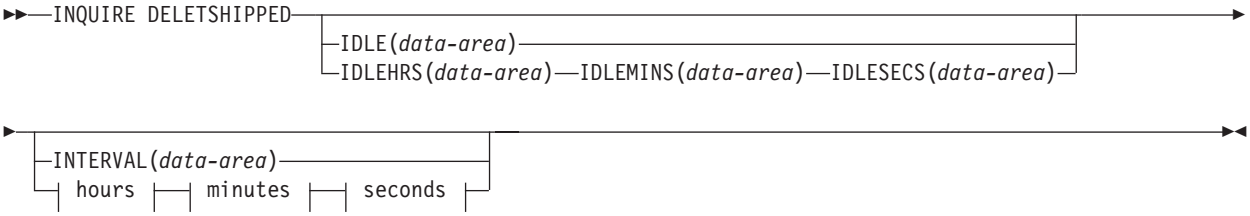
100 Command authorization failure

101 Resource authorization failure

INQUIRE DELETSHIPPED

Retrieve information about system settings that control the CICS timeout delete mechanism.

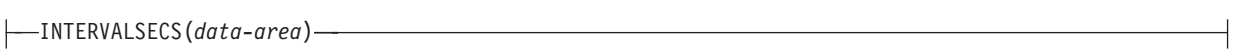
INQUIRE DELETSHIPPED



hours:

minutes:

seconds:



Conditions: NOTAUTH

Description

CICS provides a mechanism for deleting shipped terminal definitions after they have been idle for a period of time. The installation specifies how long a terminal must have been inactive to be eligible for deletion (the IDLE time), and how often the check should be made (the INTERVAL). The INQUIRE DELETSHIPPED command displays the current settings of these two control options.

There are two formats for each of the time values that you can retrieve with this command (the idle time and the interval checking period):

- A 4-byte packed decimal composite (0hhmmss+), which you obtain by using the IDLE and INTERVAL options.
- Separate hours, minutes, and seconds, which you obtain by specifying the IDLEHRS, IDLEMINS, and IDLESECS options (instead of IDLE), and INTERVALHRS, INTERVALMINS, and INTERVALSECS (instead of INTERVAL).

Options

IDLE(*data-area***)**
returns the idle time, as a 4-byte packed decimal field in the format 0hhmmss+. Idle time is the minimum time that a terminal must be inactive to be eligible for deletion.

IDLEHRS(*data-area***)**
returns the hours component of the idle time, in fullword binary form.

IDLEMINS(*data-area***)**
returns the minutes component of the idle time, in fullword binary form.

IDLESECS(*data-area***)**
returns the seconds component of the idle time, in fullword binary form.

INTERVAL(*data-area***)**
returns a 4-byte packed decimal field, in the format 0hhmmss+, giving the interval at which the check for idle terminals is made.

INTERVALHRS(*data-area***)**
returns the hours component of the interval, in fullword binary form.

INTERVALMINS(*data-area***)**
returns the minutes component of the interval, in fullword binary form.

INTERVALSECS(*data-area***)**
returns the seconds component of the interval, in fullword binary form.

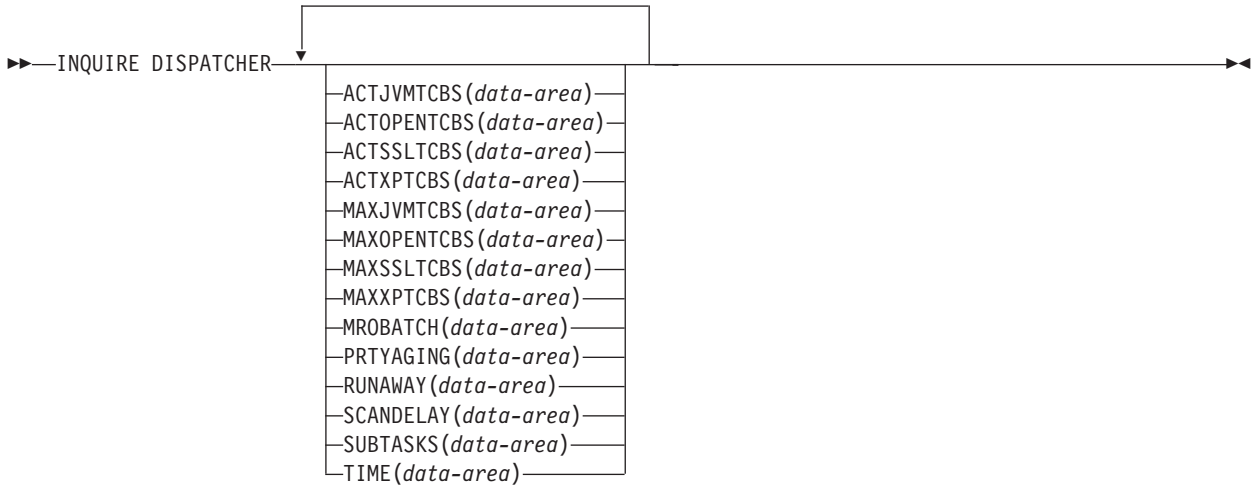
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE DISPATCHER

Retrieve CICS dispatcher information.

INQUIRE DISPATCHER



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE DISPATCHER command returns information about the CICS system under which the task issuing the command is executing.

Many of the options in this command correspond to options in the system initialization table (SIT) and take their initial values from the SIT. Some of these can be changed by a subsequent SET DISPATCHER command, or by using its CEMT equivalent. Other options return CICS dispatcher state data.

Options

ACTJVMTCBS(*data-area***)**
returns a fullword binary field giving the number of J8 and J9 mode open TCBs currently allocated to user tasks.

The J8 and J9 mode TCBs are allocated from the pool of open TCBs that CICS attaches up to the maximum set by the MAXJVMTCBS system initialization parameter. CICS dispatcher maintains the pool of J8 and J9 mode TCBs for use only by Java programs that require a JVM. The ACTJVMTCBS value can be equal to, or less than, the MAXJVMTCBS value. If it is equal to MAXJVMTCBS, tasks that require a J8 or J9 mode open TCB are made to wait.

ACTOPENTCBS(*data-area***)**
returns a fullword binary field giving the total number of L8 and L9 mode open TCBs currently allocated to user tasks.

The L8 and L9 mode TCBs are allocated from the pool of open TCBs that CICS attaches up to the maximum set by the MAXOPENTCBS system initialization parameter. CICS dispatcher maintains the pool of L8 and L9 mode TCBs for use by OPENAPI applications and by task-related user exits that are enabled with the OPENAPI option (task related user exits only use L8 mode TCBs, for example, the CICS DB2 adaptor when connecting to the DB2 Version 6 or later). The ACTOPENTCBS value can be equal to, or less than, the MAXOPENTCBS value. If it is equal to MAXOPENTCBS, tasks that require an L8 or L9 mode open TCB are made to wait.

ACTSSLTCBS(*data-area***)**
returns a fullword binary field giving the total number of S8 mode open TCBs currently allocated to user tasks.

The S8 mode TCBs are allocated from the pool of open TCBs that CICS attaches up to the maximum set by the MAXSSLTCBS system initialization parameter. S8 TCBs are used by tasks that require SSL functions. The ACTSSLTCBS value can be equal to, or less than, the MAXSSLTCBS value. If it is equal to MAXSSLTCBS, tasks that require an S8 TCB are made to wait.

ACTXPTCBS(*data-area***)**
returns a fullword binary field giving the total number of X8 and X9 mode open TCBs currently allocated to user tasks.

The X8 and X9 mode TCBs are allocated from the pool of open TCBs that CICS attaches up to the maximum set by the MAXXPTCBS system initialization parameter. CICS dispatcher maintains the pool of X8 and X9 mode TCBs for use by C and C++ programs compiled with the XPLINK option . The ACTXPTCBS value can be equal to, or less than, the MAXXPTCBS value. If it is equal to MAXXPTCBS, tasks that require an X8 or X9 mode open TCB are made to wait.

MAXJVMTCBS(*data-area***)**
returns a fullword binary field giving the maximum number of J8 and J9 mode open TCBs that CICS is allowed to attach and maintain in its pool of J8 and J9 mode TCBs. For information about the number actually allocated, see the ACTJVMTCBS option.

The difference between MAXJVMTCBS and ACTJVMTCBS represents the number of such TCBs that are free.

MAXOPENTCBS(*data-area***)**
returns a fullword binary field giving the maximum number of L8 and L9 mode open TCBs that CICS is allowed to attach and maintain in its pool of L8 and L9 mode TCBs. For information about the number actually allocated, see the ACTOPENTCBS option.

The difference between MAXOPENTCBS and ACTOPENTCBS represents the number of such TCBs that are free.

MAXSSLTCBS(*data-value***)**
returns a fullword binary field giving the maximum number of S8 mode open TCBs that CICS is allowed to attach and maintain in its pool of S8 mode TCBs.

MAXXPTCBS(*data-value***)**
returns a fullword binary field giving the maximum number of X8 and X9 mode open TCBs that CICS is allowed to attach and maintain in its pool of X8 and X9 mode TCBs. For information about the number actually allocated, see the ACTXPTCBS option.

The difference between MAXXPTCBS and ACTXPTCBS represents the number of such TCBs that are free.

MROBATCH(*data-area***)**
returns a fullword binary field giving the number of events that must occur, from a list of MRO and DASD I/O events on which CICS is waiting, before CICS is posted explicitly to process them.

PRTYAGING(*data-area***)**
returns a fullword binary field giving the rate at which CICS increases the priority of a task waiting for dispatch. CICS increases the task priority by 1 after each PRTYAGING milliseconds of wait time without a dispatch.

RUNAWAY(*data-area***)**
returns a fullword binary field giving the default system value for runaway task time. This value is used for any task executing a transaction whose profile does not specify runaway task time (see the INQUIRE TRANSACTION option “RUNAWAY” on page 395).

SCANDELAY(*data-area***)**
returns a fullword binary field giving the maximum number of milliseconds between a user task making a terminal I/O request and CICS dispatching the terminal control task to process it. This value is sometimes called the “terminal scan delay”, and is set by the ICVTSD option in the system initialization table.

SUBTASKS*data-area***)**
returns a fullword binary field giving the value set by the SUBTSKS system initialization parameter, which can be either 0 or 1.

TIME(*data-area***)**
returns a fullword binary field giving the maximum interval in milliseconds for which CICS gives control to the operating system if no tasks are ready for dispatch. This value is set by the ICV option in the system initialization table and is sometimes called the “region exit time interval”.

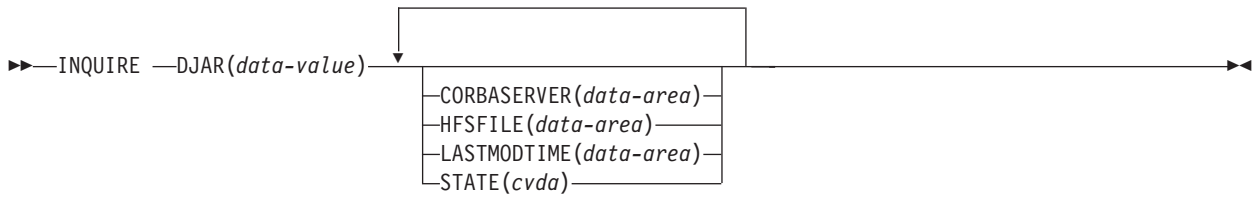
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE DJAR

Retrieve information about a DJAR definition.

INQUIRE DJAR



Conditions: NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE DJAR command returns the attributes associated with a deployed JAR file.

Browsing

You can also browse through all the deployed JAR files installed in the specified CorbaServer, using the browse options (START, NEXT, and END) on INQUIRE DJAR commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

CORBASERVER(*data-area***)**
specifies a 4-character area to receive the name of the associated CorbaServer.

DJAR(*data-value***)**
specifies a 1–32-character deployed JAR file name.

HFSFILE(*data-area***)**
specifies a 255-character area to receive the fully-qualified HFS file name.

If this DJAR definition was created by performing the SCAN function on a CORBASERVER definition, this fully-qualified HFS file name is the one that appears in the DJARDIR parameter of that CORBASERVER definition.

LASTMODTIME(*data-area***)**
specifies an 8-byte packed-decimal field to receive the time, in milliseconds since 00:00 on January 1st 1900, that the deployed JAR file on HFS was last updated. This is a readonly value that CICS updates when the DJAR resource is installed or updated. The last-modified-time can be used to determine whether CICS has refreshed itself after an update is made to a JAR in the pickup directory.

For dynamically-installed DJARs (those installed by the CICS scanning mechanism), the value of LASTMODTIME is the timestamp of the HFS file pointed to by the DJAR definition, at the time the DJAR definition was last installed or updated.

For statically-installed DJARs (those installed from a CSD or by CREATE DJAR), the value of LASTMODTIME is the timestamp of the HFS file pointed to by the DJAR definition, at the time the DJAR was installed. The value is fixed—it cannot be updated like a dynamically-installed DJAR.

You can use the EXEC CICS FORMATTIME command to convert the LASTMODTIME value to the date-and-time format that you prefer.

If you issue an INQUIRE DJAR command before a newly-installed or updated DJAR has fully initialized, the returned LASTMODTIME value will be zero.

STATE(*cvda***)**
specifies a CVDA value indicating the state of the deployed JAR file. The CVDA values are:

DISCARDING
a DISCARD is in progress for this deployed JAR file.

INITING
The jar file is being copied to the shelf.

INSERVICE
Resolution of the copy of the jar file on the shelf has succeeded and the deployed JAR file is usable.

PENDINIT
Copying of the jar file to the shelf has not yet started.

PENDRESOLVE
Resolution of the copy of the jar file on the shelf has not yet started.

RESOLVING
The copy of the jar file on the shelf is being resolved.

UNRESOLVED
Resolution of the copy of the jar file on the shelf has failed and the deployed JAR file is unusable.

UNUSABLE
Copying the jar file to the shelf has failed and the deployed JAR file is unusable.

Conditions

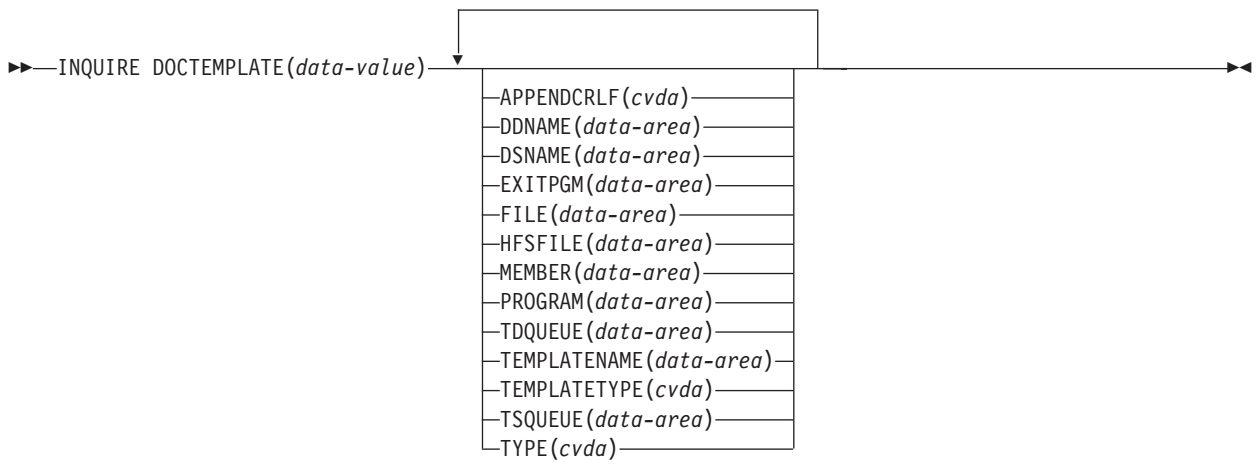
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
2 The named deployed JAR file was not found

INQUIRE DOCTEMPLATE

Find out whether a DOCTEMPLATE is installed.

INQUIRE DOCTEMPLATE



Conditions: END, ILLOGIC, NOTFND, NOTAUTH

This command is threadsafe.

Description

The INQUIRE DOCTEMPLATE command allows you to determine whether a particular DOCTEMPLATE is installed (defined in the current execution of your CICS system).

Browsing

You can also browse through all of the DOCTEMPLATE installed in your system by using the browse options (START, NEXT, and END) on INQUIRE DOCTEMPLATE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

APPENDCRLF(*cvda***)**
returns a CVDA value identifying whether CICS is to delete trailing blanks from and append carriage-return line-feed to each logical record of the template. CVDA values are:

APPEND
delete trailing blanks from and append carriage-return line-feed to each logical record of the template.

NOAPPEND
do not delete trailing blanks from or append carriage-return line-feed to each logical record of the template.

DDNAME(*data-value***)**
returns the DD name of the PDS containing the template. The DDName applies only to a template of type PDS.

DOCTEMPLATE(*data-value***)**
specifies the 8-character identifier of the DOCTEMPLATE about which you are inquiring.

DSNAME(*data-value***)**
returns the data set name of the PDS containing the template. It applies only to a template of type PDS.

EXITPGM(*data-value***)**
returns the exit program to be invoked when a request is made for this template. The exit program is passed an architected commarea containing the address and length of a buffer into which the exit program returns the template.

FILE(*data-value***)**
returns the 8-character name of the CICS file definition for the data set containing the template.

HFSFILE(*data-value***)**
returns the fully-qualified name of the z/OS UNIX System Services HFS file where the template resides. This can be up to 255 characters in length.

MEMBER(*data-value***)**
returns the name of the member in the PDS containing the template. MEMBER applies only to a template of type PDS.

PROGRAM(*data-value***)**
returns the program in which the template data is stored. CICS loads the program and takes all data after the entrypoint to be the template.

TDQUEUE(*data-value***)**
returns the name of the TD queue on which the template is stored.

TEMPLATENAME(*data-value***)**
returns the extended template-name by which the doctemplate is to be known outside the resource definition function.

TEMPLATETYPE(*cvda***)**
returns a CVDA value identifying the type of the source of this template. CVDA values are:

EXIT an exit program.

FILE a CICS file name for a data set.

HFSFILE
a z/OS UNIX System Services HFS file.

PDSMEMBER
a name of the member in the PDS described in DDNAME.

PROGRAM
a name of a program.

TDQ a name of a TD queue.

TSQ a name of a TS queue.

TSQUEUE(*data-value***)**
returns the name of the TS queue on which the template is stored.

TYPE(*data-value***)**
returns a CVDA value identifying the format of the template contents. CVDA values are:

BINARY

EBCDIC

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

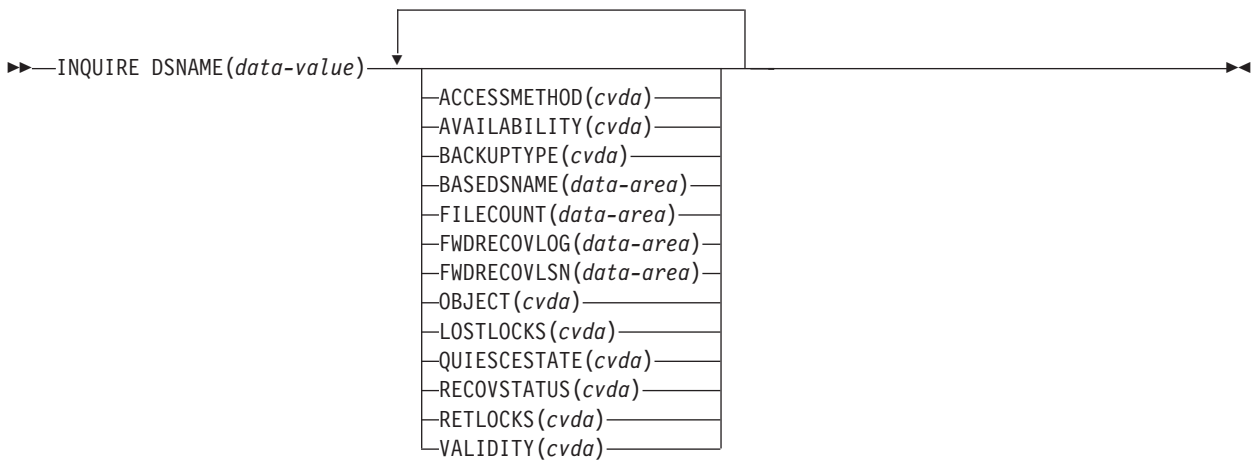
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The DOCTEMPLATE specified cannot be found.

INQUIRE DSNAME

Retrieve information about an external data set.

INQUIRE DSNAME



Conditions: DSNNOTFOUND, END, ILLOGIC, IOERR, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE DSNAME command returns information about the object associated with a FILE resource definition, which can be a BDAM data set, a VSAM data set, or a VSAM path to a data set through an alternate index.

Data sets are associated with files either dynamically, through the DSNAME option in the FILE definition, or statically, through the DSN option on the associated JCL DD statement. Many of the attributes of a data set cannot be determined until the first file that references the data set has been opened by the CICS region in which the command is issued. Where an attribute is not valid until a file has been opened, the NOTAPPLIC state is returned.

Note: Using options that require a read from the ICF catalog can slow down the processing of this command.

Browsing

You can also browse through all the objects associated with files installed in your system, by using the browse options (START, NEXT, and END) on INQUIRE DSNAME commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACCESSMETHOD(*cvda***)**
returns a CVDA value identifying the access method used with this data set. CVDA values are:

BDAM The access method is BDAM.

NOTAPPLIC
The data set has not been opened by the CICS region in which the command is issued.

VSAM The access method is VSAM.

AVAILABILITY(*cvda***) (VSAM only)**
returns a CVDA value indicating whether the data set is currently flagged, in this CICS region, as available or unavailable for use. The availability indicator is a local flag that a CICS region maintains in a data set name block (DSNB) for each data set. CVDA values are:

AVAILABLE
The data set is available for use according to the CICS data set name block. CICS can issue both RLS and non-RLS open requests for this data set.

Note: Although a data set is available according to information held by CICS, an open request could still fail if the ICF catalog indicates otherwise. This can occur, for example, if data set recovery is pending or actually in progress.

NOTAPPLIC
The data set is not a VSAM data set, or the data set has not been opened by the CICS region in which this command is issued.

UNAVAILABLE
Returned for a data set that CICS has marked as not available for use. The CICS region is unable to open the data set in either RLS or non-RLS mode.

BACKUPTYPE(*cvda***) (VSAM only)**
returns a CVDA value identifying the type of backup used for this data set. CVDA values are:

DYNAMIC
The data set is eligible for “backup while open” (BWO) processing; that is, a data set manager with the required function can take a backup of the data set while it is open for output. The data set can also be backed up while it is closed. The data set is eligible for BWO and it is accessed in non-RLS mode.

If the data set is opened in RLS mode, you need to look in the VSAM catalog to find out whether the data set is eligible for BWO. NOTAPPLIC is returned as the BACKUPTYPE for data sets opened RLS mode.

NOTAPPLIC
The data set has not been opened by the CICS region in which the command is issued, or the data set is BDAM or a VSAM PATH. Also, if the data set has been opened in RLS mode, NOTAPPLIC is returned. The VSAM catalog should be referred to get the BWO status.

STATIC
The data set is accessed in non-RLS mode, and is not eligible for BWO processing. All CICS files open for output against this data set must be closed before a data set manager, such as DFSMShsm™ or DFSMSdss, [2] can take a backup copy.

If the data set is opened in RLS mode, you need to look in the VSAM catalog to find out whether the data set is eligible for BWO.

UNDETERMINED
Returned for base files if RECOVSTATUS is UNDETERMINED.

BASEDSNAME(*data-area***) (VSAM only)**
returns the 44-character name of the base cluster associated with a VSAM path, when the object of the inquiry is a path. When the object is a VSAM data set, this option returns the same value as the DSNAME option.

Blanks are returned if the access method is BDAM, or if the data set has not been opened by the CICS region in which the command is issued.

DSNAME(*data-value***)**
specifies the 44-character identifier of the object about which you are inquiring. It must be associated with a FILE definition installed in CICS, named either in the DSNAME option of that definition or the JCL DD statement specified in the DDNAME option.

FILECOUNT(*data-area***)**
returns a fullword binary field indicating the number of installed file definitions that refer to this data set.

FWDRECOVLOG(*data-area***) (VSAM only)**
returns, as a half-word binary value, the numeric journal identifier of the journal being used as the forward-recovery log, if this is a forward-recoverable data set.

FWDRECOVLOG is undefined if the data set is not forward-recoverable. A data set can be defined as being forward recoverable in the ICF catalog or, if it is accessed in non-RLS mode, in the file definition.

This option is valid for data sets accessed only in non-RLS mode, and for which the recovery attributes are obtained from the file resource definition.

CICS returns a value of zero for forward-recoverable data sets accessed in RLS mode, or for non-RLS mode data sets for which CICS obtains the recovery attribute from the ICF catalog.

FWDRECOVLSN(*data-area***) (VSAM only)**
returns the name (up to 26 characters) of the log stream that is used to log the updates if this is a data set defined with forward-recovery attributes. CICS returns blanks if the data set is not forward recoverable.

The log stream name returned is either:

- The log stream name specified directly in the ICF catalog (for DFSMS/MVS® 1.3 or above), or
- For a non-RLS access mode data set that does not have forward recovery attributes in the ICF catalog, it is a log stream name identified by CICS through a journal name generated from the FWDRECOVLOG value.

2. Hierarchical storage manager (DFSMShsm) and data set services (DFSMSdss) are components of Data Facility Storage Management Subsystem (DFSMS/MVS).

LOSTLOCKS(*cvda***) (RLS only)**
returns a CVDA value indicating whether there are any lost locks for this data set. CVDA values are:

NOTAPPLIC
This is not an RLS data set, or the data set has not been opened by the CICS region in which the command is issued.

NOLOSTLOCKS
The data set has no lost locks.

REMLOSTLOCKS
The data set has lost locks, hence is unavailable, but no recovery is required on this CICS region.

RECOVERLOCKS
The data set has lost locks, hence is unavailable, and the CICS region is performing lost-locks recovery.

See the RESETLOCKS and the FORCE|COMMIT|BACKOUT options on the EXEC CICS SET DSNAME command for information about purging UOWs that might be holding up lost locks recovery.

OBJECT(*cvda***) (VSAM only)**
returns a CVDA value indicating whether the object of the inquiry is a real data set containing records (a VSAM KSDS, ESDS, or RRDS, or an alternate index used directly) or a VSAM path definition that links an alternate index to its base cluster. CVDA values are:

BASE This is a data set containing records.

NOTAPPLIC
The data set has not been opened by the CICS region in which the command is issued, or it is a BDAM data set.

PATH This is a path.

QUIESCESTATE(*cvda***) (VSAM only)**
returns a CVDA value indicating the RLS quiesce state of the data set. The information is obtained from the ICF catalog entry for the data set.

Note: This option is returned, whether or not the data set has been opened by the CICS region in which the command is issued.

CVDA values are:

NOTAPPLIC
This data set is:
- Migrated
- Accessed using BDAM
- Accessed using a level of VSAM that does not support RLS (that is, DFSMS/MVS is earlier than 1.3)

NOTAPPLIC is also returned if CICS is running without RLS support (the RLS=NO system initialization parameter is specified or implied).

QUIESCED
This data set has been quiesced. CICS cannot open files in RLS mode against the data set, and no CICS region has a file currently open against this data set. However, the data set can be opened in non-RLS mode.

QUIESCING
This data set is in the process of quiescing. It applies only to the CICS region that initiated the quiesce; for other CICS regions, UNQUIESCED is returned.

UNQUIESCED
The normal value for a data set that is not quiescing or is not quiesced. It indicates that files can be opened in RLS or non-RLS mode against the data set, the mode being established by the first open. After a file is opened in one mode, other files can be opened only in the same mode.

RECOVSTATUS(*cvda***)**
returns a CVDA value identifying the recovery characteristics of the data set. CVDA values are:

FWDRECOVABLE
All updates to the data set are logged for both backout and forward recovery.

NOTAPPLIC
This is a BDAM data set or a VSAM path, or the data set has not been opened by the CICS region in which the command is issued.

NOTRECOVABLE
Updates to the data set are not logged.

This response may also be returned as the result of use of the XFCNREC global user exit. A program enabled at XFCNREC may indicate that file opens should proceed even if there is a mismatch in the backout recovery requirements for different files associated with same data set. In these circumstances, the data set is marked as NOTRECOVABLE to indicate that its data integrity can no longer be guaranteed. The condition remains until cleared by a CEMT SET DSNAME REMOVE or EXEC CICS SET DSNAME REMOVE command, or by an initial or cold start.

While the data set is in this state, backout logging is performed for a particular request based on the specification in the file definition. Therefore backout logging may occur for requests via one file and not via another.

RECOVERABLE
All updates to the data set are logged for backout.

UNDETERMINED
The recovery status is unknown because no files associated with this data set have been opened, or because the only files opened were defined as coupling facility data tables or as user-maintained data tables (where the recovery attributes are independent of the associated data set).

RETLOCKS(*cvda***)**
returns a CVDA value indicating whether there are any retained record locks, as a result of deferred recovery work by this CICS region, for the specified data set. CVDA values are:

NOTAPPLIC
This data set has not been opened by the CICS region in which the command is issued.

NORETAINED
This CICS region:

- Has no deferred recovery work for the base data set, and therefore no retained locks, or
- Has recovery work currently in progress.

Note that retained locks may be held against the data set by other CICS regions. The command needs to be issued on all regions in the sysplex to get a full picture of the state of the data set. See the *CICS Recovery and Restart Guide* for information about the CICS batch-enabling sample programs that assist you in doing this, and about the AMS SHCDS LIST subcommands that allow you to investigate retained locks held by CICS regions that are down.

RETAINED
This CICS region has deferred recovery work causing retained locks for the data set. One effect of this is that, if the data set was last opened in RLS mode, the locks are RLS locks and, therefore, the data set cannot be opened in non-RLS mode.

Another effect is that any FILE definitions that specify this data set cannot be changed to specify a different data set.

If the data set is a BDAM data set, or a VSAM data set accessed in non-RLS mode, the locks are CICS record locks, otherwise they are RLS record locks. The UOW that has retained locks is usually shunted, but it may be in the process of being retried.

VALIDITY(*cvda***)**
returns a CVDA value identifying whether the data set name has been validated against the VSAM catalog by opening a file associated with the data set. CVDA values are:

INVALID
The data set name has not been validated (validation has not yet occurred or has failed).

VALID The data set name has been validated.

You cannot find out what the RECOVSTATUS of a data set is unless VALIDITY has a setting of VALID.

Conditions

DSNNOTFOUND
RESP2 values:
1 The data set cannot be found.

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

IOERR
RESP2 values:
40 QUIESCESTATE was specified, but an error was raised by DFSMS/MVS when reading the ICF catalog.

48 The specified operation cannot be completed because the data set is migrated. Recall the data set and reissue the command.

49 An error was raised by DFSMS/MVS when reading the ICF catalog to establish the base data set name.

Note: If an IOERR occurs within a browse it does not terminate the browse operation, and CICS attempts to return as many parameter values as possible.

NOTAUTH

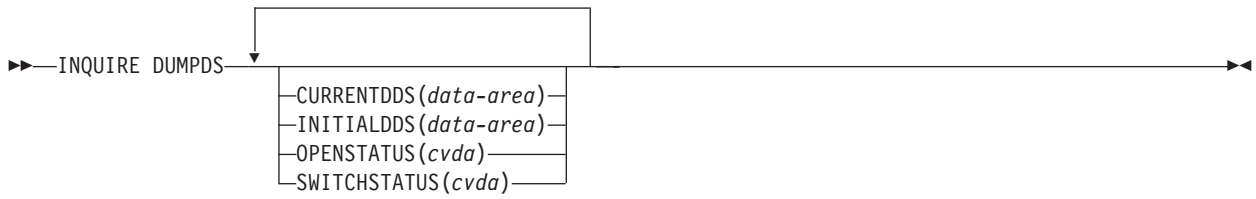
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

INQUIRE DUMPDS

Retrieve information about the CICS transaction dump data sets.

INQUIRE DUMPDS



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE DUMPDS command allows you to retrieve information about CICS transaction dump data sets. There can either be one of these, known as the ‘A’ data set, or two: ‘A’ and ‘B’. One is “active” (receiving dumps) and the other, if there are two, is “inactive” (standby).

Options

CURRENTDDS(*data-area***)**
returns the 1-character designator of the active dump data set (A or B). The active dump data set is not necessarily open.

INITIALDDS(*data-area***)**
returns a 1-character value indicating which dump data set CICS designates as active at startup.

A Dump data set A is active initially.

B Dump data set B is active initially.

X The dump data set that was not active when CICS last terminated (normally or abnormally) is active initially.

OPENSTATUS(*cvda***)**
returns a CVDA value identifying the status of the active CICS dump data set. CVDA values are:

CLOSED
The active CICS dump data set is closed.

OPEN The active CICS dump data set is open.

SWITCHSTATUS(*cvda***)**
returns a CVDA value indicating whether CICS should switch active data sets when the current one fills. CVDA values are:

NOSWITCH
No automatic switching occurs.

SWITCHNEXT
When the data set designated as active at startup fills, CICS closes it, opens the other, and makes that one active. This automatic switch occurs only once, when the first active data set fills; thereafter, switching is under manual or program control.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

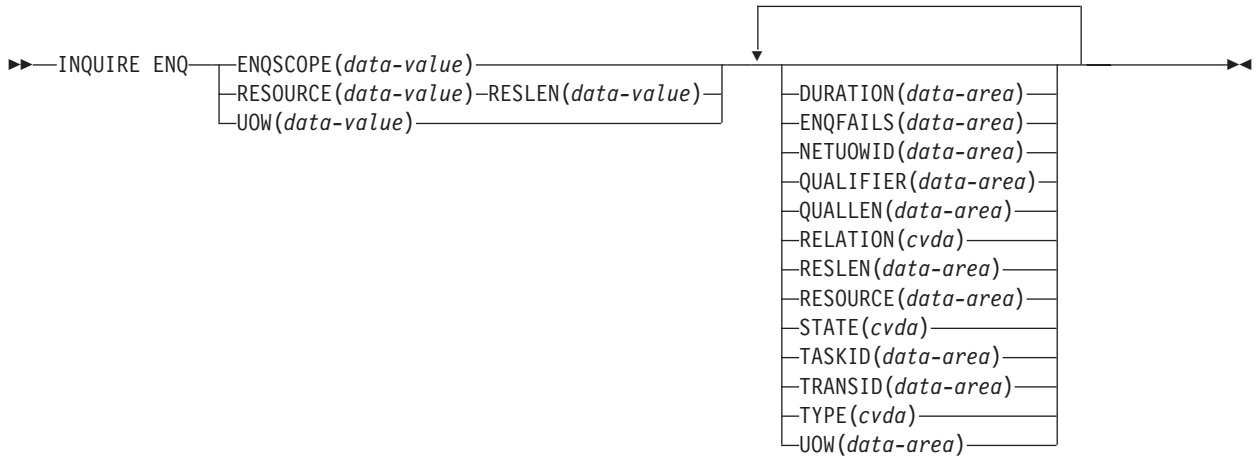
INQUIRE ENQ

Retrieve information about enqueues held or waited on by a UOW, or about UOWs holding or waiting on a specified enqueue.

INQUIRE ENQ is a synonym for INQUIRE UOWENQ; see “INQUIRE UOWENQ” on page 417 for a full description.

Browse only function
The INQUIRE ENQ command, (and the INQUIRE UOWENQ command), can be used only in browse mode.

INQUIRE ENQ

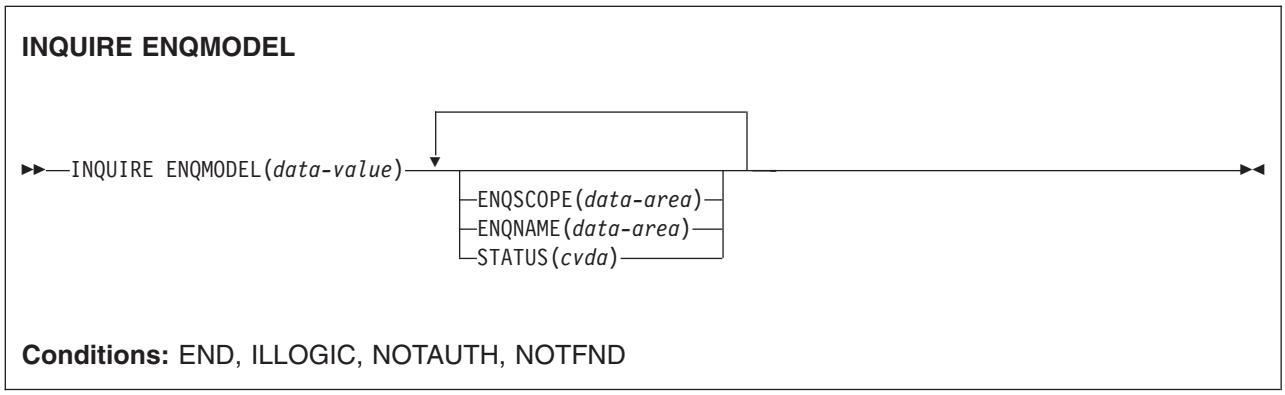


Conditions: END, ILLOGIC, NOTAUTH, UOWNOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

INQUIRE ENQMODEL

Retrieve information about enqueue model definitions on the local system.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE ENQMODEL command returns information about enqueue model definitions on the local system.

You can make an explicit INQUIRE for a given ENQMODEL, or use the browse form of the command. Browse returns all enqueue model definitions on the local system.

Browsing

To browse through all of the ENQ models in your local system, use the browse options (START, NEXT, and END) on INQUIRE ENQMODEL commands.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ENQMODEL(*data-value***)**
specifies the 8-character identifier of an enqueue model.

ENQSCOPE(*data-area***)**
returns the 4-character name which qualifies sysplex-wide ENQUEUE requests issued by this CICS region. Four blanks indicate that the enqueue is LOCAL.

ENQNAME(*data-area***)**
returns the 1 to 255-character resource name or generic name.

ENQ commands issued by this CICS region are checked against this resource or generic name. If a match is found, and ENQSCOPE was specified, the enqueue is sysplex-wide, qualified by the 4-character ENQSCOPE.

STATUS(*cvda***)**
returns a CVDA value describing the current state of the ENQMODEL. CVDA values are:

ENABLED
matching enqueue requests are being processed in the normal way.

DISABLED
matching enqueue requests are being rejected, and the issuing tasks are abending with code ANQE. Matching INSTALL CREATE or DISCARD requests are being processed.

WAITING
Matching enqueue requests are being rejected, and the issuing tasks are abending with code ANQE. There are INSTALL CREATE or DISCARD requests waiting to be processed.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

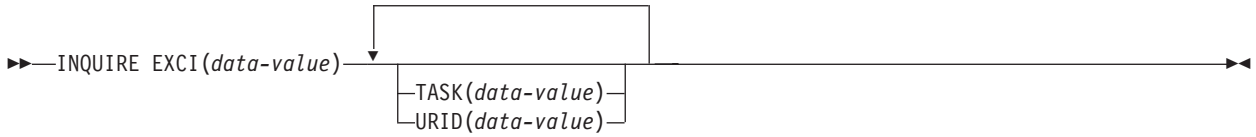
NOTFND
RESP2 values:
1 The ENQMODEL cannot be found.

INQUIRE EXCI

Retrieve information about jobs using the external CICS interface.

Browse only function
The INQUIRE EXCI command can be used only in browse mode.

INQUIRE EXCI



Conditions: END, ILLOGIC, NOTAUTH

Description

The INQUIRE EXCI command identifies the names of batch jobs currently connected to CICS through the interregion communication (IRC) facility.

Options

EXCI(*data-value***)**
returns a 35-character string identifying the EXCI client job and on what z/OS system it is running.

TASK(*data-value***)**
specifies, the fullword binary task number of the mirror transaction running on behalf of a specific batch job.

Information about jobs using the external CICS interface is available only after that job has issued at least one DPL request. A nonzero task number indicates that a DPL request is currently active. A zero task number indicates that an external CICS interface session is still open (connected) for that job, although no DPL request is currently active.

URID(*data-value***)**
specifies, when the job is using RRMS to coordinate updates, and when there is an active DPL request for the session, a 32-character string containing the hexadecimal representation of the RRMS Unit of Recovery Identifier.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH

RESP2 values:

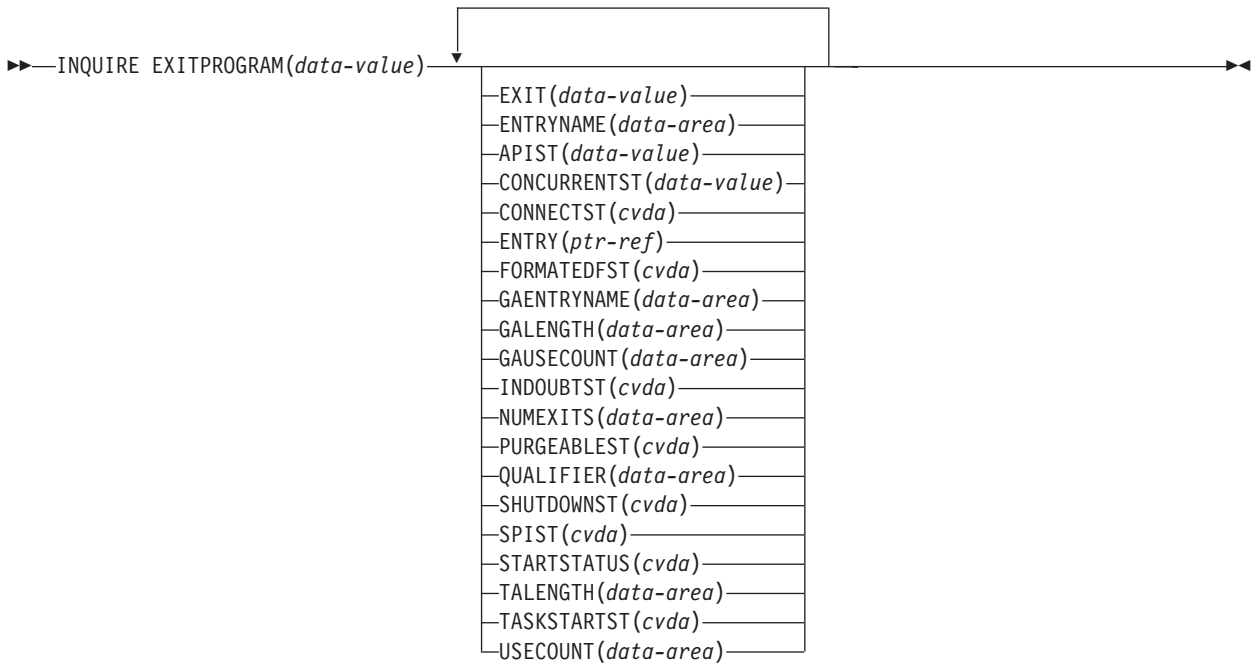
100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

INQUIRE EXITPROGRAM

Retrieve information about a user exit.

INQUIRE EXITPROGRAM



Conditions: END, ILLOGIC, INVREQ, NOTAUTH, PGMIDERR

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE EXITPROGRAM command returns information about a global or task-related user exit. You identify the exit about which you are inquiring with the ENTRYNAME and EXITPROGRAM options.

Browsing

You can also browse through the exit definitions in two different ways. To look at all of the global user exits defined at a particular exit point, you specify the exit point on the command that starts the browse, thus:

Browse EXITPROGRAM

```
INQUIRE EXITPROGRAM EXIT(data-value) START
```

To look at all user exits, both global and task-related, you omit the EXIT option on the command that starts the browse. You can distinguish between the two types by looking at the NUMEXITS value, which is zero for a task-related exit and positive for a global exit.

On either type of browse, the sequence in which the exits are retrieved is the time order in which they were enabled.

Options

APIST(task-related user exits only)
returns a CVDA indicating which APIs the task-related user exit program uses.

CVDA values are:

BASEAPI
CICSAPI has replaced BASEAPI. Both these CVDA values have the same meaning, and, for compatibility, BASEAPI is still accepted by the translator.

CICSAPI
The task-related user exit program is enabled as either QUASIRENT or THREADSAFE, but without the OPENAPI option. This means it is restricted to the CICS permitted programming interfaces. In releases before CICS TS for z/OS, Version 3, this CVDA was called BASEAPI.

OPENAPI
The task-related user exit program is enabled with the OPENAPI option. This means it is permitted to use non-CICS API, for which purpose CICS will give control to the task-related user exit under an L8 mode open TCB. OPENAPI assumes that the program is written to threadsafe standards.

CONCURRENTST
returns a CVDA indicating the concurrency status of the task-related user exit program, as specified by the latest ENABLE command for this program.

CVDA values are:

QUASIRENT
The task-related user exit program is defined as being quasi-reentrant, and is able to run only under the CICS QR TCB when invoking CICS services through the CICS API. To use any MVS services, this task-related user exit program must switch to a privately-managed TCB.

THREADSAFE
The program is defined as threadsafe, and is capable of running under an open TCB. If the APIST option returns OPENAPI, it will always be invoked under an open TCB. If the APIST option returns BASEAPI, it is invoked under whichever TCB is in use by its user task when the program is given control, which could be either an L8 mode open TCB or the CICS QR TCB.

CONNECTST(*cvda***) (task-related user exits only)**
returns a CVDA value indicating the state of the connection between the exit and the external resource manager that it supports. CONNECTST enables you to determine whether the specified exit has connected to its resource manager, so that CICS tasks can safely issue API requests to the resource manager.

For example, to inquire about the connection to DBCTL, use an EXITPROGRAM value of DFHDBAT and an ENTRYNAME value of DBCTL. To

inquire about the connection to DB2, use an EXITPROGRAM value of DFHD2EX1, or DSN2EXT1 (DSN2EXT1 is still recognised for compatibility with earlier releases) , with an ENTRYNAME of DSNCSQL, or DSNCCMD.

CVDA values are:

CONNECTED
The task-related user exit is connected to its external resource manager subsystem, and API requests can be issued.

NOTAPPLIC
The exit is not a task-related user exit.

NOTCONNECTED
The task-related user exit is not connected to its external resource manager subsystem, and therefore API requests cannot be issued.

UNKNOWN
The task-related user exit has been enabled and started, but not enabled for SPI requests. UNKNOWN can also be returned if CICS is unable to call the task related user exit. In both of these cases, CICS cannot tell whether it is connected to its external resource manager.

UNKNOWN is returned for all subsequent calls for the remaining lifetime of the task. A new task is able to call the task-related user exit and get the required information.

If the task-related user exit is not enabled, the INQUIRE command returns PGMIDERR. This also indicates that CICS is not connected to the resource manager.

Note: To determine whether DB2 or DBCTL is available, use CONNECTST rather than STARTSTATUS, because the task-related user exit can be started without having succeeded in making its database manager available to CICS.

ENTRY(*ptr-ref***)**
returns a fullword binary field indicating the entry address of the user exit.

ENTRYNAME(*data-area***)**
specifies the 8-character name of the exit about which you are inquiring. If you omit ENTRYNAME, CICS assumes that the name of the exit is the same as the name of the load module specified in the EXITPROGRAM option. Consequently, you must specify the same values for ENTRYNAME and EXITPROGRAM as were specified in the ENTRYNAME and PROGRAM options on the ENABLE command that created the exit. (EXITPROGRAM in this command corresponds to PROGRAM in an ENABLE command.)

EXIT(*data-value***) (global user exits only)**
specifies the 8-character identifier of an exit point with which the exit about which you are inquiring is associated. You must specify an exit point when you inquire about a global user exit. Exit points do not apply to task-related user exits, however, and you must not specify this option when you inquire about such an exit.

EXITPROGRAM(*data-value***)**
specifies the 8-character name of the load module associated with the exit about which you want information. This is the value that was specified in the PROGRAM option of the ENABLE command that defined the exit.

FORMATEDFST(*cvda***) (task-related user exits only)**
returns a CVDA value indicating that the FORMATEDF option is enabled for the

exit. FORMATEDF causes extra invocations of the exit for tasks executed under EDF, to format output screens and interpret input, and applies only to task-related user exits. CVDA values are:

FORMATEDF
FORMATEDF is turned on.

NOFORMATEDF
FORMATEDF processing is turned off.

NOTAPPLIC
This is a global user exit.

GAENTRYNAME(*data-area***)**
returns the 8-character name of the user exit that owns the global work area used by the exit about which you are inquiring.

This value is returned only when the exit uses a global work area owned by another exit. Blanks are returned if it has allocated its own work area.

GALENGTH(*data-area***)**
returns a halfword binary field indicating the length of the global work area for the exit.

Note: If a GALENGTH greater than 32767 has been defined (see "GALENGTH for ENABLE PROGRAM" on page 159 for details), the response to this command reflects that higher value as follows:
- If you issued the INQUIRE EXITPROGRAM command at your terminal, the response shows a negative value for GALENGTH.
- If you issued the INQUIRE EXITPROGRAM command from a program, the high order bit of the response for GALENGTH is set. You must allow for this possibility when deciding what operation to next perform on the returned value.

GAUSECOUNT(*data-area***)**
returns a halfword binary field indicating the total number of global or task-related user exits that are using the global work area owned by this exit. This count includes the owning exit program. A zero is returned if the exit is not the owner.

INDOUBTST(*cvda***)**
returns a CVDA value indicating whether the task-related user exit is enabled with the INDOUBTWAIT keyword. CVDA values are:

NOTAPPLIC
The exit being inquired upon is a global user exit.

NOWAIT
The exit is not enabled with the INDOUBTWAIT keyword.

WAIT The exit is enabled with the INDOUBTWAIT keyword.

NUMEXITS(*data-area***) (global user exits only)**
returns a halfword binary field indicating the number of global user exit points at which the exit is enabled. A zero is returned if this is a task-related user exit.

PURGEABLEST(*cvda***) (task-related user exits only)**
returns a CVDA value indicating whether the task-related user exit is enabled with the PURGEABLE keyword. CVDA values are:

NOTAPPLIC
The exit being inquired upon is a global user exit.

NOTPURGEABLE
Tasks are not purgeable from CICS waits within the task-related user exit.

PURGEABLE
Tasks are purgeable from CICS waits within the task-related user exit.

QUALIFIER(*data-area***)**
returns, for a task-related user exit that is enabled for SPI calls, the 8-character qualifier returned by the exit.

For global user exits and task-related user exits that are not enabled for SPI calls, returns blanks.

SHUTDOWNST(*cvda***) (task-related user exits only)**
returns a CVDA value indicating whether the SHUTDOWN option is enabled for the exit. SHUTDOWN causes invocation during CICS shutdown, and applies only to task-related user exits. CVDA values are:

NOSHUTDOWN
The exit is not invoked when a CICS shutdown occurs.

NOTAPPLIC
This is a global user exit.

SHUTDOWN
The exit is invoked when a CICS shutdown occurs.

SPIST(*cvda***)**
returns a CVDA value indicating whether the task-related user exit is enabled for SPI calls. CVDA values are:

NOSPI
The exit is not enabled for SPI.

NOTAPPLIC
The exit being inquired upon is a global user exit. This occurs only when the INQUIRE command is explicitly for a global user exit. For example:

```
INQUIRE EXITPROGRAM(abcd) exit(XFCREQ)
```

If you omit EXIT(XFCREQ), you are inquiring about a task-related user exit. Because all global user exits are, by default, task-related user exits as well, NOSPI is returned.

SPI The exit is enabled for SPI.

STARTSTATUS(*cvda***)**
returns a CVDA value identifying whether the exit is available for execution. CVDA values are:

STARTED
The exit program is available for execution; that is, the START option on an EXEC CICS ENABLE command is still in force.

STOPPED
The exit program is not available for execution; that is, the START option has not been issued, or has been revoked by the STOP option on an EXEC CICS DISABLE command.

TALENGTH(*data-area***) (task-related user exits only)**
returns a halfword binary field indicating the length of the local (task-related)

work area for the exit. Local work areas apply only to task-related user exits. A zero is returned if this is a global user exit.

TASKSTARTST(*cvda***) (task-related user exits only)**
returns a CVDA value indicating whether the TASKSTART option is enabled for the exit. TASKSTART causes CICS to invoke the exit at the start and end of every task; it applies only to task-related user exits. CVDA values are:

NOTAPPLIC
This is a global user exit.

NOTASKSTART
The exit is not set for invocation at the start and end of every task.

TASKSTART
The exit is set for invocation at the start and end of every task.

USECOUNT(*data-area***)**
returns the number of times the exit program has been invoked.

Note: The value returned is the total number of times this exit program has been invoked at all the global user exit points and task related user exit invocation points that the exit program has been enabled and started at.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

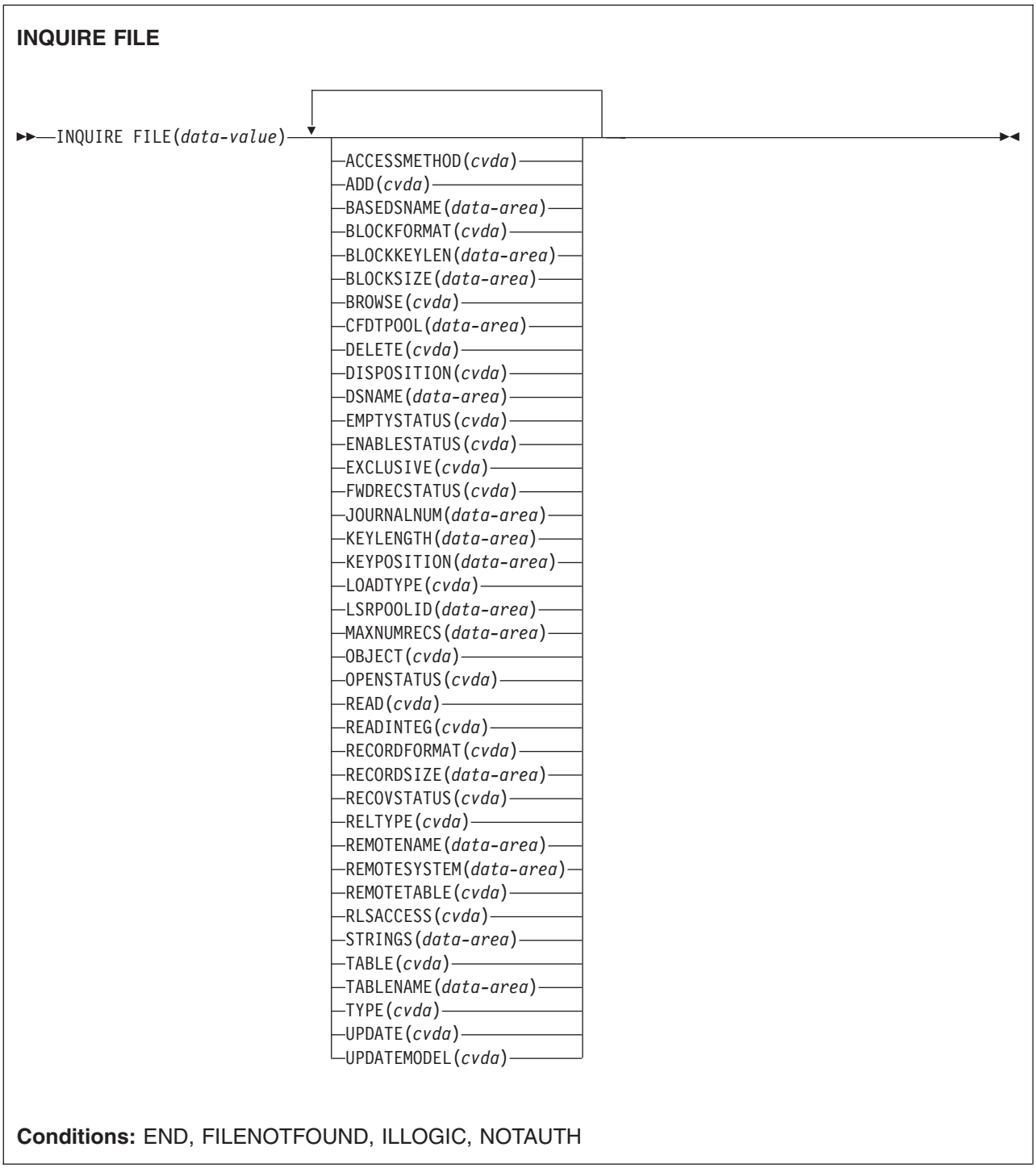
INVREQ
RESP2 values:
3 The exit point identified by EXIT does not exist.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

PGMIDERR
RESP2 values:
1 The exit identified by EXITPROGRAM and ENTRYNAME is not enabled, or the EXIT parameter is missing on an inquiry on a global user exit, or is present on a task-related user exit.

INQUIRE FILE

Retrieve information about a file.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE FILE command returns information about a FILE resource definition.

When the file is associated with a VSAM or BDAM object, INQUIRE FILE returns information about the associated object as well.

- For VSAM, the object may be a base cluster (a KSDS, ESDS, or RRDS), an alternate index, or a path to a base cluster through an alternate index.
- For BDAM, the object is a single MVS BDAM data set.

(You cannot use INQUIRE FILE to get information about DL/I data sets or data sets associated with other CICS resources or functions. However, see the INQUIRE DUMPDS, JOURNALNAME, and TDQUEUE commands if you need information about dump data sets, journals, or TD queues.

The values returned depend on:

- Whether the file is open or closed and, if it is closed, whether it ever has been open during the current execution of CICS.

  If the file is not open, you get default or null values, or values describing the most recent object associated with the file, as noted in the option descriptions that follow.
- Whether the file is local (defined on the same CICS system as the task making the inquiry) or remote (defined on another CICS system.)

  Less information is available for remote files, and so defaults or nulls are returned for some options.

  For further information about null values, see “Null values” on page 14.
- If a file is empty (in VSAM load mode), then, after the first write or massinsert has completed, the file is closed and left enabled. It remains so until the next access (write or read) when it is implicitly opened.

  If an INQUIRE is issued against the file before this next access occurs, the file shows CLOSED,ENABLED. This can be a temporary state for a file that has just completed load mode.

Some options for the INQUIRE FILE command are specific to one or another of the file objects supported by CICS, such as VSAM or BDAM data sets, and data tables. Many of these parameters can be specified even when the file refers to a different object from that to which the parameters apply. This is intended to make it easier to switch file definitions between different objects; for example, between non-RLS and RLS access, or between a user-maintained data table and a coupling facility data table. When a parameter is specified for an object to which the file does not currently refer, it is ignored.

Browsing

You can also browse through all of the files installed in your system by using the browse options (START, NEXT, and END) on INQUIRE FILE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACCESSMETHOD(*cvda***)**
returns a CVDA value identifying the access method for this file. CVDA values are:

BDAM The access method is BDAM.

REMOTE
The file is defined as remote, and therefore the access method is not known to the local CICS system.

VSAM The access method is VSAM. Access to a data table (except while it is being loaded or, for a CICS-maintained data table, when the source data set is being updated or searched for a record that is not in the table), is through CICS data table services. Because this access is still based on VSAM keys, CICS returns VSAM as the access method for any kind of data table.

ADD(*cvda***)**
returns a CVDA value identifying whether new records can be added to the file. CVDA values are:

ADDABLE
New records can be added to the file.

NOTADDABLE
New records cannot be added to the file.

BASEDSNAME(*data-area***) (VSAM only)**
returns the 44-character name of the base cluster associated with a VSAM path, if the object associated with the file is a path. If the object is other than a path, this option returns the same value as the DSNAME option.

The BASEDSNAME is blank if the file has not been opened since the last initial or cold start of this CICS. If the file has been opened at least once since the last initial or cold start, CICS returns the 44-character name, even though the file may not be open at the time the command is issued. This is because the name is preserved in the CICS catalog and recovered on a restart.

If the object is a coupling facility data table loaded from a source data set, the 44-character name returned on BASEDSNAME is the same as that returned on DSNAME. BASEDSNAME is blank for a coupling facility data table that is not associated with a source data set.

Note: The translator still accepts BASENAME for this option, but you should use BASEDSNAME in new code.

BLOCKFORMAT(*cvda***) (BDAM only)**
returns a CVDA value identifying whether records on the file are blocked or unblocked. CVDA values are:

BLOCKED
The records on the file are blocked, or this is a VSAM file.

UNBLOCKED
The records on the file are unblocked.

BLOCKKEYLEN(*data-area***) (BDAM only)**
returns a fullword binary field indicating the physical block key length for the file.

BLOCKSIZE(*data-area***) (BDAM only)**
returns a fullword binary field indicating the length in bytes of a block. If the blocks are of variable length or are undefined, the value returned is the maximum.

BROWSE(*cvda***)**
returns a CVDA value identifying whether you can browse the file. CVDA values are:

BROWSABLE
You can browse the file.

NOTBROWSABLE
You cannot browse the file.

CFDTPOOL(*data-area***) (CFDT only)**
returns the 8-character name of the coupling facility data table pool in which the coupling facility data table resides. CICS returns blanks if the file does not refer to a coupling facility data table and no pool name has been specified.

DELETE(*cvda***) (VSAM only)**
returns a CVDA value identifying whether you can delete records from the file. CVDA values are:

DELETABLE
You can delete records from the file.

NOTDELETABLE
You cannot delete records from the file.

DISPOSITION(*cvda***)**
returns a CVDA value indicating the value of the DISPOSITION option for the file (from the DISPOSITION option in the FILE definition or the JCL DD statement to which it points). CVDA values are:

OLD Disposition is OLD.

SHARE
Disposition is SHARE.

DSNAME(*data-area***)**
returns the 44-character name of the BDAM data set or VSAM object associated with the FILE definition.

If the file has not been opened since the last initial or cold start, the name is taken from the file resource definition. CICS returns blanks if the data set name is not defined on the file definition.

For a coupling facility data table loaded from a data set, CICS returns the 44-character source data set name, and blanks for a coupling facility data table that is not loaded from a data set.

EMPTYSTATUS(*cvda***) (VSAM only)**
returns a CVDA value indicating whether EMPTYREQ has been set for the file. EMPTYREQ causes the object associated with this file to be set to empty, if eligible, when the file is opened. VSAM data sets defined as reusable, and defined to be used in non-RLS mode, are the only ones that you can make empty in this way; EMPTYREQ has no effect on other objects. CVDA values are:

EMPTYREQ
The data set should be made empty.

NOEMPTYREQ
The data set should not be made empty.

ENABLESTATUS(*cvda***)**
returns a CVDA value identifying whether application programs can access the file. CVDA values are:

DISABLED
The file is unavailable for access by application programs because it has been explicitly disabled. It must be explicitly enabled by a SET FILE ENABLED command or its CEMT equivalent before it can be accessed by application programs.

DISABLING
A request to disable the file has been received, but tasks are executing

that had previously accessed the file. These tasks are allowed to complete their use of the file, but new tasks are not allowed access.

ENABLED
The file is available for access by application programs.

UNENABLED
The file is unavailable for access by application programs because it is closed. It must be explicitly enabled by a SET FILE OPEN command or its CEMT equivalent before it can be accessed by application programs.

UNENABLING
A request to close the file has been received, but tasks are executing that had previously accessed the file. These tasks are allowed to complete their use of the file, but new tasks are not allowed access.

EXCLUSIVE(*cvda***) (BDAM only)**
returns a CVDA value identifying whether records on this file are to be placed under exclusive control when a read for update is issued. CVDA values are:

EXCTL
A record on this file is placed under exclusive control of the reading task when it is read for update.

NOEXCTL
A record on this file is not placed under exclusive control when it is read for update.

FILE(*data-value***)**
specifies the 8-character name of the file about which you are inquiring.

FWDRECSTATUS(*cvda***) (VSAM only)**
returns a CVDA value identifying whether the file is forward-recoverable.

The value CICS returns for FWDRECSTATUS depends on whether the file has been opened since the last initial or cold start:

- If the file has not been opened since the last initial or cold start, CICS returns the value from the file definition.
- If the file has been opened at least once since the last initial or cold start, CICS returns the value that was used when the file was last opened. This can be different from the value on the file definition because, for example, the file definition may be overridden by a value from the ICF catalog.

CVDA values are:

FWDRECOVABLE
The file is forward-recoverable. The RECOVERY option of the FILE definition specifies that updates to the file are to be recorded, to make forward recovery of the file possible. The forward-recovery log can be found using INQUIRE DSNAME.

NOTFWDRCVBLE
The file is not forward-recoverable. CICS returns NOTFWDRCVBLE for a coupling facility data table and a user-maintained data table.

JOURNALNUM(*data-area***)**
returns a halfword binary field indicating the number of the journal to which CICS writes the information required for autojournaling. The value returned in JOURNALNUM is the number specified by the JOURNAL parameter in the file resource definition.

Journal numbers are between 1 and 99 and correspond to journal names DFHJ01 through DFHJ99. A value of 0 means that JOURNAL(NO) is specified and CICS does not perform autojournaling for the file.

JOURNALNUM is ignored for user-maintained and coupling facility data tables: There is no autojournalling of requests made to these tables.

KEYLENGTH(*data-area***)**
returns a fullword binary field indicating the length of the record key for a file associated with a VSAM KSDS or a file associated with a coupling facility data table. If the file is associated with a BDAM data set, the value is the length of the logical key used for deblocking.

Notes:

1. If the file is closed and the key length is not defined in the file definition, the value returned is 0 (zero).
2. If the file is closed and a key length is defined on the file definition, CICS returns the value from the file definition.
3. If the file is open, most files get their key length from the associated data set, in which case CICS returns the value from the data set. However, files that refer to coupling facility data tables defined with LOAD(NO) must get their keylength from the file definition, in which case CICS returns the value from the file definitions for such files. This value must also match that of the coupling facility data table if it has already been created.

KEYPOSITION(*data-area***)**
returns a fullword binary field indicating the starting position of the key field in each record relative to the beginning of the record. The start is made at position 0. If there is no key, or if the file is not open, CICS returns a value of zero for the key position.

For a coupling facility data table associated with a source data set, where the file is open, the key position is obtained from the source data set. If the coupling facility data table is not associated with a source data set CICS returns zero.

LOADTYPE(*cvda***) (VSAM only)**
returns a CVDA value indicating the load type for a coupling facility data table. CVDA values are:

LOAD The coupling facility data table is, or is to be, preloaded from a source data set.

NOLOAD
The coupling facility data table is not preloaded from a source data set.

NOTAPPLIC
The file is not defined as a coupling facility data table, and no value is defined in the file resource definition.

CICS returns LOAD or NOLOAD if the file is not defined as a coupling facility data table, but one of these options is specified on the LOAD attribute of the file resource definition. In this case, the LOADTYPE CVDA indicates the load type that applies if the file definition is altered to specify TABLE(CF).

LOADTYPE has no significance for a CICS-maintained or user-maintained shared data table. A shared data table is always loaded from a source data set when the first file to reference the table is opened.

LSRPOOLID(*data-area***) (VSAM only)**
returns a fullword binary field indicating the number of the VSAM LSR pool associated with this file, in the range 1–8. If the file does not share buffers, this value is 0.

MAXNUMRECS(*data-area***) (data tables only)**
returns a fullword binary field indicating the maximum number of records that the data table for this file can hold. The value returned by CICS is affected by the following factors:

- If the file resource definition specifies a MAXNUMRECS numeric value, even though the object is not a table (NOTTABLE CVDA is returned on the TABLE option), CICS returns the specified value.
- If the file resource definition is specified with MAXNUMRECS(NOLIMIT), meaning the number of records is unlimited, CICS returns a value of zero. (Internally, CICS holds NOLIMIT as the maximum positive fullword value (+2147483647 or X7FFFFFFF).
- If the file is remote, CICS returns a value of minus 1 (-1).
- If the object is a coupling facility data table:
  - The maximum number of records can be altered by a coupling facility data table server command, leaving the file definition MAXNUMRECS value unchanged. CICS returns the value in the file definition until the file is opened, after which CICS returns the actual MAXNUMRECS value defined to the server.
  - If the value is changed again by a coupling facility data table server command, CICS obtains and returns the new value only after the file is next opened or inquired upon. Until then, CICS continues to return the old value.
  - You can use the server DISPLAY TABLE console command to obtain the current value for a coupling facility data table.

OBJECT(*cvda***) (VSAM only)**
returns a CVDA value indicating whether the file is associated with a data set (a VSAM KSDS, ESDS, or RRDS, or an alternate index used directly) or a VSAM path that links an alternate index to its base cluster. CVDA values are:

BASE The file is associated with a data set that is a VSAM base. CICS also returns BASE for data tables (data table access provides primary key access only, not access though a path).

PATH The file is associated with a path.

You get a value of PATH only if the file defines a path to a VSAM base data set through an alternate index. If the file definition allows direct access to an alternate index, or if the path is used merely as an alias to a base data set, you get a value of BASE. Also, if the file has not been opened since the last initial or cold start, CICS returns a default value of BASE.

If the file is a data table, the OBJECT option refers to its source data set.

OPENSTATUS(*cvda***)**
returns a CVDA value identifying whether the file is open, closed, or in a transitional state. The OPENSTATUS value affects the ability of application tasks to access the file, but only indirectly; see the ENABLESTATUS option description for the rules. CVDA values are:

CLOSED
The file is closed.

CLOSING
The file is in the process of being closed. Closing a file may require dynamic deallocation of data sets and deletion of shared resources, in which case close processing may last a significant length of time.

CLOSEREQUEST
The file is open and in use by one or more application tasks. An EXEC CICS SET FILE CLOSED or a CEMT SET FILE CLOSED request has been received, but closing is not complete (the ENABLESTATUS of the file is DISABLING).

NOTAPPLIC
The OPENSTATUS value does not apply to this type of file. For example, it does not apply to a remote file.

OPEN The file is open.

OPENING
The file is in the process of being opened.

READ(*cvda***)**
returns a CVDA value identifying whether you can read records from the file. CVDA values are:

NOTREADABLE
You cannot read records from the file.

READABLE
You can read records from the file.

READINTEG(*cvda***)**
returns a CVDA value indicating the default level of read integrity that is active for the file if a read integrity option is not explicitly coded on a file read request command. CVDA values are:

CONSISTENT
Read requests for this file are subject to consistent read integrity (unless otherwise specified on the read request).

NOTAPPLIC
Read integrity is not applicable for this file for one of the following reasons:
- The file is a VSAM file accessed in non-RLS mode
- The file is a remote file
- The file refers to a BDAM data set
- The file refers to a coupling facility data table.

Note: If you switch a file from RLS to non-RLS mode, the read integrity option specified for RLS mode is preserved. In this case, CICS returns NOTAPPLIC. If you switch the file back to RLS mode, CICS returns the saved read integrity in response to an INQUIRE FILE command.

REPEATABLE
Read requests for this file are subject to repeatable read integrity (unless otherwise specified on the read request).

UNCOMMITTED
No read integrity is specified for this file.

RECORDFORMAT(*cvda***)**
returns a CVDA value identifying the format of the records on the file. CVDA values are:

FIXED The records are of fixed length.

UNDEFINED
The format of records on the file is undefined. The UNDEFINED value is possible for BDAM data sets only.

VARIABLE
The records are of variable length. If the file is associated with a user-maintained data table, the record format is always variable length, even if the source data set contains fixed-length records.

RECORDSIZE(*data-area***)**
returns a fullword binary field indicating the actual size of fixed-length records, or the maximum size of variable-length records.

If the file is not open, CICS returns the value specified in the installed file definition.

If the file is open, most files get their record size from the associated data set, in which case CICS returns the value from the data set. However, files that refer to coupling facility data tables defined with LOAD(NO) must get their record size from the file definition, in which case CICS returns the value from the file definitions for such files. This value must also match that of the coupling facility data table if it has already been created.

RECOVSTATUS(*cvda***)**
returns a CVDA value identifying whether the file is recoverable.

The value CICS returns for RECOVSTATUS depends on whether the file has been opened since the last initial or cold start of the CICS region:

- If the file has not been opened since the last initial or cold start, CICS returns the value from the file definition.
- If the file has been opened at least once since the last initial or cold start, CICS returns the value that was used when the file was last opened. This can be different from the value on the file definition because, for example, the file definition may be overridden by a value from the ICF catalog (but any value from the ICF catalog is ignored for a user-maintained or CICS-maintained data table)..

CVDA values are:

NOTRECOVABLE
The file is not recoverable.

RECOVERABLE
The file is recoverable.

RELTYPE(*cvda***) (BDAM only)**
returns a CVDA value indicating whether relative or absolute addressing is used to access the file and, if relative, the type of relative addressing. CVDA values are:

BLK Relative block addressing is being used.

DEC The zoned decimal format is being used.

HEX The hexadecimal relative track and record format is being used.

NOTAPPLIC
Absolute (MBBCCHHR) addressing is being used (or the file is a VSAM file).

REMOTENAME(*data-area***)**
returns the 8-character name by which the file is known in the CICS region named in the REMOTESYSTEM option of its FILE definition. Blanks are returned if the file is not remote.

REMOTESYSTEM(*data-area***)**
returns a 4-character name of the CICS region in which the file is defined (from the REMOTESYSTEM value in the FILE definition). Blanks are returned if the file is not remote.

REMOTETABLE(*cvda***) (VSAM only)**
returns a CVDA value indicating whether the file represents an open remote data table. CVDA value can be:

REMTABLE
The file represents an open remote data table.

RLSACCESS(*cvda***)**
returns a CVDA value indicating whether the file is defined to be opened in RLS mode. CVDA values are:

NOTAPPLIC
The file is not eligible to be accessed in RLS mode because:
- It is a remote file, or
- It refers to a BDAM data set.

NOTRLS
The file refers to a data set defined to be accessed in non-RLS mode.

RLS The file refers to a data set defined to be accessed in RLS mode.

STRINGS(*data-area***) (VSAM only)**
returns a fullword binary field indicating the number of strings (concurrent operations) specified for the file in its FILE definition.

TABLE(*cvda***) (VSAM and CFDT only)**
returns a CVDA value indicating whether the file represents a data table. CVDA values are:

CFTABLE
The file represents a coupling facility data table.

CICSTABLE
The file represents a CICS-maintained data table.

NOTTABLE
The file does not represent a data table.

USERTABLE
The file represents a user-maintained data table.

TABLENAME(*data-area***) (CFDT only)**
returns the 8-character table name specified for the coupling facility data table on the file resource definition, if one is specified, or returns the file name if the table name is omitted from the file resource definition.

CICS returns blanks if the file does not refer to a coupling facility data table

TYPE(*cvda***)**
returns a CVDA value identifying the type of data set that corresponds to this file. The data set must be open to return the type of data set. CVDA values are:

ESDS The data set is an entry-sequenced data set.

KEYED
The data set is addressed by physical keys.

KSDS The data set is a key-sequenced data set or the file refers to a data table.

NOTKEYED
The data set is not addressed by physical keys.

RRDS The data set is a relative record data set.

VRRDS
The data set is a variable—length relative record data set.

NOTAPPLIC
The data set is not open.

UPDATE(*cvda***)**
returns a CVDA value identifying whether the file is updatable. CVDA values are:

NOTUPDATABLE
You cannot update records.

UPDATABLE
You can update records.

UPDATEMODEL(*cvda***) (CFDT only)**
returns a CVDA value indicating the update model specified for the coupling facility data table in the installed file definition. CVDA values are:

CONTENTION
The coupling facility data table is updated using the contention model.

LOCKING
The coupling facility data table is updated using the locking model.

NOTAPPLIC
The file does not refer to a coupling facility data table and UPDATEMODEL on the file resource definition does not specify a value.

It is possible to define a file that specifies LOCKING or CONTENTION on the UPDATEMODEL attribute when the file does not refer to a coupling facility data table. In this case, CICS returns the specified UPDATEMODEL value on the INQUIRE FILE command, and not NOTAPPLIC. If you redefine the command to refer to a coupling facility data table, the specified UPDATEMODEL takes effect.

For information about the contention and locking models, see the *CICS Resource Definition Guide*.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

FILENOTFOUND
RESP2 values:
1 The file cannot be found.

ILLOGIC

RESP2 values:

1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH

RESP2 values:

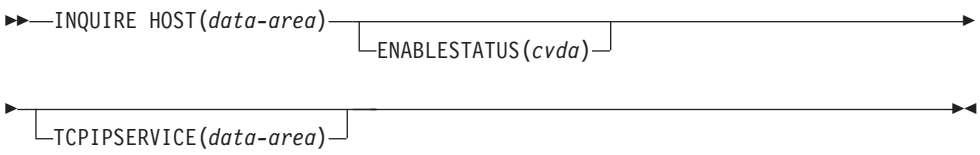
100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

INQUIRE HOST

Retrieve information about virtual hosts in the local system.

INQUIRE HOST



Conditions: END, ILLOGIC, INVREQ, NOTAUTH, NOTFND

This command is threadsafe.

Description

The INQUIRE HOST command allows you to retrieve information about a particular virtual host in the local CICS region. Virtual hosting in the *CICS Internet Guide* explains what virtual hosts are. Virtual hosts are based on the URIMAP resource definition object. CICS automatically creates virtual hosts for you, by grouping together into a single data structure all the URIMAP definitions in a CICS region that specify the same host name and the same TCPIPSERVICE. URIMAP definitions that specify no TCPIPSERVICE, and therefore apply to all of them, are added to all the data structures that specify a matching host name, so these URIMAP definitions might be part of more than one data structure.

Browsing

You can also browse through all the virtual hosts that exist in the region, using the browse options (START, NEXT, and END) on INQUIRE HOST commands. See Browsing resource definitions for general information about browsing, including syntax, exception conditions, and examples.

Options

HOST*(data-value)*
specifies the name of a virtual host. The name of each virtual host is taken from the host name specified in the URIMAP definitions that make up the virtual host. For example, if your CICS region contained URIMAP definitions that specified a host name of www.example.com, CICS would create a virtual host with the name www.example.com. A host name in a URIMAP definition can be up to 120 characters.

ENABLESTATUS*(cvda)*
returns a CVDA value indicating the status of this virtual host. CVDA values are:

ENABLED
The virtual host is enabled.

DISABLED
The virtual host is disabled. The URIMAP definitions that make up the virtual host cannot be accessed by applications.

TCPIPSERVICE*(data-area)*
returns the 1- to 8-character name of the TCPIPSERVICE definition that specifies the inbound port to which this virtual host relates. If this definition is not given, the virtual host relates to all TCPIPSERVICE definitions.

Conditions

END
RESP2 values are:

2 There are no more virtual hosts.

ILLOGIC
RESP2 values are:

1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

INVREQ
RESP2 values are:

10 The specified host name contains disallowed characters, or is blank.

NOTAUTH
RESP2 values are:

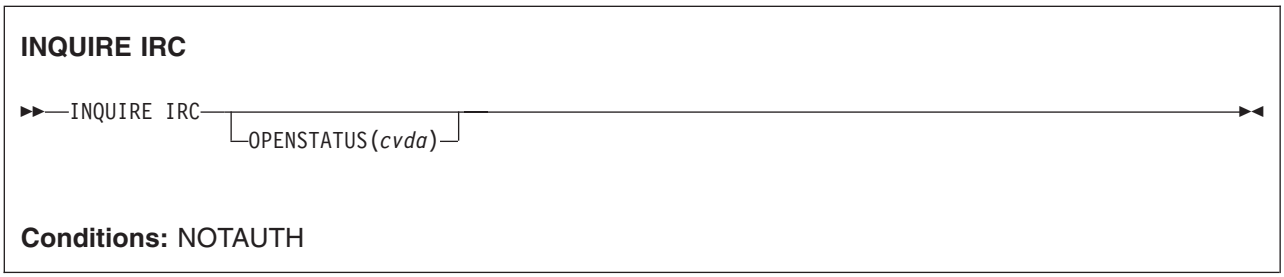
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values are:

5 The virtual host cannot be found.

INQUIRE IRC

Show the IRC status.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE IRC command indicates whether interregion communication (IRC) is open, closed, or in a transitional state in your CICS system. IRC must be open for your CICS region to communicate with another CICS region using any of the multiregion operation (MRO) facilities (IRC, XM, or XCF).

Options

OPENSTATUS(*cvda***)**
returns a CVDA value identifying the status of IRC in the system. CVDA values are:

CLOSED
IRC is closed for this system, or is not present in the system.

CLOSING
A SET IRC CLOSED request to quiesce MRO has been received; tasks that were already using an MRO link are being allowed to complete, but new tasks cannot use an MRO link.

IMMCLOSING
A SET IRC IMMCLOSE request to shut down MRO immediately has been received. Tasks that were using an MRO link are being terminated abnormally.

OPEN IRC is open for this system.

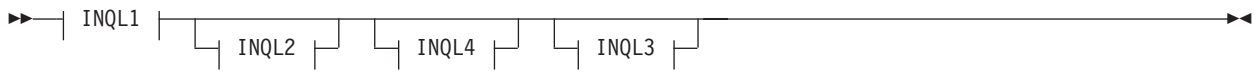
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE JOURNALMODEL

Retrieve information about installed journal models, thus enabling you to obtain corresponding log stream names.

INQUIRE JOURNALMODEL



INQL1

INQL2

INQL4

INQL3

Conditions: END, ILLOGIC, NOTAUTH, NOTFND

Description

The INQUIRE JOURNALMODEL command returns information about a particular installed journal model and enables you to obtain corresponding log stream names.

Browsing

You can also browse through all of the journal model names on your system by using the browse options (START, NEXT, and END) on INQUIRE JOURNALMODEL commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

CICS returns journal models in alphanumeric sequence of the JOURNALNAMEs specified in the journal model, but with specific names being returned before the generic names. The following examples of journal names defined on journal models show the order in which the journal models are returned on a browse JOURNALMODEL operation:

DFHJ15
DFHJ25
DFHJ%0
DFH*

USERJNL1
USERJNL2
USERJNL*

Options

JOURNALMODEL(*data-value***)**
specifies the 1- to 8-character name of an installed journal model.

JOURNALNAME(*data-area***)**
returns the 1- to 8-character journal name, which can be a specific or a generic name. See the *CICS Resource Definition Guide* for further information about the JOURNALNAME operand.

STREAMNAME(*data-area***)**
returns the MVS log stream name (LSN) associated with the JOURNALMODEL entry.

The name can be a specific LSN, or a template using a maximum of any 3 of the 4 symbols symbols &USERID, &APPLID, &JNAME and &SYSID.

The name, LSN or template, can be up to 26 characters in length. Names less than 26 character are padded with trailing blanks (X40).

TYPE(*cvda***)**
indicates the log stream type. The CVDA values are:

DUMMY
Records are not written to any log stream.

MVS Records are written to an MVS log stream.

SMF Records are written to the MVS SMF log stream.

Conditions

END
RESP2 values:
2 All authorized resources have been retrieved. All data areas specified on this command are left unchanged.

ILLOGIC
RESP2 values:
1 A START has been given when a browse is already in progress, or a NEXT or END has been given without a preceding START.
2 The browse token is not valid.

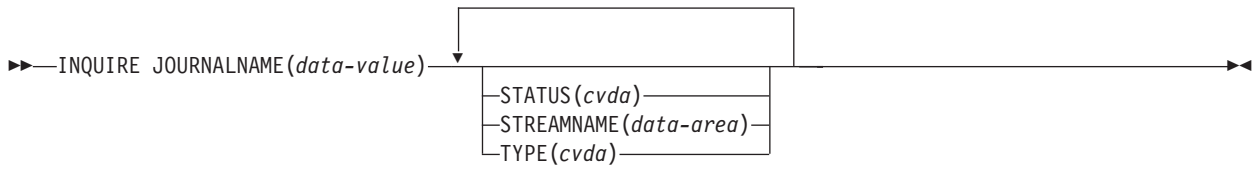
NOTAUTH
RESP2 values:
100 The user is not authorized for this command.

NOTFND
RESP2 values:
1 The specified journal model was not found.

INQUIRE JOURNALNAME

Retrieve information about the status of the system log and general logs.

INQUIRE JOURNALNAME



Conditions: END, ILLOGIC, JIDERR, NOTAUTH

Description

The INQUIRE JOURNALNAME command returns information about the journals (including the system log and general logs) on your system.

Browsing

You can also browse through all the journal entries in the journal names table on your system by using the browse options (START, NEXT, and END) on INQUIRE JOURNALNAME commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

JOURNALNAME(*data-value***)**
specifies a 1- to 8-character journal name.

To inquire on journals defined with a numeric identifier in the range 1–99, specify journal name DFHJ*nn*, where *nn* is the journal number.

To inquire on the system log, specify DFHLOG.

STATUS(*cvda***)**
indicates the status of the journal. CVDA values are:

DISABLED
The journal has been disabled by a CEMT, or EXEC CICS, SET JOURNALNAME(...) command. It cannot be used until it is reenabled by the STATUS(ENABLED) or ACTION(RESET) options on a SET JOURNALNAME command.

ENABLED
The journal is installed and is available for use.

FAILED
The journal has experienced a log stream failure. It cannot be used until it is reenabled by the STATUS(ENABLED) or ACTION(RESET) options on a SET JOURNALNAME command, or until after the next CICS restart. The log stream should be deleted from the MVS system logger inventory before being used again.

STREAMNAME(*data-area***)**
returns the MVS logger log stream name (LSN) associated with the journal name.

The name can be up to 26 characters in length. Names less than 26 character are padded with trailing blanks (X40). If the journal is defined by a journal model that specifies a type of DUMMY or SMF, CICS returns 26 blanks.

TYPE(*cvda***)**
Indicates the type of log stream format. CVDA values are:

DUMMY
Records are not written to any log stream.

MVS Records are written to an MVS logger log stream.

SMF Records are written to the MVS SMF log stream.

Conditions

END
RESP2 values:
2 All authorized resource definitions have been retrieved. All data areas specified on this command are left unchanged.

ILLOGIC
RESP2 values:
1 A START has been given when a browse is already in progress, or a NEXT, or an END, has been given without a preceding START.

JIDERR
RESP2 values:
1 The specified journal name was not found.

NOTAUTH
RESP2 values:
100 The user is not authorized for this command.
101 The user does not have the required access to the specified journal. (Not applicable to INQUIRE JOURNALNAME START, INQUIRE JOURNALNAME NEXT, or INQUIRE JOURNALNAME END commands.)

INQUIRE JOURNALNUM

This command is supported in releases of CICS earlier than CICS Transaction Server for OS/390 for retrieving information about the system log and user journals.

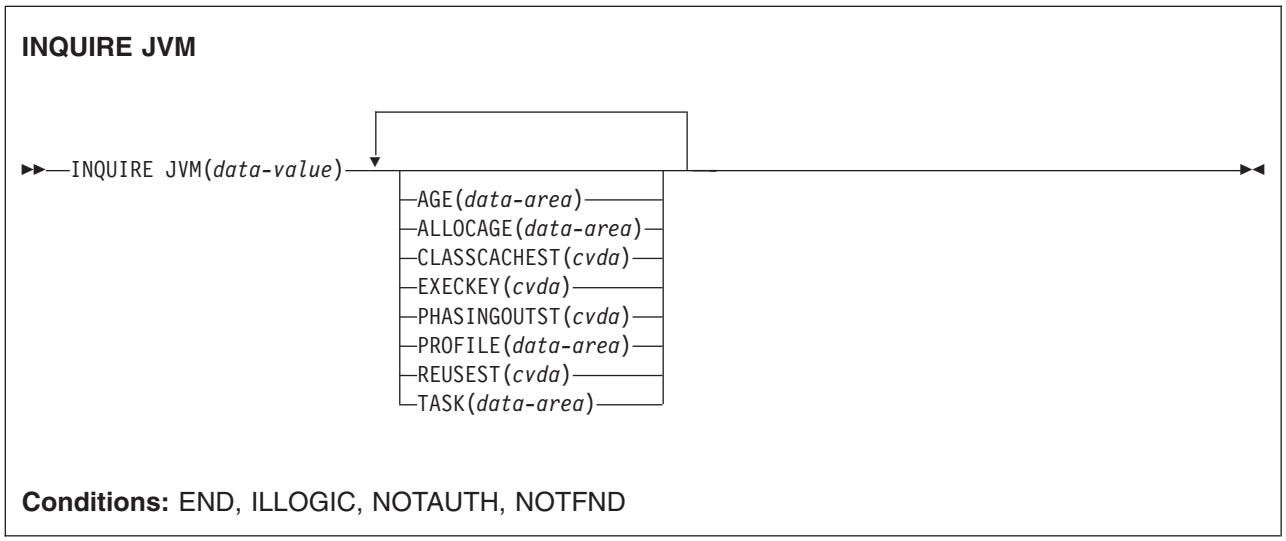
Description

For CICS Transaction Server for OS/390, this command is replaced by the INQUIRE JOURNALNAME command. All the options on INQUIRE JOURNALNUM are obsolete, and the only run-time support provided by CICS for compatibility with earlier releases is to return the JIDERR exception condition. The translator translates the command, but issues a warning message.

The browse function is provided for compatibility with releases of CICS earlier than CICS Transaction Server for OS/390. A NORMAL condition is returned for the START browse and END browse operations. The END condition is returned for the NEXT browse operation.

INQUIRE JVM

Identify JVMs in a CICS region and report their status.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE JVM command allows you to inquire on the status of a particular JVM, by specifying its JVM token. You can also use the browse function to browse through all of the JVMs in a CICS region, and to identify a JVM about which you want to inquire.

The INQUIRE JVM command does not find the master JVM that initializes the shared class cache. It only finds JVMs that are, or could be, allocated to tasks.

Browsing

You can browse through all of the JVMs in a CICS region by using the browse options (START, NEXT, and END) on the INQUIRE JVM command. The browse starts at the first JVM in the JVM pool, and moves through them in order of their JVM tokens. The browse guarantees that data for each JVM that exists prior to the first INQUIRE JVM NEXT command, and still exists after the last INQUIRE JVM NEXT command, is returned on exactly one INQUIRE JVM NEXT call. JVMs that are started while the browse is in progress can be found by the browse. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

JVM(*data-value***)**
specifies or returns the JVM token, a fullword binary value that identifies the JVM. This information is returned by an INQUIRE JVM browse, and you can then specify the JVM token for the JVM about which you want to inquire. The JVM token used in CICS is the same number that is used to identify the JVM in the z/OS UNIX environment, where it is known as the process id (PID) for the JVM.

AGE(*data-area***)**
returns a fullword binary value giving the number of seconds since the JVM was initialized.

ALLOCAGE(*data-area***)**
returns a fullword binary value giving the number of seconds for which the JVM has been allocated to its task, or zero if the JVM is not currently allocated to a task.

CLASSCACHEST(*cvda***)**
returns a CVDA value indicating whether the JVM is a worker JVM dependent on the shared class cache. CVDA values are:

CLASSCACHE
The JVM profile for this JVM specified the use of the shared class cache.

NOCLASSCACHE
The JVM profile for this JVM did not specify the use of the shared class cache.

EXECKEY(*cvda***)**
returns a CVDA value indicating the EXECKEY of the JVM. CVDA values are:

CICSEXECKEY
The JVM executes in CICS key.

USEREXECKEY
The JVM executes in user key.

PHASINGOUTST(*cvda***)**
returns a CVDA value indicating whether the JVM is being phased out as a result of an EXEC CICS SET JVMPOOL TERMINATE or EXEC CICS PERFORM CLASSCACHE TERMINATE command (or the equivalent CEMT commands). CVDA values are:

PHASEOUT
The JVM is being phased out.

NOPHASEOUT
The JVM is not being phased out. It is available for allocation, or will be available for allocation when the current allocation is ended.

PROFILE(*data-area***)**
returns the 8–character name of the profile used to initialize this JVM.

REUSEST(*cvda***)**
returns a CVDA value indicating the level of reusability for this JVM. CVDA values are:

RESET
The JVM profile for this JVM specified that it is resettable (or in the case of a worker JVM, the JVM profile for the master JVM specified that the master and worker JVMs are resettable).

REUSE
The JVM profile for this JVM specified that it is continuous (or in the case of a worker JVM, the JVM profile for the master JVM specified that the master and worker JVMs are continuous).

NOREUSE
The JVM profile for this JVM specified that it is single-use.

TASK(*data-area***)**
returns a 4–byte packed decimal value giving the task to which the JVM is allocated, or zero if the JVM is not currently allocated to a task.

Conditions

END
RESP2 values:
2 There are no more JVMs to browse.

ILLOGIC
RESP2 values:
1 A START has been given when a browse of JVMs is already in progress, or a NEXT or an END has been given without a preceding START.

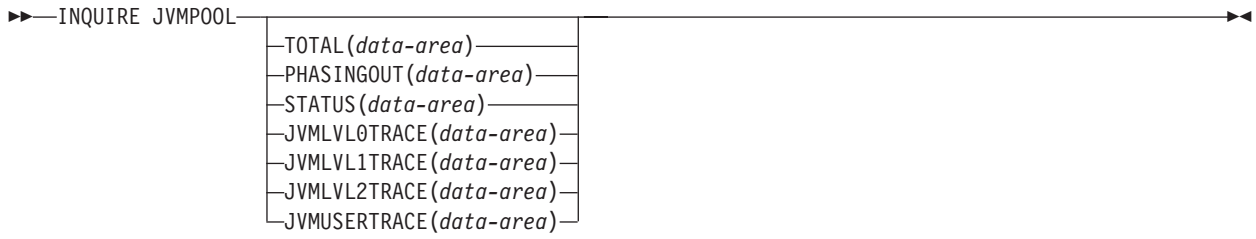
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
4 The named JVM was not found

INQUIRE JVMPOOL

Retrieve information about the pool of JVMs in the CICS address space.

INQUIRE JVMPOOL



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE JVMPOOL command returns information about the pool of JVMs in the CICS region. There can be only one pool of JVMs in a CICS region, therefore there is no name or identifier required on this command.

CICS determines the information you request from the actual JVMs that are started and pre-initialized in the CICS region.

Options

JVMLVL0TRACE(*data-area***), JVMLVL1TRACE(***data-area***), JVMLVL2TRACE(***data-area***), JVMUSERTRACE(***data-area***)**
return a 240–character data value giving the current options for JVM tracing, which are used when the associated level of tracing has been activated using the CICS-supplied transaction CETR, the SET TRACETYPE command, or the system initialization parameter SPCTRSJ. Trace levels 29–32 for the SJ component correspond to JVMLVL0TRACE, JVMLVL1TRACE, JVMLVL2TRACE and JVMUSERTRACE respectively.

PHASINGOUT(*data-area***)**
returns a fullword binary field giving the number of JVMs that are marked for removal from the JVM pool. These JVMs are still allocated to a task that is currently executing, or has executed, a Java program in the JVM.

When you issue an EXEC CICS SET JVMPOOL TERMINATE command (or the equivalent CEMT command), all the JVMs in the JVM pool are marked for removal. When you issue an EXEC CICS PERFORM CLASSCACHE TERMINATE command (or the equivalent CEMT command), all worker JVMs using the active shared class cache are marked for removal.

STATUS(*cvda***)**
returns a CVDA indicating the overall status of the JVM pool. The CVDA values are:

ENABLED
The pool is enabled for use and Java programs can execute using JVMs from the pool. This is the normal status.

DISABLED
The pool is disabled, and new requests cannot be serviced from the pool. Programs can still be executing if they were started before the JVM pool became disabled.

TOTAL(*data-area***)**
returns a fullword binary field giving the number of JVMs that have been initialized and are available for use or allocated to tasks. This total includes JVMs that are in the process of being terminated and removed from the region and included on the PHASINGOUT count.

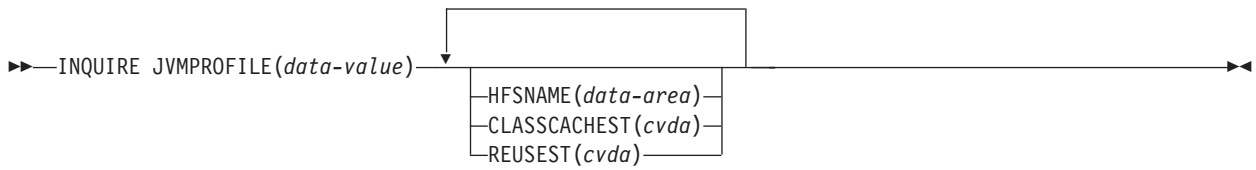
Conditions

NOTAUTH
RESP2 value:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE JVMPROFILE

Identify JVM profiles that have been used in a CICS region, and report their full path name and association with the shared class cache.

INQUIRE JVMPROFILE



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE JVMPROFILE command retrieves the full path name of the HFS file for a JVM profile, and tells you whether or not a JVM with this profile uses the shared class cache.

INQUIRE JVMPROFILE can only find JVM profiles that have been used during the lifetime of this CICS region, for JVMs that can run applications. It does not find JVM profiles that have not been used, or JVM profiles that have only been used for the master JVM that initializes the shared class cache.

Browsing

You can browse through all of the JVM profiles that have been used in a CICS region by using the browse options (START, NEXT, and END) on INQUIRE JVMPROFILE commands. Note that INQUIRE JVMPROFILE commands do not support the AT option for browsing. In browse mode, the JVM profiles are returned in alphabetical order. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

JVMPROFILE(*data-value***)**
specifies the 8–character name of the JVM profile, as used in a program definition.

When you use the name of a JVM profile anywhere in CICS, you must enter it using the same combination of upper and lower case characters that is present in the HFS file name.

HFSNAME(*data-area***)**
returns a 255–character area containing the full path name of the HFS file for the JVM profile.

CLASSCACHEST(*cvda***)**
returns a CVDA value indicating whether JVMs that use this JVM profile are worker JVMs dependent on the shared class cache. CVDA values are:

CLASSCACHE
The JVM profile specifies the use of the shared class cache.

NOCLASSCACHE
The JVM profile does not specify the use of the shared class cache.

REUSEST(*cvda***)**
returns a CVDA value indicating the level of reusability for JVMs that are created using this JVM profile. CVDA values are:

RESET
JVMs with this JVM profile are resettable.

REUSE
JVMs with this JVM profile are continuous.

NOREUSE
JVMs with this JVM profile are single-use.

Conditions

END
RESP2 values:
2 There are no more JVM profiles to browse.

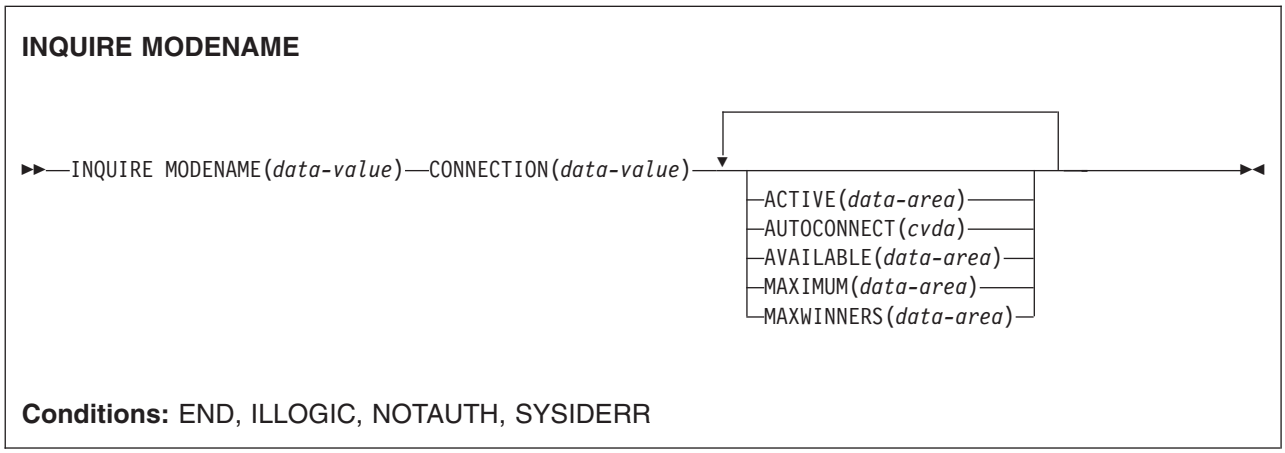
ILLOGIC
RESP2 values:
1 A START has been given when a browse of JVM profiles is already in progress, or a NEXT or an END has been given without a preceding START.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
3 The named JVM profile was not found.

INQUIRE MODENAME

Retrieve information about a session group within a connection.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE MODENAME command returns information about a group of sessions (sometimes called a “mode”) that has been defined within a connection to a remote system. (The MODENAME for the group is the name assigned to the SESSIONS resource definition that creates it.)

MODENAMEs are unique within a given connection, but not across connections. Therefore, to look at a particular session group, you must specify data values for both the MODENAME and CONNECTION options.

Browsing

You can also browse through all of the session groups for a particular connection, or all groups for all connections, by using the browse options (START, NEXT, and END) on INQUIRE MODENAME commands.

As in a single INQUIRE MODENAME command, you must include both the MODENAME and CONNECTION options on an INQUIRE MODENAME NEXT command. The data-area for MODENAME is optional; if you provide it, CICS uses it to return the name of the session group. The data-area for CONNECTION is required, however. If you want to limit your browse to a single connection, specify its name there. To see all groups, initialize this value to nulls on each INQUIRE MODENAME NEXT command, and CICS will use the data-area to return the connection name.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACTIVE(*data-area***)**
returns a halfword binary field giving the number of sessions within the group that are currently in use.

AUTOCONNECT(*cvda***)**
returns a CVDA value indicating whether the sessions within this group are to be bound automatically whenever CICS starts communication with VTAM. CVDA values are:

ALLCONN
CICS tries to bind both contention-winner and contention-loser sessions.

AUTOCONN
CICS tries to bind only sessions for which it is contention winner.

NONAUTOCONN
CICS does not try to bind any sessions.

AVAILABLE(*data-area***)**
returns a halfword binary field giving the current number of sessions in the group (the number “bound”).

CONNECTION(*data-value***)**
specifies the 4-character identifier of the remote system with which this group of sessions is associated (the name of the CONNECTION resource definition for that system).

MAXIMUM(*data-area***)**
returns a halfword binary field giving the maximum number of sessions that the definition of the session group permits.

MAXWINNERS(*data-area***)**
returns a halfword binary field giving the maximum number of sessions that the definition of the session group permits to be contention winners. A single-session APPC definition installed by RDO or autoinstall always shows 0 for this field.

MODENAME(*data-value***)**
specifies the 8-character identifier of the group of sessions about which you are inquiring. This is the name of the SESSIONS resource definition for the group.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SYSIDERR
RESP2 values:

1 The connection cannot be found.

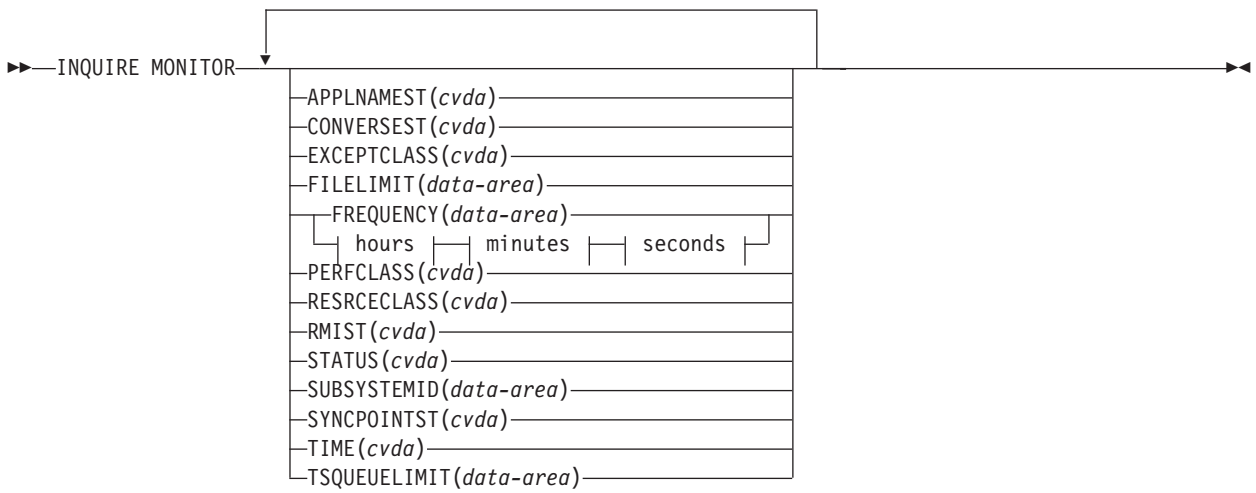
2 The modename within the connection cannot be found.

3 The connection specified on an INQUIRE MODENAME NEXT cannot be found.

INQUIRE MONITOR

Retrieve the status of CICS monitoring.

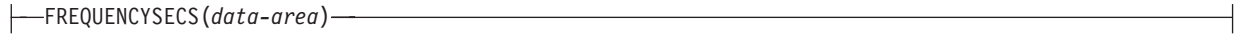
INQUIRE MONITOR



hours:

minutes:

seconds:



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE MONITOR command allows you to find out whether CICS monitoring is active, what types of data are being recorded, and other recording options.

CICS monitoring is controlled by a master switch (the STATUS option) and two switches that govern what types of data are recorded (the EXCEPTCLASS and PERFCLASS options). See the SET MONITOR command on page “SET MONITOR” on page 553 for a description of monitor data classes and details of how the switches interact.

Options

APPLNAMEST(*cvda***)**
returns a CVDA value indicating whether CICS application naming support is enabled. CVDA values are:

APPLNAME
CICS application naming support is enabled.

NOAPPLNAME
CICS application naming support is not enabled.

CONVERSEST(*cvda***)**
returns a CVDA value indicating how CICS is to record performance data for conversational tasks (tasks that wait for terminal or session input). CVDA values are:

CONVERSE
CICS produces a performance class record for a conversational task each time it waits for terminal input as well as at task end, representing the part of the task since the previous terminal wait (or task start). These waits occur during execution of a CONVERSE command or a RECEIVE command that follows a SEND.

NOCONVERSE
CICS accumulates performance data across terminal waits and produces a single performance class record for a conversational task.

EXCEPTCLASS(*cvda***)**
returns a CVDA value indicating whether the exception class of monitoring data is recorded when monitoring is active. CVDA values are:

EXCEPT
Exception data is recorded.

NOEXCEPT
Exception data is not recorded.

FILELIMIT(*data-area***)**
returns the maximum number of files for which CICS is to perform transaction resource monitoring.

FREQUENCY(*data-area***)**
returns the interval at which CICS produces performance class records for long-running tasks. If a task runs longer than the FREQUENCY interval, CICS records its performance data separately for each interval or fraction.

There are two formats for the frequency interval:

- A composite (packed decimal format 0hhmmss+, 4 bytes long) which you obtain by using the FREQUENCY option.
- Separate hours, minutes, and seconds, which you obtain by specifying the FREQUENCYHRS, FREQUENCYMIN, and FREQUENCYSEC options.

(A value of zero means that frequency reporting is inactive; that is, recording of performance data is not affected by the duration of the task.)

FREQUENCYHRS(*data-area***)**
returns the hours component of the frequency interval, in fullword binary form (see the FREQUENCY option).

FREQUENCYMIN(*data-area***)**
returns the minutes component of the frequency interval, in fullword binary form (see the FREQUENCY option).

FREQUENCYSEC(*data-area***)**
returns the seconds component of the frequency interval, in fullword binary form (see the FREQUENCY option).

PERFCLASS(*cvda***)**
returns a CVDA value indicating whether the performance class of monitoring data is recorded when monitoring is active. CVDA values are:

NOPERF
Performance data is not recorded.

PERF Performance data is recorded.

RESRCECLASS(*cvda***)**
returns a CVDA value indicating whether transaction resource monitoring is active in the CICS region. CVDA values are:

NORESRCE Transaction resource monitoring is not active.

RESRCE Transaction resource monitoring is active.

RMIST(*cvda***)**
returns a CVDA value indicating whether additional performance monitoring is active for the resource managers used by your transactions. CVDA values are:

RMI Performance monitoring is active for the resource managers used by your transactions.

NORMI
Performance monitoring is not active for the resource managers used by your transactions.

STATUS(*cvda***)**
returns a CVDA value identifying whether CICS monitoring is active in the region. CVDA values are:

OFF CICS monitoring is not active in the region. No monitoring data is accumulated or written out, irrespective of the settings of the monitoring data classes.

ON CICS monitoring is active. Data is accumulated for all classes of monitor data, and written out for those classes that are active.

SUBSYSTEMID(*data-area***)**
returns the 4-character nameused as the subsystem identification in the MVS workload activity reports. For information on the MVS workload activity reports and the subsystem identification, see the *CICS Performance Guide*. For information on how to specify the subsystem identification, see the MNSUBSYS parameter in the *CICS System Definition Guide*.

SYNCPOINTST(*cvda***)**
returns a CVDA value indicating whether CICS records performance class data separately for each unit of work (UOW) within tasks that contain multiple UOWs. A UOW within a task ends when a syncpoint occurs, either explicitly (a SYNCPOINT command) or implicitly (a DL/I TERM call, for example, or task end); a new UOW begins immediately after, except at end of task. When rollback occurs on a syncpoint, the UOW does not end. CVDA values are:

NOSYNCPOINT
Performance data is combined over all UOWs in a task for recording.

SYNCPOINT
Performance data is recorded separately for each UOW.

TIME(*cvda***)**
returns a CVDA value identifying whether the performance class time-stamp fields returned to an application using the COLLECT STATISTICS MONITOR command are expressed in local or Greenwich mean time. The value of this option has no effect on the other classes of monitoring data. See the *CICS Customization Guide* for information on the SMF header. CVDA values are:

GMT Time stamps are Greenwich mean time.

LOCAL
Time stamps are local time.

TSQUEUELIMIT(*data-area***)**
returns the maximum number of temporary storage queues for which CICS is to perform transaction resource monitoring.

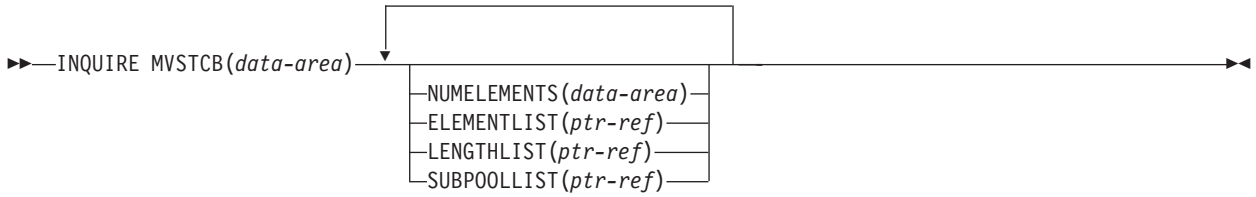
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE MVSTCB

Retrieve addresses and storage usage information for MVS TCBs.

INQUIRE MVSTCB



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE MVSTCB command returns the address and storage usage information for the MVS TCB.

Browsing

This command can only be used in browse mode.

Options

ELEMENTLIST(*ptr-ref***)**
returns the address of a list of the addresses of all areas of private storage owned by this TCB. The number of addresses in this list is the NUMELEMENTS option value.

CICS obtains the storage for this list and frees it when the inquiring task ends, or issues another INQUIRE MVSTCB command with the NUMELEMENTS option. The task cannot free the storage itself.

LENGTHLIST(*ptr-ref***)**
returns the address of a list of fullword binary lengths. Each entry in this list is the length of the storage area to which the corresponding entry in the ELEMENTLIST list points.

CICS obtains the storage for this list and frees it when the inquiring task ends, or issues another INQUIRE MVSTCB command with the NUMELEMENTS option. The task cannot free the storage itself.

NUMELEMENTS(*data-area***)**
returns the number of storage elements, in fullword binary form, owned by this TCB, in the data area you provide. If you request an ELEMENTLIST, LENGTHLIST, or SUBPOOLLIST, this value is the number of entries in the list.

MVSTCB(*data-area***)**
returns the address of the MVS TCB in the CICS address space. The TCB

address that is returned can be used as input to the EXEC CICS COLLECT STATISTICS MVSTCB command to retrieve the storage and CPU time information for the TCB.

SUBPOOLLIST(*ptr-ref***)**
returns the address of a list of fullword binary subpool numbers. Each entry in this list is the number of the MVS subpool for the corresponding entry in the ELEMENTLIST list.

CICS obtains the storage for this list and frees it when the inquiring task ends, or issues another INQUIRE MVSTCB command with the NUMELEMENTS option. The task cannot free the storage itself.

Conditions

END
RESP2 values:
2 All authorised resources have been retrieved. All data areas specified on this command are left unchanged.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

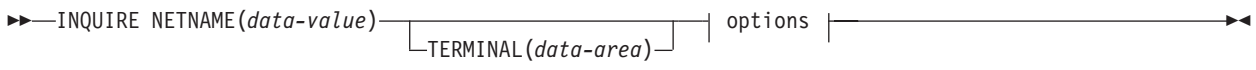
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The TCB specified on the command was not found.

INQUIRE NETNAME

Retrieve information about a terminal or session.

INQUIRE NETNAME/TERMINAL



options:

Conditions: NOTAUTH, TERMIDERR

Description

The INQUIRE NETNAME command returns information about a particular terminal or session, just as the INQUIRE TERMINAL command does. The primary difference is that you identify the terminal by its network identifier, instead of its CICS terminal identifier. For a physical terminal, the network identifier is the name by which the terminal is known to VTAM. For ISC sessions, it is the name by which the session (or session group, if there are parallel sessions) is known to VTAM. For MRO sessions, it is the name used by the connected region to log on to the interregion communication program.

Thus, compared with INQUIRE TERMINAL, the roles of the NETNAME and TERMINAL options are reversed; NETNAME is required, and you supply a data-value containing the 8-character network identifier of the terminal about which you are inquiring. TERMINAL is optional. If you use it, CICS returns the corresponding 4-character CICS terminal identifier in the data-area you provide.

The other options for INQUIRE TERMINAL return the same information in an INQUIRE NETNAME command as they do in an INQUIRE TERMINAL command.

If there are multiple entries for a netname, and the inquiry is not part of a browse, the first entry found is returned. Entries are searched in the following sequence:
1. VTAM terminals and consoles, in alphanumeric sequence.
2. Connections, in alphanumeric sequence. The leading session is returned (in a browse, all sessions are returned).

Note that this order is not guaranteed to be maintained in future releases.

Browsing

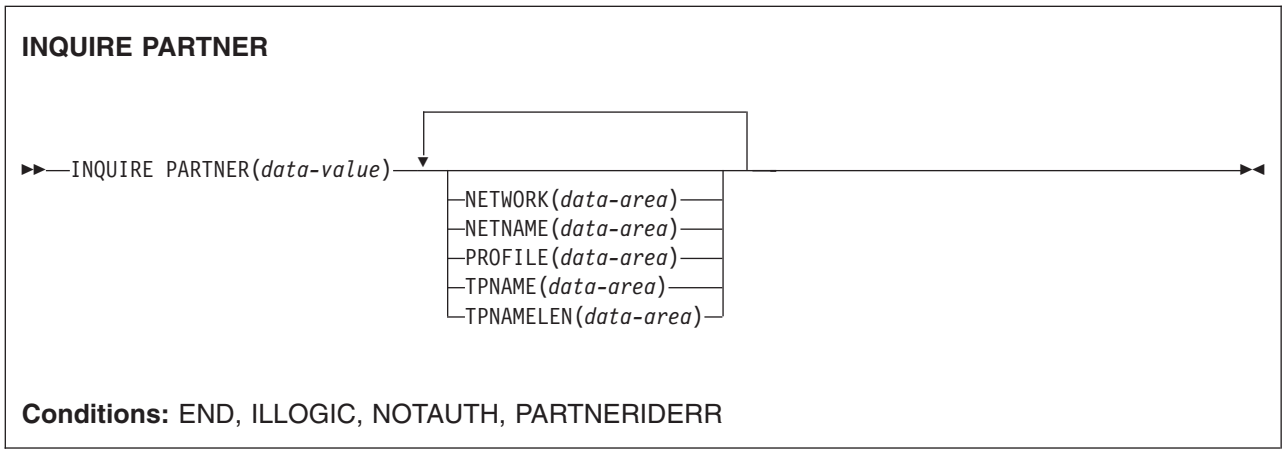
You can also browse through the definitions of all the netnames installed in your system by using the browse options (START, NEXT, and END) on INQUIRE NETNAME or INQUIRE TERMINAL commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Note that connections without sessions, such as indirect connections, or remote connections that are not in use, are not returned. If you want all connections to be returned, use the INQUIRE CONNECTION command.

See “INQUIRE TERMINAL” on page 358 for details of the options and conditions that apply to the INQUIRE NETNAME command.

INQUIRE PARTNER

Retrieve information about a partner.



Description

The INQUIRE PARTNER command returns information about a partner from the partner resource table.

Browsing

You can also browse through all of the partners defined in your system by using the browse options (START, NEXT, and END) on INQUIRE PARTNER commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

NETNAME(*data-area***)**
returns the 8-character name of the VTAM node in which the partner is located.

NETWORK(*data-area***)**
returns the 8-character name of the network in which the partner is located. If this value is blank, the partner is in the same network as your CICS system.

PARTNER(*data-value***)**
specifies the 8-character name of the partner about which you are inquiring. This is the name assigned in its PARTNER resource definition.

PROFILE(*data-area***)**
returns the 8-character name of the PROFILE definition specified in the PARTNER definition.

TPNAME(*data-area***)**
returns the name of the remote transaction program that runs on the partner LU (from the TPNAME or XTPNAME value in the PARTNER resource definition). This name can be up to 64 characters long; you can determine the actual length with the TPNAMELEN option.

TPNAMELEN(*data-area***)**
returns a halfword binary field giving the length in bytes of the information returned in TPNAME.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

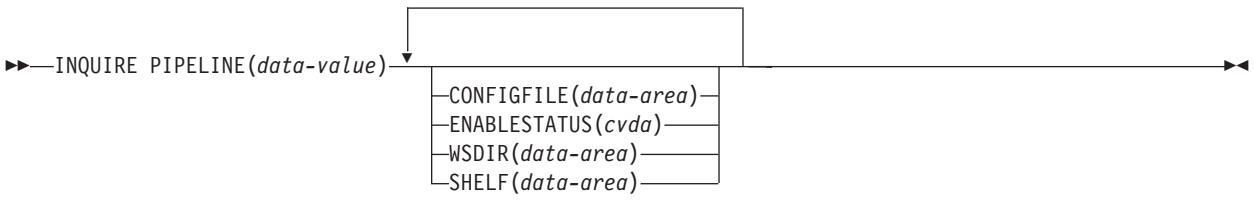
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PARTNERIDERR
RESP2 values:
1 The partner cannot be found.
2 Partner Resource Manager (PRM) is not active, because it failed to initialize during CICS initialization.

INQUIRE PIPELINE

Retrieve information about an installed PIPELINE.

INQUIRE PIPELINE



Conditions: NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

Use the INQUIRE PIPELINE command to retrieve information about an installed PIPELINE.

Browsing

You can browse through all the PIPELINEs installed in your system by using the browse options (START, NEXT, and END) on INQUIRE PIPELINE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

PIPELINE(*data-value*)
Specifies the name of the PIPELINE about which you are inquiring. The name can be up to 8 characters long.

CONFIGFILE(*data-area*)
Returns the name of the pipeline configuration file associated with the PIPELINE resource. The name can be up to 255 characters long.

ENABLESTATUS(*cvda*)
Returns the status of the PIPELINE:

ENABLED
The PIPELINE is ready for use.

DISABLED
The PIPELINE is not processing requests, and is unable to accept new work. It may have failed to initialize, or may have been explicitly disabled.

ENABLING
The PIPELINE is being initialized; it is not yet ready to accept work.

DISABLING
The PIPELINE is quiescing before entering DISABLED state. It is not accepting new work, but is allowing currently-executing work to complete.

DISCARDING
A DISCARD command has been issued for the PIPELINE. The PIPELINE is quiescing before being discarded. It is not accepting new work, but is allowing currently-executing work to complete.

WSDIR(*data-area*)
Returns the name of the *Web service binding directory* (also known as the *pickup directory*). The name can be up to 255 characters long.

SHELF(*data-area*)
Returns the name of the*shelf directory*. The name can be up to 255 characters long.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

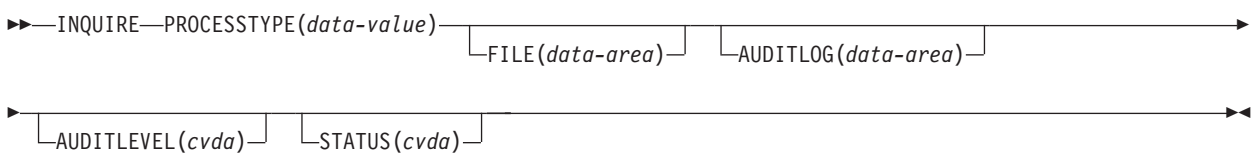
NOTFND
RESP2 values:
3 The PIPELINE cannot be found.

INQUIRE PROCESSTYPE

Browsing

Retrieve the attributes of a CICS business transaction services (BTS) process-type.

INQUIRE PROCESSTYPE



Conditions: NOTAUTH, PROCESSERR

Description

INQUIRE PROCESSTYPE returns the attributes of a specified process-type.

Browsing

You can also browse through all of the process-type definitions in your system by using the browse options (START, NEXT, and END) on INQUIRE PROCESSTYPE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

AUDITLEVEL(cvda)
indicates the level of audit currently active for processes of the specified type. CVDA values are:

ACTIVITY
Activity-level auditing. Audit records are written from:
1. The process audit points
2. The activity primary audit points.

FULL Full auditing. Audit records are written from:
1. The process audit points
2. The activity primary *and* secondary audit points.

OFF No audit trail records are written.

PROCESS
Process-level auditing. Audit records are written from the process audit points only.

For details of the records that are written from the process, activity primary, and activity secondary audit points, see the *CICS Business Transaction Services* manual.

AUDITLOG(data-area)
returns the 8-character name of the CICS journal used as the audit log for processes of the specified type.

FILE(data-area)
returns the 8-character name of the CICS file associated with the process-type.

PROCESSTYPE(data-value)
specifies the name (1–8 characters) of the process-type being inquired upon.

STATUS(cvda)
indicates whether new processes of the specified type can currently be defined. CVDA values are:

DISABLED
The installed definition of the process-type is disabled. New processes of this type cannot be defined.

ENABLED
The installed definition of the process-type is enabled. New processes of this type can be defined.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this resource in the way requested.

PROCESSERR
RESP2 values:
1 The process-type specified on the PROCESSTYPE option could not be found.

INQUIRE PROFILE

Determine whether a transaction profile is installed.

INQUIRE PROFILE

Conditions: END, ILLOGIC, NOTAUTH, PROFILEIDERR

Description

The INQUIRE PROFILE command allows you to determine whether a particular PROFILE definition is installed in your CICS system. The command has no options; you get a normal response if the profile about which you inquire is installed in your CICS system, and a PROFILEIDERR exception condition if it is not.

Browsing

You can also use the INQUIRE PROFILE command in browse form (the START, NEXT, and END options) to obtain the names of all of the profiles installed in your system. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

PROFILE(*data-value***)**
specifies the 8-character name of the profile about which you are inquiring.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

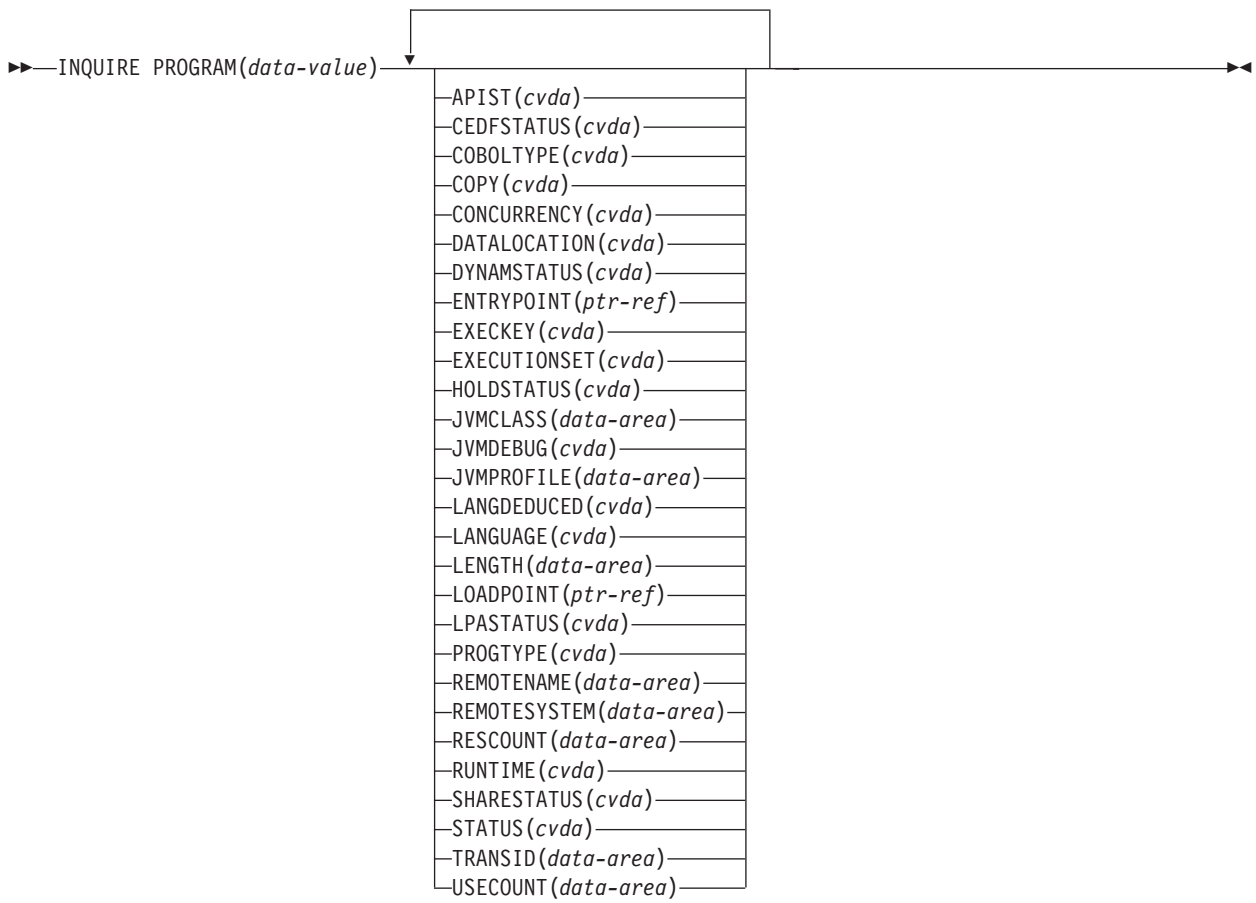
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PROFILEIDERR
RESP2 values:
1 The profile cannot be found.

INQUIRE PROGRAM

Retrieve information about a program, map set, or partition set.

INQUIRE PROGRAM



Conditions: END, ILLOGIC, NOTAUTH, PGMIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE PROGRAM command returns information about a particular program, map set, or partition set installed in your CICS system. All of these resources are load modules and, therefore, CICS uses the same INQUIRE command for all three. To avoid confusion, we use the word **module** to refer to the object of your inquiry, except in some cases where the option applies only to executable programs.

CICS determines the information you request from both the resource definition and, where applicable, the load module. Information from the module takes precedence over that in the definition if there is a conflict. However, CICS inspects a module

only if it is already loaded and is the copy currently available for use. CICS does not do a load for an INQUIRE PROGRAM command, nor attempt to autoinstall a resource for which it has no definition.

Browsing

You can also browse through the definitions of these three types of resources in your system by using the browse options (START, AT, NEXT, and END) on INQUIRE PROGRAM commands. In browse mode, the definitions are returned in alphabetical order, and you can specify a starting point with the AT option if you wish. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

APIST(*cvda***) (programs only)**
returns a CVDA value indicating the API attribute of the installed program definition. The API attribute is used for application programs, PLT programs, user replaceable modules and task related user exits. The API attribute is not used for global user exits. CVDA values are:

CICSAPI
The program is restricted to use of the CICS permitted application programming interfaces only. Dependent upon the program's CONCURRENCY setting, the application will either always run on the quasi-reentrant (QR) TCB, or if it is defined as threadsafe it may run on whichever TCB in use by CICS at the time which is determined as suitable.

OPENAPI
The program is not restricted to the CICS permitted application program interfaces only. CICS will execute the program on its own L8 or L9 mode open TCB dependent upon the EXECKEY setting. If when executing a CICS command, CICS requires a switch to QR TCB, it will return to the open TCB before handing control back to the application program. OPENAPI requires the program to be coded to threadsafe standards and defined with CONCURRENCY(THREADSAFE).

Notes:

1. The API attribute on the installed program resource definition for a task-related user exit program is not changed by any options specified on an ENABLE command. For a task-related user exit program, CICS always returns a CVDA using the values defined in the program resource definition.
2. You cannot modify a program's API attribute using the SPI--the API option is not supported on the EXEC CICS SET PROGRAM command. You can only change the API attribute by redefining the program's API option in the CICS program resource definition, or in the program autoinstall model, and reinstalling the definition.

CEDFSTATUS(*cvda***) (programs only)**
returns a CVDA value indicating the action taken by the execution diagnostic facility (EDF) transaction if this module is executed under EDF. CVDA values are:

CEDF EDF diagnostic screens are displayed. If the program was translated with the EDF option, all EDF screens are displayed; if it was translated with NOEDF, only the program initiation and termination screens appear.

NOCEDF
No EDF screens are displayed.

NOTAPPLIC
EDF is not applicable because the module is a remote program, a map set, or a partition set.

COBOLTYPE(*cvda*) (programs only)
returns a CVDA value indicating the type of COBOL in which the module is written, if it is a COBOL program. The type is determined by inspecting the load module. CVDA values are:

COBOL
The module is an OS/VS COBOL program. (OS/VS COBOL programs cannot run under CICS Transaction Server for z/OS Version 3.)

COBOLII
The module is a VS COBOL II program.

NOTAPPLIC
COBOL type does not apply, because the module is a remote program, a map set, or a partition set. This CVDA value is always returned for JVM programs.

NOTINIT
The module is defined as a COBOL program, but the type cannot be determined because the module has not been loaded yet.

CONCURRENCY
returns a CVDA indicating the concurrency attribute of the installed program definition. The CVDA values are:

QUASIRENT
The program is defined as being quasi-reentrant, and is able to run only under the CICS QR TCB.

THREADSAFE
The program is defined as threadsafe, and is able to run under whichever TCB is in use by its user task when the program is given control. This could be either an open TCB or the CICS QR TCB.

Notes:

1. If the program is not yet loaded (or is waiting to be reloaded following a NEWCOPY or PHASEIN request), the concurrency attribute is derived from the installed program resource definition. Note that the default for the program definition is QUASIRENT. However, in the case of a Language Environment-conforming program, the concurrency as originally defined can be overridden when the program is subsequently loaded. If CICS finds that the program itself contains a CONCURRENCY value defined by Language Environment run-time options, the installed program resource definition is updated by the Language Environment run-time option.
2. The CONCURRENCY attribute on the installed program resource definition is not changed by the FORCEQR system initialization parameter. CICS returns a CVDA of THREADSAFE for a threadsafe-defined program, even if FORCEQR=YES is specified.
3. The CONCURRENCY attribute on the installed program resource definition for a task-related user exit program is not changed by any options specified on an ENABLE command. For a task-related user exit program, CICS always returns a CVDA using the values defined in the program resource definition.

You cannot modify a program's concurrency attribute using the SPI—the
CONCURRENCY option is not supported on the EXEC CICS SET
PROGRAM command. You can only change the concurrency by redefining
the program's CONCURRENCY option in the CICS program resource
definition, or in the program autoinstall model, and then reinstalling the
definition.

COPY(*cvda***)**
returns a CVDA value indicating whether a new copy of the module is required to make it available for use. This requirement occurs after CICS attempts to load the module and cannot find it, because CICS marks it “not loadable” to avoid the overhead of further load attempts. To make the module available again, you need to issue a SET PROGRAM COPY command or its CEMT equivalent. You should ensure that the program exists in one of the libraries in the DFHRPL concatenation before doing so. CVDA values are:

NOTREQUIRED
A new copy is not required. This CVDA value is always returned for JVM programs.

REQUIRED
A new copy is required.

DATALOCATION(*cvda***) (programs only)**
returns a CVDA value indicating whether this module can accept data addresses higher than 16MB. CVDA values are:

ANY The program can accept an address above 16MB.

BELOW
The program requires any data address returned to it from CICS to be less than 16MB.

NOTAPPLIC
The option is not applicable because the module is a remote program, a map set, or a partition set.

DYNAMSTATUS(*cvda***) (programs only)**
returns a CVDA value indicating whether, if the program is the subject of a program-link request, the request can be dynamically routed. CVDA values are:

DYNAMIC
If the program is the subject of a program-link request, the CICS dynamic routing program is invoked. Providing that a remote server region is not named explicitly on the SYSID option of the LINK command, the routing program can route the request to the region on which the program is to execute.

NOTDYNAMIC
If the program is the subject of a program-link request, the dynamic routing program is not invoked.

For a distributed program link (DPL) request, the server region on which the program is to execute must be specified explicitly on the REMOTESYSTEM option of the PROGRAM definition or on the SYSID option of the LINK command; otherwise it defaults to the local region.

For information about the dynamic routing of DPL requests, see the *CICS Intercommunication Guide*.

ENTRYPOINT(*ptr-ref***)**
returns the entry point of the module, if it is loaded. The top bit of the address is

set on if the addressing mode is 31 and off if it is 24. If the module has not been loaded, or is a remote program, or is a JVM program, a null pointer (XFF000000) is returned.

EXECKEY(*cvda***) (programs only)**
returns a CVDA value indicating the storage key of the module, if it is an executable program. The storage key can limit the areas of storage that the program can access, depending on other variables. See the ISOLATEST option of the INQUIRE TASK and INQUIRE TRANSACTION commands, the STOREPROTECT and TRANISOLATE options of the INQUIRE SYSTEM command, and the general discussion of storage protection in the *CICS Application Programming Guide*. CVDA values are:

CICSEXECKEY
The program executes in CICS key.

NOTAPPLIC
The module is a remote program, a map set, or a partition set.

USEREXECKEY
The program executes in user key.

EXECUTIONSET(*cvda***) (programs only)**
returns a CVDA value indicating whether the module is restricted to the distributed program link subset of the CICS API. EXECUTIONSET applies only to executable programs, and governs the API only when a program is invoked locally. (When it is invoked remotely—that is, executing at or below the level of a program invoked by a distributed program link—a program is always restricted to this subset.) CVDA values are:

DPLSUBSET
The program is always restricted.

FULLAPI
The program is not restricted unless invoked remotely.

NOTAPPLIC
EXECUTIONSET does not apply because the module is a remote program, a map set, or a partition set.

HOLDSTATUS(*cvda***)**
returns a CVDA value indicating whether a copy of the module is currently loaded with the HOLD option. CVDA values are:

HOLD A copy is currently loaded with the HOLD option.

NOHOLD
No copy is currently loaded with the HOLD option.

NOTAPPLIC
The module is not currently loaded, or is a remote program.

JVMCLASS(*data-area***) (JVM programs only)**
returns the name, in 255 characters, of any class specified in the program definition.

JVMDEBUG(*cvda***) (JVM programs only)**
This option is obsolete. CICS always returns NODEBUG as the *cvda* value.

JVMPROFILE(*data-area***) (JVM programs only)**
returns the 8-character name of the JVM profile associated with the program.

LANGDEDUCED(*cvda***) (programs only)**
returns a CVDA value indicating the language (that is, the module is loaded). If

the module is not yet loaded, CICS cannot deduce the language. In this case, the CVDA value indicates the defined language taken from the resource definition. CVDA values are:

ASSEMBLER
The language is assembler.

C The language is C or C++.

COBOL
The language is COBOL.

JAVA The language is Java.

LE370 The module, whatever its language, was compiled to run with Language Environment.

NOTAPPLIC
LANGUAGE does not apply because the module is a remote program, a map set, or a partition set.

NOTDEFINED
The language was not specified in the resource definition, and has not been loaded.

PLI or PL1
The language is PL/I.

LANGUAGE(*cvda***) (programs only)**
returns a CVDA value indicating the program language. The CICS program manager deduces the correct language, except where programs are written in assembler and do not have the DFHEAI stub. In this case, the LANGUAGE attribute of the program definition is used to return a value. CVDA values are:

ASSEMBLER
The language is assembler.

C The language is C.

COBOL
The language is COBOL

LE370 The module, whatever its language, exploits multi-language support, or was compiled with a Language Environment-conforming compiler.

NOTAPPLIC
LANGUAGE does not apply because the module is a remote program, a map set, or a partition set.

NOTDEFINED
The language was not specified in the resource definition.

PLI or PL1
The language is PL/I.

LENGTH(*data-area***)**
returns a fullword binary field giving the length of the module in bytes. A value of 0 is returned if the module has not been loaded in the current CICS session. A value of -1 is returned if it is a remote program, or a JVM program.

LOADPOINT(*ptr-ref***)**
returns the load address of the module. If it is not currently loaded, or if the program is running under a JVM, a null pointer (XFF000000) is returned.

LPASTATUS(*cvda***)**
returns a CVDA value indicating whether the module resided in the link pack area when it was last used. CVDA values are:

LPA The copy used was in the link pack area (LPA) or the extended link pack area (ELPA).

NOTAPPLIC
The module has not been used, is a remote program, or is a JVM program.

NOTLPA
The copy used was in CICS dynamic storage.

PROGRAM(*data-value***)**
specifies the 8-character name of the program, map set, or partition set about which you are inquiring.

PROGTYPE(*cvda***)**
returns a CVDA value indicating the type of module. CVDA values are:

MAPSET
The module is a map set. (MAP is still a synonym for MAPSET, but MAPSET is the preferred CVDA value.)

PARTITIONSET
The module is a partition set.

PROGRAM
The module is an executable program.

REMOTENAME(*data-area***) (programs only)**
returns the 8-character name by which the module is known in the CICS region named in the REMOTESYSTEM option of its PROGRAM definition. REMOTENAME applies only to programs, and only to those defined to be remote; for local programs, map sets, and partition sets, the value returned is blanks.

REMOTESYSTEM(*data-area***) (programs only)**
returns the 4-character name of the CICS region in which the module is defined (from the REMOTESYSTEM value in the PROGRAM definition). It applies only to programs, and only to those defined to be remote; for local programs, map sets, and partition sets, the value returned is blanks.

RESCOUNT(*data-area***)**
returns a fullword binary field giving the number of separate uses of this module that are taking place at the time of this inquiry. A value of -1 is returned if the module is either a remote program, or a JVM program.

RUNTIME(*cvda***)**
returns a CVDA value indicating the runtime environment of the program. CVDA values are:

JVM The program is a Java program that will run under the control of a Java Virtual Machine.

LENV The program will run with LE370 runtime support.

NONLE370 The program will run with a language-specific runtime environment.

NOTAPPLIC RUNTIME does not apply because the module is a map set or a partition set.

UNKNOWN The program runtime environment is unknown, because the program has not been loaded by CICS, and therefore its source language has not been deduced, which dictates the runtime environment to be used.

XPLINK The program is a C or C++ program which has been compiled using the XPLINK option.

SHARESTATUS(*cvda***)**
returns a CVDA value indicating where CICS should obtain the module the next time a new copy is required. CVDA values are:

NOTAPPLIC
SHARESTATUS is not applicable because the module is a remote program or a JVM program.

PRIVATE
The module is loaded from the concatenated libraries named on the DFHRPL DD statement.

SHARED
The LPA copy is to be used, if one is available. If it is not, the module is loaded as if SHARESTATUS were PRIVATE.

STATUS(*cvda***)**
returns a CVDA value indicating whether the module is available for use. CVDA values are:

DISABLED
The module is not available for use.

ENABLED
The module is available for use.

TRANSID(*data-area***) (programs only)**
returns the 4-character name of the transaction under which this module, which must be a program, executes remotely (that is, the transaction identifier the remote region assigns to the task created there to execute it when a task in the local region LINKs to it). This value comes from the TRANSID option value in the PROGRAM definition and applies only to programs defined as remote; for local programs, map sets, and partition sets, and when no TRANSID is specified for a remote program, the value returned is blanks.

USECOUNT(*data-area***)**
returns a fullword binary field giving the total number of times the module has been used since the start of the current CICS session. A value of -1 is returned if the program is remote, or a JVM program.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

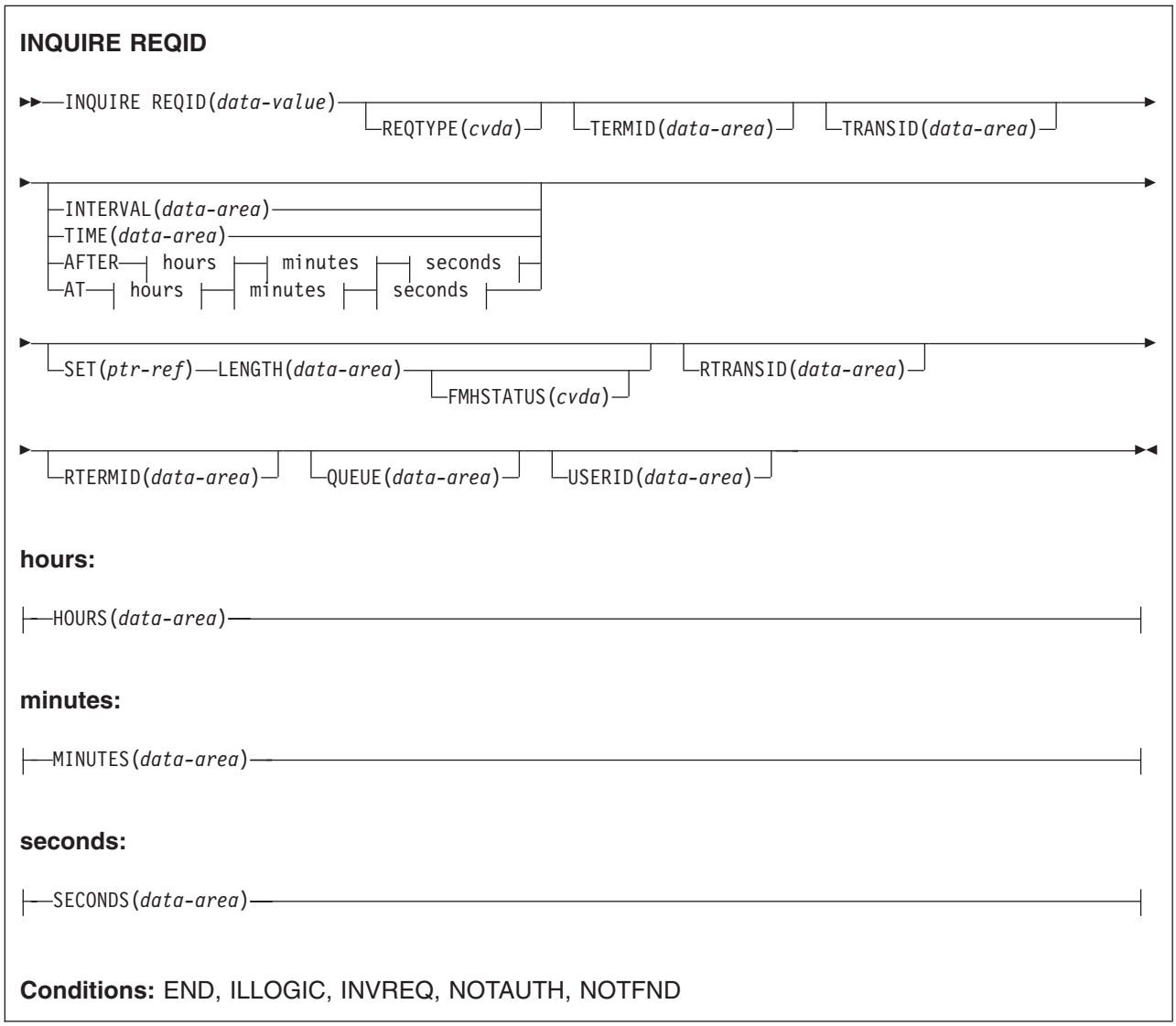
PGMIDERR

RESP2 values:

1 The program cannot be found. If this error occurs on an INQUIRE PROGRAM NEXT, an earlier cataloging error has made a PROGRAM, MAPSET, or PARTITIONSET definition unusable, and the definition must be discarded and reinstalled.

INQUIRE REQID

Retrieve information about a queued request.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE REQID command returns information about a queued request. A queued request results from a DELAY, POST, ROUTE, or START command with a nonzero expiry time, and it lasts until that time. For a DELAY command, expiry time is the end of the delay; for a POST, it is the time at which posting is to occur; for a ROUTE, it is the time at which the message is to be delivered; and for a START, it is the time at which CICS is to create the requested task.

After a request expires, you cannot inquire about it with INQUIRE REQID, even if the action requested is not complete. For example, a request to START a transaction may be delayed beyond expiry time, waiting for the terminal it requires.

Requests are identified by the REQID value in the originating command (or assigned by CICS, if omitted in the command). REQID values should be and normally are unique; however, if there is more than one queued request with the same identifier, INQUIRE REQID returns information about the one that will expire soonest.

Expiry time can be expressed either as an interval (the length of time from your INQUIRE to expiry) or as an absolute value (the length of time after the midnight previous to your INQUIRE). If expiry is before midnight of the current day, absolute time is the same as time-of-day, using a 24-hour clock. You can request either form, regardless of how the time was specified in the command that created the request.

There are also two formats for expiry time, whether it is an absolute value or an interval:

- A 4-byte packed decimal composite (0hhmmss+), which you obtain by using the TIME or INTERVAL option.
- Separate hours, minutes, and seconds, which you obtain by specifying HOURS, MINUTES, and SECONDS with either AT or AFTER.

Expiry time and request type (the type of command that produced it) are available for any queued request. For START requests additional information is available, including data passed from the starting to the started task.

START commands have four options for passing data. The FROM option is primary, and allows you to pass data of variable length, but three others—QUEUE, RTERMID, and RTRANSID—allow you to pass small items of fixed length. They are intended for convenience in conveying resource names to the started transaction, but are not restricted to that purpose. All four data items are kept in temporary storage, and consequently are subject to explicit deletion by another task. If data that you request in an INQUIRE REQID command has been deleted from temporary storage or cannot be read because of an I/O error, CICS raises the INVREQ condition.

Browsing

You also can browse through all of the queued requests by using the browse options (START, NEXT, and END) on INQUIRE REQID commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

AFTER
requests that CICS return the expiry time (in the HOURS, MINUTES, and SECONDS options) as the **interval** between the current time and the expiry time.

AT
requests that CICS return the expiry time (in the HOURS, MINUTES, and SECONDS options) as an **absolute** value (following the midnight preceding this inquiry).

FMHSTATUS(*cvda***)**
returns a CVDA value indicating whether the data passed in the FROM option of the command that created this request contains function management headers. FMHSTATUS applies only to requests resulting from ROUTE commands, or START commands that specify FROM. CVDA values are:

FMH The data contains a function management header.

NOFMH
The data does not contain a function management header.

NOTAPPLIC
The request did not result from a ROUTE or START command, or there was no FROM data.

HOURS(*data-area***)**
returns a fullword binary field giving the hours portion of the expiry time (see the AT and AFTER options).

INTERVAL(*data-area***)**
returns the expiry time as an interval from the current time. The value is a 4-byte packed decimal number in the format 0hhmmss+.

LENGTH(*data-area***)**
returns a halfword binary field giving the length of the data passed in the FROM option of the command that created this request. It applies only to requests resulting from ROUTE commands, or START commands that specify FROM; for other requests, the value returned is zero.

MINUTES(*data-area***)**
returns a fullword binary field giving the minutes portion of the expiry time (see the AT and AFTER options).

QUEUE(*data-area***)**
returns the 8-byte field passed in the QUEUE option of the START command that created this request. It applies only to requests resulting from START commands that specify QUEUE; for other requests, the value returned is blanks.

REQID(*data-value***)**
specifies the 8-byte identifier of the request about which you are inquiring. This is the value specified in the REQID option of the command that generated the request (or assigned by CICS if REQID was omitted).

REQTYPE(*cvda***)**
returns a CVDA value indicating the type of command that created this request. CVDA values are:

DELAY
A DELAY command created this request.

POST A POST command created this request.

ROUTE
A ROUTE command created this request.

START
A START command created this request.

RTERMID(*data-area***)**
returns the 4-byte field passed in the RTERMID option of the START command that created this request. It applies only to requests resulting from START commands that specify RTERMID; for other requests, the value returned is blanks.

RTRANSID(*data-area***)**
returns the 4-byte field passed in the RTRANSID option of the START

command that created this request. It applies only to requests resulting from START commands that specify RTRANSID; for other requests, the value returned is blanks.

SECONDS(*data-area***)**
returns a fullword binary field giving the seconds portion of the expiry time (see the AT and AFTER options).

SET(*ptr-ref***)**
returns the address of the data passed in the FROM option of the command which created this request. It applies only to requests resulting from ROUTE commands, or START commands that specify FROM; for other requests, the value returned is the null pointer (XFF000000).

TERMID(*data-area***)**
returns the 4-character terminal identifier that was specified in the TERMID option of the START command that created the request. It applies only to requests originating from START commands that specify a terminal; for other requests, the value returned is blanks.

TIME(*data-area***)**
returns the expiry time as an absolute value measured from the midnight preceding this INQUIRE command. The value is a 4-byte packed decimal number in the format 0hhmmss+.

TRANSID(*data-area***)**
returns the 4-character transaction identifier that was specified in the TRANSID option of the command that created the request. It applies only to requests originating from ROUTE or START commands; for other requests, the value returned is blanks.

USERID(*data-area***)**
returns the 8-character identifier of the user associated with the task that issued the command that created this request. USERID applies only to requests resulting from ROUTE or START commands.

For a START command:

- if a TERMID is specified on the START command, the value returned is blanks,
- if a USERID is specified on the START command, that user-id is returned,
- if neither of these is specified on the START command, the user-id of the task that issued the START command is returned.

For other requests, the value returned is blanks.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

INVREQ
RESP2 values:

3 An I/O error occurred while an attempt was made to read data from temporary storage for the SET, QUEUE, RTERMID, or RTRANSID option.

4 Data required for the SET, QUEUE, RTERMID, or RTRANSID option cannot be returned because it has been deleted from temporary storage.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

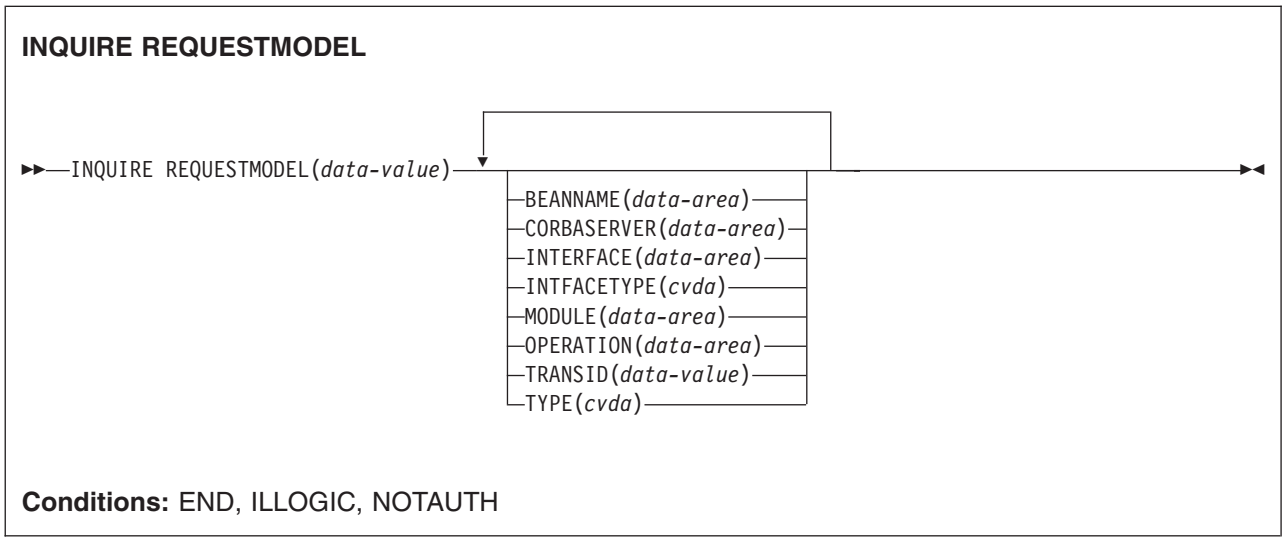
NOTFND

RESP2 values:

1 The REQID cannot be found.

INQUIRE REQUESTMODEL

Retrieve information about a REQUESTMODEL.



Description

A REQUESTMODEL resource definition maps an inbound request that is formatted using the Internet Inter-ORB PROTOCOL (IIOP) to a CICS transaction that is to be started to process the request. The INQUIRE REQUESTMODEL command returns information about an installed REQUESTMODEL.

Browsing

You can also browse through all the REQUESTMODELs that are installed on your system by using the browse options (START, NEXT, and END) on INQUIRE REQUESTMODEL commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples. You can specify the following options on the INQUIRE request:

Options

REQUESTMODEL(*data-value***)**
specifies an 8-character request model name.

BEANNAME(*data-area***)**
returns the 240–character field containing the (possibly generic) bean name that matches the name of an enterprise bean in an XML deployment descriptor. This field is blank if the TYPE attribute is CORBA.

CORBASERVER(*data-area***)**
returns a 4–character field containing the (possibly generic) name of the destination CorbaServer for this REQUESTMODEL.

INTERFACE*(data-area)*
returns a (possibly generic) name, of up to 255 characters, matching the IDL interface name. This field is blank if the TYPE attribute is EJB.

INTFACETYPE*(cvda)*
returns the CVDA value of the Java interface type for this REQUESTMODEL. CVDA values are:

HOME specifies that this is the home interface for the bean.

REMOTE
specifies that this is the component interface for the bean.

BOTH matches both the home and component interfaces for the bean.

NOTAPPLIC
returned if the TYPE attribute is CORBA.

MODULE*(data-area)*
returns a (possibly generic) name, of up to 255 characters, matching the IDL module name. This field is blank if the TYPE attribute is EJB.

OPERATION*(data-area)*
returns a 255-character field containing a (possibly generic) name matching the IDL operation or bean method name.

TRANSID*(name)*
returns the 4-character name of the CICS transaction to be executed when a request matching the specification of the REQUESTMODEL is received.

TYPE*(data-area)*
returns a CVDA value indicating the type of the REQUESTMODEL. CVDA vlaues are:

EJB matches enterprise bean requests as specified by the EJB parameters.

CORBA
matches CORBA requests as specified by the CORBA parameters.

GENERIC
matches both enterprise bean and CORBA requests.

Conditions

END
RESP2 values:
2 All authorized resource definitions have been retrieved. All data areas specified on this command are left unchanged.

ILLOGIC
RESP2 values:
1 A START has been given when a browse is already in progress, or a NEXT or an END, has been given without a preceding START.

NOTAUTH
RESP2 values:
100 The user is not authorized for this command.

NOTFND
RESP2 values:
1 The specified request model was not found.

INQUIRE RRMS

Retrieves the status of transactional EXCI.

INQUIRE RRMS

Conditions: NOTAUTH

Description

The INQUIRE RRMS command indicates whether inbound transactional EXCI work is currently being accepted.

Options

OPENSTATUS(*cvda***)**
returns a CVDA value indicating whether CICS accepts inbound transactional EXCI work or not. CVDA values are:

OPEN indicates that CICS does accept inbound transactional EXCI work.

CLOSED
indicates that CICS does not accept inbound transactional EXCI work.

NOTAPPLIC
indicates that CICS has been initialized without RRMS.

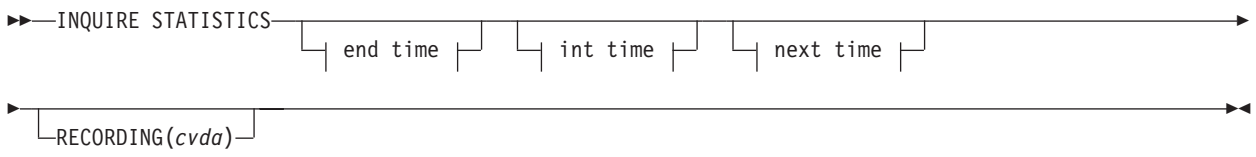
Conditions

NOTAUTH
RESP2 values:
100 The user is not lauthorized for this command.

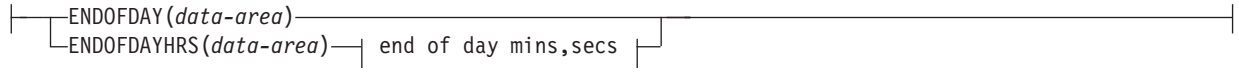
INQUIRE STATISTICS

Retrieve statistics information.

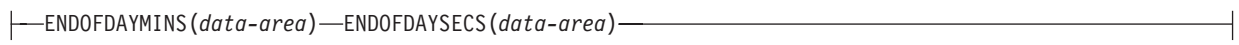
INQUIRE STATISTICS



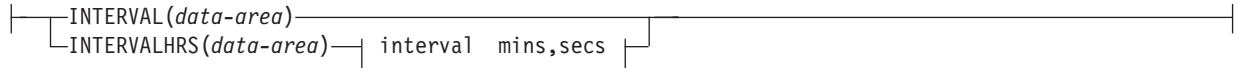
end time:



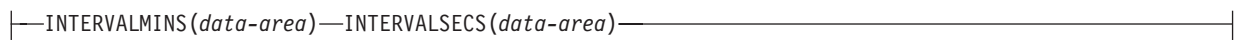
end of day mins,secs:



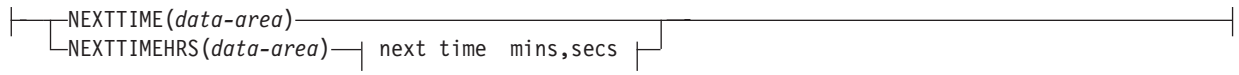
int time:



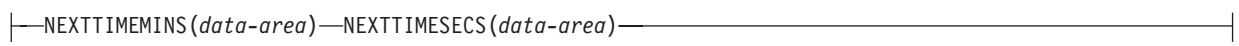
interval mins,secs:



next time:



next time mins,secs:



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE STATISTICS command returns information about the recording of CICS resource and system statistics. CICS records system statistics periodically if the RECORDING switch is on, at a frequency governed by the INTERVAL option.

These statistics are called **interval statistics**. At end-of-day time (the ENDOFDAY option), CICS records **end-of-day statistics**—which are the statistics for the interval since the last resetting—whether or not the switch is on, ensuring that statistics are written at least once a day. Recording occurs on a system management facility (SMF) data set, and the counts are reset after recording.

There are two formats for each of the time values that you can retrieve with this command (the end-of-day time, the recording interval, and the next time that recording will occur):

- A 4-byte packed decimal composite (0hhmmss+), which you obtain by using the ENDOFDAY, INTERVAL, and NEXTTIME options.
- Separate hours, minutes, and seconds, which you obtain by specifying the ENDOFDAYHRS, ENDOFDAYMINS, and ENDOFDAYSECS options (instead of ENDOFDAY), INTERVALHRS, INTERVALMINS, and INTERVALSECS (instead of INTERVAL) and NEXTTIMEHRS, NEXTTIMEMINS, and NEXTTIMESECS (instead of NEXTTIME).

The *CICS Performance Guide* contains more detail about CICS statistics, and the SET STATISTICS command on page 566 describes the relationship between the interval and end-of-day times.

Options

ENDOFDAY(*data-area***)**
returns the end-of-day time, as a 4-byte packed decimal field in the format 0hhmmss+. End-of-day time is expressed in local time.

ENDOFDAYHRS(*data-area***)**
returns the hours component of the end-of-day time, in fullword binary form.

ENDOFDAYMINS(*data-area***)**
returns the minutes component of the end-of-day time, in fullword binary form.

ENDOFDAYSECS(*data-area***)**
returns the seconds component of the end-of-day time, in fullword binary form.

INTERVAL(*data-area***)**
returns a 4-byte packed decimal field giving the recording interval for system statistics.

INTERVALHRS(*data-area***)**
returns the hours component of the recording interval, in fullword binary form.

INTERVALMINS(*data-area***)**
returns the minutes component of the recording interval, in fullword binary form.

INTERVALSECS(*data-area***)**
returns the seconds component of the recording interval, in fullword binary form.

NEXTTIME(*data-area***)**
returns a 4-byte packed decimal field giving the time at which statistics are recorded next (assuming that the RECORDING switch is not changed from its current value). This is the end-of-day time if RECORDING is currently off, and the earlier of end-of-day and the end of the current interval otherwise.

NEXTTIMEHRS(*data-area***)**
returns the hours component of the next recording time, in fullword binary form.

NEXTTIMEMINS(*data-area***)**
returns the minutes component of the next recording time, in fullword binary format.

NEXTTIMESECS(*data-area***)**
returns the seconds component of the next recording time, in fullword binary format.

RECORDING(*cvda***)**
controls the recording of interval statistics, End-of-day statistics, requested statistics and unsolicited statistics are always recorded, irrespective of the setting of the RECORDING option. (Unsolicited statistics are resource statistics, recorded when the resource is discarded. Requested statistics are those called for by a PERFORM STATISTICS RECORD command, described on page 466, or by a CEMT PERFORM STATISTICS transaction.)

CVDA values are:

OFF switches off the recording of interval statistics.

ON switches on the recording of interval statistics.

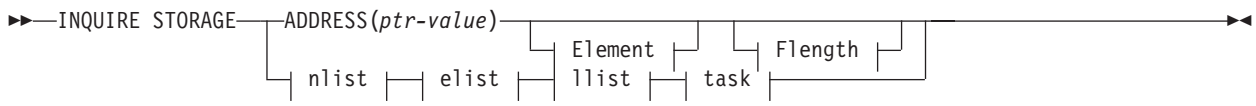
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE STORAGE

Retrieve information about task storage.

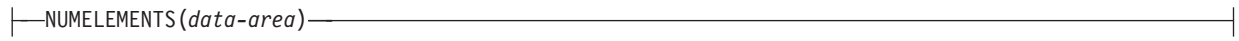
INQUIRE STORAGE



Element:

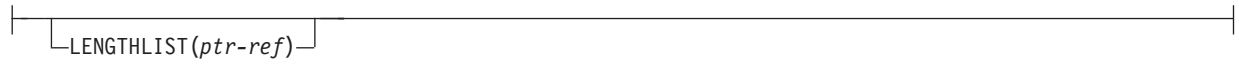
Flength:

nlist:



elist:

llist:



task:

Conditions: NOTAUTH, TASKIDERR

Description

The INQUIRE STORAGE command has two functions. You can use it to get a list of the task storage areas associated with a particular task (using the NUMELEMENTS option), or you can use it to find the length and starting address of a particular area of storage (using the ADDRESS option). INQUIRE STORAGE applies only to storage allocated to user tasks, which are tasks executing user-defined transactions or the CICS-supplied transactions normally invoked by an operator.

Options

ADDRESS(*ptr-value***)**
specifies that you are inquiring about a single area of storage and identifies the area. The address you specify can be anywhere within the area about which you are inquiring; it does not have to be the start of it. CICS returns the length of the area (in FLENGTH) and its starting address (in ELEMENT) if it is a valid element of user task storage.

DSANAME(*data-value***)**
specifies the name of the DSA for which storage elements are to be returned.

Possible values are CDSA, UDSA, ECDSA, and EUDSA. If you omit this option, storage elements are returned for all four DSAs.

ELEMENT(*ptr-ref***)**
returns the starting address of the storage area containing the address provided in the ADDRESS option, if the area is user task storage. This is the first byte of the area available for task data, not the preceding storage management control information, if any. If the area is not user task storage, the address returned is nulls.

ELEMENTLIST(*ptr-ref***)**
returns the address of a list of the addresses of all areas of task storage for the task specified in the TASK option. Each address points to the first byte available for data storage, not to preceding storage management control information, if any. The number of addresses in this list is the NUMELEMENTS option value. (Addresses are 4 bytes long, and therefore the length of the list in bytes is 4 times NUMELEMENTS.)

CICS obtains the storage for this list and frees it when the inquiring task ends, or issues another INQUIRE STORAGE command with ELEMENTLIST or LENGTHLIST, or issues an INQUIRE TASK LIST; the task cannot free the storage itself.

FLENGTH(*data-area***)**
returns a fullword binary field giving the length of the storage area containing the address provided in the ADDRESS option. This is the length of the part available for task data; it does not include storage management control information at the beginning or end of the area, if any. If the area is not user task storage, the length returned is -1.

LENGTHLIST(*ptr-ref***)**
returns the address of a list of fullword binary lengths. Each entry in this list is the length of the storage area to which the corresponding entry in the ELEMENTLIST list points. These lengths are the amounts available for data storage and do not include storage management control information, if any.

CICS obtains the storage for this list and frees it when the inquiring task ends, or issues another INQUIRE STORAGE command with ELEMENTLIST or LENGTHLIST, or issues an INQUIRE TASK LIST; the task cannot free the storage itself.

NUMELEMENTS(*data-area***)**
indicates that you are requesting a list of the task storage areas for the task indicated in the TASK option. CICS returns the number of areas, in fullword binary form, in the data area you provide. If you request an ELEMENTLIST or LENGTHLIST, this value is the number of entries in the list.

TASK(*data-value***)**
specifies, as a 4-byte packed decimal value, the task number for which you are

requesting a storage list. If you omit this option but include NUMELEMENTS, CICS assumes the inquiry is for the task issuing the INQUIRE STORAGE command.

Conditions

INVREQ

RESP2 values:

1 Invalid DSANAME specified.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

TASKIDERR

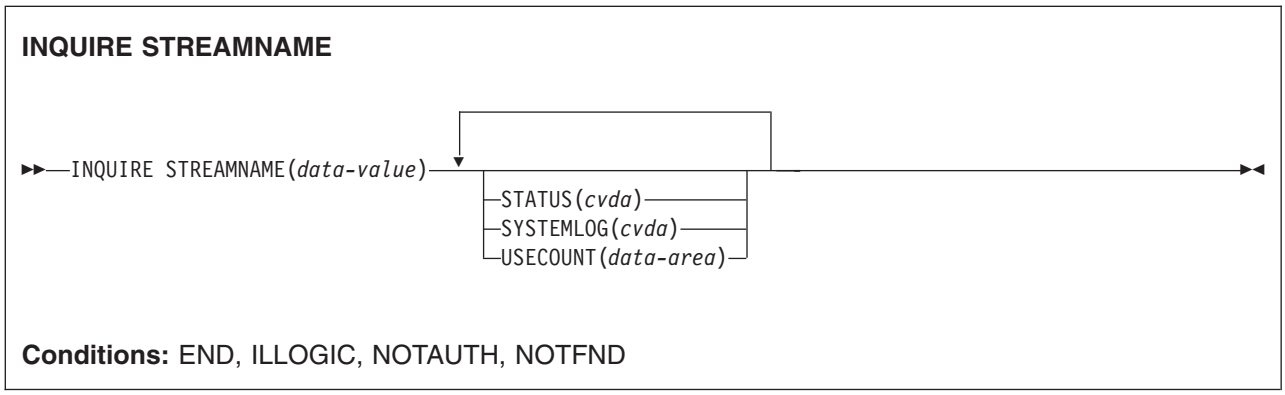
RESP2 values:

1 The task number does not exist.

2 The task number designates a system task, not a user task.

INQUIRE STREAMNAME

Retrieve information about a currently connected MVS log stream.



Description

The INQUIRE STREAMNAME command allows you to look at information about a currently connected MVS log stream.

Browsing

You can also browse through log stream names by using the browse options (START, NEXT, and END) on INQUIRE STREAMNAME commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

STATUS(*cvda***)**
returns a CVDA value indicating the status of the log stream. CVDA values are:

FAILED
The message logger has detected a problem with the specified log stream.

OK No errors have been detected.

STREAMNAME(*data-value***)**
specifies an MVS system logger log stream name.

CICS returns a NOTFND condition if the log stream name does not exist, or if there are no longer any users of the log stream in this CICS region (see the USECOUNT option).

SYSTEMLOG(*cvda***)**
returns a CVDA value indicating whether the log stream is the system log. CVDA values are:

NOSYSLOG
The log stream is not the system log.

SYSLOG
The log stream is the system log.

USECOUNT(*data-area***)**
returns the number of CICS journal names and forward recovery logs within this CICS system that are currently using the log stream.

The use count is always at least 1, because CICS does not maintain any information about a log stream that no longer has any users, in which case an INQUIRE STREAMNAME command returns a NOTFND condition.

If the log stream name refers to the CICS system log, the use count is always 1. This is so, even when user application programs write recovery records to the CICS system log.

Conditions

END

RESP2 values:

2 All authorized resource definitions have been retrieved. All data areas specified on this command are left unchanged.

ILLOGIC

RESP2 values:

1 A START has been given when a browse is already in progress or a NEXT or an END has been given without a preceding START.

2 The browse token is not valid.

NOTAUTH

RESP2 values:

100 The user is not authorized for this command.

NOTFND

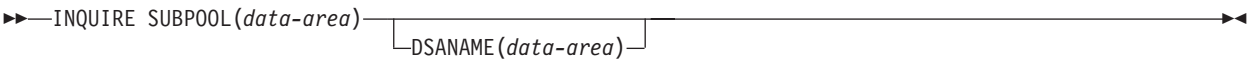
RESP2 values:

1 The requested log stream name was not found.

INQUIRE SUBPOOL

Retrieve information about storage subpools in the CICS region.

INQUIRE SUBPOOL



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE SUBPOOL command returns information about a particular storage subpool.

Browsing

You can also browse through all the storage subpools in the region using the browse options (START, AT, NEXT, and END) on INQUIRE SUBPOOL command. In browse mode, the definitions are returned in alphabetic order of subpool name. You can specify a starting point anywhere in the full rabge of subpools using the AT option. If you want to see all the subpools with names beginning with a certain string of characters, for example, you can start your browse with an AT value comprising those characters, padded on the right with nulls (X00) up make up the eight characters.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

DSANAME(*data-area***)**
returns an 8-character field giving the name of the dynamic storage area (DSA) in which the specified subpool resides. The value can be one of the following, padded with trailing blanks (X40):

CDSA
ECDSA
ERDSA
ESDSA
RDSA
SDSA

SUBPOOL(*data-area***)**
specifies the 8-character name of a storage subpool. For a full list of all storage subpools that can exist in a CICS region, see the *CICS Performance Guide*.

For browse operations, specify SUBPOOL on the START browse request only, not on the NEXT or END requests.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

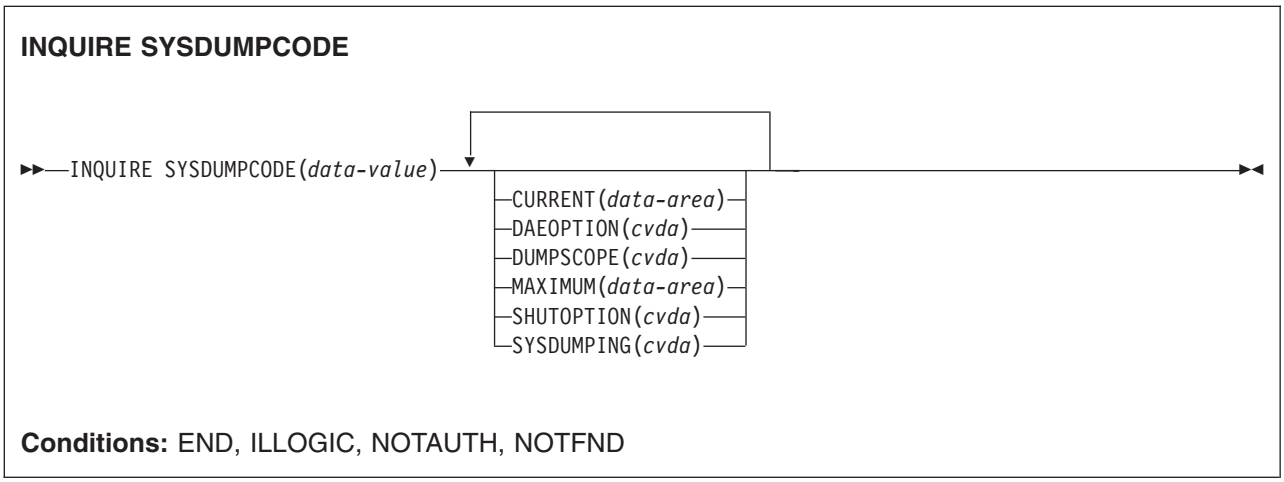
ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The subpool name specified on the command does not exist.

INQUIRE SYSDUMPCODE

Retrieve information about a system dump table entry.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE SYSDUMPCODE command allows you to look at some of the information in a system dump code table entry.

The table entry tells CICS which actions to take when a system dump request with this code occurs, and how many times to take them (the MAXIMUM option); requests received after the maximum are counted (the CURRENT option), but are otherwise ignored.

CICS provides a system dump table with entries for some CICS-defined system dump codes. If it receives a dump request for a code for which it does not have an entry, it builds one, using default values. You can add your own entries with the SET SYSDUMPCODE command or a CEMT transaction. Entries you add remain over executions of CICS until an initial or cold start occurs, but the entries that CICS builds are considered to be temporary and are discarded at shutdown. Consequently, if you enquire about a code that is not explicitly defined before it appears in a dump request, you get a “not found” response.

Browsing

You can also browse through all of the entries in the system dump code table by using the browse options (START, NEXT, and END) on INQUIRE SYSDUMPCODE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

CURRENT(*data-area***)**
returns a fullword binary field giving the number of dump requests with this dump code made since the count was last reset. (The count is reset automatically at CICS shutdown and can be reset explicitly with a SET

SYSDUMPCODE command or its CEMT equivalent.) The count includes requests that do not result in a dump because either CICS or MVS suppressed it.

DAEOPTION
returns a CVDA value identifying whether a dump produced for this dump code is eligible for subsequent suppression by the MVS Dump Analysis and Elimination (DAE) component. CVDA values are:

DAE The dump is eligible for DAE suppression.

NODAE
The dump is not eligible for DAE suppression—if CICS determines that a dump should be written, MVS does not suppress it. (However, be aware of the SUPPRESS and SUPPRESSALL options in the ADYSETxx parmlib member. These are controlled by the VRADAE and VRANODAE keys in the SDWA. They may lead to dump suppression even though NODAE is set here. For information about DAE, SUPPRESS, and SUPPRESSALL, see the *z/OS V1R4.0 MVS Diagnosis: Tools and Service Aids* manual.

DUMPSCOPE(*cvda***)**
returns a CVDA value indicating whether a request for a dump with this dump code should cause an SDUMP (system dump) request to be sent to related MVS images.

A related image is one that contains a CICS region doing work on behalf of your CICS region. Specifically, it is a region that has one or more tasks doing work under the same APPC token as a task in your region.

The sending of SDUMP requests occurs only when the table entry for this code specifies a dump (that is, the SYSDUMPING value is SYSDUMP), and only in a sysplex environment executing under MVS/ESA Version 5 or later and the MVS workload manager.

CVDA values are:

LOCAL
SDUMP requests are not to be sent.

RELATED
SDUMP requests are to be sent.

MAXIMUM(*data-area***)**
returns a fullword binary field giving the maximum number of dumps with this code that CICS will take. A value of 999 means the default, 'no limit'.

SHUTOPTION(*cvda***)**
returns a CVDA value indicating whether the CICS system is to be shut down after a request for a dump with this dump code. CVDA values are:

NOSHUTDOWN
The CICS system is not to be shut down.

SHUTDOWN
The CICS system is to be shut down.

SYSDUMPCODE(*data-value***)**
specifies the 8-character system dump code about which you are inquiring. A valid code contains no leading or imbedded blanks.

SYSDUMPING(*cvda***)**
returns a CVDA value indicating whether a dump request with this code should

produce a dump or not. Even when a dump is specified, CICS will take one only when the CURRENT value is no greater than the MAXIMUM, and when system dumps are not suppressed globally (see the DUMPING option of the INQUIRE SYSTEM command on page "INQUIRE SYSTEM command options - DTRPROGRAM" on page 321). MVS may also be allowed to suppress the dump if appropriate (the DAE option). CVDA values are:

NOSYSDUMP
A dump is not to be taken.

SYSDUMP
A dump is to be taken.

Note: Dumps from the kernel domain of CICS are not subject to suppression and are taken regardless of SYSDUMPCODE value.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

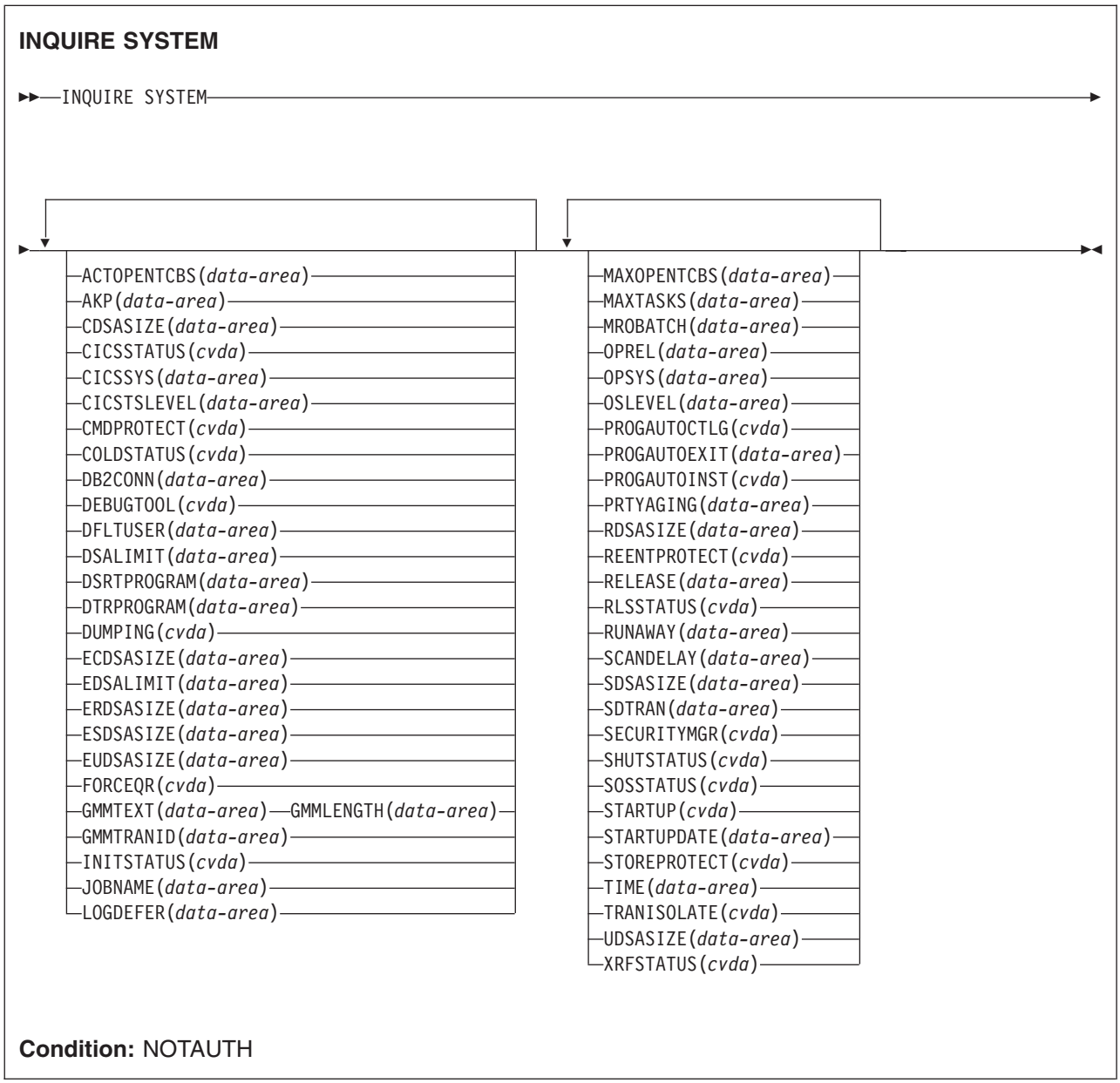
ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The named dump code cannot be found.

INQUIRE SYSTEM

Retrieve CICS system information.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE SYSTEM command returns information about the CICS system under which the task issuing the command is executing.

Many of the options in this command correspond to system initialization parameters and take their initial values from the parameters. Some of these can be changed by a subsequent SET SYSTEM command or its CEMT equivalent. Other options return information about the CICS or MVS release levels, and still others return

information determined solely by the current state of the system. Table 3 indicates where the option values come from and, in the case of those specified in the system initialization parameter, the name of the parameter. For these options, the *CICS System Definition Guide* is a good source of additional information. For state options, the *CICS Customization Guide* is the primary source.

Table 3. INQUIRE SYSTEM options

Option	Origin
ACTOPENTCBS	System state
AKP	AKPFREQ system initialization parameter
CDSASIZE	System state
CICSSTATUS	System state
CICSSYS	System state
CICSTSLEVEL	CICS control block
CMDPROTECT	CMDPROT system initialization parameter
COLDSTATUS	System state
DB2CONN	DB2CONN system initialization parameter
DEBUGTOOL	DEBUGTOOL system initialization parameter
DFLTUSER	DFLTUSER system initialization parameter
DSALIMIT	DSALIM system initialization parameter
DSRTPROGRAM	DSRTPGM system initialization parameter
DTRPROGRAM	DTRPGM system initialization parameter
DUMPING	DUMP system initialization parameter
ECDSASIZE	System state
EDSALIMIT	EDSALIM system initialization parameter
ERDSASIZE	System state
ESDSASIZE	System state
EUDSASIZE	System state
FORCEQR	FORCEQR system initialization parameter
GMMTEXT, GMMLENGTH	GMTEXT system initialization parameter
GMMTRANID	GMTRAN system initialization parameter
INITSTATUS	System state
JOBNAME	JCL or cataloged procedure
LOGDEFER	LGDFINT system initialization parameter
MAXOPENTCBS	MAXOPENTCBS system initialization parameter
MAXTASKS	MXT system initialization parameter
MROBATCH	MROBTCH system initialization parameter
OPREL	Operating system (MVS)
OPSYS	Operating system (MVS)
OSLEVEL	Operating system (OS/390)
PROGAUTOCTLG	PGAICTLG system initialization parameter
PROGAUTOEXIT	PGAIEXIT system initialization parameter
PROGAUTOINST	PGAIPGM system initialization parameter
PRTYAGING	PRTYAGE system initialization parameter
RDSASIZE	System state
REENTPROTECT	RENTPGM system initialization parameter
RELEASE	CICS system code
RLSSTATUS	RLS system initialization parameter
RUNAWAY	ICVR system initialization parameter
SCANDELAY	ICVTSD system initialization parameter
SDSASIZE	System state
SDTRAN	SDTRAN system initialization parameter
SECURITYMGR	SEC system initialization parameter
SHUTSTATUS	System state
SOSSTATUS	System state

Table 3. INQUIRE SYSTEM options (continued)

Option	Origin
STARTUP	System state
STARTUPDATE	System state
STOREPROTECT	STGPROT system initialization parameter, and hardware
TIME	ICV system initialization parameter
TRANISOLATE	TRANISO system initialization parameter, and hardware
UDSASIZE	System state
XRFSTATUS	XRF system initialization parameter, and system state

Note: The CSCS, ECSCS, ERSCS, EUSCS, and USCS options, each of which returned the size of the storage "cushion" for a particular dynamic storage area, are obsolete in CICS Transaction Server for z/OS. The translator accepts them and gives a warning. At run time, the data areas provided are left unchanged.

Options

ACTOPENTCBS(*data-area***)**
returns a fullword binary field giving the number of open TCBs currently allocated to user tasks.The open TCBs are allocated from the pool of open TCBs that CICS attaches up to the maximum set by the MAXOPENTCBS system initialization parameter. The ACTOPENTCBS value can be equal to, or less than , the MAXOPENTCBS value. If it is equal to MAXOPENTCBS, tasks that require an open TCB are made to wait.

AKP(*data-area***)**
returns a fullword binary field giving the activity keypoint trigger value, which is the number of write requests to the CICS system log stream output buffer between the taking of keypoints.

A value of minus one (not applicable) means that keypoints are not being taken.

CDSASIZE(*data-area***)**
returns the current size in bytes of the CICS dynamic storage area (CDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside below 16MB (the DSALIMIT option value).

CICSSTATUS(*cvda***)**
returns a CVDA value identifying the current execution status of CICS. CVDA values are:

ACTIVE
CICS is fully active.

FINALQUIESCE
CICS is in the final quiesce stage of shutdown. Programs in the second stage of the program list table for shutdown (PLTSD) are run during this stage.

FIRSTQUIESCE
CICS is in the first quiesce stage of shutdown. Programs in the first stage of the PLTSD are run during this stage.

STARTUP
CICS is starting up but is not yet fully active. Programs in the program list table for program initiation (PLTPI) are run during startup. See the INITSTATUS option on page "INQUIRE SYSTEM command options - GMMTRANID" on page 322 for further information.

CICSSYS(*data-area***)**
returns a 1-character value identifying the operating system for which the running CICS system has been built. A value of "X" represents MVS/ESA.

CICSTSLEVEL(*data-area***)**
returns a 6-character value identifying the version, release, and modification level of the CICS Transaction Server for OS/390® product under which the CICS region is running. The value is of the form *vvrrmm*, and CICS Transaction Server for z/OS Version 3 Release 1 returns 030100.

CMDPROTECT(*cvda***)**
returns a CVDA value indicating whether command protection is active or not. With command protection active, when a task issues a command, CICS verifies that the task has write access to the first byte of every area into which CICS is to return information. If any area fails the test, an AEYD abend occurs.

The CVDA values are:

CMDPROT
Command protection is active.

NOCMDPROT
Command protection is not active.

COLDSTATUS(*cvda***)**
returns a CVDA value indicating whether CICS performed a cold or an initial start. (For information about the types of CICS startup, see the *CICS Recovery and Restart Guide*.)

The CVDA values are:

COLD CICS performed a cold start. Log information about local resources was erased, but information about the outcome of local units of work, needed to allow remote systems or RMI-connected resource managers to resynchronize their resources, was preserved.

INITIAL
CICS performed an initial start. All log information about both local and remote resources was erased.

NOTAPPLIC
CICS performed neither a cold nor an initial start.

DB2CONN(*data-area***)**
returns the 1-8 character name of the DB2CONN currently installed, or blanks if no DB2CONN is currently installed. DB2CONN allows the user to determine the name of the RDO DB2CONN definition. Only one DB2CONN can be installed at a time. A DB2CONN defines the global attributes of the connection to be established between DB2 and CICS.

DEBUGTOOL(*cvda***)**
returns a CVDA value indicating whether you can use debugging profiles to

select the programs that will run under the control of a debugging tool. The following debugging tools use debugging profiles:

- Debug Tool, for compiled language application programs (programs written in COBOL, PL/I, C, C++ and Assembler)
- Remote debugging tools (for compiled language application programs and Java programs)

Other debugging mechanisms, such as the CICS Execution Diagnostic Facility (CEDF) do not use debugging profiles.

The CVDA values are:

DEBUG
You can use CICS debugging profiles to select the programs that will run under the control of a debugging tool.

NODEBUG
You cannot use CICS debugging profiles to select the programs that will run under the control of a debugger tool.

For more information about using debugging profiles, see the *CICS Application Programming Guide*.

DFLTUSER(*data-area***)**
returns the 8-character identifier of the default user for this CICS region.

DSALIMIT(*data-area***)**
returns a fullword binary field giving the maximum amount of storage, in bytes, within which CICS can dynamically allocate storage for the four individual dynamic storage areas that reside below the 16MB boundary. (See the CDSASIZE, RDSASIZE, SDSASIZE, and UDSASIZE options of this command.)

DSRTPROGRAM(*data-area***)**
returns the 8-character name of the distributed routing program.

DTRPROGRAM(*data-area***)**
returns the 8-character name of the dynamic routing program.

DUMPING(*cvda***)**
returns a CVDA value indicating whether the taking of CICS system dumps is suppressed. CVDA values are:

NOSYSDUMP
System dumps are suppressed.

SYSDUMP
System dumps are not suppressed.

These values are set by the system initialization parameter DUMP=YES or NO.

ECDSASIZE(*data-area***)**
returns the current size in bytes of the extended CICS dynamic storage area (ECDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside above the 16MB boundary (the EDSALIMIT option value).

EDSALIMIT(*data-area***)**
returns a fullword binary field giving the maximum amount of storage, in bytes, within which CICS can dynamically allocate storage for the four individual dynamic storage areas that reside above the 16MB boundary. (See the ECDSASIZE, ERDSASIZE, ESDSASIZE, and EUDSASIZE options of this command.)

ERDSASIZE(*data-area***)**
returns the current size in bytes of the extended read-only dynamic storage area (ERDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside above the 16MB boundary (the EDSALIMIT option value).

ESDSASIZE(*data-area***)**
returns the current size in bytes of the extended shared dynamic storage area (ESDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside above the 16MB boundary (the EDSALIMIT option value).

EUDSASIZE(*data-area***)**
returns the current size in bytes of the extended user dynamic storage area (EUDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside above the 16MB boundary (the EDSALIMIT option value).

FORCEQR(*cvda***)**
returns a CVDA value indicating whether CICS is to force CICSAPI user application programs that are defined as threadsafe to run on the quasi-reentrant (QR) TCB. The CVDA values are:

FORCE
CICS forces all user application programs specified with the CONCURRENCY(THREADSAFE) attribute to run under the QR TCB, as if they were specified with CONCURRENCY(QUASIRENT). Force does not apply to OPENAPI programs or C/C++ programs compiled with XPLINK.

NOFORCE
CICS is to honor the CONCURRENCY(THREADSAFE) attribute on CICSAPI user application programs, and allow user programs to run on an open TCB to avoid unnecessary TCB switching.

GMMLENGTH(*data-area***)**
returns a halfword binary field giving the length in bytes of the “good morning” message text.

GMMTEXT(*data-area***)**
returns the “good morning” message text in the data-area you provide, which must be long enough to accommodate it. The maximum length of any “good morning” message is 246 bytes. The actual length is returned in the GMMLENGTH option value.

GMMTRANID(*data-area***)**
returns the 4-character name of the transaction that generates the “good morning” message.

INITSTATUS(*cvda***)**
returns a fullword binary field giving the initialization status of the CICS system. CVDA values are:

FIRSTINIT
First stage of CICS initialization.

INITCOMPLETE
CICS initialization is complete.

SECONDINIT
Second stage of initialization.

THIRDINIT
Third stage of initialization.

See the *CICS Customization Guide* for more information about CICS initialization.

JOBNAME(*data-area***)**
returns the 8-character MVS jobname under which CICS is running.

LOGDEFER(*data-area***)**
returns the halfword binary value giving the log deferral interval, which is the period of time used by CICS Log Manager when determining how long to delay a forced journal write request before invoking the MVS system logger. See the *CICS System Definition Guide* for information about the LOGDEFER parameter and associated system initialization parameter LGDFINT.

MAXOPENTCBS(*data-area***)**
returns a fullword binary field giving the maximum number of open TCBs that CICS is allowed to attach and maintain in its pool of open TCBs. For information about the number actually allocated, see the ACTOPENTCBS option.

The difference between MAXOPENTCBS and ACTOPENTCBS represents the number of open TCBs that are free.

MAXTASKS(*data-area***)**
returns a fullword binary field giving the maximum number of tasks that can be eligible for dispatch at any one time in this CICS system. Both active and suspended tasks count toward this limit, but tasks that have not reached the point of initial dispatch do not. System tasks such as terminal and journal control tasks do not count in CICS Transaction Server for z/OS either, although they did in earlier releases.

MROBATCH(*data-area***)**
returns a fullword binary field giving the number of events that must occur, from a list of MRO and DASD I/O events on which CICS is waiting, before CICS is posted explicitly to process them.

OPREL(*data-area***) (supported for compatibility only)**
returns a halfword binary field giving the last 2 digits of the level number of the operating system under which the CICS region is running. For example, OS/390 Release 4 is represented by 04.

Note: This field is supported for compatibility purposes only. The information is derived from the last two numbers held in the MVS CVTPRODN field. For example, CVTPRODN holds the value SP5.2.2 for MVS/ESA SP™ Version 5 Release 2.2 (in which case OPREL returns 22), and SP6.0.3 for OS/390 Release 3. See the OSLEVEL field for the full version and release number of OS/390.

OPSYS(*data-area***)**
returns a 1-character value identifying the operating system under which CICS is running. A value of “X” represents MVS/ESA.

OSLEVEL(*data-area***)**
returns a 6-byte field containing the version, release, and modification level of the OS/390 product on which CICS is running. For example, OS/390 Version 2 Release 4 Modification 0 returns the value 020400.

PROGAUTOCTLG(*cvda***)**
returns a CVDA value indicating whether and when autoinstalled program definitions are cataloged. Cataloged definitions are restored on a warm or emergency restart. Those not cataloged are discarded at shutdown, and must be installed again if they are used in a subsequent execution of CICS.

Decisions to catalog are made both at initial installation and whenever an autoinstalled definition is modified, and are based on the PROGAUTOCTLG value at the time. CVDA values are:

CTLGALL
Definitions are cataloged both when installed and when modified.

CTLGMODIFY
Definitions are cataloged only when modified.

CTLGNONE
Definitions are not cataloged.

PROGAUTOEXIT(*data-area***)**
returns the 8-character name of the user-provided program that is called by the CICS program autoinstall code to provide a model definition.

PROGAUTOINST(*cvda***)**
returns a CVDA value indicating whether autoinstall for programs is active or inactive. When a task requests a program, map set, or partition set that is not defined, CICS attempts to create a definition for it automatically if autoinstall for programs is active. If not, CICS raises the PGMIDERR exceptional condition. CVDA values are:

AUTOACTIVE
Autoinstall for programs is active.

AUTOINACTIVE
Autoinstall for programs is not active.

PRTYAGING(*data-area***)**
returns a fullword binary field giving the rate at which CICS increases the priority of a task waiting for dispatch. CICS increases the task priority by 1 after each PRTYAGING milliseconds of wait time without a dispatch.

RDSASIZE(*data-area***)**
returns the current size in bytes of the read-only dynamic storage area (RDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside below the 16MB boundary (the DSALIMIT option value).

REENTPROTECT(*cvda***)**
returns a CVDA value indicating whether storage for reentrant programs (the RDSA and ERDSA) is in key 0 or CICS key. MVS key 0 storage is write protected from programs running in CICS key or user key; programs in CICS key storage are protected only from those running in user key when CICS key and user key are different (that is, when storage protection is active). CVDA values are:

REENTPROT
Read-only DSAs are in key 0 storage.

NOREENTPROT
Read-only DSAs are in CICS-key storage.

RELEASE(*data-area***)** **(supported for compatibility only)**
returns a 4-character string comprising the value 640, indicating the level number of the CICS code within the CICS Transaction Server for OS/390.

This option is supported only for compatibility with earlier releases. As an exclusive element of CICS Transaction Server for OS/390, CICS does not have a product version and release number of its own. You are recommended to use CICSTSLEVEL to determine the version and release number of CICS Transaction Server.

RLSSTATUS(*cvda***)**
returns a CVDA value indicating whether VSAM RLS is active—that is, the CICS region is registered (with a currently-open control ACB) with an SMSVSAM address space. CVDA values are:

NOTAPPLIC
This CICS region does not support VSAM RLS because:
- CICS initialized with RLS=NO as a system initialization parameter, or
- CICS has forced RLS=NO because the level of VSAM in the MVS in which CICS is running does not support VSAM RLS.

RLSACTIVE
CICS has registered with an SMSVSAM server and VSAM RLS is currently active.

RLSINACTIVE
CICS has registered with an SMSVSAM server, but VSAM RLS is currently inactive due to an SMSVSAM server failure. All RLS requests fail until CICS performs dynamic VSAM RLS restart, which occurs automatically when the SMSVSAM server has restarted.

RUNAWAY(*data-area***)**
returns a fullword binary field giving the default value for runaway task time. This value is used for any task executing a transaction whose profile does not specify runaway task time (see the RUNAWAY option of the INQUIRE TRANSACTION command on page 395).

SCANDELAY(*data-area***)**
returns a fullword binary field giving the maximum number of milliseconds between a user task making a terminal I/O request and CICS dispatching the terminal control task to process it. This value is sometimes called the “terminal scan delay”, and is set by the ICVTSD option in the system initialization table.

SDSASIZE(*data-area***)**
returns the current size in bytes of the shared dynamic storage area (SDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside below the 16MB boundary (the DSALIMIT option value).

SDTRAN(*data-area***)**
returns the 4-character name of the transaction to be run at the beginning of normal or immediate shutdown. This may be the name of a user-supplied transaction, or the CICS-supplied default transaction, CESD.

SECURITYMGR(*cvda***)**
returns a CVDA value identifying whether an external security manager (such as RACF) is active in the system, or whether no security is being used. CVDA values are:

EXTSECURITY
An external security manager is active.

NOSECURITY
No security is being used.

SHUTSTATUS(*cvda***)**
returns a CVDA value indicating the shutdown status of CICS (see the CICSSTATUS option on page "CICSSTATUS" on page 319). CVDA values are:

CANCELLED
CICS is canceled.

CONTROLSHUT
CICS is performing a controlled shutdown (that is, a normal shutdown with a warm keypoint).

NOTAPPLIC
CICS is not shutting down.

SHUTDOWN
CICS is performing an immediate shutdown.

SOSSTATUS(*cvda***)**
returns a CVDA value indicating whether CICS is short on storage. CVDA values are:

NOTSOS
CICS is not short on storage in any of the dynamic storage areas.

SOS CICS is short on storage in at least one dynamic storage area above and at least one below the 16MB line.

SOSABOVE
CICS is short on storage in at least one dynamic storage area above 16MB, but none below.

SOSBELOW
CICS is short on storage in at least one dynamic storage area below 16MB, but none above.

STARTUP(*cvda***)**
returns a CVDA value indicating how the current execution of CICS started. CVDA values are:

COLDSTART
CICS performed an initial or a cold start.

Note: The STARTUP option does not distinguish between an initial and a cold start. See the COLDSTATUS option.

EMERGENCY
CICS performed an emergency restart because the previous run did not shut down normally.

WARMSTART
CICS performed a warm restart following the normal shutdown of the previous run.

STARTUPDATE(*data-area***)**
returns a 4-byte packed-decimal field containing the date on which the current execution of CICS started. The date is in the form *0cyyddd+*, where *c* is the century code (**0** for the 1900s, **1** for 2000–2099), *yy* is the low-order two digits of the year and *ddd* is the day of the year.

STOREPROTECT(*cvda***)**
returns a CVDA value indicating whether storage protection is active or not. For storage protection to be active, it must be requested (the STGPROT option in the system initialization table), and it must be supported by the hardware. CVDA values are:

ACTIVE
Storage protection is active.

INACTIVE
Storage protection is not active.

TIME(*data-area***)**
returns a fullword binary field giving the maximum interval in milliseconds for which CICS gives control to the operating system if no tasks are ready for dispatch. This value is set by the ICV option in the system initialization table and is sometimes called the “region exit time interval”.

TRANISOLATE(*cvda***)**
returns a CVDA value indicating whether transaction isolation is active or not. For it to be active, both transaction isolation and storage protection must be requested (the TRANISO and STGPROT system initialization parameters), and it must be supported by the hardware. CVDA values are:

ACTIVE
Transaction isolation is active.

INACTIVE
Transaction isolation is not active.

UDSASIZE(*data-area***)**
returns the current size in bytes of the user dynamic storage area (UDSA), in fullword binary form. It includes both storage in use and storage available for use. This size is calculated and managed by CICS automatically, within the overall limit for dynamic storage areas that reside below the 16MB boundary (the DSALIMIT option value).

XRFSTATUS(*cvda***)**
returns a CVDA value indicating whether the current execution of CICS started as an active or alternate region under the extended recovery facility (XRF). CVDA values are:

NOTAPPLIC
CICS is running without XRF support. (XRF=NO in the system initialization table.)

PRIMARY
CICS started as the active region.

TAKEOVER
CICS started as the alternate region.

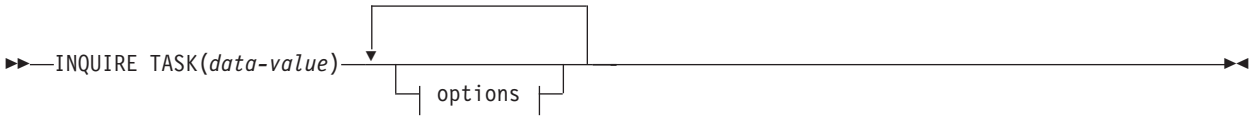
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE TASK

Retrieve information about a user task.

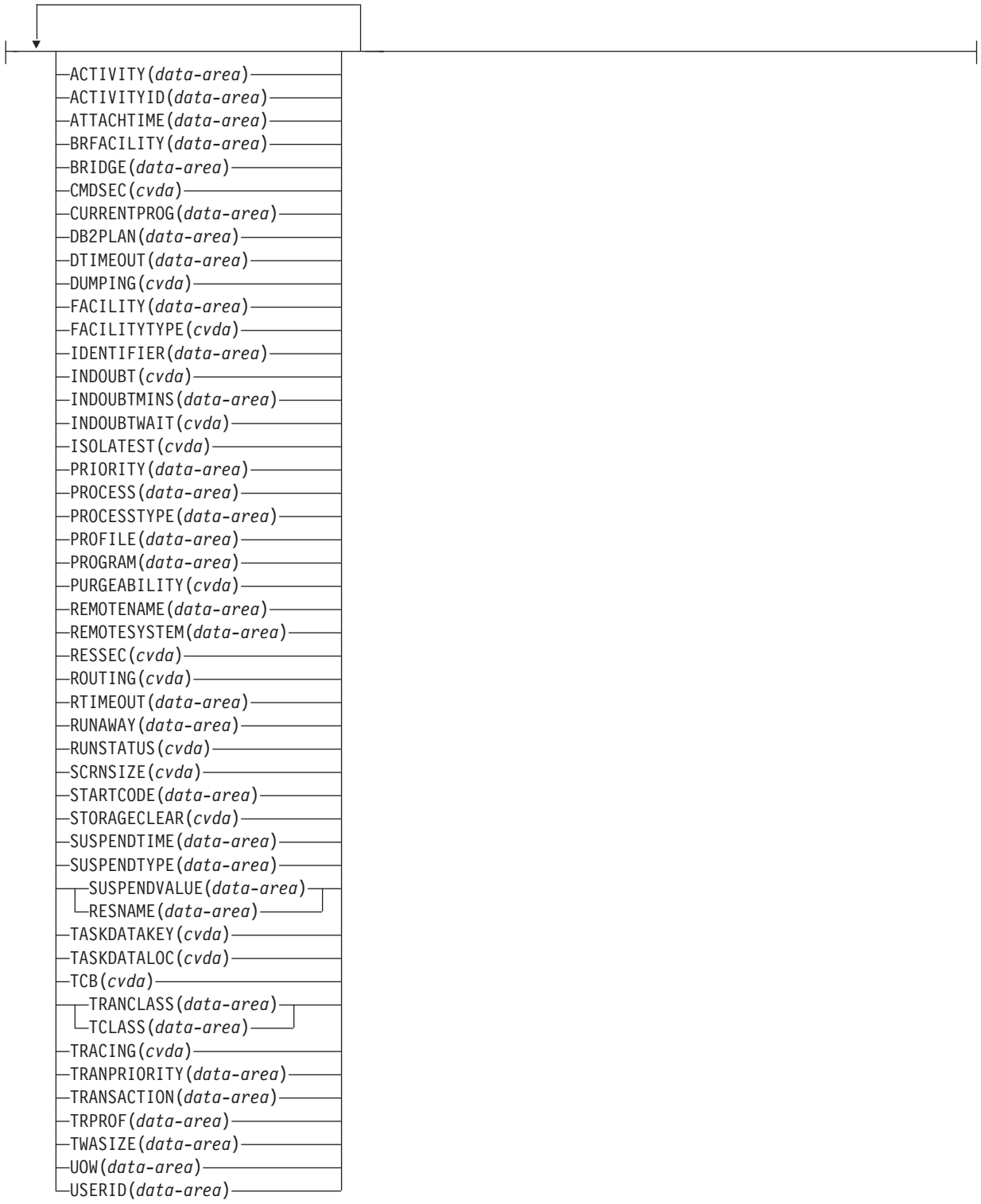
INQUIRE TASK



Conditions: INVREQ, NOTAUTH, TASKIDERR

This command is threadsafe.

options:



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TASK command returns information about a specific user task. User tasks are those associated with user-defined transactions or with CICS-supplied transactions that are normally invoked by an operator.

Many of the options available on this command are the same as those available on the INQUIRE TRANSACTION command, because a task obtains most of its characteristics from the definition of the transaction it is executing. However, these properties are determined at task initiation.

If the transaction definition is changed after the task begins, the task may have a different value for a property than the current transaction definition. Task values can also be changed with a SET TASK command or its CEMT equivalent.

In addition, the INQUIRE TASK command always produces information about the task you specify on the **local** CICS system. You need to keep this in mind for tasks that are subject to routing or that issue LINK commands that may be shipped to another system.

Whenever a task is executed wholly or in part on a system other than the one on which it originates, there is a matching task on the remote system. The task on the originating system takes its characteristics from the definition *on that system* of the transaction it is to execute. The corresponding task on the remote system (if routing takes place or the task issues distributed program links) takes its characteristics from the definition of whatever transaction *on the remote system* that the originating system tells the remote system to use. This remote transaction may have different properties from those of the transaction on the originating system. (It may or may not have a different name; in the case of static transaction routing, the name of the transaction in the remote system comes from the REMOTENAME option of the transaction in the local system.)

Consequently, an inquiry about the task on the originating system may produce entirely different results from an inquiry about the corresponding task on the remote system. For the same reason, a task that issues distributed program links may get a different result from an INQUIRE TASK about itself (taking the task number from the EIB) in a program executing remotely than from the same command in a program executing locally.

Options

ACTIVITY(data-area)
returns the 16-character, user-assigned, name of the CICS business transaction services activity that this task is executing on behalf of.

ACTIVITYID(data-area)
returns the 52-character, CICS-assigned, identifier of the CICS business transaction services activity that this task is executing on behalf of.

ATTACHTIME(*data-area***)**
returns an 8-byte packed decimal value, in ABSTIME format, representing the time in milliseconds at which the task was attached.

BRFACILITY(*data-area***)**
returns the 8-byte facility token representing the virtual terminal used by the current task if it is running in a bridged environment. If the task is not running in the 3270 bridge environment, zeroes are returned.

BRIDGE(*data-area***)**
returns the 4-character transaction identifier of the bridge monitor transaction that issued a START BREXIT TRANSID command to start this task, or the client that issued a link to DFHL3270. If the task is not currently running in the 3270 bridge environment, then blanks are returned.

CMDSEC(*cvda***)**
returns a CVDA value indicating whether the definition of the transaction the task is executing specifies command security. CVDA values are:

CMDSECNO
Command security is not specified.

CMDSECYES
Command security is specified.

When a task being checked issues a system programming command, CICS calls the external security manager (ESM) to verify that the user associated with the task has authority to use these commands.

A task is command-checked only when an ESM is active and either the CMDSEC value for the task is CMDSECYES or the system initialization option CMDSEC value is ALWAYS (see the SECURITYMGR option of the INQUIRE SYSTEM command on page "INQUIRE SYSTEM options, SDTRAN" on page 325 and the *CICS Resource Definition Guide* for more information).

CURRENTPROG(*data-area***)**
returns a 1- to 8-character name of the current program, as known to the CICS program manager domain, executing for this this task.

DB2PLAN(*data-area***)**
returns a 1- to 8-character name of the DB2PLAN being used by this task, or blanks if no DB2PLAN is being used.

DTIMEOUT(*data-area***)**
returns a fullword binary field giving the deadlock time-out interval, in seconds. CICS abends a task that waits longer than its deadlock timeout value for a locked resource.

DUMPING(*cvda***)**
returns a CVDA value indicating whether CICS should take a transaction dump if the task terminates abnormally. CVDA values are:

NOTRANDUMP
No dump is taken.

TRANDUMP
A dump is taken.

This value applies only to abend dumps and has no effect on DUMP TRANSACTION commands.

FACILITY(*data-area***)**
returns the 4-character name of the facility associated with initiation of this task, if that facility is a transient data queue or a terminal or system. If the task was initiated otherwise, the facility value is blanks. The FACILITYTYPE option tells you what type of facility caused task initiation, and therefore what FACILITY represents.

FACILITYTYPE(*cvda***)**
returns a CVDA value identifying the type of facility that initiated this task. CVDA values are:

DEST CICS initiated the task to process a transient data queue which had reached trigger level; the FACILITY option returns the name of queue.

TASK Another task initiated the task with a START command that did not specify a terminal, or CICS created the task internally; the FACILITY option returns blanks in this case.

TERM Either the task was initiated to process unsolicited input or another task initiated the task with a START command with the TERMID option. In the first case the FACILITY option returns the name of the terminal that sent the input, and in the second, it returns the terminal named in TERMID.

IDENTIFIER(*data-area***)**
returns a 48-character field containing user data provided by the bridge exit, if the task was initiated in the 3270 bridge environment, or blanks, otherwise. This field is intended to assist in online problem resolution. For example, it could contain the MQ™ correlator for the MQ bridge, or a Web token.

INDOUBT(*cvda***)**
returns a CVDA value, based on the ACTION attribute of the TRANSACTION resource definition, indicating the action to be taken if the CICS region fails, or loses connectivity with its coordinator while a unit of work is in the in-doubt period.

The action is dependent on the values returned in INDOUBTWAIT and INDOUBTMINS; if INDOUBTWAIT returns WAIT, the action is not taken until the time returned in INDOUBTMINS expires.

CVDA values are:

BACKOUT
All changes made to recoverable resources are to be backed out.

COMMIT
All changes made to recoverable resources are to be committed, and the unit of work marked as completed.

Note: If a program uses the obsolete DTB option, which was replaced by INDOUBT, a CVDA value of NOTSUPPORTED is returned.

INDOUBTMINS(*data-area***)**
returns a fullword binary field giving the length of time, in minutes, after a failure during the in-doubt period, before the task is to take the action returned in the INDOUBT field. The returned value is valid only if the unit of work is in-doubt and INDOUBTWAIT returns WAIT.

See also INDOUBT and INDOUBTWAIT.

INDOUBTWAIT(*cvda***)**
returns a CVDA value, based on the WAIT attribute of the TRANSACTION definition, indicating how a unit of work (UOW) is to respond if a failure occurs while it is in an in-doubt state. CVDA values are:

NOWAIT
The UOW is not to wait, pending recovery from the failure. CICS is to take immediately whatever action is specified on the ACTION attribute of the TRANSACTION definition.

WAIT The UOW is to wait, pending recovery from the failure, to determine whether recoverable resources are to be backed out or committed.

For further information about the meaning of the ACTION and WAIT attributes of the TRANSACTION definition, see the *CICS Resource Definition Guide*.

ISOLATEST(*cvda***)**
returns a CVDA value indicating whether the task is defined as isolated or not. Isolation limits the access, for both read and write, of user-key programs to task storage. A program executing in user key on behalf of an isolated task can access the task storage of only that task, and this storage cannot be accessed by programs executing in user key on behalf of other tasks. Isolation does not affect access by CICS-key programs and does not apply to storage with the SHARED attribute or any other nontask storage.

The value of ISOLATEST is taken from the definition of the TRANSACTION the task is executing when the task is created. For a task defined as isolated to execute isolated, transaction isolation for the system must also be active (see the TRANISOLATE option of the INQUIRE SYSTEM command on page 327). CVDA values are:

ISOLATE
The task is defined as isolated.

NOISOLATE
The task is defined as not isolated.

PRIORITY(*data-area***)**
returns a fullword binary field giving the total priority of the task. Total priority is the sum of the priority of the user associated with the task, the priority of the terminal which is the principal facility, and the priority of the transaction being executed (see the TRANPRIORITY option).

PROCESS(data-area)
returns the 36-character name of the CICS business transaction services process of which this task is a part.

PROCESSTYPE(data-area)
returns the 8-character identifier of the type definition of the CICS business transaction services process of which this task is a part.

PROFILE(*data-area***)**
returns the 8-character name of the PROFILE for the transaction this task is executing.

PROGRAM(*data-area***)**
returns the 8-character name of the program executed first in this task.

PURGEABILITY(*cvda***)**
returns a CVDA value indicating whether CICS is allowed to purge this task (that is, to terminate it abnormally). Purge requests come from SET TASK PURGE commands (or CEMT equivalents), and CICS can generate them internally to reclaim resources to relieve a system stall condition. CVDA values are:

NOTPURGEABLE
The task cannot be purged.

PURGEABLE
The task can be purged.

The PURGEABILITY value is set initially by the SPURGE option in the definition of the transaction this task is executing.

REMOTENAME(*data-area***)**
returns the 4-character name assigned in the REMOTENAME option of the

definition of the TRANSACTION which this task is executing. When CICS routes a task statically, REMOTENAME is the name of the transaction that the partner task on the remote system executes. Consequently REMOTENAME is significant to the task about which you are inquiring only if it is subject to routing.

CICS returns blanks if the transaction definition does not specify REMOTENAME.

REMOTESYSTEM(*data-area***)**
returns the 4-character name assigned in the REMOTESYSTEM option of the definition of the TRANSACTION which this task is executing. When CICS routes a task statically, REMOTESYSTEM is the name of the CONNECTION definition of the system to which the task is routed. Like REMOTENAME, REMOTESYSTEM is significant to the task about which you are inquiring only if it is subject to routing.

CICS returns blanks if the TRANSACTION definition does not specify REMOTESYSTEM.

RESNAME(*data-area***)**
RESNAME, an alternative to SUSPENDVALUE, returns a 16-character resource name of tasks suspended on TS queues.

RESSEC(*cvda***)**
returns a CVDA value indicating whether the definition of the TRANSACTION the task is executing specifies resource-level security checking. CVDA values are:

RESSECNO
Command security is not specified.

RESSECYES
Command security is specified.

When a task is being checked, CICS verifies on each command that the user associated with the task has authority to access the resource named in the way requested.

A task is checked only when an external security manager is active and either the RESSEC value for the task is RESSECYES or the system initialization option RESSEC value is ALWAYS (see the SECURITYMGR option of the INQUIRE SYSTEM command on page “INQUIRE SYSTEM options, SDTRAN” on page 325 and the *CICS Resource Definition Guide* for more information).

ROUTING(*cvda***)**
returns a CVDA value indicating whether the transaction this task is executing specifies dynamic routing or not (in the DYNAMIC option in the TRANSACTION definition). Dynamic routing occurs just before the initial dispatch of a task, and therefore this value indicates whether dynamic routing may have occurred (if the task is already in execution) or may yet occur (if it has not yet been dispatched). CVDA values are:

DYNAMIC
Dynamic routing applies.

STATIC
Dynamic routing does not apply.

RTIMEOUT(*data-area***)**
returns a fullword binary field giving the read time-out interval, in seconds. CICS abends a task if it waits for input longer than its read time-out value. The

RTIMEOUT value is set by the RTIMOUT option in the PROFILE definition associated with the TRANSACTION this task is executing.

RUNAWAY(*data-area***)**
returns the "runaway task" time for this task, in milliseconds, as a fullword binary value. If a task keeps control of the processor for more than this interval on a single dispatch, CICS assumes it is in a loop and abends it. If the value is zero, CICS does not monitor the task for a runaway condition.

RUNSTATUS(*cvda***)**
returns a CVDA value indicating the dispatch status of the task. CVDA values are:

DISPATCHABLE
The task is ready to run.

RUNNING
The task is running.

SUSPENDED
The task is not ready to run.

SCRNSIZE(*cvda***)**
returns a CVDA value indicating whether the alternate or the default screen size applies to this task. CVDA values are:

ALTERNATE
Alternate screen size applies.

DEFAULT
Default screen size applies.

The SCRNSIZE value is set by the same-named option in the PROFILE definition associated with the transaction this task is executing.

STARTCODE(*data-area***)**
returns a 2-character value indicating how this task started. Possible values are:

D The task was initiated to process a distributed programming link (DPL) command that did not specify the SYNCONRETURN option. (The task is not allowed to issue syncpoints.)

DS The task was initiated to process a distributed programming link (DPL) command containing the SYNCONRETURN option. (The task is allowed to issue syncpoints).

QD CICS initiated the task to process a transient data queue that had reached trigger level.

S Another task initiated this one, using a START command that did not pass data in the FROM option. The START command may or may not have passed a channel.

SD Another task initiated this one, using a START command that passed data in the FROM option.

SZ The task was initiated with a FEPI START command (see the *CICS Front End Programming Interface User's Guide* for further information).

TO The task was initiated to process unsolicited input from a terminal (or another system), and the transaction to be executed was determined from the input.

TP The task was initiated to process unsolicited input or in response to a RETURN IMMEDIATE command in another task. In either case, the

transaction to be executed was preset (in the RETURN command or in the associated TERMINAL definition) without reference to input.

U CICS created the task internally.

Note: When the IIOP request processor is run locally the startcode for an
ASSIGN command or an INQUIRE TASK is U. When the IIOP request
processor is run remotely, over an MRO link, the startcode for these
commands is TO. (If you attempt to run the IIOP request processor
remotely over any other type of connection, the routing request is not
accepted, so startcodes for these commands are not relevant in this
situation).

STORAGECLEAR(*cvda***)**
returns a CVDA value indicating whether CICS should clear storage that is released from this task (to prevent other tasks accidentally viewing confidential data). CVDA values are:

CLEAR
Storage is cleared.

NOCLEAR
Storage will not be cleared.

SUSPENDTIME(*data-area***)**
returns a fullword binary field giving the number of seconds (rounded down) for which the task has been suspended since last dispatch, if its RUNSTATUS value is SUSPENDED. If the task is running or dispatchable, the
SUSPENDTIME value is -1.

SUSPENDTYPE(*data-area***)**
returns an 8-character text string indicating why this task is suspended, if it is (blanks are returned for tasks that are running or dispatchable). See the SUSPENDVALUE option also.

SUSPENDVALUE(*data-area***)**
returns the 8-character name of the resource for which this task is waiting (the name of the file if the task is enqueued on a record, for example). SUSPENDVALUE applies only to suspended tasks; if the task is running or dispatchable, the value returned is blanks.

For information on the values that can appear in the SUSPENDTYPE and SUSPENDVALUE options, and how they can be used as an aid in problem determination, see the “resource type” and “resource name” details in the *CICS Problem Determination Guide*.

TASKDATAKEY(*cvda***)**
returns a CVDA value indicating the storage key in which CICS obtains storage for this task. This includes the task life-time storage—the transaction work area (TWA) and the EXEC interface block (EIB)—and the storage that CICS obtains on behalf of programs that run under this task.

See the description of the TASKDATAKEY option in a TRANSACTION resource definition in the *CICS Resource Definition Guide* for more information.

CVDA values are:

CICSDATAKEY
CICS obtains storage from CICS-key storage.

USERDATAKEY
CICS obtains storage from user-key storage.

The value returned for TASKDATAKEY is taken from the definition of the TRANSACTION that the task is executing. To determine whether storage protection is active (that is, whether user-key has a different value from CICS-key), you need to issue an INQUIRE SYSTEM command with the STOREPROTECT option.

TASKDATALOC(*cvda***)**
returns a CVDA value indicating whether task-lifetime storage for this task (CICS control blocks for the task such as the EIB and TWA) should be acquired above or below the 16MB line. CVDA values are:

ANY Task-lifetime storage can be either below or above the 16MB line.

BELOW
Task-lifetime storage must be below the 16MB line.

TCB(*cvda***)**
returns a CVDA value indicating the type of TCB under which the task is running. The CVDA values are:

CKOPEN
The task is running under a CICS key open TCB (for example, a J8 mode TCB, which is used for a JVM in CICS key).

INTERNAL
The task is running under one of the CICS internal TCBs. An internal TCB can be one of the following:

- The concurrent mode (CO) TCB
- The file-owning mode (FO) TCB
- The master JVM (JM) TCB
- The resource-owning mode (RO) TCB
- The ONC/RPC mode (RP) TCB
- The sockets listener mode (SL) TCB
- The secure sockets layer mode (SO) TCB
- A sockets mode (S8) TCB
- The FEPI mode (SZ) TCB.

QR The task is running under the CICS QR TCB.

UKOPEN
The task is running under a user key open TCB (for example, a J9 mode TCB, which is used for a JVM in user key).

TCLASS(*data-area***)**
returns a fullword binary field giving the number of the transaction class to which this task belongs, if it belongs to a numbered transaction class. This option is retained for compatibility with earlier releases, where transaction classes were numbered from 1 to 10. If the task does not belong to such a class, the value returned is zero. (See the TRANCLASS option for more information.)

TRACING(*cvda***)**
returns a CVDA value indicating the type of tracing in effect for this task. CVDA values are:

SPECTRACE
Tracing for this task is special.

SPRSTRACE
Tracing for this task is suppressed.

STANTRACE
Tracing for this task is standard.

For further information on the types of tracing, see the *CICS Problem Determination Guide* and the description of the CETR transaction in the *CICS Supplied Transactions*.

TRANCLASS(*data-area***)**
returns the 8-character name of the transaction class to which the task belongs. If the task is not assigned to any class, the default class DFHTCL00 is returned. If the task belongs to a numbered class, the value returned is DFHTCL*nn*, where *nn* is the 2-digit class number.

TRANPRIORITY(*data-area***)**
returns a fullword binary field giving the component of the total priority of the task that came from the PRIORITY option in the definition of the TRANSACTION being executed. (See the PRIORITY option of this command also.)

TRANSACTION(*data-area***)**
returns the 4-character name of the transaction that this task is executing.

TRPROF(*data-area***)**
returns the 8-character name of the profile definition used for intersystem flows if the task is routed on an ISC link.

TWASIZE(*data-area***)**
returns a fullword binary field giving the size in bytes of the transaction work area (TWA) for this task.

UOW(*data-area***)**
returns, as an 8-byte field, the local identifier of the unit of work associated with this task.

USERID(*data-area***)**
returns the 8-character identifier of the user associated with the task.

Conditions

INVREQ
RESP2 values:
1 SUSPENDVALUE is specified, but significant characters are lost.
3 TCLASS is specified, but the task belongs to a named CLASS, not a numbered CLASS. The user should specify the TRANCLASS option.
10 The requested data is held on a data profile, but the data profile is not available.

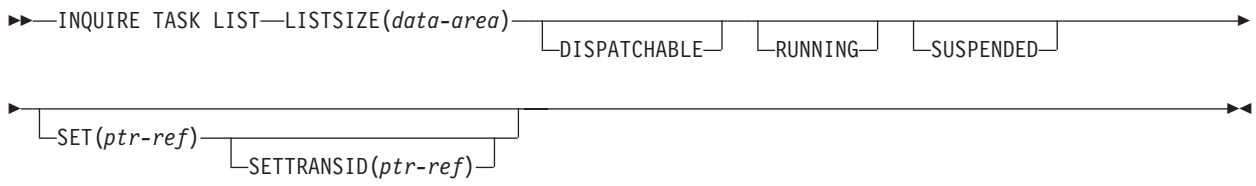
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TASKIDERR
RESP2 values:
1 The task cannot be found.
2 The task is executing a type of transaction which is not subject to this command.

INQUIRE TASK LIST

Retrieve a list of user tasks.

INQUIRE TASK LIST



Condition: NOTAUTH

Description

The INQUIRE TASK LIST command returns a list of user tasks. User tasks are those associated with user-defined transactions or with CICS-supplied transactions that are normally invoked by an operator. You can restrict the list to tasks that are DISPATCHABLE (ready to run), RUNNING, or SUSPENDED at the time of the inquiry, or any combination of these.

Options

DISPATCHABLE
specifies that tasks ready to run (dispatchable) should be included in the task list. These tasks are also included if you specify none of the category options (DISPATCHABLE, RUNNING, and SUSPENDED).

LISTSIZE(*data-area***)**
returns a fullword binary field giving the number of tasks in the categories you included in your inquiry. This is the number of entries in the lists that the SET and SETTRANSID options produce. If there are no tasks in the categories requested, LISTSIZE contains zero.

RUNNING
specifies that the task executing (the one issuing the command) should be included in the task list. It is also included if you specify none of the category options (DISPATCHABLE, RUNNING, and SUSPENDED).

SET(*ptr-ref***)**
returns the address of a list of 4-byte packed-decimal task numbers. Each entry in the list identifies a task in one of the categories requested (see the DISPATCHABLE, RUNNING, and REQUESTED options). If there are no tasks in the categories requested, the SET pointer contains a null value.

CICS obtains the storage for this list and frees it when the inquiring task issues another INQUIRE TASK LIST, or issues an INQUIRE STORAGE command with ELEMENTLIST or LENGTHLIST, or ends; the task cannot free the storage itself.

SETTRANSID(*ptr-ref***)**
returns the address of a list of 4-byte transaction identifiers. Each entry in the list is the name of the transaction that the task in the corresponding entry in the

SET list is executing. If there are no tasks in the categories that you have specified, the SETTRANSID pointer contains a null value.

CICS obtains the storage for this list and frees it when the inquiring task issues another INQUIRE TASK LIST, or issues an INQUIRE STORAGE command with ELEMENTLIST or LENGTHLIST, or ends; the task cannot free the storage itself.

SUSPENDED
specifies that suspended tasks (tasks waiting for some event or condition) should be included in the task list. For this purpose, tasks which have not reached the point of initial dispatch, either because the task class to which they belong is at its maximum or because the maximum for the system has been reached, are considered suspended. Suspended tasks are also included if you specify none of the category options (DISPATCHABLE, RUNNING, and SUSPENDED).

Conditions

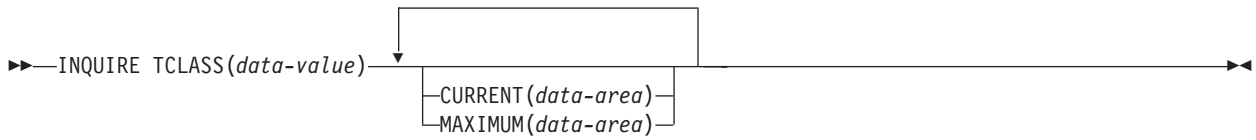
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

INQUIRE TCLASS

Retrieve information about a transaction class.

INQUIRE TCLASS



Conditions: NOTAUTH, TCIDERR

Description

The INQUIRE TCLASS command allows you to determine the current and maximum numbers of tasks within an installation-defined transaction class. This command is limited to the numbered classes of earlier releases of CICS and is retained for compatibility with those releases. The INQUIRE TRANCLASS command, described on page “INQUIRE TRANCLASS” on page 386, has the same function and can be used for either the old numbered or the new named classes.

Options

CURRENT(*data-area***)**
returns a fullword binary field giving the current number of tasks in the class about which you are inquiring. This number includes both tasks that are running and tasks that have not yet been dispatched because the maximum for either the class or the system has been reached. (See the MAXIMUM option of this command and the MAXTASKS option of the INQUIRE SYSTEM command for more about these limits.) The CURRENT value corresponds to the sum of the ACTIVE and QUEUED values in an INQUIRE TRANCLASS command, and therefore can exceed the MAXIMUM value.

MAXIMUM(*data-area***)**
returns a fullword binary field giving the largest number of tasks that are allowed to run concurrently in the class about which you are inquiring. (This value corresponds to the MAXACTIVE value in an INQUIRE TRANCLASS command.)

TCLASS(*data-value***)**
specifies the number of the task class about which you are inquiring, in fullword binary form. The number must be in the range 0 –10.

Conditions

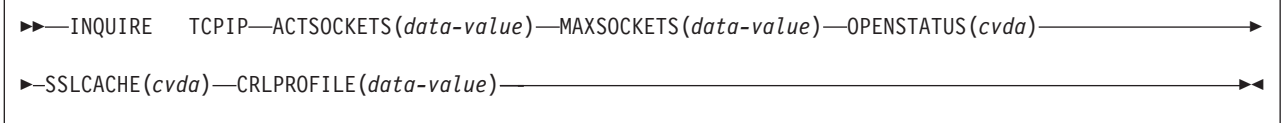
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TCIDERR
RESP2 values:
1 The named task class cannot be found.

INQUIRE TCPIP

Retrieve information about CICS internal sockets support.

INQUIRE TCPIP



Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

INQUIRE TCPIP returns information about the state of CICS internal sockets support.

Options

ACTSOCKETS(*data-value***)**
Returns a fullword binary field containing the current number of active IP sockets managed by the CICS sockets domain.

CRLPROFILE(*data-value***)**
Returns the name of the profile that authorizes CICS to access certificate revocation lists on the LDAP server for SSL connections.

MAXSOCKETS(*data-value***)**
Returns a fullword binary field containing the maximum number of IP sockets that can be managed by the CICS sockets domain.

OPENSTATUS(*cvda***)**
Returns a CVDA value indicating the status of CICS internal sockets support. CVDA values are:

OPEN
CICS internal TCPIP support is open.

CLOSED
CICS internal sockets support has not yet been activated, or has been terminated.

CLOSING
CICS internal sockets support is in the process of closing.

IMMCLOSING
CICS internal sockets support is in the process of immediate termination.

SSLCACHE(*cvda***)**
Returns a CVDA value indicating if CICS is configured to use local or sysplex caching for SSL session ids. CVDA values are:

CICS CICS is configured to cache SSL session ids in the local CICS region.

SYSPLEX
CICS is configured to cache SSL session ids in the coupling facility.

Conditions

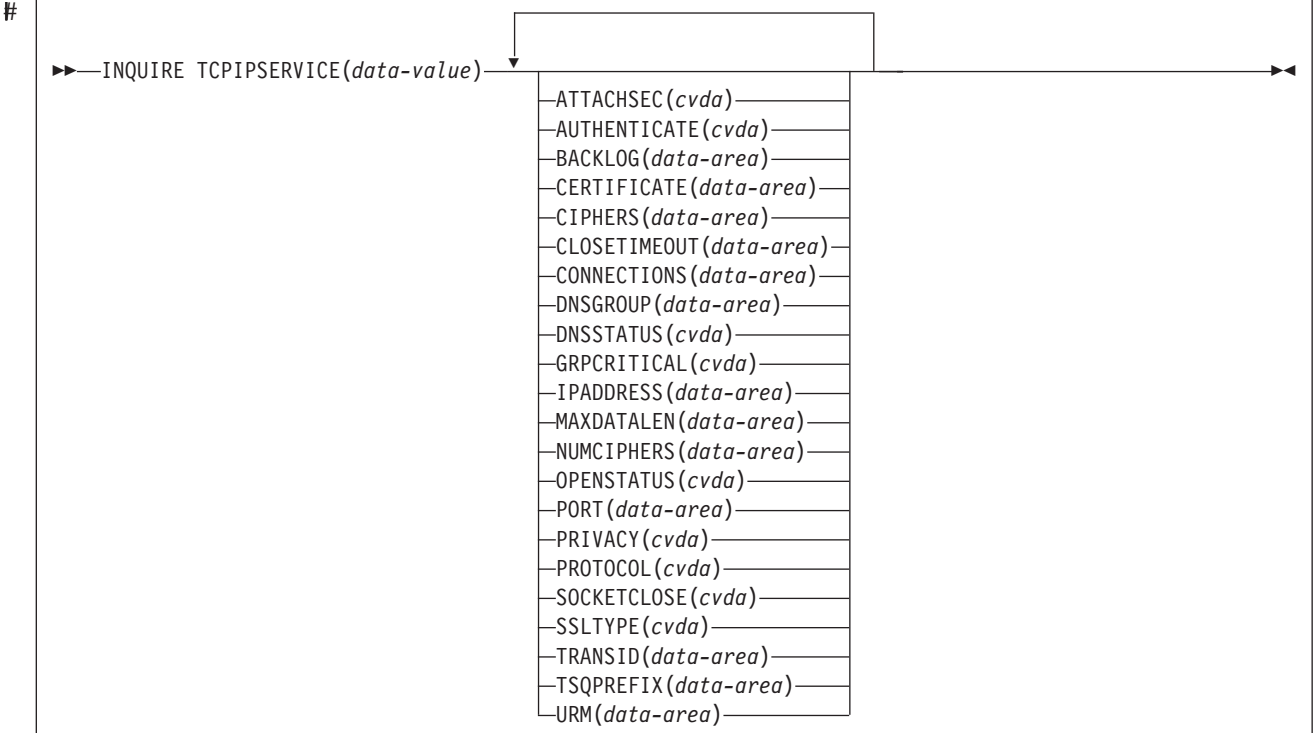
INVREQ
RESP2 values:
4 TCPIP=NO has been specified in the system initialization table.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE TCPIPSERVICE

Retrieve information about the state of a service using CICS internal TCPIP support.

INQUIRE TCPIPSERVICE



Conditions: INVREQ, NOTAUTH , NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

INQUIRE TCPIPSERVICE allows you to retrieve information about TCPIP ports on which CICS internal TCPIP support is currently listening on behalf of other CICS services.

Options

ATTACHSEC(*cvda***)**
indicates, for ECI over TCP/IP services, the level of attach-time security used by connections to CICS Clients. CVDA values are:

LOCAL
CICS does not require a userid or password from clients.

VERIFY
Incoming attach requests must specify a user identifier and a user password.

This option has no meaning for Web Interface or IIOP TCP/IP services.

AUTHENTICATE(*cvda***)**
returns a CVDA indicating the scheme used to authenticate clients. Possible values are:

- ASSERTED
- AUTOAUTH
- AUTOREGISTER
- BASICAUTH
- CERTIFICAUTH
- NOAUTHENTIC

ASSERTED
Asserted identity authentication is used to authenticate the client. This value is returned only when PROTOCOL has a value of IIOP.

AUTOAUTH
If the client does not send a certificate, then HTTP basic authentication is used to obtain a user ID and password from the client. Otherwise, SSL client certificate authentication is used to authenticate the client. If the client's certificate is not associated with a user ID, then HTTP basic authentication is used to obtain the client's user ID, and associate it with the certificate.

This value is returned only when PROTOCOL has a value of HTTP.

AUTOREGISTER
SSL client certificate authentication is used to authenticate the client. If the client's certificate is not associated with a user ID, then HTTP basic authentication is used to obtain the client's user ID, and associate it with the certificate.

This value is returned only when PROTOCOL has a value of HTTP.

BASICAUTH
HTTP basic authentication is used to obtain a user ID and password from the client.

This value is returned only when PROTOCOL has a value of HTTP.

CERTIFICAUTH
SSL client certificate authentication is used to authenticate and identify the client.

This value is returned only when PROTOCOL has a value of HTTP or IIOP.

NOAUTHENTIC
The client is not required to send authentication or identification information. However, if the client sends a valid certificate that is already registered to the security manager, and associated with a user ID, then that user ID identifies the client.

This value is returned only when PROTOCOL has a value of HTTP or IIOP.

For more information about authentication and identification of HHTP and IIOP clients, see the *CICS RACF Security Guide*.

BACKLOG(*data-area***)**
returns, in fullword binary form, the maximum number of requests which can be queued in TCP/IP waiting to be processed by the service.

CERTIFICATE(*data-area***)**
returns a 32-character area containing the label of the certificate, within the key ring, that is used as the server certificate in the SSL handshake for all secure socket layer connections on this service.

CLOSETIMEOUT(*data-area***)**
returns, in fullword binary form, the number of seconds that have been specified for this service to wait for data for a new request. This can be between 0 and 86400 (24 hours). For the HTTP protocol, 0 should not be specified, because this setting means that persistent connections cannot be maintained.

CIPHERS(*data-area***)**
returns a 56–character area containing the list of cipher suites that is used to negotiate with clients during the SSL handshake. The list is set by the ENCRYPTION system initialization parameter, but you can edit the list to remove or change the order of cipher suites. See the *CICS RACF Security Guide*.

CONNECTIONS
returns, in fullword binary form, the number of sockets connections for this service.

DNSGROUP(*data-area***)**
returns the 18–character DNS group name that this TCPIPSERVICE registers with the OS/390 Workload Manager (WLM).

DNSSTATUS(*cvda***)**
returns the current state of WLM/DNS registration of this TCPIPSERVICE. The CVDA values are:

NOTAPPLIC
This service is not using DNS connection optimization. No DNSGROUP attribute was specified when the resource was installed.

UNAVAILABLE
Registration is not supported by OS/390.

UNREGISTERED
Registration has not yet occurred (this is the initial state of any service).

REGISTERED
Registration has completed successfully.

REGERROR
Registration has failed with an error.

DEREGISTERED
Deregistration has completed successfully.

DEREGERROR
Deregistration has failed with an error.

GRPCRITICAL(*cvda***)**
returns a CVDA value specifying whether or not this TCPIPSERVICE is a critical member of the DNS group. The CVDA values are:

CRITICAL
If this TCPIPSERVICE is closed, or abnormally stops listening for any reason, the group name specified in the DNSGROUP attribute is deregistered from WLM.

NONCRITICAL
If this TCPIPSERVICE is closed, or abnormally stops listening for any

reason, the group name specified in the DNSGROUP attribute is not deregistered from WLM, unless this is the last service in a set with the same group name.

IPADDRESS(*data-area***)**
returns the 15-character dotted decimal IP address of this service.

MAXDATALEN(*data-area***)**
returns, in fullword binary form, the setting for the maximum length of data that may be received by CICS as an HTTP server.

NUMCIPHER(*data-area***)**
returns a binary halfword data-area that contains the number of cipher suites that are specified in the CIPHERS attribute.

OPENSTATUS(*cvda***)**
returns a CVDA value indicating the status of the CICS Web Interface. CVDA values are:

OPEN
CICS internal sockets support is open for this service.

CLOSED
CICS internal sockets support has not yet been activated, or has been terminated, for this service.

CLOSING
CICS internal sockets support is in the process of closing for this service.

IMMCLOSING
CICS internal sockets support is in the process of immediate termination.

PORT
returns, in fullword binary form, the number of the port on which CICS is listening on behalf of this service.

PRIVACY(*cvda***)**
returns a CVDA indicating the level of SSL encryption required for inbound connections to this service. CVDA values are:

REQUIRED
Encryption must be used. During the SSL handshake, CICS advertises only supported cipher suites that provide encryption.

SUPPORTED
Encryption is used if both client and server support it. During the SSL handshake, CICS advertises all supported cipher suites.

NOTSUPPORTED
Encryption must not be used. During the SSL handshake, CICS advertises only supported cipher suites that do not provide encryption.

PROTOCOL(*cvda***)**
returns a CVDA value indicating the underlying protocol being used on this service. CVDA values are:

ECI External CICS interface protocol.

HTTP Hypertext Transfer protocol.

IIOP Internet Inter-orb protocol.

USER User-defined protocol.

SOCKETCLOSE(cvda)
returns whether a TIMEOUT value is in effect for this service. CVDA values are:

WAIT NO was specified on the definition. Socket receives will wait for data indefinitely.

TIMEOUT
A value was specified for the SOCKETCLOSE parameter on the definition. CLOSETIMEOUT returns the specified value.

SSLTYPE(cvda)
returns a CVDA value specifying the level of secure sockets support being used for this service. CVDA values are:

NOSSL
Secure Sockets Layer is not being used for this service.

SSL Secure Sockets Layer without client authentication is being used for this service.

CLIENTAUTH
Secure Sockets Layer with client authentication is being used for this service.

TCPIPSERVICE(*data-value***)**
specifies the 1- to 8-character name of the TCP/IP service about which you are inquiring.

TRANSID(*data-area***)**
returns the 4-character transaction id used on the attach for the task started to process a new request.

TSQPREFIX(*data-area***)**
returns the 6-character prefix of the temporary storage queue used to store inbound data and Web documents created by applications. The TS queue prefix must be matched by a corresponding TSMODEL definition to meet your system and application requirements.

URM(*data-area***)**
returns the 8-character name of the service user-replaceable module invoked by attached task.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

INVREQ
RESP2 values:
4 TCPIP not available (TCPIP=NO was specified as a system initialisation parameter)
5 TCPIP is closed.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

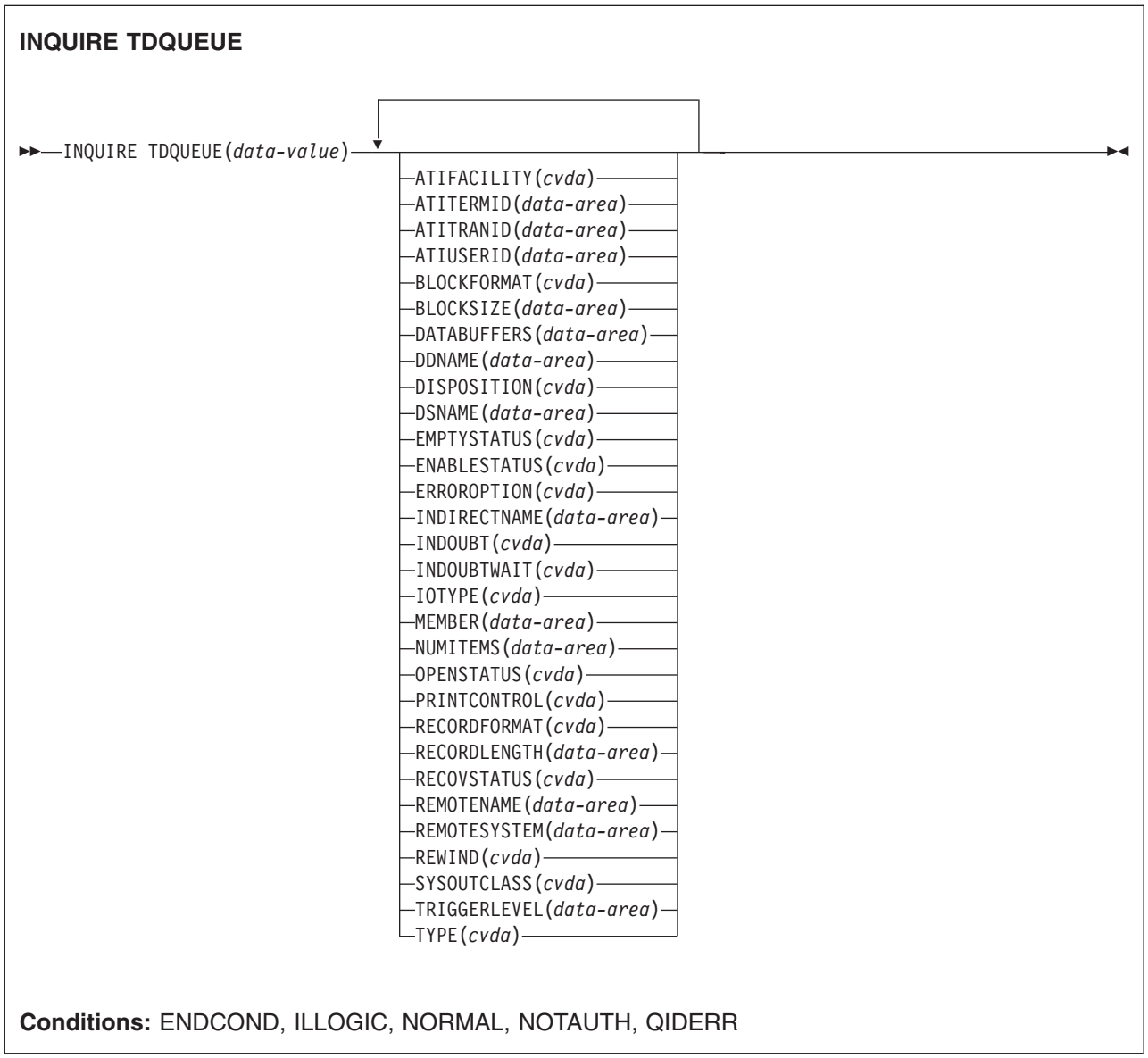
NOTFND

RESP2 values:

3 The TCPIPSERVICE was not found

INQUIRE TDQUEUE

Retrieve information about a transient data queue.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TDQUEUE command retrieves information about a particular transient data queue.

You define transient data queues to CICS using transient data resource definitions. There are two basic types: **intrapartition** and **extrapartition**. Intrapartition queues are managed and stored entirely by CICS, and are subject to automatic task initiation (ATI). ATI means that when the number of items on the queue reaches the value in the TRIGGERLEVEL option, CICS automatically creates a task to process the queue.

An extrapartition queue is an MVS sequential data set (or a spool file). Extrapartition queues are not subject to ATI, and consequently the associated options produce null values. Furthermore, if the data set is not open, CICS may not be able to determine some of the values, such as BLOCKFORMAT and RECORDFORMAT. Null values, explained in “Null values” on page 14, are returned in such cases.

Two other types of queue exist: **indirect** and **remote**, both of which point, eventually, to one of the basic types.

An indirect queue points to another queue on the same CICS system, and is essentially an alias for the other queue. When you name an indirect queue in an INQUIRE TDQUEUE command, CICS returns only the TYPE value (which is INDIRECT) and the name of the queue to which the indirect definition points (the INDIRECTNAME value). You need a second INQUIRE TDQUEUE against the INDIRECTNAME value to determine the characteristics of the underlying queue.

A remote queue is one defined on another CICS system. When you inquire about such a queue, the local CICS system returns only the information it maintains locally about the queue: the TYPE (REMOTE), the system on which it is defined (the REMOTESYSTEM value), its name there (REMOTENAME), and whether it is available to applications on the local system (its ENABLESTATUS).

Browsing

You can also browse through the transient data queues defined in your system by using the browse options (START, NEXT, and END) on INQUIRE TDQUEUE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ATIFACILITY(*cvda***) (intrapartition queues only)**
returns a CVDA value indicating whether the queue has a terminal (or session) associated with it. If it does, and CICS creates a task to process the queue because its trigger level has been reached, the terminal is assigned as the principal facility of the task. See also the ATITERMID and ATITRANID options. CVDA values are:

NOTAPPLIC
The queue is not intrapartition.

NOTERMINAL
No terminal is associated with the queue.

TERMINAL
A terminal is associated with the queue.

ATITERMID(*data-area***) (intrapartition queues only)**
returns the 4-character name of the terminal or session associated with the queue, if any (see the ATIFACILITY option). Otherwise, blanks are returned.

ATITRANID(*data-area***) (intrapartition queues only)**
returns the 4-character identifier of the transaction to be executed when CICS initiates a task automatically to process the queue. This option applies only to intrapartition queues intended for ATI; for other types of queues, and for intrapartition queues where no transaction has been specified in the queue definition, the value returned is blanks.

ATIUSERID(*data-area***) (intrapartition queues only)**
returns the 8-byte user identifier associated with the queue. CICS assigns this value to a task that it creates to process the queue if no terminal associated with the queue. If the queue is not intrapartition, or no transaction is defined for it (the ATITRANID option), blanks are returned.

If the security manager is not active, the value returned is that of the default user ID and not any value that has been included in the installed definition.

BLOCKFORMAT(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating whether the data set associated with the queue is in blocked record format or not. It applies only to extrapartition queues. CVDA values are:

BLOCKED
The records are blocked.

NOTAPPLIC
The data set is not open, or the queue is not an extrapartition queue.

UNBLOCKED
The records are not blocked.

BLOCKSIZE(*data-area***)**
returns the length of the block in bytes (in the range 1 through 32767).

DATABUFFERS(*data-area***) (extrapartition queues only)**
returns the number of buffers (in the range 1 through 255) to be used by the transient data queue.

DDNAME(*data-area***) (extrapartition queues only)**
returns an 8-character identifier (padded with blanks if necessary) that may refer to a data set name used in the startup JCL.

DISPOSITION(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating the status of the associated data set. CVDA values are:

MOD The system first assumes that the data set exists. For an existing data set, MOD causes the read/write mechanism to be positioned after the last record in the data set. The read/write mechanism is positioned after the last record each time the data set is opened for output.

If the system cannot find volume information for the data set on the DD statement, in the catalog, or passed with the data set from a previous step, the system assumes that the data set is being created in this job step. For a new data set, MOD causes the read/write mechanism to be positioned at the beginning of the data set.

NOTAPPLIC
The option does not apply because the queue is not open or is not an extrapartition queue.

OLD The data set existed before this job step.

SHARE
The data set existed before this job step and can be read by other concurrent jobs.

Note: You can use the abbreviation SHR when using CEDA to define this parameter.

DSNAME(*data-area***) (extrapartition queues only)**
returns a 1- to 44-character name that indicates an associated QSAM data set, or DUMMY data set. This is blank if SYSOUTCLASS is used.

EMPTYSTATUS(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating the state of the queue with regard to space. CICS detects a FULL condition only when a task attempts to add a record and there is no space, and detects EMPTY only when a task attempts to read and there are no records. Consequently, a value of NOTEMPTY is returned unless one of these conditions has been detected. EMPTYSTATUS applies only to extrapartition queues. CVDA values are:

EMPTY
The queue is empty.

FULL The queue is full.

NOTAPPLIC
The option does not apply because the queue is not open or is not extrapartition.

NOTEMPTY
No operation against the queue has indicated that it is either empty or full.

ENABLESTATUS(*cvda***) (all except indirect queues)**
returns a CVDA value indicating whether the queue can be accessed by applications. For remote queues, this value reflects whether the local CICS will forward commands to access the queue to the remote system or reject them with a DISABLED exception condition; it does not necessarily reflect the state of the queue on the remote system. CVDA values are:

DISABLE PENDING
The queue is currently being disabled.

DISABLED
The queue cannot be accessed by applications. (For extrapartition queues, this value does not necessarily mean that the associated data set is closed.)

DISABLING
The queue is currently being disabled.

ENABLED
The queue can be accessed by applications.

NOTAPPLIC
The queue is indirect.

ERROROPTION(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating the action that CICS should take if an I/O error is encountered. CVDA values are:

IGNORERR
The block that caused the error is accepted.

SKIP The block that caused the error is skipped.

INDIRECTNAME(*data-area***) (indirect queues only)**
returns the 4-character name of the queue that this indirect queue points to. This option applies only to queues defined as indirect; for other types of queues, blanks are returned.

INDOUBT(*cvda*) (intrapartition queues only)
returns a CVDA value indicating the action CICS is to take for an in-doubt unit of work (UOW) if the definition for this queue specifies WAIT(YES). CVDA values are:

QUEUE
The UOW is in-doubt and waiting; any locks held by the UOW for this queue remain active until the final state of the UOW is known. This means that tasks are suspended rather than receiving the LOCKED response. When the final state of the UOW is known, any changes that it has made are committed or backed out. Until then, any further requests of the following types that need one of the active locks must wait:

- READQ if the in-doubt UOW had issued READQ or DELETEQ requests.
- WRITEQ if the in-doubt UOW had issued WRITEQ or DELETEQ requests.
- DELETEQ if the in-doubt UOW had issued READQ, WRITEQ, or DELETEQ requests.

REJECT
The UOW is in-doubt and waiting, and any locks held by the UOW for this queue are retained until the final state of the UOW is known. When the final state is known, any changes it has made are committed or backed out. Until then, any further requests that need one of the retained locks are rejected, and a LOCKED condition is returned. REJECT causes LOCKED to be raised in exactly the same circumstances as those in which QUEUE causes a transaction to wait.

INDOUBTWAIT(*cvda*) (intrapartition queues only)
returns a CVDA value indicating whether an in-doubt unit of work (UOW), which has modified a recoverable queue, should wait for resynchronization with its coordinator to determine whether to commit or backout the changes. CVDA values are:

NOWAIT
The UOW is not to wait, and any changes made to recoverable resources are to be backed out or committed, as specified by the ACTION attribute on the transaction resource definition.

WAIT The UOW is to wait and any action required while waiting is determined by the WAITACTION option.

This parameter overrides the WAIT option defined on the UOW's transaction definition. See the *CICS Resource Definition Guide* for an explanation of the interactions of in-doubt attributes on the TDQUEUE and TRANSACTION definitions.

IOTYPE(*cvda*) (extrapartition queues only)
returns a CVDA value indicating whether the queue was defined for INPUT, OUTPUT, or RDBACK. CVDA values are:

INPUT The queue is defined for input and is read forward.

NOTAPPLIC
The queue is not open or is not an extrapartition queue.

OUTPUT
The queue is defined for output.

RDBACK
The queue is defined for input and is read backward.

MEMBER(*data-area***) (extrapartition queues only)**
returns the 8–character member name if the queue is a member of a partitioned data set. If not, blanks are returned.

NUMITEMS(*data-area***) (intrapartition queues only)**
returns a fullword binary field giving the number of items in the queue. A value of –1 is returned if the queue is not intrapartition.

OPENSTATUS(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating whether the queue is open, closed, or in an intermediate state. CVDA values are:

CLOSED
The queue is closed.

CLOSING
The queue is closing.

NOTAPPLIC
The queue is not extrapartition.

OPEN The queue is open.

OPENING
The queue is opening.

PRINTCONTROL(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating the type of print control, if any, defined for the queue. Printer control characters appear in the first position of the every record when used. However, CICS does not check this character when records are written to the queue, or remove the character when records are read from the queue; use and enforcement of the printer control conventions are up to the applications using the queue. CVDA values are:

ASACTL
ASA control characters are used.

MCHCTL
Machine control characters are used.

NOCTL
No print control characters are used.

NOTAPPLIC
The queue is not open or is not extrapartition.

RECORDFORMAT(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating whether the queue has fixed- or variable-length records. CVDA values are:

FIXED The queue has fixed-length records.

NOTAPPLIC
The queue is not open or is not extrapartition.

VARIABLE
The queue has variable-length records.

RECORDLENGTH(*data-area***) (extrapartition queues only)**
returns a fullword binary field giving the record length (in bytes) for queues

having fixed-length records, or the maximum record length for queues having variable-length records. RECORDLENGTH applies only to extrapartition queues; for others, –1 is returned.

RECOVSTATUS(*cvda***) (intrapartition queues only)**
returns a CVDA value indicating the type of recovery defined for the queue. Recovery is available only for intrapartition queues. CVDA values are:

LOGICAL
The queue is logically recoverable.

NOTAPPLIC
The queue is not intrapartition.

NOTRECOVABLE
The queue is not recoverable.

PHYSICAL
The queue is physically recoverable.

REMOTENAME(*data-area***) (remote queues only)**
returns the 4-character name of this queue in the remote CICS region in which the queue is defined (from the RMTNAME option in its definition). REMOTENAME applies only to queues defined as remote; for other queues the value returned is blanks.

REMOTESYSTEM(*data-area***) (remote queues only)**
returns the 4-character name of the CICS region in which the queue is defined (from the SYSIDNT value in its definition). REMOTESYSTEM applies only to queues defined as remote; for other queues the value returned is blanks.

REWIND(*cvda***) (extrapartition queues only)**
returns a CVDA value indicating the disposition of a tape data set. CVDA values are:

LEAVE
The current tape is positioned to the logical end of the data set.

REREAD
The current tape is positioned to reprocess the data set.

SYSOUTCLASS(*data-area***)**
returns a single character indicating the class attribute of the associated SYSOUT data set (or blank if DSNAME is used).

TDQUEUE(*data-value***)**
specifies the 4-character name of the transient data queue about which you are inquiring.

TRIGGERLEVEL(*data-area***) (intrapartition only)**
returns a fullword binary field giving the number of items the queue must reach before automatic transaction initiation (ATI) occurs. When the queue reaches this depth, CICS invokes a task to process it automatically. A value of zero means the queue is not subject to ATI; a value of –1 is returned if the queue is not intrapartition.

TYPE(*cvda***)**
returns a CVDA value identifying the type of queue. CVDA values are:

EXTRA
The queue is extrapartition.

INDIRECT
The queue is indirect.

INTRA
The queue is intrapartition.

REMOTE
The queue is remote.

Conditions

ENDCOND
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 Browse sequence error.

NORMAL
RESP2 values:
0 No errors

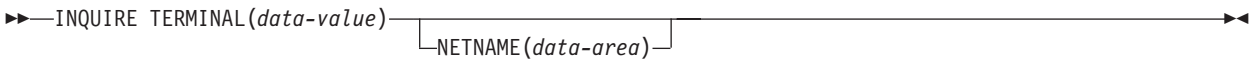
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

QIDERR
RESP2 values:
1 The named queue cannot be found.

INQUIRE TERMINAL

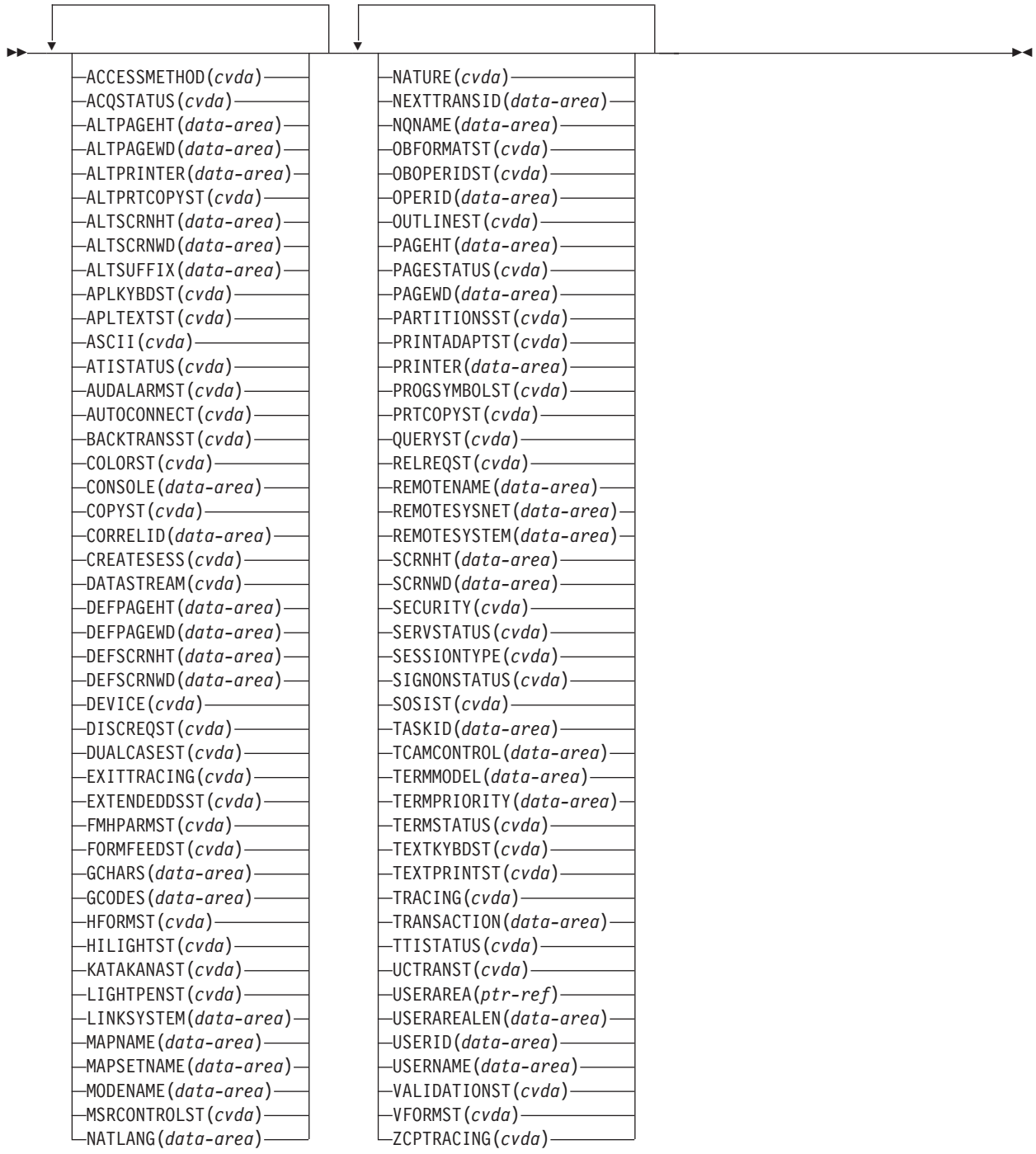
Retrieve information about a terminal or session.

INQUIRE TERMINAL/NETNAME



The following options apply to both the INQUIRE TERMINAL and the INQUIRE NETNAME command.

INQUIRE TERMINAL



Conditions: END, ILLOGIC, NOTAUTH, TERMIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TERMINAL and INQUIRE NETNAME commands both return information about a particular terminal or session installed in a CICS region.

You can use these commands to inquire about any type of terminal resource, including:

- Physical terminals owned locally (by the region in which the INQUIRE is issued)
- Remote terminals (terminals defined locally as owned by another region)
- Surrogate terminals (partial definitions which represent terminals owned by another region, shipped to the local region the first time the definition is needed)
- Models (definitions used only to autoinstall other terminals).
- MVS consoles defined to CICS.

You can also use INQUIRE TERMINAL to inquire about an APPC, LUTYPE6.1, or MRO session or, where there are parallel sessions, session group. To get full details about the associated connection, however, you must use an INQUIRE CONNECTION command.

Some of the options in this command return system status information, such as whether the terminal is acquired or not, whether it is in use by a task, and so on. Most options, however, reflect the definition of the terminal or session, modified, possibly, by subsequent SET TERMINAL commands or the information obtained from the hardware in a QUERY.

A terminal is specified by a TERMINAL resource definition and the TYPETERM definition to which it points. Characteristics shared by many terminals, such as screen size and 3270 features, are defined by TYPETERM, and those specific to one terminal, such as the name of the associated printer, are in the TERMINAL definition, which may have been autoinstalled. For a session, the CONNECTION defines shared properties and SESSIONS defines specifics. See the *CICS Resource Definition Guide* for more information about TERMINAL, TYPETERM, SESSIONS, and CONNECTION resource definitions.

In most cases, options of this type have the same name—or one recognizably similar—as the option in the resource definition. Where this is not the case, the option descriptions that follow indicate the corresponding resource options.

INQUIRE NETNAME returns the same information as INQUIRE TERMINAL. With INQUIRE TERMINAL, you identify the object of your inquiry by providing its CICS terminal identifier in the TERMINAL option. NETNAME is optional. If you include it, CICS returns the network identifier in the data area you provide.

In an INQUIRE NETNAME command, the roles of TERMINAL and NETNAME are reversed. You identify the terminal about which you are inquiring by supplying its network identifier in NETNAME, and CICS returns the corresponding CICS terminal identifier in TERMINAL if you also include that option. TERMINAL must appear before NETNAME (if present) in an INQUIRE TERMINAL command, and vice versa in an INQUIRE NETNAME command.

All of the other options apply to both commands and return the same information. Not all options apply to all types of terminals, however. In particular, when CICS ships a terminal definition from the owning region to a remote region, an inquiry issued in the owning region (where the definition is of a real terminal) produces

more information than an inquiry issued in the remote region, where the definition is a **surrogate** for the one in the owning region.

Remote terminals

In addition to links to local terminals or devices, some terminal definitions refer to remote terminals. A remote terminal is a terminal that is owned by another CICS system. The owning system is called the terminal-owning region (TOR). Note that different terminals may have different TORs. TOR here refers to the owning system for a particular terminal.

The way that the local system is connected to the TOR makes a difference to the information that the REMOTESYSTEM field returns.

If the TOR is **directly** connected to the local system, the REMOTESYSTEM field usually names the CONNECTION definition for the link. (It can name an indirect connection, but that is an unusual setup). In this case, the netname of the TOR is specified in the link CONNECTION definition.

If a remote terminal is on a system that is **not directly linked** to the TOR, the REMOTESYSTEM field can name one of two types of connection, as follows:

- A “real” connection that is the next link in the chain towards the TOR. In this case, the REMOTESYSNET option of the TERMINAL definition must specify the netname of the TOR.
- An indirect connection. In this case, the indirect connection NETNAME contains the netname of the TOR and its INDSYS option names another connection, which can also be indirect or “real”.

In both these cases, the LINKSYSTEM field of INQUIRE TERMINAL returns the “real” connection that is the next link towards the TOR. It is determined by looking at the logical chain of connections from the terminal in question to the “real” terminal entry. If the chain is broken (because a connection has not been installed yet, or has been discarded) LINKSYSTEM is not set. For a fuller explanation of the relationship between REMOTESYSTEM, REMOTESYSNET, and LINKSYSTEM, see “Remote connections” on page 184.

Browsing

You can also browse through the definitions of all the terminals installed in your system by using the browse options (START, NEXT, and END) on INQUIRE TERMINAL or INQUIRE NETNAME commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACCESSMETHOD(*cvda***)**
returns a CVDA value indicating the access method defined for the terminal. CVDA values are:

BGAM
The access method is BGAM.

BSAM The access method is BSAM.

CONSOLE
The terminal is an operating system console, accessed through MVS console support facilities.

NOTAPPLIC
The terminal is an MRO session.

TCAM The access method is TCAM (DCB interface).

VTAM The access method is VTAM.

ACQSTATUS(*cvda***) (VTAM only)**
returns the same value as the TERMSTATUS option and is retained only for compatibility purposes. You should use TERMSTATUS in new applications.

ALTPAGEHT(*data-area***)**
returns a halfword binary field giving the height (in lines) of the alternate page size. See also the DEFPAGEHT and PAGEHT options.

ALTPAGEWD(*data-area***)**
returns a halfword binary field giving the width (in characters) of the alternate page size. See also the DEFPAGEWD and PAGEWD options.

ALTPRINTER(*data-area***)**
returns the 4-character name of the printer designated for print key requests and ISSUE PRINT commands from tasks at this terminal when the printer named in the PRINTER option of the TERMINAL definition is not available.

ALTPRTCOPYST(*cvda***)**
returns a CVDA value indicating whether CICS is to use the hardware copy feature to satisfy a print request on the printer named in the ALTPRINTER option. CVDA values are:

ALTPRTCOPY
CICS is to use the hardware copy feature.

NOALTPRTCOPY
CICS is not to use the hardware copy feature.

NOTAPPLIC
The terminal is not a VTAM terminal, or is a remote terminal, a surrogate terminal, or a model definition.

ALTSCRNHT(*data-area***)**
returns a halfword binary field giving the height (in lines) of the alternate screen size. See also the DEFSCRNHT and SCRNHT options.

ALTSCRNWD(*data-area***)**
returns a halfword binary field giving the width (in characters) of the alternate screen size. See also the DEFSCRNWD and SCRNWD options.

ALTSUFFIX(*data-area***)**
returns the 1-character suffix that BMS appends to map set names for maps written to this terminal when the screen is the alternate size and suffixing is in use.

If ALTSUFFIX was not specified in the definition of this terminal, the byte returned contains x'00'. Notice that the value x'00' is not described as null, because this is a character field and, in that context, null refers to the blank character x'40', see “Null values” on page 14 for a discussion of null values.

APLKYBDST(*cvda***)**
returns a CVDA value indicating whether the terminal has the APL keyboard feature. CVDA values are:

APLKYBD
The terminal has the APL keyboard feature.

NOAPLKYBD
The terminal does not have the APL keyboard feature.

APLTEXTST(*cvda***)**
returns a CVDA value indicating whether the terminal has the APL text feature. CVDA values are:

APLTEXT
The terminal has the APL text feature.

NOAPLTEXT
The terminal does not have the APL text feature.

ASCII(*cvda***)**
returns a CVDA value indicating the type of ASCII code the terminal uses, if applicable. CVDA values are:

ASCII7
The code is 7-bit ASCII.

ASCII8
The code is 8-bit ASCII.

NOTAPPLIC
The terminal does not use ASCII.

ATISTATUS(*cvda***)**
returns a CVDA value indicating whether CICS can initiate a task automatically (ATI) with this terminal as its principal facility.

ATI The terminal can be used in ATI.

NOATI
The terminal cannot be used in ATI.

AUDALARMST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 audible alarm feature. CVDA values are:

AUDALARM
The terminal has the audible alarm feature.

NOAUDALARM
The terminal does not have the audible alarm feature.

AUTOCONNECT(*cvda***)**
returns a CVDA value indicating whether CICS should attempt to establish (bind) a session with this terminal when communication with VTAM is established. CVDA values are:

ALLCONN
CICS binds the session. This value is returned when the AUTOCONNECT value is ALL in the associated TYPETERM definition (when you are inquiring about a terminal) or ALLCONN in the SESSIONS definition (when you are inquiring about a session).

AUTOCONN
CICS binds the session. This value is returned when the AUTOCONNECT value is YES in the associated TYPETERM definition (in an inquiry about a terminal) or AUTOCONN in the SESSIONS definition (in an inquiry about a session).

NONAUTOCONN
CICS does not bind a session.

NOTAPPLIC
The terminal is not a VTAM terminal, or is a remote terminal, a surrogate, or a model.

BACKTRANSST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 background transparency feature. Background transparency allows you to control whether the display area behind a character is clear (transparent) or shaded. CVDA values are:

BACKTRANS
The terminal has the background transparency feature.

NOBACKTRANS
The terminal does not have the background transparency feature.

COLORST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 extended color feature, which allows colors to be selected for individual fields or characters. CVDA values are:

COLOR
The terminal has the extended color feature.

NOCOLOR
The terminal does not have the extended color feature.

CONSOLE(*data-area***)**
returns, for an MVS console only, a 12-byte string that identifies the console. If the device is not a console, CICS returns 12 blanks.

If the console is autoinstalled, or is defined explicitly with a console name, the name is returned in the first 8 bytes, and the last 4 bytes are blank.

COPYST(*cvda***)**
returns a CVDA value indicating whether the control unit through which the terminal is attached includes the copy feature. COPYST applies only to 3270 terminals. CVDA values are:

COPY The control unit has the copy feature.

NOCOPY
The control unit does not have the copy feature.

CORRELID(*data-area***)**
returns an 8-character correlation-id that is only set for sessions, as follows:

- For LU6.1 sessions, it is set to the value of NETNAMEQ.
- For MRO sessions, it is set to the termid of the session at the other end of the MRO link to which this session is connected.
- For LU6.2 sessions, it is an 8-character token that is common to the two sessions that are connected.

Using CORRELID, you can relate the two parts of an MRO, LU6.1, or LU6.2 conversation, and so discover, for example, which program is running a particular function shipping mirror.

CREATESESS(*cvda***) (VTAM only)**
returns a CVDA value indicating whether CICS should attempt to acquire the terminal if it is required for an automatic task initiation (ATI) request. Only VTAM physical terminals can be acquired by CICS; sessions are not eligible. CVDA values are:

CREATE
The terminal can be acquired.

NOCREATE
The terminal cannot be acquired.

NOTAPPLIC
The terminal is not a VTAM terminal or is a session (APPC, LUTYPE6.1, or MRO).

DATASTREAM(*cvda***)**
returns a CVDA value indicating the type of data stream used by the terminal. CVDA values are:

DS3270
The terminal uses the 3270 data stream.

NOTAPPLIC
The terminal does not use either the 3270 or SCS data stream.

SCS The terminal uses SNA character strings.

DEFPAGEHT(*data-area***)**
returns a halfword binary field giving the height (in lines) of the default page size. (The corresponding option in the TYPETERM definition is PAGESIZE.) See also the ALTPAGEHT and PAGEHT options.

DEFPAGEWD(*data-area***)**
returns a halfword binary field giving the width (in characters) of the default page size. (The corresponding option in the TYPETERM definition is PAGESIZE.) See also the ALTPAGEWD and PAGEWD options.

DEFSCRNHT(*data-area***)**
returns a halfword binary field giving the height (in lines) of the default screen size. See also the ALTSCRNHT and SCRNHT options.

DEFSCRNWD(*data-area***)**
returns a halfword binary field giving the width (in characters) of the default screen size. See also the ALTSCRNWD and SCRNWD options.

DEVICE(*cvda***)**
returns a CVDA value identifying the terminal or session type. CVDA values for this option are listed in “CVDA values for the DEVICE option” on page 668.

DISCREQST(*cvda***)**
returns a CVDA value indicating whether CICS is to honor a request to disconnect the terminal. Disconnect requests result from an ISSUE DISCONNECT command, or a CESF (sign-off) task with the GOODNIGHT or LOGOFF option. CVDA values are:

DISCREQ
CICS will honor a request to disconnect this terminal (with a VTAM CLSDST request to terminate the session if the terminal is a VTAM terminal).

NODISCREQ
CICS will not honor a request to disconnect this terminal.

DUALCASEST(*cvda***)**
returns a CVDA value indicating whether the terminal has a typewriter keyboard or an operator console keyboard. CVDA values are:

DUALCASE
The terminal has a typewriter keyboard.

NODUALCASE
The terminal has an operator console keyboard (this keyboard is *not* restricted to a single case), or is not a 3270 display.

EXITTRACING(*cvda***) (VTAM only)**
returns a CVDA value indicating whether this terminal is traced when CICS VTAM exit tracing is active. (See the TCEXITSTATUS option in the INQUIRE TRACEFLAG command, on page "TCEXITSTATUS" on page 382.) CVDA values are:

EXITTRACE
The terminal is traced.

NOEXITTRACE
The terminal will not be traced.

NOTAPPLIC
The terminal is not a VTAM terminal, or is a remote terminal, a surrogate terminal, or a model definition.

EXTENDEDDSST(*cvda***)**
returns a CVDA value indicating whether the terminal supports the 3270 extended data stream. The terminal has this support if the TYPETERM definition specifies it either explicitly (in the EXTENDEDDS option) or implicitly, by specifying features that use the extended data stream (see the BACKTRANST, COLORST, HILIGHTST, MSRCONTROLST, OUTLINEST, PARTITIONSST, PROGSYMBOLST, SOSIST, and VALIDATIONST options of this command). Extended data stream support implies that the terminal accepts write-structured fields commands, including QUERY, and, conversely, support for QUERY (that is, a value of ALL or COLD for the QUERY option) implies support for the extended data stream. CVDA values are:

EXTENDEDDS
The terminal supports the extended data stream.

NOEXTENDEDDS
The terminal does not support the extended data stream.

FMHPARMST(*cvda***)**
returns a CVDA value indicating whether BMS accepts user-supplied values for inclusion in a function management header (FMH) to be built by BMS. This support is available only on 3650 terminals. CVDA values are:

FMHPARM
BMS allows user-supplied values.

NOFMHPARM
BMS does not allow user-supplied values.

FORMFEEDST(*cvda***)**
returns a CVDA value indicating whether the terminal has the forms feed feature. CVDA values are:

FORMFEED
The terminal has the forms feed feature.

NOFORMFEED
The terminal does not have the forms feed feature.

GCHARS(*data-area***)**
returns a halfword binary field giving the graphic character set global identifier

(GCSGID), which identifies the set of graphic characters that can be input or output at this terminal. (The corresponding option in the TYPETERM definition is CGCSGID.)

The GCHARS option applies only to graphic terminals; for others 0 is returned.

GCODES(*data-area***)**
returns a halfword binary field giving the code page global identifier (CPGID), which identifies the EBCDIC code page that defines the code points for the characters that can be input or output at the terminal. (The corresponding option in the TYPETERM definition is CGCSGID.)

The GCODES option applies only to graphic terminals; for others 0 is returned.

HFORMST(*cvda***)**
returns a CVDA value indicating whether the terminal has the horizontal forms feature, which is required for use of horizontal tabbing when formatting documents for output. CVDA values are:

HFORM
The terminal has the horizontal forms feature.

NOHFORM
The device does not have the horizontal forms feature.

HILIGHTST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 extended highlighting facility, which enables fields or characters to be displayed in reverse-video, underlined, or blinking. CVDA values are:

HILIGHT
The terminal has extended highlighting.

NOHILIGHT
The terminal does not have extended highlighting.

KATAKANAST(*cvda***)**
returns a CVDA value indicating whether the terminal is a Katakana terminal. CVDA values are:

KATAKANA
The terminal is a Katakana terminal.

NOKATAKANA
The terminal is not a Katakana terminal.

LIGHTPENST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 selector pen feature. CVDA values are:

LIGHTPEN
The terminal has the selector pen feature.

NOLIGHTPEN
The terminal does not have the selector pen feature.

LINKSYSTEM(*data-area***)**
returns the 4-character name of the connection that is the real link towards the TOR for a remote terminal entry, if it is available. It is not available if some connection definitions in the chain from the remote entry to the link system are missing.

MAPNAME(*data-area***)**
returns the 7-character name of the map that was most recently referenced in

the MAP option of a SEND MAP command processed for this terminal. If this terminal is a surrogate, and the terminal-owning system is a CICS Transaction Server for z/OS region, the map name may be the last map sent by the terminal-owning region or another AOR in which this terminal has been represented as a surrogate device. The map name returned may no longer be held in the device buffer, because an intervening BMS command such as SEND TEXT or SEND CONTROL (or a terminal control SEND command), or operator action, may have partially or completely removed the map display. If the terminal is not supported by BMS (for example, this terminal is a session), or CICS has no record of any map being sent, the value returned is blanks.

MAPSETNAME(*data-area***)**
returns the 8-character name of the mapset that was most recently referenced in the MAPSET option of a SEND MAP command processed for this terminal. If the MAPSET option was not specified on the most recent request, BMS uses the map name as the mapset name. In both cases, the mapset name used may be suffixed by a terminal or alternate suffix. If this terminal is a surrogate, the mapset name may be the last mapset used by the terminal-owning region or another AOR in which this terminal has been represented as a surrogate device. If the terminal is not supported by BMS (for example this terminal is a session), or CICS has no record of any mapset being used, the value returned is blanks.

Note: See the *CICS Application Programming Guide* for information about mapset suffixing.

MODENAME(*data-area***) (APPC only)**
returns the 8-character name of the session group to which the session about which you are inquiring belongs (from the LOGMODE option of the SESSIONS definition). MODENAME applies only to APPC logical units; for other types, the value returned is blanks.

MSRCONTROLST(*cvda***)**
returns a CVDA value indicating whether the terminal has a magnetic slot reader. This feature is available only on 8775 and 3643 terminals. CVDA values are:

MSRCONTROL
The terminal has a magnetic slot reader.

NOMSRCONTROL
The terminal does not have a magnetic slot reader.

NATLANG(*data-area***)**
returns a 1-character value giving the national language specified in the terminal definition. This value cannot be changed by any command, and is not necessarily the same as the national language currently in use at the terminal. To determine current language, see the NATLANGINUSE option of the ASSIGN command in the *CICS Application Programming Reference* manual. Possible values are listed in the *CICS RACF Security Guide*. A blank means that no value has been specified.

NATURE(*cvda***)**
returns a CVDA value identifying the nature of the terminal definition. CVDA values are:

MODEL
A remote terminal definition (representing a terminal owned by another CICS region) which is not currently expanded into a surrogate.

REMSESSION
A remote session.

SESSION
A session.

SURROGATE
A remote terminal definition (representing a terminal owned by another CICS region) which is expanded into a surrogate.

TERMINAL
A physical terminal definition.

NETNAME(*data-area***)**
returns the 8-character network name of the terminal about which you are inquiring.

For a physical terminal, this is the name by which this terminal is known to VTAM. For ISC sessions, it is the name by which the session (or session group, if there are parallel sessions) is known to VTAM. For MRO sessions, it is the name used by the connected region to log on to the interregion communication program. For a remote terminal, it is the name by which the terminal is known to the VTAM in the remote region. (For a remote terminal routed from a pre-CICS Transaction Server for z/OS region, NETNAME is blank.)

If the netname is a VTAM LU alias, it is different from the netname component of the NQNAME, which always contains the real netname.

Note: The description above applies to the NETNAME option in an INQUIRE TERMINAL command. In an INQUIRE NETNAME command, the roles of NETNAME and TERMINAL are reversed. NETNAME specifies the name of the terminal or session about which you are inquiring to CICS, rather than returning information, and TERMINAL returns the corresponding terminal identifier if you use it. See the description of INQUIRE NETNAME on page “INQUIRE NETNAME” on page 278.

NEXTTRANSID(*data-area***)**
returns the 4-character identifier of the transaction to be executed to process the next unsolicited input from this terminal. This value comes from the TRANSACTION value in the TERMINAL or SESSIONS definition, if one has been specified. If the value has not been specified, it was set by the previous task for which the terminal was principal facility (in the TRANSID option of its final RETURN command) and is blanks if that task did not specify a value or if an active task has the terminal as principal facility.

NQNAME(*data-area***)**
returns the 17-character network-qualified name for any terminal that received an NQNAME from VTAM at logon time.

This applies to local terminals only—remote terminals do not have a network-qualified name.

NQNAME, which is supported for problem determination purposes only, is returned for both autoinstalled and RDO-defined resources if it has been supplied by VTAM. However, it is not catalogued for RDO-defined resources and is therefore not available on a restart until that resource logs on again.

If the resource is non-VTAM or a remote terminal, NQNAME is blank. If the resource is a VTAM resource but has not yet received an NQNAME, CICS returns the known netname.

OBFORMATST(*cvda***)**
returns a CVDA value indicating whether outboard formatting can be used for this terminal. CVDA values are:

NOOBFORMAT
This terminal does not support outboard formatting.

OBFORMAT
This terminal supports outboard formatting.

OBOPERIDST(*cvda***)**
returns a CVDA value indicating whether CICS uses outboard operator identifiers to support the BMS routing facilities at this terminal. This option only applies to the 3790 and 3770 batch data interchange logical units. CVDA values are:

NOOBOPERID
CICS does not use outboard operator identifiers.

OBOPERID
CICS uses outboard operator identifiers.

OPERID(*data-area***)**
returns the 3-character operator identification code of the user signed on at the terminal.

Note: If the terminal is a surrogate terminal, this value may not be current; it represents the user signed on at the time the terminal definition was shipped from the owning CICS region to this one, who may since have signed off. For information, see the *CICS RACF Security Guide*. The OPERID may also be different from that of the user currently signed on if it has been changed with the SET TERMINAL command.

OUTLINEST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 field outlining feature. CVDA values are:

NOOUTLINE
The terminal does not support field outlining. (This value is always returned for a model terminal.)

OUTLINE
The terminal supports field outlining.

PAGEHT(*data-area***)**
returns a halfword binary field giving the height (in lines) of the current page size for the terminal. See the DEFPAGEHT and ALTPAGEHT options.

PAGESTATUS(*cvda***)**
returns a CVDA value indicating how pages of BMS messages with a disposition of PAGING should be delivered to the terminal. CVDA values are:

AUTOPAGEABLE
Pages are written automatically in sequence.

PAGEABLE
Pages are written on request from the operator.

PAGEWD(*cvda***)**
returns a halfword binary field giving the width (in characters) of the current page size for the terminal. See also the DEFPAGEWD and ALTPAGEWD options.

PARTITIONSST(*cvda***)**
returns a CVDA value indicating whether the terminal supports partitions. CVDA values are:

NOPARTITIONS
The terminal does not support partitions.

PARTITIONS
The terminal supports partitions.

PRINTADAPTST(*cvda***)**
returns a CVDA value indicating whether the terminal has the printer adapter feature. CVDA values are:

NOPRINTADAPT
The terminal does not have a printer adapter.

PRINTADAPT
The terminal has a printer adapter.

PRINTER(*data-area***)**
returns the 4-character name of the preferred printer for print key requests and ISSUE PRINT commands from tasks at this terminal. This printer is used if available; if not, the printer named in the ALTPRINTER option is second choice.

PROGSYMBOLST(*cvda***)**
returns a CVDA value indicating whether the terminal supports the 3270 programmed symbol feature, which enables the terminal to use multiple character sets. CVDA values are:

NOPROGSYMBOL
The terminal does not support programmable symbols.

PROGSYMBOL
The terminal supports programmable symbols.

PRTCOPYST(*cvda***)**
returns a CVDA value indicating whether CICS is to use the hardware copy feature to satisfy a print request on the printer named on the PRINTER option. CVDA values are:

NOPRTCOPY
CICS is not to use the hardware copy feature.

NOTAPPLIC
The terminal is not a VTAM terminal, or is a remote terminal, a surrogate terminal, or a model definition.

PRTCOPY
CICS is to use the hardware copy feature.

QUERYST(*cvda***)**
returns a CVDA value indicating whether and when CICS should use a QUERY structured field to determine the characteristics of the terminal.

ALLQUERY
The terminal is to be queried each time it is connected.

COLDQUERY
The terminal is to be queried only when it is first connected after an initial or cold start of CICS. The device characteristics are stored on the global catalog for use on subsequent warm and emergency starts.

NOQUERY
The terminal is not to be queried.

RELREQST(*cvda***) (VTAM only)**
returns a CVDA value indicating whether CICS is to honor requests from VTAM to release the terminal or session. CVDA values are:

NORELREQ
CICS cannot release the logical unit, or the access method is not VTAM.

RELREQ
CICS can release the logical unit.

REMOTENAME(*data-area***)**
returns the 4-character name of this terminal in the remote CICS region in which it is defined. REMOTENAME applies only to terminals defined as remote; for others the value returned is blanks.

REMOTESYSNET(*data-area***)**
returns the 8-character netname of the owning TOR, if the subject of this inquiry is a remote terminal. If it is blank, but the terminal is remote, the system named in the REMOTESYSTEM field has not been installed, and no value was specified for the REMOTESYSNET option when the terminal was defined.

REMOTESYSTEM(*data-area***)**
returns the 4-character name of a connection, if the subject of the inquiry is a remote terminal. The named connection can be either a connection entry that links towards the TOR, or an indirect connection that provides the netname of the TOR.

Otherwise this field is blank.

SCRNHT(*data-area***) (or SCREENHEIGHT)**
returns a halfword binary field giving the height (in lines) of the current screen size. See also the DEFSCRNHT and ALTSCRNHT options.

Note: SCRNHT is a synonym for the SCREENHEIGHT option of earlier releases of CICS. For compatibility, CICS recognizes SCREENHEIGHT as equivalent.

SCRNWD(*data-area***) (or SCREENWIDTH)**
returns a halfword binary field giving the current width of the terminal screen (in characters). See the DEFSCRNWD and ALTSCRNWD options.

Note: SCRNWD is a synonym for the SCREENWIDTH option of earlier releases of CICS. For compatibility, CICS recognizes SCREENWIDTH as equivalent.

SECURITY(*cvda***)**
returns a CVDA value indicating whether the terminal has preset security; that is, whether a USERID value has been specified in the TERMINAL or SESSIONS definition, so that it is permanently signed on. CVDA values are:

NOPRESETSEC
The terminal does not have preset security.

PRESETSEC
The terminal has preset security.

SERVSTATUS(*cvda***)**
returns a CVDA value indicating whether the terminal is available for use (from the point of view of the local CICS system, which may be different from the system which owns the terminal). SERVSTATUS corresponds to the

INSERVICE option in the TERMINAL definition. “Available” (INSERVICE) does not necessarily imply, for a VTAM terminal, that the terminal is acquired.

GOINGOUT
The terminal is put in OUTSERVICE status as soon as some current work has completed and is not available to new tasks.

INSERVICE
The terminal is available.

OUTSERVICE
The terminal is not available.

SESSIONTYPE(*cvda***)**
returns a CVDA value identifying the type of the session about which you are inquiring. This option applies only to VTAM sessions. CVDA values are:

APPCPARALLEL
This is a parallel APPC session group.

APPCSINGLE
This is a single APPC session.

LU61 This is an LUTYPE6.1 session.

NOTAPPLIC
The terminal is not one of the above.

SIGNONSTATUS(*cvda***)**
returns a CVDA value identifying whether the terminal currently has a signed-on user. CVDA values are:

SIGNEDOFF
The terminal does not have a signed-on user.

SIGNEDON
The terminal has a signed-on user.

SOSIST(*cvda***)**
returns a CVDA value indicating whether the terminal supports mixed EBCDIC and double-byte character set (DBCS) fields. CVDA values are:

NOSOSI
The terminal does not support mixed fields.

SOSI The terminal supports mixed fields.

TASKID(*data-area***)**
returns a fullword binary field giving the number of the user task currently executing at this terminal. Zero is returned if no task is using the terminal.

TCAMCONTROL(*data-area***) (TCAM only)**
returns a 1-character TCAM control byte giving one of the following codes to identify which segment of a message has passed between CICS and TCAM.

The meanings are:
00 Null
40 Intermediate part of message
F1 First part of message
F2 Last part of message
F3 Whole message
F4 Intermediate part of message, end of record
F5 First part of message, end of record
F6 Last part of message, end of record

F7 Whole message, end of record
FE TCAM is not active
FF Not applicable (non-TCAM terminal)

TERMINAL(*data-value***)**
specifies the 4-character name of the terminal or session about which you are inquiring, in an INQUIRE TERMINAL command. In an INQUIRE NETNAME command, this option *returns* the terminal identifier that corresponds to the NETNAME value you specified. See the NETNAME option and the general information for this command.

TERMMODEL(*data-area***)**
returns a halfword binary field giving the terminal model number.

TERMPRIORITY(*data-area***)**
returns a fullword binary field giving the priority of the terminal relative to other terminals, in the range 0–255.

TERMSTATUS(*cvda***) (VTAM only)**
returns a CVDA value indicating whether CICS is in session with the logical unit represented by this terminal. CVDA values are:

ACQUIRED
CICS is in session with the logical unit.

ACQUIRING
The session is in the process of being acquired.

NOTAPPLIC
The terminal is not a VTAM terminal.

RELEASED
CICS is not in session with the logical unit.

RELEASING
The session is in the process of being released.

TEXTKYBDST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3270 text-keyboard feature. CVDA values are:

NOTEXTKYBD
The terminal does not have the text-keyboard feature.

TEXTKYBD
The terminal has the text-keyboard feature.

TEXTPRINTST(*cvda***)**
returns a CVDA value indicating whether the terminal has the 3288 text-print feature. CVDA values are:

NOTEXTPRINT
The terminal does not have the text-print feature.

TEXTPRINT
The terminal has the text-print feature.

TRACING(*cvda***)**
returns a CVDA value indicating the type of tracing defined for this terminal. CVDA values are:

SPECTRACE
Special tracing is specified.

STANTRACE
Standard tracing is specified.

For a task that has this terminal as its principal facility, this value is combined with the TRACING option value of the transaction the task is executing to determine whether tracing is standard, special, or suppressed.

If the transaction TRACING value is SUPPRESSED, no tracing occurs. Otherwise, tracing is special if either the terminal or the transaction specifies SPECTRACE, standard if both specify STANTRACE.

A TRACING value of STANTRACE is assigned when the terminal is defined. You can specify SPECTRACE only with a SET TERMINAL command or the CICS-supplied CETR transaction.

TRANSACTION(*data-area***)**
returns the 4-character identifier of the transaction being executed by the task for which this terminal is the principal facility. Blanks are returned if no task is currently running at the terminal.

TTISTATUS(*cvda***)**
returns a CVDA value indicating whether this terminal can initiate tasks by entering unsolicited input. CVDA values are:

NOTTI This terminal cannot initiate transactions.

TTI This terminal can initiate transactions.

UCTRANST(*cvda***)**
returns a CVDA value indicating whether input from this terminal is translated to uppercase automatically, at the time of receipt. (Translation can be suppressed, but only in a conversational task, when input is solicited with a RECEIVE or CONVERSE ASIS command.) This value comes from the UCTRAN option of the TYPETERM definition associated with the terminal; there is also a UCTRAN option in a PROFILE definition, but that value is not pertinent here. CVDA values are:

NOUCTRAN
Input from this terminal is not translated to uppercase on receipt. (It is translated before presentation to the task issuing a RECEIVE, however, if the PROFILE definition for the transaction being executed specifies translation. See Table 6 on page 600 for information on how the UCTRAN options on the terminal and transaction profiles interact.)

TRANIDONLY
This value is the same as NOUCTRAN, with one difference. If the input is unsolicited, and CICS needs to use the initial characters of the input to decide which transaction to execute, that decision is made from a *copy* of the input which has been translated to uppercase. There is no difference in the data presented to the task between these two options.

UCTRAN
The input is translated to uppercase on receipt. (It is unaffected by the translation option in the PROFILE).

USERAREA(*ptr-ref***)**
returns the address of the terminal control table user area (TCTUA) for this terminal. If there is no TCTUA, the address returned is XFF000000.

USERAREALEN(*data-area***)**
returns a halfword binary field giving the length of the user area. Zero is returned if there is no user area.

USERID(*data-area***)**
returns the 8-character identifier of the user signed on at this terminal or session.

If there is no signed-on user, the default user ID—as specified in the DFLTUSER system initialization parameter—is returned.

USERNAME(*data-area***)**
returns the 20-character name of the user signed on at this terminal or session (that is, the name corresponding to the USERID option value). If the information, which is provided by the external security manager, is shorter than 20 bytes, CICS pads it to 20 with trailing blanks. Blanks are returned if there is no signed on user.

VALIDATIONST(*cvda***)**
returns a CVDA value identifying whether the device has the extended validation feature, which allows you to request special processing of keyboard input, additional to normal 3270 function. This feature is available only on 8775 and 3290 terminals. CVDA values are:

NOVALIDATION
The terminal does not have the extended validation feature or is a model terminal.

VALIDATION
The terminal has the extended validation feature.

VFORMST(*cvda***)**
returns a CVDA value indicating whether the terminal has the vertical forms feature, which is required for use of vertical tabbing when formatting documents for output. CVDA values are:

NOVFORM
The device does not have the vertical forms feature.

VFORM
The terminal has the vertical forms feature.

ZCPTRACING(*cvda***) (VTAM only)**
returns a CVDA value indicating whether this terminal is traced when CICS tracing for VTAM terminals is turned on. CVDA values are:

NOTAPPLIC
The terminal is not a VTAM terminal, or is a surrogate terminal or a model definition.

NOZCPTRACE
The terminal will not be traced.

ZCPTRACE
The terminal is traced.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

TERMIDERR

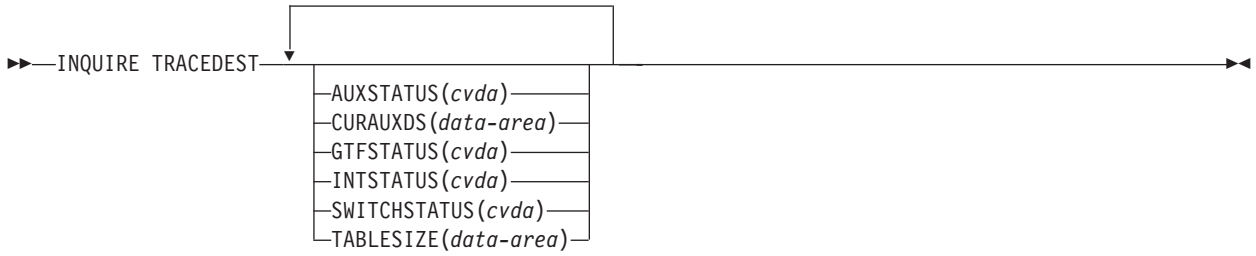
RESP2 values:

1 The named terminal cannot be found.

INQUIRE TRACEDEST

Retrieve information about tracing.

INQUIRE TRACEDEST



Conditions: NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TRACEDEST command tells you where CICS trace entries are currently being written. There are three possible destinations, which can be used in any combination: the CICS internal trace table, the auxiliary trace data set, and the MVS Generalized Trace Facility (GTF). The number and types of trace entries are controlled by switch settings that you can determine with the INQUIRE TRACEFLAG and INQUIRE TRACETYPE commands.

Options

AUXSTATUS(*cvda***)**
returns a CVDA value indicating whether auxiliary tracing is active; that is, whether trace entries are being written to an auxiliary trace data set. CVDA values are:

AUXPAUSE
Auxiliary tracing is not currently active, but was earlier in the current execution of CICS. It was suspended with a SET TRACEDEST AUXPAUSE command (or the CEMT equivalent). The current auxiliary trace data set has been left open, and a subsequent SET TRACEDEST AUXSTART command will cause trace entries to be written immediately following those that were written before the AUXPAUSE request.

AUXSTART
Auxiliary tracing is active.

AUXSTOP
Auxiliary tracing is not active (the current trace data set, if any, is closed).

CURAUXDS(*data-area***)**
returns the 1-character identifier of the current auxiliary trace data set, which can be ‘A’, ‘B’, or blank.

If your CICS system is initialized to allow auxiliary tracing, it will have either a single auxiliary trace data set, known as the 'A' data set, or two, 'A' and 'B'. The "current" or "active" one receives trace entries when auxiliary tracing is turned on, and the other, if there are two, is a standby, for use when the current one becomes full (see the SWITCHSTATUS option). If there is no auxiliary trace data set, the CURAUXDS value is blank.

GTFSTATUS(*cvda***)**
returns a CVDA value indicating whether GTF tracing is active; that is, whether CICS is directing trace entries to the MVS Generalized Trace Facility (GTF). CVDA values are:

GTFSTART
GTF tracing is active.

GTFSTOP
GTF tracing is not active.

Note: In order to record trace entries on GTF, CICS must be initialized with GTF support (in the GTFTR system initialization option), GTF tracing must be started (with a SET TRACEDEST GTFSTART command or equivalent), and GTF trace must be started in MVS with the TRACE=USR option. If either of the first two conditions is not met, GTFSTATUS is GTFSTOP. However, GTFSTATUS can be GTFSTART without the third condition; in this case, no entries are written to GTF, but there is no other error indication.

INTSTATUS(*cvda***)**
returns a CVDA value indicating whether internal tracing is active; that is, whether trace entries are being written in the internal trace table. CVDA values are:

INTSTART
Internal tracing is on.

INTSTOP
Internal tracing is off.

Note: Exception trace entries are always written to the internal trace table, regardless of the INTSTATUS value.

SWITCHSTATUS(*cvda***)**
returns a CVDA value indicating the action that CICS is to take when the active auxiliary trace data set fills. If there are two data sets, CICS can switch them automatically when this occurs. Switching involves closing the current active data set, opening the standby, and reversing the designation of which is active and standby. Without automatic switching, auxiliary tracing is stopped and cannot resume without a SET TRACEDEST command or the CEMT equivalent.

CVDA values are:

NOSWITCH
CICS takes no action.

SWITCHALL
CICS is to switch data sets every time the current one is full.

SWITCHNEXT
CICS is to switch data sets when the current one is full, but only once; thereafter NOSWITCH is in effect.

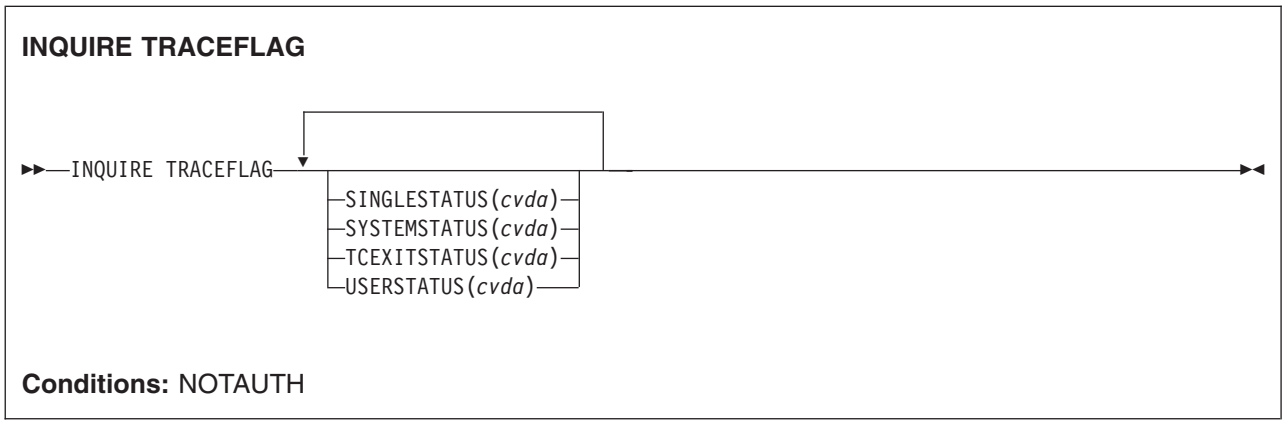
TABLESIZE(*data-area***)**
returns a fullword binary field giving the size of the internal trace table in kilobytes.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE TRACEFLAG

Retrieve information about trace flags.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TRACEFLAG command returns the current settings of the flags that control tracing in CICS generally, and for the task that issued the command specifically.

Tracing facilities and control are discussed in detail in the *CICS Problem Determination Guide*.

Options

SINGLESTATUS(*cvda***)**
returns a CVDA value indicating whether tracing is turned on or is suppressed for the task that issued this INQUIRE TRACEFLAG command. No non-exception trace entries are made for a task when this flag is off, regardless of the settings of the master trace flags (exception trace entries are *always* recorded).

The SINGLESTATUS value comes from the TRACE option in the definition of the TRANSACTION the task is executing, unless a different value has been specified, either for the transaction or for the terminal that is the principal facility, by means of the CICS-supplied CETR transaction. When a task is in progress, its SINGLESTATUS value can also be changed with a SET TRACEFLAG command.

CVDA values are:

SINGLEOFF
Tracing is suppressed.

SINGLEON
Tracing is allowed.

SYSTEMSTATUS(*cvda***)**
returns a CVDA value indicating the status of the system master trace flag. This flag governs whether CICS makes or suppresses standard trace entries (it does not affect special or exception trace entries). It applies to all tasks and all

system activity; however, for such trace entries to be recorded for any particular task, both the system master flag and the SINGLESTATUS flag for that task must be on.

CVDA values are:

SYSTEMOFF
Standard tracing is suppressed.

SYSTEMON
Standard tracing is active.

TCEXITSTATUS(*cvda***) (VTAM only)**
returns a CVDA value indicating which invocations of the CICS VTAM exits are being traced.

Two types of exit activity can be traced: invocations associated with particular terminals that have been designated for VTAM exit tracing ("terminal-specific" activity) and invocations not related to any particular terminal ("nonterminal-specific" activity).

CVDA values are:

NOTAPPLIC
VTAM is not installed in the system.

TCEXITALL
All exit activity is being traced.

TCEXITNONE
No exit activity is being traced.

TCEXITSYSTEM
Nonterminal-specific activity is being traced, but terminal-specific activity is not.

USERSTATUS(*cvda***)**
returns a CVDA value indicating the status of the user master trace flag. This flag governs whether non-exception user trace entries are recorded or suppressed (entries that specify the EXCEPTION option are never suppressed). It applies to all tasks; however, for such entries to be recorded for any particular task, both the user master trace flag and the SINGLESTATUS flag for that task must be on. CVDA values are:

USEROFF
User tracing is suppressed.

USERON
User tracing is allowed.

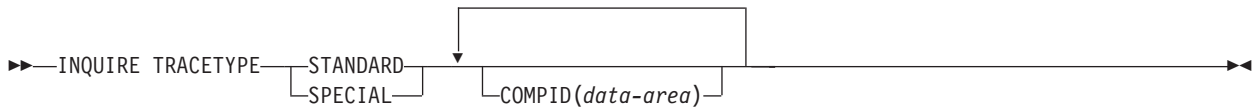
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE TRACETYPE

Retrieve information about CICS system tracing.

INQUIRE TRACETYPE



Conditions: NOTAUTH, NOTFND

Description

The INQUIRE TRACETYPE command tells you which levels of tracing are currently in effect for particular CICS system components.

Each CICS component has trace levels defined separately for standard CICS tracing and special tracing (see the *CICS Problem Determination Guide* for definitions of these terms and for information about CICS tracing in general). You can ask about either type in an INQUIRE TRACETYPE command, and for any number of components, but you can ask about only one type in a single command.

For each component that you specify, the trace levels are returned as a 32-bit string (in a 4-character data area). The bits are read from left to right; that is, the first bit is on if trace level 1 is in effect, bit 2 corresponds to trace level 2, and so on. A value of X80000000 thus represents trace level 1. Bits for trace levels that are not defined are set to zero.

The SJ component uses higher trace levels than most other components. Trace levels 29–32 for the SJ component correspond to JVM Level 0 trace, JVM Level 1 trace, JVM Level 2 trace and JVM User trace respectively. The CICS-supplied transaction CETR includes screens that provide a better way to view the current settings and options for JVM trace.

Options

COMPID(*data-area***)**
returns the trace levels for the CICS component identified by COMPID in the format described above.

CICS components can be identified by a 2-character identifier or, in some cases, a descriptive keyword. For example, to determine the trace levels for the directory manager component of CICS, you can specify either:

```
INQUIRE TRACETYPE DD(data-area)
```

or

```
INQUIRE TRACETYPE DIRMGR(data-area)
```

The following list shows all the 2-character identifiers, and the keywords for those components that have them.

AP	APPLICATION	Application

BA	BUSAPPMGR	Business applications manager
BF*		Built-in functions
BM*		Basic mapping support
BR*	BRIDGE	3270 Bridge
CP*	CPI	Common programming interface
DC*		Dump control
DD	DIRMGR	Directory manager
DH		Document handling
DI*		Batch data interchange
DM	DOMAINMGR	Domain manager
DP		Debugging Profiles domain
DS	DISPATCHER	Dispatch manager
DU	DUMP	Dump manager
EI*		EXEC interface
EJ	ENTJAVA	Enterprise Java domain
EM	EVENTMGR	Event manager
FC*		File control and DL/I
GC	GLOBALCATLG	CICS global catalog manager
IC*		Interval control
IE		ECI over TCP/IP domain
II	IIOP	IIOP domain
IS*		Intersystem communication
KC*		Task control
KE	KERNEL	Kernel
LC	LOCALCATLG	CICS local catalog manager
LD	LOADER	Program load manager
LG	LOGMGR	Log manager
LM	LOCKMGR	Lock manager
ME	MESSAGE	Message manager
MN	MONITOR	Monitoring manager
NQ		Enqueue domain
OT	OBJECTTRAN	Object Transaction Service (OTS) domain
PA	PARAMGR	Parameter manager
PC*		Program control
PG	PROGMGR	Program manager
PI	Pipeline manager domain	
PT	PARTNER	Partner manager
RI*		Resource manager interface (RMI)
RM		Recovery manager
RX	RRS	Resource recovery services
RZ	REQUESTSTRM	Request streams domain
SC*		Storage control
SH		Scheduler services domain for BTS
SJ	SJVM	CICS JVM domain
SM	STORAGE	Storage manager
SO	SOCKETS	Sockets
ST	STATISTICS	Statistics manager
SZ*		Front-end programming interface
TC*		Terminal control
TD*		Transient data
TI	TIMER	Timer manager
TR	TRACE	Trace manager
TS		Temporary storage
UE*		User exit interface

US	USER	User interface
WB	WEB	Web interface
XM	TRANMGR	Transaction manager
XS	SECURITY	Security manager

SPECIAL
indicates that CICS should return the trace levels for special tracing.

STANDARD
indicates that CICS should return the trace levels for standard tracing.

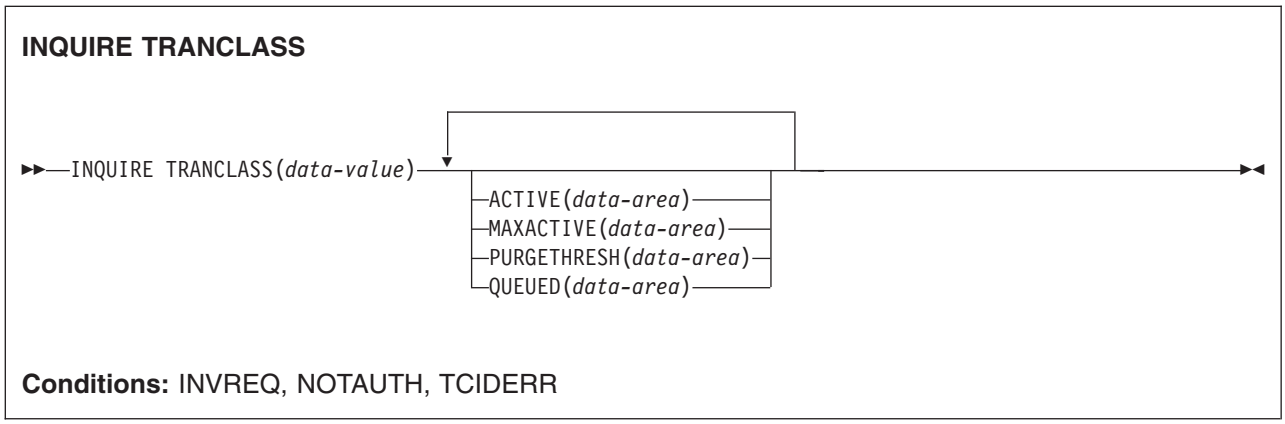
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 CICS was initialized without support for at least one of the components listed in the command; trace levels were returned for all other components.

INQUIRE TRANCLASS

Retrieve information about a transaction class.



Description

The INQUIRE TRANCLASS command allows you to determine the limits defined for a transaction class and the current activity within the class.

Browsing

You can also browse through the definitions of all the transaction classes in your system by using the browse options (START, AT, NEXT, and END) on INQUIRE TRANCLASS commands. In browse mode, definitions are returned in alphabetical order, and you can specify a starting point with the AT option if you wish. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

ACTIVE(*data-area***)**
returns a fullword binary field giving the current number of tasks in this class. This count does not include tasks that are queued waiting for initial dispatch.

MAXACTIVE(*data-area***)**
returns a fullword binary field giving the largest number of tasks in the transaction class which are allowed to run concurrently.

PURGETHRESH(*data-area***)**
returns a fullword binary field giving the maximum number of tasks in this class that can be queued awaiting initial dispatch (see the QUEUED option). Tasks in this class that arrive while the queue is at its PURGETHRESH limit are purged.

QUEUED(*data-area***)**
returns a fullword binary field giving the number of tasks that are queued awaiting initial dispatch. Queuing occurs either because the number of active tasks is already at the maximum, or because the maximum for the system has been reached (see the MAXTASKS option in the INQUIRE SYSTEM command).

TRANCLASS(*data-value***)**
specifies the 8-character name of the transaction class about which you are inquiring. If the class is one of the numbered classes used in earlier releases of CICS, its name is DFHTCL*nn*, where *nn* is the two-digit class number.

Conditions

INVREQ

RESP2 values:

12 The TRANCLASS definition is in use.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

TCIDERR

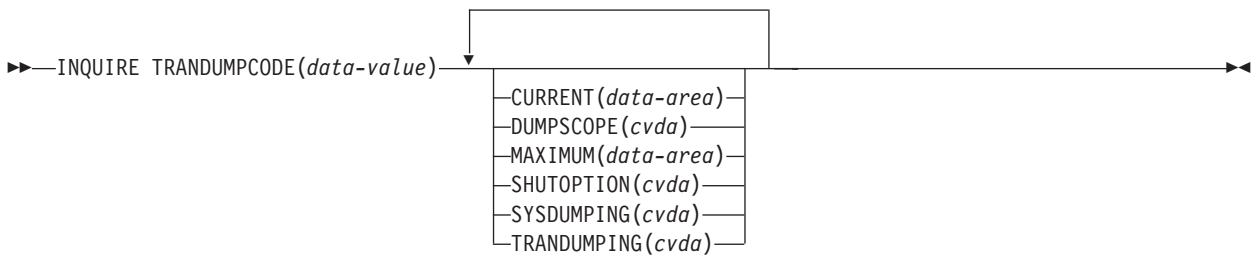
RESP2 values:

1 The transaction class cannot be found.

INQUIRE TRANDUMPCODE

Retrieve information about a transaction dump code.

INQUIRE TRANDUMPCODE



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TRANDUMPCODE command allows you to look at some of the information in the transaction dump table entry for a particular transaction dump code.

The table entry tells CICS what actions to take when a transaction dump request with this code is received. Possible actions are: taking a transaction dump, taking a system dump (an MVS SDUMP), forwarding an SDUMP request to related MVS images, and shutting down CICS. The table entry also indicates how many times this set of actions is to be taken (the MAXIMUM option), and the number of requests received after the maximum are counted (the CURRENT option), but otherwise ignored.

CICS provides a transaction dump table with default actions for CICS transaction abend codes (those beginning with the letter *A*). These can be changed and others can be added with the SET TRANSDUMPCODE command or the CEMT transaction; such changes are preserved over executions of CICS, until an initial or cold start occurs.

CICS builds table entries, using default values, when it receives a dump request with a code for which it does not have an entry. You can also add your own entries with the SET TRANDUMPCODE command or a CEMT transaction.

Entries you add remain over executions of CICS until an initial or cold start occurs, but the entries CICS builds are considered temporary and are discarded at shutdown.

Consequently, if you enquire about a code that is not explicitly defined before it appears in a dump request, you get a “not found” response.

Browsing

You can also browse through all of the entries in the transaction dump table by using the browse options (START, NEXT, and END) on INQUIRE TRANDUMPCODE commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

CURRENT(*data-area***)**
returns a fullword binary field giving the number of dump requests with this dump code made since the count was last reset. (The count is reset automatically at CICS shutdown and can be reset explicitly with a SET SYSDUMPCODE RESET command or its CEMT equivalent.) The count includes requests that do not result in dumps, either because they are suppressed for this code or because the number for this code has reached its maximum.

DUMPSCOPE(*cvda***)**
returns a CVDA value indicating whether a request for a dump with this dump code should cause an SDUMP (system dump) request to be sent to related MVS images.

A related image is one which contains a CICS region doing work on behalf of the task that caused the dump request-specifically, a region that has a task doing work under the same APPC token as the task causing the dump.

The sending of SDUMP requests occurs only when the table entry for this code specifies a system dump (that is, the SYSDUMPING value is SYSDUMP), and only in a sysplex environment executing under MVS/ESA 5.1 and the MVS workload manager.

CVDA values are:

LOCAL
SDUMP requests are not to be sent.

RELATED
SDUMP requests are to be sent.

MAXIMUM(*data-area***)**
returns a fullword binary field giving the maximum number of times CICS will take the set of actions indicated in the transaction dump table entry when a dump request with this code is received. A value of 999 means the default, ‘no limit’.

SHUTOPTION(*cvda***)**
returns a CVDA value indicating whether the CICS system is to be shut down after a request for a dump with this dump code. CVDA values are:

NOSHUTDOWN
The CICS system is not to shut down.

SHUTDOWN
The CICS system is to shut down.

SYSDUMPING(*cvda***)**
returns a CVDA value indicating whether a system dump should be taken when a transaction dump request with this code is received. Even when the dump table entry specifies a system dump, however, one is taken only when the

CURRENT value is no greater than the MAXIMUM, and system dumps are not suppressed system-wide (see the DUMPING option in the INQUIRE SYSTEM command). CVDA values are:

NOSYSDUMP
A system dump is not to be taken.

SYSDUMP
A system dump is to be taken.

TRANDUMPCODE(*data-value***)**
specifies the 4-character transaction dump code about which you are inquiring. A valid transaction dump code has no leading or imbedded blanks.

TRANDUMPING(*cvda***)**
returns a CVDA value indicating whether a transaction dump should be taken when a transaction dump request with this code is received. Even when the dump table entry specifies a transaction dump, however, one is taken only when the CURRENT value is no greater than the MAXIMUM. CVDA values are:

NOTRANDUMP
The transaction dump is to be suppressed.

TRANDUMP
The transaction dump is to be taken.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

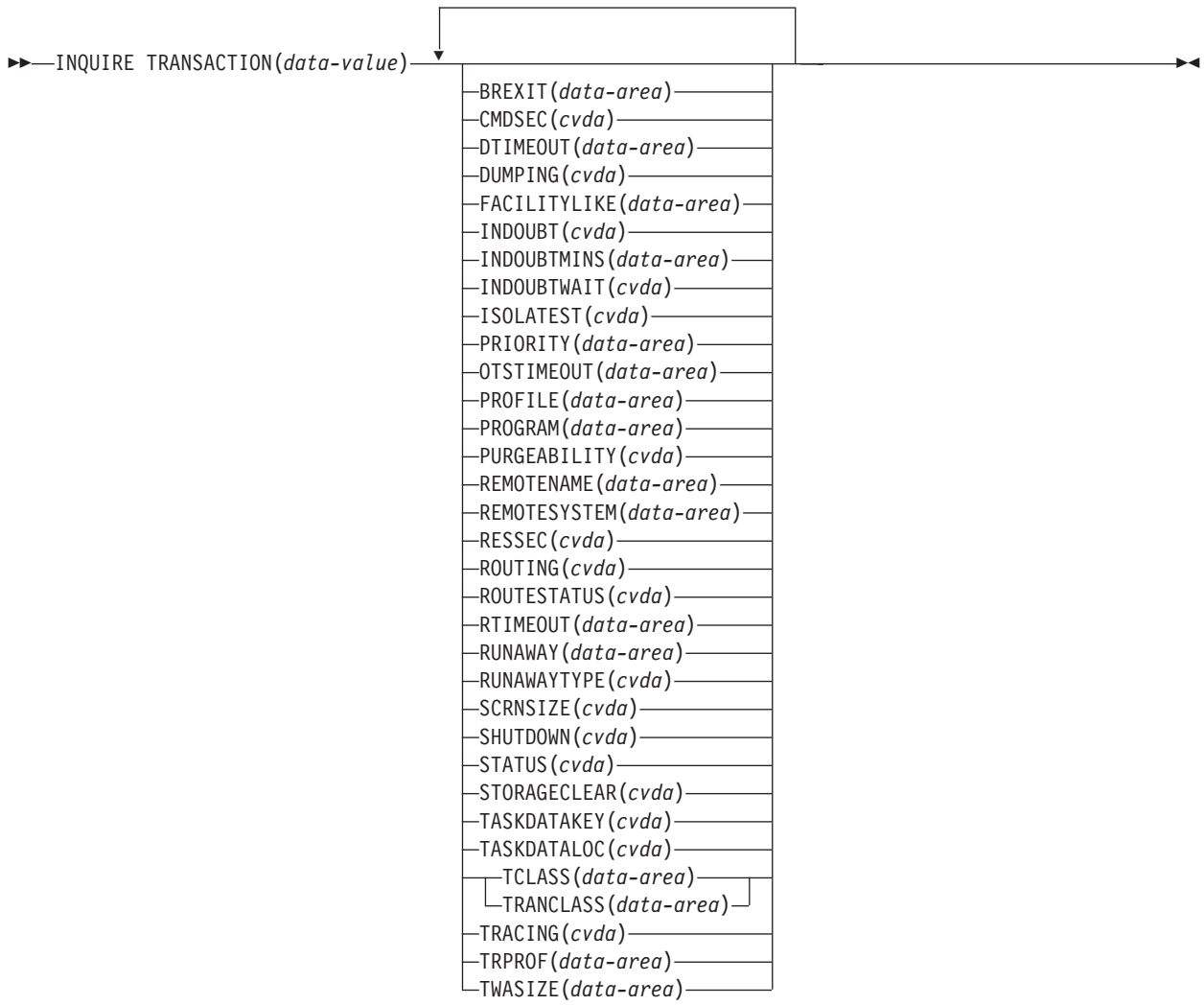
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The dump code cannot be found.

INQUIRE TRANSACTION

Retrieve information about a TRANSACTION definition.

INQUIRE TRANSACTION



Conditions: END, ILLOGIC, INVREQ, NOTAUTH, TRANSIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TRANSACTION command retrieves information about a particular transaction installed in your CICS system.

Most of the values come from the TRANSACTION resource definition, but a few come from the profile definition to which it points (these are noted in the descriptions). See the *CICS Resource Definition Guide* for full details about the attributes of these two types of resources.

Many of the values produced by an INQUIRE TRANSACTION command are the same as those produced by the same-named options in an INQUIRE TASK command, when the task is executing the transaction, because a task acquires most of its characteristics from the definition of the transaction. However, as noted in the description of that command, the values for a task also reflect the CICS system environment.

Furthermore, when a task is routed from one CICS to another, the transaction specified in the sending region may be different from the one executed in the receiving region, so that an inquiry about its TRANSACTION value can produce different results in the sending and receiving regions. Indeed, in the case of dynamic routing, the transaction specified in the sending CICS (and shown as the TRANSACTION value in an INQUIRE TASK there) need not even be defined if the default processing for an undefined transaction code is dynamic routing.

Browsing

You can also browse through all of the TRANSACTION definitions in your system by using the browse options (START, AT, NEXT, and END) on INQUIRE TRANSACTION commands. In browse mode, the definitions are returned in alphabetic order, and you can specify a starting point with the AT option if you wish. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

BREXIT(*data-area***)**
returns the 8-character name of the bridge exit defined by the BREXIT parameter of the named transaction resource definition.

If BREXIT is not defined, blanks are returned.

CMDSEC(*cvda***)**
returns a CVDA value indicating whether command security checking should be performed for tasks executing this transaction. CVDA values are:

CMDSECNO
Command security checking should not be performed.

CMDSECYES
Command security checking should be performed.

DTIMEOUT(*data-area***)**
returns a fullword binary field giving the deadlock time-out value (in seconds) for a task executing this transaction. CICS abends a task that waits for a locked resource longer than its deadlock timeout value.

DUMPING(*cvda***)**
returns a CVDA value indicating whether CICS should take a transaction dump if a task executing this transaction terminates abnormally. CVDA values are:

NOTRANDUMP
No dump should be taken.

TRANDUMP
A dump should be taken.

This DATAvalue applies only to abend dumps and has no effect on DUMP TRANSACTION commands.

FACILITYLIKE(*data-area***)**
returns the 4-character name of the terminal defined by the FACILITYLIKE parameter in the PROFILE associated with the named transaction resource definition.

If FACILITYLIKEis not defined, blanks are returned.

INDOUBT(*cvda***)**
returns a CVDA value, based on the ACTION attribute of the TRANSACTION resource definition, indicating the action to be taken if the CICS region fails or loses connectivity with its coordinator while a unit of work is in the in-doubt period.

The action depends on the values returned in INDOUBTWAIT and INDOUBTMINS; if INDOUBTWAIT returns WAIT, the action is not normally taken until the time returned in INDOUBTMINS expires. (For exceptions to this rule, see INDOUBTWAIT.)

CVDA values are:

BACKOUT
All changes made to recoverable resources are to be backed out.

COMMIT
All changes made to recoverable resources are to be committed, and the unit of work marked as completed.

Note: If a program uses the obsolete DTB option, which was replaced by INDOUBT, a CVDA value of NOTSUPPORTED is returned.

INDOUBTMINS(*data-area***)**
returns a fullword binary field giving the length of time, in minutes, after a failure during the in-doubt period, before the transaction is to take the action returned in the INDOUBT field. The returned value is valid only if the unit of work is in-doubt and INDOUBTWAIT returns WAIT.

INDOUBTWAIT(*cvda***)**
returns a CVDA value, based on the WAIT attribute of the TRANSACTION definition, indicating how CICS is to respond if a failure occurs while a unit of work (UOW) is in an in-doubt state. CVDA values are:

NOWAIT
The UOW is not to wait, pending recovery from the failure. CICS is to take immediately whatever action is specified on the ACTION attribute of the TRANSACTION definition.

WAIT The UOW is to wait, pending recovery from the failure, to determine whether recoverable resources are to be backed out or committed.

Note: Even if INDOUBTWAIT returns WAIT, there may be aspects of the UOW that force CICS to take an immediate decision—that is, to take immediately the action specified on the ACTION attribute of the transaction definition. This can happen if, for example, the UOW contains:
- Subordinate LU6.1 sessions
- Subordinate MRO sessions to pre-CICS Transaction Server for z/OS systems.

For further information about the meaning of the ACTION and WAIT attributes of the TRANSACTION definition, see the *CICS Resource Definition Guide*.

ISOLATEST(*cvda***)**
returns a CVDA value indicating whether a task executing this transaction should run isolated when isolation is active in the system.

Isolation limits the access, for both read and write, of user-key programs to task storage. A program executing in user key on behalf of an isolated task can access the task storage of only that task, and this storage cannot be accessed by programs executing in user key on behalf of other tasks. Isolation does not affect access by CICS-key programs and does not apply to storage with the SHARED attribute or any other non-task storage.

Isolation must be turned on for the system as well as the transaction in order for a task to run isolated. (See the TRANISOLATE option of the INQUIRE SYSTEM command.) CVDA values are:

ISOLATE
Tasks should run isolated.

NOISOLATE
Tasks should not run isolated.

OTSTIMEOUT(*data-area***)**
returns a fullword data-area containing the default period in seconds an OTS transaction, created in an EJB environment executing under this CICS transaction, is allowed to execute prior to syncpoint.

PRIORITY(*data-area***)**
returns a fullword binary field giving the priority of this transaction relative to other transactions in the CICS system, in the range 1–255.

PROFILE(*data-area***)**
returns the 8-character name of the profile definition for this transaction. The profile defines attributes that govern the interaction between a task executing the transaction and the terminal or session which is its principal facility.

PROGRAM(*data-area***)**
returns the 8-character name of the first program invoked by a task executing this transaction.

PURGEABILITY(*cvda***)**
returns a CVDA value indicating whether CICS is allowed to purge this task (that is, to terminate it abnormally). Purge requests come from SET TASK PURGE commands (or CEMT equivalents), and CICS can generate them internally to reclaim resources to relieve a system stall condition. CVDA values are:

NOTPURGEABLE
The task cannot be purged.

PURGEABLE
The task can be purged.

The PURGEABILITY value is set initially by the SPURGE option in the definition of the TRANSACTION this task is executing.

REMOTENAME(*data-area***)**
returns the 8-character name by which this transaction is known in the remote system, if it is defined as a remote transaction. (Read the description of

"Defining a TRANSACTION" in the *CICS Resource Definition Guide* for a fuller discussion of the length of REMOTENAME). Blanks are returned if the transaction is not remote.

REMOTESYSTEM(*data-area***)**
returns the 4-character name of the remote system on which this transaction is defined, if it is defined as a remote transaction.

If the remote transaction is defined as DYNAMIC=YES, and remotesystem is omitted, CICS returns the name of the local region.

Blanks are returned if the transaction is not remote.

RESSEC(*cvda***)**
returns a CVDA value identifying whether resource-level security checking should be performed for a task executing this transaction. CVDA values are:

RESSECNO
Resource-level checking should not be performed.

RESSECYES
Resource-level checking should be performed.

ROUTING(*cvda***)**
returns a CVDA value indicating whether a task executing this transaction is subject to dynamic routing. CVDA values are:

DYNAMIC
The task can be routed dynamically.

STATIC
The task cannot be routed dynamically.

ROUTESTATUS
returns a CVDA value indicating whether, if the transaction is the subject of an eligible START command, it is routed using the enhanced routing method. CVDA values are:

NOTROUTABLE
If the transaction is the subject of a START command, it is routed using the “traditional” method.

ROUTABLE
If the transaction is the subject of an eligible START command, it will be routed using the enhanced method.

For details of the enhanced and “traditional” methods of routing transactions invoked by EXEC CICS START commands, see the *CICS Intercommunication Guide*.

RTIMEOUT(*data-area***)**
returns a fullword binary field giving the read time-out value for a task executing this transaction, in seconds. CICS abends a task if it waits for input longer than its read time-out value. This value is defined in the profile definition (see the PROFILE option).

RUNAWAY(*data-area***)**
returns a fullword binary field giving the “runaway task” time, in milliseconds, for tasks executing this transaction. If a task keeps control of the processor for more than this interval, CICS assumes it is in a loop and abends it. If the value is zero, CICS does not monitor the task for a runaway condition.

RUNAWAYTYPE(*cvda***)**
returns a CVDA value indicating the source of the RUNAWAY option value for this transaction. CVDA values are:

SYSTEM
The value is the current default for the system. (See the ICVR option of the INQUIRE SYSTEM command.)

USER The value was defined explicitly in the transaction definition.

SCRNSIZE(*cvda***)**
returns a CVDA value indicating whether a task executing this transaction should use the alternate or the default screen size. This value is defined in the profile definition (see the PROFILE option). CVDA values are:

ALTERNATE
The alternate screen size is to be used.

DEFAULT
The default screen size is to be used.

SHUTDOWN(*cvda***)**
returns a CVDA value indicating whether this transaction can be executed during CICS shutdown by a task created to process unsolicited input. (The transaction also can be executed in this situation if it appears in the transaction list table (XLT) for shutdown.) CVDA values are:

SHUTDISABLED
The transaction cannot be executed.

SHUTENABLED
The transaction can be executed.

STATUS(*cvda***)**
returns a CVDA value indicating whether the transaction is available for use. CVDA values are:

DISABLED
The transaction is not available for use.

ENABLED
The transaction is available for use.

STORAGECLEAR(*cvda***)**
returns a CVDA value indicating whether CICS should clear storage that is released from a task executing this transaction (to prevent other tasks accidentally viewing confidential data). CVDA values are:

CLEAR
Storage is cleared.

NOCLEAR
Storage will not be cleared.

TASKDATAKEY(*cvda***)**
returns a CVDA value indicating the key of the storage CICS assigns to a task executing this transaction. This storage includes task life-time storage—the transaction work area (TWA) and the EXEC interface block (EIB)—and the storage that CICS obtains on behalf of programs that run under the task.

CVDA values are:

CICSDATAKEY
CICS-key storage is assigned.

USERDATAKEY
User-key storage is assigned.

TASKDATALOC(*cvda***)**
returns a CVDA value indicating whether task-lifetime storage for a task executing this transaction should be above or below the 16MB line. Task-lifetime storage includes the EIB and TWA. CVDA values are:

ANY Task-lifetime storage can be above or below the 16MB line.

BELOW
Task-lifetime storage must be below the 16MB line.

TCLASS(*data-area***)**
returns a fullword binary field giving the number of the transaction class to which the transaction belongs, if the task belongs to a numbered class. Zero is returned if the transaction does not belong to any class, and an INVREQ exception condition is raised if the transaction belongs to a class that does not correspond to a numbered class.

The TCLASS option is retained for compatibility with earlier releases of CICS, where transaction classes were numbered from 1 to 10. In this release, transaction classes have 8-character names, specified by the TRANCLASS value in the definition (see that option in this command).

A class is numbered only if its name is of the form DFHTCL*nn*, where *nn* is a number from 00 to 10, and it is this number that is returned by the TCLASS option in this command. (The TRANSACTION definition can contain a TCLASS value as well, to allow the same definition to be installed in a system running under an earlier release, but the TCLASS value is ignored in this release and does not need to correspond to the TRANCLASS value.)

TRACING(*cvda***)**
returns a CVDA value indicating the type of tracing to be done for tasks executing this transaction. CVDA values are:

SPECTRACE
Tracing is to be special.

SPRSTRACE
Tracing is suppressed.

STANTRACE
Tracing is to be standard.

If this value is other than SPRSTRACE and the task has a principal facility, the tracing value for the task is determined from a combination of the TRACING values for its terminal and the transaction it is executing. In this case, tracing is special if either the terminal or the transaction specifies SPECTRACE, standard if both specify STANTRACE.

A TRACING value of STANTRACE is assigned when the transaction is defined. You can specify other values only with a SET TERMINAL command or the CICS-supplied CETR transaction.

TRANCLASS(*data-area***)**
returns the 8-character name of the transaction class to which this transaction belongs. If the transaction does not belong to any class, the value DFHTCL00 is returned.

TRANSACTION(*data-value***)**
specifies the 4-character name of the transaction definition about which you are inquiring.

TRPROF(*data-area***)**
returns the 8-character name of the profile definition used to define attributes associated with the session used for routing, if transaction routing occurs.

TWASIZE(*data-area***)**
returns a fullword binary field giving the size, in bytes, of the transaction work area (TWA) for this transaction.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

INVREQ
RESP2 values:
3 The TCLASS option has been specified in this INQUIRE command, and the transaction belongs to a class that is not one of the numbered classes DFHTCL00 through DFHTCL10.

NORMAL
RESP2 values:
10 The profile definition associated with the transaction is not available.

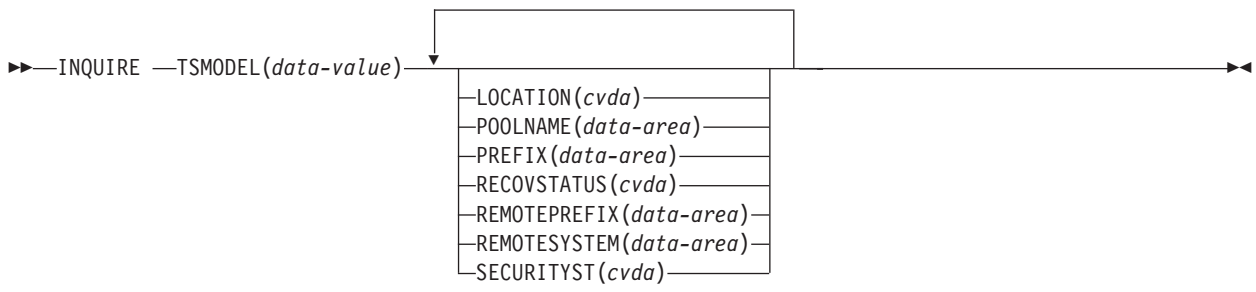
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

TRANSIDERR
RESP2 values:
1 The transaction could not be found.

INQUIRE TSMODEL

Retrieve information about a temporary storage model.

INQUIRE TSMODEL



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TSMODEL command returns information about a particular TS model.

Browsing

You can also browse through all of the temporary storage models in your system by using the browse options (START, NEXT, and END) on INQUIRE TSMODEL commands.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

LOCATION(*cvda***)**
returns a CVDA value indicating where queues matching the model are to be stored. CVDA values are:

AUXILIARY
Queues matching this model are to be held on auxilairy storage.

MAIN Queues matching this model are to be held in main storage.

POOLNAME(*data-area***)**
returns an 8-character shared pool name.

PREFIX(*data-area***)**
returns a 16–byte character string, or a 32–byte hex string with the value of the prefix for this model.

RECOVSTATUS(*cvda***)**
returns a CVDA value indicating the recovery status for this model. CVDA values are:

RECOVERABLE
Queue names matching this model are recoverable.

NOTRECOVABLE
Queue names matching this model are non-recoverable.

REMOTEPREFIX(*data-area***)**
returns the 16–byte character string, or 32–byte hex string to be used as the name prefix on the remote system.

REMOTESYSTEM(*data-area***)**
returns the 4-character name of the remote system on which the queues matching this model is defined.

SECURITYST(*cvda***)**
returns a CVDA value indicating the security status for this model. CVDA values are:

SECURITY
Security checking is performed for queue names matching this model.

NOSECURITY
Security checking will not be performed for queue names matching this model.

TSMODEL(*data-value***)**
specifies the 8-character name of a temporary storage model about which you are inquiring.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

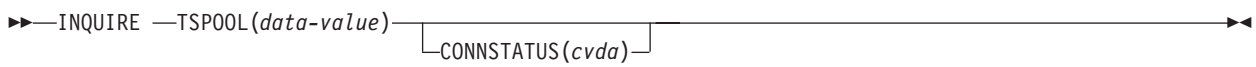
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The TSMODEL does not exist.

INQUIRE TSPOOL

Retrieve information about a shared temporary storage pool.

INQUIRE TSPOOL



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TSPOOL command returns information about a particular shared temporary storage pool.

Browsing

You can also browse through all of the temporary storage pools in your system by using the browse options (START, NEXT, and END) on INQUIRE TSPOOL commands.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

TSPOOL(*data-value***)**
returns an 8-character field giving the shared TS pool name.

CONNSTATUS(*cvda***)**
returns a CVDA value containing the connection status of this pool. CVDA values are:

CONNECTED
This pool is connected.

UNCONNECTED
This pool is not connected.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

NOTFND

RESP2 values:

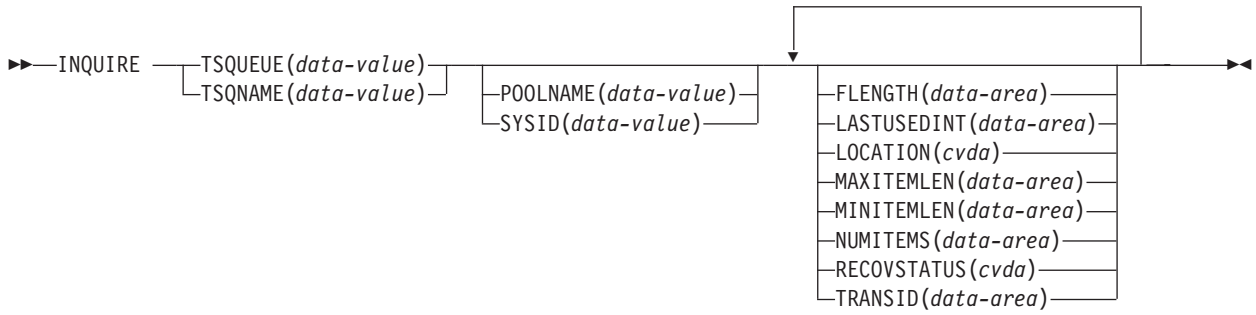
1 The TSPOOL does not exist.

INQUIRE TSQUEUE / TSQNAME

Retrieve information about a temporary storage queue.

This section applies also to the alternative command, INQUIRE TSQNAME Use either to Inquire about names up to 8 characters long, use INQUIRE TSQNAME to Inquire about names up to 16 characters long.

INQUIRE TSQUEUE



Conditions: END, ILLOGIC, INVREQ, NOTAUTH, POOLERR, QIDERR, SYSIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE TSQUEUE command returns information about a particular temporary storage queue.

Browsing

You can also browse through all of the temporary storage queues in your system by using the browse options (START, AT, NEXT, and END) on INQUIRE TSQUEUE commands. In browse mode, the definitions are returned in alphabetic order, and you can specify a starting point with the AT option if you wish. If you want to see all the queues with names beginning with a certain string of letters, for example, you can start your browse with an AT value of those letters, padded on the right to eight characters with nulls (X00). If you want to browse TS queues that are in a shared temporary storage pool managed by a TS server, you must specify the POOLNAME or the SYSID option on the browse START request only. If CICS cannot find the specified SYSID in any temporary storage table (TST) TYPE=SHARED entry, CICS returns the INVREQ condition.

Note: If you do a WRITEQ, for example, to queue, which maps to a shared TS pool because of a TST definition, be aware that to inquire on this queue you need to specify the explicit SYSID on the INQUIRE command.

In a browse, CICS returns all queues, and you may see queues created by CICS for internal use as well as those created by user applications. In particular, queues with names that start with these characters are CICS queues: ‘**’, ‘$$’, XFA through XFF, ‘CEBR’ and ‘DF’.

See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Options

FLENGTH(*data-area***)**
returns a fullword binary field giving the total length in bytes of all the items in the temporary storage queue. For more information about queue lengths, see the MAXITEMLEN option.

For shared queues only: When the whole shared queue has been stored in a single entry in the coupling facility (in which case the returned value for FLENGTH is less than 32K (32768)), this is the total size of all items including their control information.

When the shared queue has been stored as a separate list in the coupling facility, the total size is estimated as MAXITEMLEN times NUMITEMS.

LASTUSEDINT(*data-area***)**
returns a fullword binary field specifying the interval in seconds since the temporary storage queue was last referenced.

The value returned for ‘large’ shared temporary storage queues is governed by the value of the LASTUSEDINTERVAL parameter specified for the associated TS queue manager (see the *CICS System Definition Guide* for further information).

LOCATION(*cvda***)**
returns a CVDA value indicating where the temporary storage queue resides. CVDA values are:

AUXILIARY
The temporary storage queue is held in the CICS temporary storage VSAM data set (or in the coupling facility).

MAIN The temporary storage queue is held in main storage.

MAXITEMLEN(*data-area***)**
returns a halfword binary field giving the length in bytes of the largest item in the temporary storage queue.

The length of a queue item is the sum of the length of the user data plus 8 bytes for header information, rounded up. For main storage queues, the length is rounded up to the boundary of the MVS storage subpool used to store it.

For auxiliary temporary storage, the length is rounded to the next highest multiple of either 64 or 128 (depending on the control interval size of the temporary storage data set). (For background information about CI sizes, see the *CICS System Definition Guide*.)

For shared queues, the lengths returned in MINITEMLEN, MAXITEMLEN, and FLENGTH, reflect the data length stored in the coupling facility. This includes any item control information, which consists of a 2-byte length prefix for each item.

For all types of queue the maximum value returned will be capped at 32767
(Hex '7FFF').

MINITEMLEN(*data-area***)**
returns a halfword binary field giving the length in bytes of the smallest item in the temporary storage queue. For information about how CICS calculates the length of items, and for information about shared TS queues, see the MAXITEMLEN option.

NUMITEMS(*data-area***)**
returns a halfword binary field giving the number of items in the temporary storage queue.

POOLNAME(*data-value***) (TS data sharing only)**
specifies the name of a temporary storage pool. CICS ships the command to the temporary storage server that manages the pool.

For browse operations, specify POOLNAME on the browse START request only, not on the NEXT or END requests.

RECOVSTATUS(*cvda***)**
returns a CVDA value indicating the recovery status of the queue. CVDA values are:

RECOVERABLE
The queue is recoverable.

NOTRECOVERABLE
The queue is not recoverable.

SYSID(*data-value***) (TS data sharing only)**
specifies the system name that corresponds to a temporary storage pool name. If CICS finds the specified system name in a TST TYPE=SHARED entry, it ships the command to the temporary storage server that manages the pool.

For browse operations, specify SYSID on the browse START request only, not on the NEXT or END requests.

TRANSID(*data-value***)**
specifies the identifier of the transaction which created the temporary storage queue.

TSQUEUE(*data-value***)**
specifies the 8-character name of the temporary storage queue about which you are inquiring.

TSQNAME(*data-value***)**
is an alternative to TSQUEUE and specifies the 16-character name of the temporary storage queue about which you are inquiring.

Conditions

END
RESP2 values:
2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

INVREQ
RESP2 values:
1 The specified SYSID does not exist in any TYPE=SHARED entry in the temporary storage table.
2 When INQUIRE TSQUEUE NEXT is specified, the NEXT queue to be browsed has a queue name of more than 8 significant characters. The queue name is truncated, some significant characters are lost.
4 This temporary storage queue name cannot be deleted as it was written by CICS using the PUTQ macro.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

POOLERR
RESP2 values:
3 The POOLNAME does not exist.

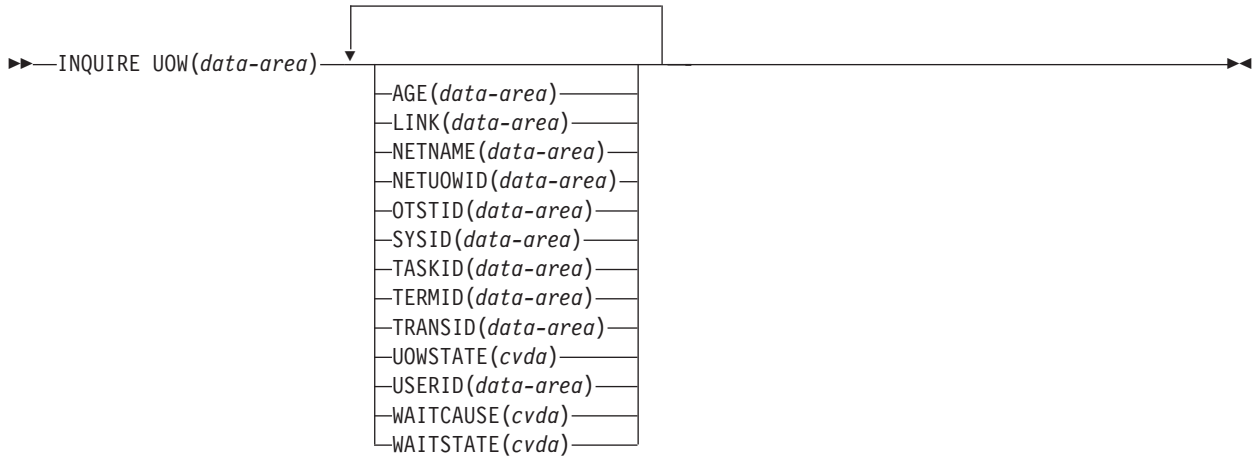
QIDERR
RESP2 values:
1 The temporary storage queue cannot be found.

SYSIDERR
RESP2 values:
3 The SYSID does not map to a shared pool.
4 Server error.
5 I/O error on coupling facility.

INQUIRE UOW

Retrieve information about a unit of work (UOW).

INQUIRE UOW



Conditions: END, ILLOGIC, NOTAUTH, UOWNOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE UOW command retrieves information about a unit of work, or about all UOWs in a specified state. It returns the state of the UOW (for example, INDOUBT) and whether it is active, waiting, or shunted. In some cases, it returns the name of the resource that caused the UOW to be shunted, plus the transaction, user, and terminal that started it.

Important: In an intercommunication environment, a unit of work can include actions that are to be taken by two or more connected systems. Such a unit of work is known as a *distributed* unit of work, because the resources to be updated are distributed across more than one system. A distributed unit of work is made up of two or more *local* units of work, each of which represents the work to be done on one of the participating systems.

Note that INQUIRE UOW always returns information about *local* UOWs—that is, for a distributed UOW it returns information only about the work required on the system on which the command is issued. You can assemble information about a distributed UOW by matching the network-wide UOW identifier returned in the NETUOWID field against the network-wide identifiers of local UOWs on other systems.

For further information about local and distributed UOWs, see the *CICS Intercommunication Guide*.

Browsing

You can also browse through all of the UOWs currently in your system by using the browse options (START, NEXT, and END) on INQUIRE UOW commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

For example, if you suspect a problem with either a recoverable data set or a connection, you can use INQUIRE UOW to return information about UOWs that have been shunted because of a connection or data set failure.

Note: Do not issue SYNCPOINT commands during an INQUIRE UOW browse. The following sequence of commands causes an infinite loop:

```
EXEC CICS INQUIRE UOW START
 EXEC CICS INQUIRE UOW(data-area) NEXT
SYNCPOINT
EXEC CICS INQUIRE UOW(data-area) NEXT
SYNCPOINT
:
EXEC CICS INQUIRE UOW END
```

This is because every time the SYNCPOINT command is executed, a new UOW is created. The new UOW is returned in the next INQUIRE UOW, which is followed by a SYNCPOINT, and so on.

For examples of the use of the INQUIRE UOW command, see the *CICS Problem Determination Guide*.

Options

AGE(*data-area***)**
returns a fullword binary value giving the number of seconds since the UOW entered its current WAITSTATE.

LINK(*data-area***)**
returns an 8-character value that, for a WAITCAUSE value of CONNECTION, is the netname of the remote system that caused the UOW to wait or be shunted. For other WAITCAUSE values (including OTSCOORD), LINK returns blanks.

NETNAME(*data-area***)**
returns the 8-character network name of the terminal from which the UOW was started. If the UOW was started from an ISC or MRO session, NETNAME returns the network name of the remote region. If the UOW was not started from a terminal, nor from an ISC or MRO session, NETNAME returns blanks. For OTS transactions, NETNAME returns blanks.

NETUOWID(*data-area***)**
returns the LU6.2 name for the UOW within this network—that is, the network-wide identifier of the UOW. This is a 27-character data-area.

You can assemble information about a distributed UOW by matching the network-wide UOW identifier against the network-wide identifiers of local UOWs on other systems.

OTSTID(*data-area***)**
returns the first 128 bytes of the transaction identifier (TID) of the OTS transaction which the UOW is a part. If the OTS name has fewer than 128 bytes, it is padded on the right with binary zeros.

SYSID(*data-area***)**
returns a 4-character value that, for a WAITCAUSE value of CONNECTION, is the sysid of the connection that caused the UOW to wait or be shunted. If the connection has been discarded, and for other WAITCAUSE values (including OTSCOORD), SYSID returns blanks.

TASKID(*data-area***)**
returns a 4-byte packed-decimal value giving the task number originally associated with this UOW. If the UOW is shunted, the task terminates. In this case, the number may have been reused by another task.

TERMID(*data-area***)**
returns the 4-character ID of the terminal or session from which this UOW was started. This is the principal facility for the task. If the transaction is the mirror transaction, CSMI, it is the session. For UOWs that are part of an OTS transaction, TERMID is the session used by the request that attached the task.

TRANSID(*data-area***)**
returns the 4-character ID of the transaction that started this UOW.

UOW(*data-area***)**
specifies the 16-byte local identifier of the UOW about which you are inquiring, the last eight bytes of which are always null (X00).

UOWSTATE(*cvda***)**
returns a CVDA value indicating the state of the UOW. CVDA values are:

BACKOUT
This UOW is being backed out, or has failed to back out one or more of the recoverable resources involved in the UOW.

COMMIT
A decision to commit the UOW has been made, but the UOW is waiting or has been shunted. This may be because the decision has not yet been communicated to all participants in the syncpoint, or because a failure has occurred during commit processing.

FORCE
An attempt is being made to force the UOW to back out or commit, as specified on the ACTION option of the TRANSACTION resource definition.

HEURBACKOUT
The UOW has been forcibly backed out. A forced decision is taken when a UOW is unable to wait for in-doubt resolution—for example, the transaction may have been defined as WAIT(NO), or backed out with a CEMT SET UOW command.

HEURCOMMIT
The UOW has been forcibly committed.

INDOUBT
This UOW is in the in-doubt state.

INFLIGHT
The UOW is running normally.

USERID(*data-area***)**
returns the 8-character user ID for which this transaction was running.

WAITCAUSE(*cvda***)**
returns a CVDA value identifying the type of resource that caused the UOW to wait or be shunted.

Note: In the case of a wait, it is the UOW that is waiting, not the task.

Because each resource needs fields of the right type, WAITCAUSE also indicates which fields contain the RESOURCE NAME and QUALIFIER. CVDA values are:

CONNECTION
This UOW is waiting or has been shunted because of the failure of a session to the coordinator of the UOW during the in-doubt period. NETNAME and SYSID contain the netname and system name of the failed link.

DATASET
This UOW is waiting or has been shunted because of a failure associated with one or more data sets. Use the INQUIRE UOWDSNFAIL command to identify the data sets involved and the reasons why they have caused the UOW to fail.

OTSCOORD
This UOW is waiting or has been shunted because of the failure of a session to the OTS coordinator. If OTSCOORD is returned, the AGE, HOST, NETUOWID, OTSTID, TASKID, TRANSID, UOWSTATE, USERID, and WAITSTATE attributes are meaningful.

RLSSERVER
This UOW is waiting or has been shunted because of the failure of an RLS server.

WAITRRMS
This UOW is waiting or has been shunted because communication has been lost with RRS/MVS.

WAITCOMMIT
This UOW is waiting or has been shunted because a failure occurred during commit processing.

WAITFORGET
This UOW is waiting for FORGET from participants in the syncpoint. Use the INQUIRE UOWLINK command to obtain the netnames and sysids of the participants.

WAITRMI
This UOW is waiting for FORGET from the RMI. Use the INQUIRE UOWLINK command to obtain the entry name and qualifier of the task-related user exit.

WAITSTATE(*cvda***)**
returns a CVDA value indicating whether the UOW is currently running or waiting. CVDA values are:

ACTIVE
The UOW is running normally.

SHUNTED
Syncpoint processing of the UOW has been deferred. A reason for this is returned in WAITCAUSE. SHUNTED further indicates that the task, terminal and program storage have been released, and locks have been retained.

WAITING
Syncpoint processing has completed on this system, but not on all systems involved in the distributed UOW. WAITCAUSE returns either

WAITFORGET or WAITRMI, and UOWSTATE returns either BACKOUT or COMMIT to indicate how the UOW was resolved on this system.

Conditions

END

RESP2 values:

2 All authorized resource definitions have been retrieved. All data areas specified on this command are left unchanged.

ILLOGIC

RESP2 values:

1 A browse of this resource type is already in progress, or an INQUIRE UOW START command has not been issued.

NOTAUTH

RESP2 values:

100 The use of this command is not authorized.

UOWNOTFOUND

RESP2 values:

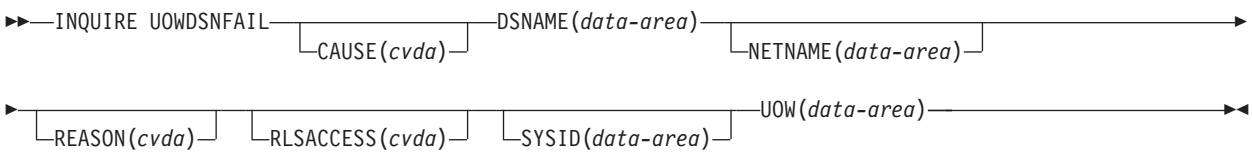
1 The named UOW cannot be found.

INQUIRE UOWDSNFAIL

Retrieve information about UOWs that have updated CICS file control-managed data sets.

Browse only function
The INQUIRE UOWDSNFAIL command can be used only in browse mode.

INQUIRE UOWDSNFAIL



Conditions: END, ILLOGIC, NOTAUTH

Description

This command enables you to inquire on the reasons why UOWs were shunted because of a failure during syncpoint associated with a specified data set. Failures during syncpoint processing result in locks held by the UOW against the data set (or data sets) which suffered the failure being retained. Thus, when a failure is reported by this command, it also indicates the presence of retained locks.

The UOWDSNFAIL command returns UOWs that are shunted and also UOWs that are in the process of being retried. In the latter case, the only data sets returned are those that have not yet been processed as part of the retry.

Note that there may be failures against the data set by other CICS regions. The command needs to be issued on all regions in the sysplex to get a full picture of the state of the data set. See the *CICS Recovery and Restart Guide* for information about the CICS batch-enabling sample programs that assist you in doing this, and about the AMS SHCDS LIST subcommands that allow you to investigate retained locks held by CICS regions that are down.

Browsing

You can use the browse options (START, NEXT, and END) to find all the units of work with syncpoint failures, together with the data sets that have suffered failures. In addition, the reason is given for each unique UOW/data set combination (a UOW can have syncpoint failures for several data sets but, for each data set within the UOW, the cause of the failure is the same). See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

Because this command returns information about UOWs that are currently failed with respect to data sets (with associated retained locks held against those data sets), it does not return information about failures that are in the process of being retried when the command is issued. For example, if a UOW suffered a backout failure with respect to a particular data set, and a SET DSNAME RETRY command

was issued for that data set, that particular UOW/data set combination would not appear in the browse. The backout retry might either be successful, in which case the failure condition will have been cleared, or it might fail again, in which case the UOW/data set combination would appear if a new INQUIRE UOWDSNFAIL browse were started.

One important use of this command is to enable you to write a transaction that helps operators to identify and remove retained locks, so that data sets can be quiesced and used for batch application programs. There are several CICS-supplied sample programs that you can use unmodified, or use as a basis for writing your own programs. See the sample application programs, DFH0BAT1 through DFH0BAT8, for a working illustration of the use of this command. These are supplied in the CICSTS31.CICS.SDFHSAMP library, and are described in the *CICS Operations and Utilities Guide*.

The INQUIRE UOWDSNFAIL function is in effect a two dimensional, or nested, browse: the first (outer) browse loops through all the UOWs, and within each UOW, the second (inner) browse loops though all the failed datasets associated with that UOW. Note that, in common with all browse functions, CICS does not lock resources during a browse operation. For each failed UOW, CICS obtains a snapshot of all the data sets that are failed for the UOW, and returns one UOW/data set pair for each NEXT operation. It is theoretically possible that the status of some data sets associated with an INQUIRE UOWDSNFAIL NEXT command could have changed by the time the information is returned to your program.

Options

CAUSE(*cvda***)**
returns a CVDA value indicating which failed component has caused the UOW to have retained locks for this data set. CVDA values are:

CACHE
A VSAM RLS cache structure, or connection to it, has failed.

CONNECTION
An intersystem connection error has caused the UOW to fail while in-doubt. The name of the system to which connectivity was lost is returned on the SYSID parameter and its netname is returned on the NETNAME parameter. CICS returns additional information in the REASON parameter about the connection failure.

DATASET
The backout of a UOW has failed for this data set. The reason for the data set failure is returned in the REASON parameter.

RLSSERVER
The SMSVSAM server has failed. The reason for the data set failure is returned in the REASON parameter.

UNDEFINED
The UOW is probably being retried. This can occur following a SET DSN RETRY command, or automatically when the failed resource returns. It can also occur following an emergency restart.

DSNAME(*data-area***)**
returns, as a 44-character value, the data set name of a data set that has suffered a backout failure in this UOW.

NETNAME(*data-area***)**
returns the 8-character netname (when the CVDA on the CAUSE parameter is CONNECTION) of the remote system to which connectivity has been lost.

REASON(*cvda***)**
returns a CVDA value (when the CVDA returned on the CAUSE parameter is RLSSERVER, CONNECTION, or DATASET) indicating the specific reason for the error against this data set. CVDA values are:

BACKUPNONBWO
Backout of the updates made to the data set by the UOW failed because a non-BWO backup of the data set was in progress while the UOW was being backed out. When the backup completes, CICS automatically retries the UOW.

COMMITFAIL
An error occurred at some point when RLS locks were in the process of being released. This is an error that can normally be resolved by recycling the SMSVSAM server (which should happen automatically). The locks were acquired as a result of recoverable requests having been issued against the data set.

DATASETFULL
No space is available on the direct access device for adding records to a data set. You need to reallocate the data set with more space. You can then retry the backout using SET DSNAME RETRY. For further information, see the section on moving data sets in the *CICS Recovery and Restart Guide*.

DEADLOCK (non-RLS data sets only)
A deadlock was detected during backout. This is a transient condition that will probably go away if the backout is retried.

DELEXITERROR
Backout of a write to an ESDS failed because a logical delete global user exit program was not enabled, or a logical delete global user exit program decided not to execute the logical delete.

FAILEDBKOUT
This occurs as a result of a severe error being identified during backout, and is possibly an error in either CICS or VSAM. The problem may go away if the backout is retried. Note that CICS performs some first-failure data capture (FFDC) at the point where the error is first detected.

INDEXRECFULL
A larger alternate index record size needs to be defined for the data set. For further information, see the section on moving data sets in the *CICS Recovery and Restart Guide*.

This error can also occur when a unique alternate index key, for a non-RLS data set, has been reused and CICS is now backing out the request which had removed that key value.

INDOUBT
The unit of work had issued recoverable requests against the data set, and has now failed in-doubt. The connection to the coordinating system needs to be reestablished.

IOERROR
A hard I/O error occurred during backout. To correct this error, restore a

full backup copy of the data set and perform forward recovery. If you use CICSVR as your forward recovery utility, the backout is automatically retried for an RLS data set. For a non-RLS data set, use the SET DSNAME (...) RETRY command to drive the backout retry.

LCKSTRUCFULL
An attempt to acquire a lock during backout of an update to this data set failed because the RLS lock structure was full. You must allocate a larger lock structure in an available coupling facility and rebuild the existing lock structure into it, then use the SET DSNAME (...) RETRY command to drive the backout retry.

NOTAPPLIC
The CVDA for CAUSE is not CONNECTION, RLSSERVER, or DATASET.

OPENERROR
Error on opening the file for backout. A console message notifies you of the reason for the open error. One likely reason could be that the data set was quiesced.

RLSGONE
An error occurred when backing out the UOW, because the SMSVSAM RLS server was inactive. This may also be the reason why the UOW went into backout originally. This is an error that can be resolved by recycling the server (which should happen automatically). Generally, when the server recovers, the UOWs are retried automatically. In very exceptional circumstances, it may be necessary to issue a SET DSNAME(...) RETRY command to retry UOWs that were not retried when the server returned.

RRCOMMITFAIL
An error occurred while RLS locks for the unit of work were being released. For this data set, the locks being released were all repeatable read locks, so if the failure was due to the RLS server being unavailable, the locks will have been released. If the failure was due to some other error from the SMSVSAM server, the locks may still be held.

RRINDOUBT
The unit of work had issued repeatable read requests against the data set, and has now failed with an in-doubt condition. The locks will have been released, so this failure does not prevent you from running a batch job against the data set. However, if you want to open the data set in non-RLS mode from CICS, you need to resolve the in-doubt failure before you can define the file as having RLSACCESS(NO). If the unit of work has updated any other data sets, or any other resources, you should try to resolve the in-doubt failure correctly. If the unit of work has only performed repeatable reads against VSAM data sets and has made no updates to other resources, it is safe to force the unit of work using the SET DSNAME or SET UOW commands.

Each REASON (except for NOTAPPLIC) corresponds with only one CAUSE value. The mappings are as follows:

Cause	Reason
CACHE	NOTAPPLIC
CONNECTION	INDOUBT
CONNECTION	RRINDOUBT

Cause	Reason
DATASET	BACKUPNONBWO
DATASET	DELEXITERROR
DATASET	DATASETFULL
DATASET	DEADLOCK
DATASET	FAILEDBKOUT
DATASET	INDEXRECFULL
DATASET	LCKSTRUCFULL
DATASET	IOERROR
DATASET	OPENERROR
RLSSERVER	COMMITFAIL
RLSSERVER	RRCOMMITFAIL
RLSSERVER	RLSGONE
UNDEFINED	NOTAPPLIC

RLSACCESS(*cvda***)**
returns a CVDA value indicating whether the data set was last opened in this CICS region in RLS or non-RLS mode. CVDA values are:

NOTRLS
The last open in this CICS region was in non-RLS mode.

RLS The last open in this CICS region was in RLS mode.

SYSID(*data-area***)**
returns the 4-character sysid (when the CVDA on the CAUSE parameter is CONNECTION) of the remote system to which connectivity has been lost.

UOW(*data-area***)**
returns the 16-byte UOW identifier of a shunted unit of work that has one or more data sets with retained locks. The last eight bytes are always null (X00).

Conditions

END
RESP2 values:
2 There are no more UOW/data set pairs.

ILLOGIC
RESP2 values:
1 A START has been given when a browse is already in progress, or a NEXT has been given without a preceding START.

NOTAUTH
RESP2 values:
100 The use of this command is not authorized.

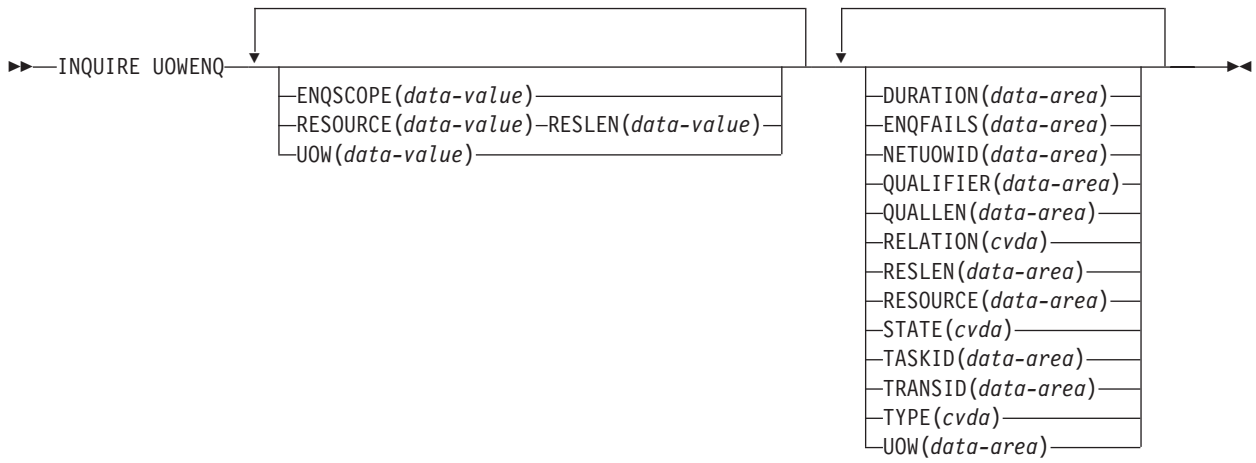
INQUIRE UOWENQ

Retrieve information about enqueues held or waited on by a UOW, or about UOWs holding or waiting on a specified enqueue.

INQUIRE ENQ is a synonym for INQUIRE UOWENQ.

Browse only function
The INQUIRE UOWENQ command can be used only in browse mode.

INQUIRE UOWENQ



Conditions: END, ILLOGIC, NOTAUTH, UOWNOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE UOWENQ command retrieves information about enqueues. Enqueues are used by CICS to lock recoverable resources, such as file records or queues, to the UOW that is updating them. User enqueues obtained by the EXEC CICS ENQ command are also returned.

The browse can be filtered in three ways:

- Supply a value for UOW on the START command to return only the enqueues held or waited on by the specified UOW.
- Supply a value for RESOURCE on the START command to return only information about UOWs owning or waiting on the specified enqueue.
- Supply a value for ENQSCOPE on the START command to return only enqueues with the specified enqscope. If ENQSCOPE is specified as blanks, only local enqueues are returned.

A CICS-wide browse occurs when you do not supply a value for UOW, RESOURCE or ENQSCOPE on the INQUIRE UOWENQ START command. All enqueue owners and enqueue waiters on the local system are returned by the browse. They are

returned by considering each UOW in turn. After all the enqueues owned by one UOW have been returned, those owned by the next UOW in the system are considered.

As well as returning information about the owners of the enqueues, the command also returns information about UOWs that are waiting on these enqueues. This enables you to diagnose enqueue deadlocks between tasks wanting to update the same resources. It provides a performance improvement over other methods of answering the question “Which UOW is holding the Enqueue?” when you want to analyse what the cause of a delay is.

Enqueues are typically held in active state, which means that other tasks are allowed to wait for the enqueue. However, if a UOW that owns enqueues suffers an in-doubt failure, user ENQs are released while CICS enqueues are usually converted to the retained state until the in-doubt failure can be resolved. User ENQs are not to be used to lock recoverable resources, as they are not held across a CICS failure. The INQUIRE UOWENQ command also retrieves information about retained enqueues and can be used to identify which records and queues would be affected if the UOW were forced.

INQUIRE UOWENQ only returns information about UOWs on the local system. For Enqueues with SYSPLEX SCOPE the OWNER may be on the local system with some or all of the waiters elsewhere, or the enqueue OWNER may be elsewhere in the sysplex with some or all of the waiters on the local system; In this case, only the local waiters are returned.

Browsing

Using the browse options (START, NEXT, and END) on INQUIRE UOWENQ commands, you can browse through all of the enqueues held by a specific UOW, or through all the enqueues currently in your system. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

The browse returns both enqueue owners and enqueue waiters. They are returned by considering each UOW that owns an enqueue in turn. After all the enqueues owned by one UOW have been returned, those owned by the next UOW in the system are considered. Enqueue waiters are returned subsequent to the enqueue they are waiting on, but prior to the next enqueue owned by the current UOW. Note that the INQUIRE UOWENQ START does not retrieve data for the first enqueue. Also, because the enqueues are not returned in a defined order, you cannot specify a start point.

A CICS-wide browse occurs when you do not supply a value for UOW on the INQUIRE UOWENQ START command. All enqueue owners and waiters are returned by the browse. The first time an INQUIRE UOWENQ NEXT command is used, it returns the data for the first enqueue that is owned. This is returned with RELATION(OWNER). If the enqueue has any waiters, the same enqueue is returned for each of these waiters, but this time with RELATION(WAITER). The UOW, NETUOWID, TASKID, and TRANSID fields each correspond to that particular waiter. All other data should be the same as when it was returned with RELATION(OWNER). After the last waiter has been returned, the next time the command is issued it returns the next enqueue that is owned (if any).

If you supply a value for UOW on the START command, it acts as a “filter”, which means that only those enqueues owned by that particular UOW are returned (with a

RELATION of OWNER). If the UOW happens to be waiting for an enqueue then this too is returned (but with a RELATION of WAITER).

Note that the enqueue state is not locked for the duration of the browse, or even between consecutive INQUIRE NEXT commands. To receive a consistent view of the state, the task performing the browse should not give up control to another task while the browse is in progress. If the owner of the last enqueue returned by the browse changes between successive INQUIRE NEXT commands, the browse returns the enqueue again with its new owner and waiters.

Notes:

1. If there are many enqueues in the system, CICS may take a long time to process a browse. If this happens, consider increasing the runaway interval of tasks that perform browses. (Do this by increasing the value of the RUNAWAY attribute on the associated TRANSACTION definition).
2. Both UOW-lifetime and task-lifetime enqueues are returned by INQUIRE UOWENQ. (For an explanation of UOW- and task-lifetime enqueues, see the MAXLIFETIME option of the EXEC CICS ENQ command.)
3. On an in-doubt failure, user enqueues are released, *unless* the EXEC CICS ENQ command specified MAXLIFETIME(TASK) and it is not the end-of-task syncpoint that suffers the failure.

Options

DURATION(*data-area***)**
returns, as a fullword value binary value, the elapsed time in seconds since the enqueue entered its current state of owner, waiter or retained.

ENQFAILS(*data-area***)**
returns, for retained enqueues, the number of failed enqueue attempts for this resource after the enqueue was last acquired. This indicates how many UOWs have received a LOCKED response because this enqueue was held in retained state. For active enqueues, ENQFAILS returns zero.

Because the ENQFAILS option indicates how many UOWs are failing because of retained locks, you can use it to help identify which shunted UOWs are causing “bottlenecks”.

ENQSCOPE(*data-area***)**
If the enqueue has sysplex scope, ENQSCOPE returns the 4-character name which was used to qualify the sysplex-wide ENQUEUE request issued by this CICS region. If it has region scope, ENQSCOPE returns blanks.

All CICS systems with the same ENQSCOPE value share the same sysplex Enqueue name space.

ENQSCOPE may also be used to supply a value on the START command. This limits the INQUIRE to return only enqueues with the specified scope name. If ENQSCOPE is specified as blanks, only local enqueues are returned.

NETUOWID(*data-area***)**
returns the 1- through 27-character network-wide LU6.2 ID of the UOW that owns or is waiting for the enqueue for which data is being returned.

QUALIFIER(*data-area***)**
returns a 0- through 255-character optional qualifier that further identifies the resource associated with the enqueue. The data (if any) returned in this field depends on the TYPE of the enqueue, as summarized in Table 4 on page 421.

QUALLEN(*data-area***)**
returns a halfword binary value indicating the length of the data, in the range 0 through 255, returned in the QUALIFIER field. If no QUALIFIER data is applicable to the resource (that is, for EXECQENQ, EXECENQADDR, and TSQUEUE), a value of zero is returned.

RELATION(*cvda***)**
returns a CVDA value indicating whether the data being returned is associated with the owner of the enqueue or with a task waiting for the enqueue. CVDA values are:

OWNER
The UOW, NETUOWID, TASKID, and TRANSID are those of the owner of the enqueue.

WAITER
The UOW, NETUOWID, TASKID, and TRANSID are those of a waiter for the enqueue.

RESLEN(*data-area***)**
returns a halfword binary value indicating the length of the data, in the range 1 through 255, returned in the RESOURCE field.

If RESOURCE is used as input on a START command, a RESLEN input is also required.

RESOURCE(*data-area***)**
returns the 1- through 255-character name of the resource associated with the enqueue lock. The data returned in this field depends on the TYPE of the enqueue, as summarized in Table 4 on page 421.

RESOURCE may also be used to supply a value on the START command. This limits the INQUIRE to return only information about UOWs owning or waiting on the specified enqueue.

STATE(*cvda***)**
returns a CVDA value indicating the state that the enqueue being returned is held in. It is returned on the INQUIRE UOWENQ NEXT command. CVDA values are:

ACTIVE
The enqueue is held in active state.

RETAINED
The enqueue is held in retained state. Its owning UOW has been shunted, or is in the process of being shunted.

TASKID(*data-area***)**
returns a 4-byte packed-decimal value giving the number of the task associated with the UOW. If the UOW is shunted, this is the task number associated with the UOW before it was shunted.

TRANSID(*data-area***)**
returns the 1- through 4-character identifier of the transaction associated with the UOW. If the UOW is shunted, it is the identifier of the transaction associated with the UOW before it was shunted.

TYPE(*cvda***)**
returns a CVDA value identifying the type of resource being enqueued upon. CVDA values are:

DATASET
The resource is a record in a VSAM data set opened in non-RLS mode

(or a CICS-maintained data table). RESOURCE contains the name of the data set, and QUALIFIER contains the record identifier. Note that CICS does not hold enqueues on non-RLS data sets opened in RLS mode; in this case VSAM does the locking.

EXECENQ
The resource is associated with an EXEC CICS ENQ request. RESOURCE contains the enqueue argument passed on the request.

EXECENQADDR
The resource is associated with an EXEC CICS ENQ request. RESOURCE contains the address enqueue argument passed on the request (that is, the LENGTH parameter was omitted on the request)

FILE The resource is a record in either a BDAM file or a user-maintained data table. RESOURCE contains the name of the file and QUALIFIER contains the record identifier.

When the file is a BDAM file then the record identifier is prefixed by the BDAM block identifier. Note that truncation occurs if this combination exceeds 255 characters.

TDQUEUE
The resource is a logically-recoverable transient data queue. RESOURCE contains the name of the queue. QUALIFIER contains either the string “FROMQ” or “TOQ”, indicating whether an input or output lock is held for that queue.

Note that the definition of the WAITACTION attribute on the TDQUEUE resource definition determines what happens to TDQUEUE enqueues on an indoubt failure. For information on defining the WAITACTION attribute, see the *CICS Resource Definition Guide*.

A READQ TD request acquires the “FROMQ” lock, whereas a WRITEQ TD request acquires the “TOQ” lock associated with the queue. A DELETEQ TD request acquires both the “TOQ” and the “FROMQ” locks.

TSQUEUE
The resource is a recoverable temporary storage queue. RESOURCE contains the name of the queue.

Unlike other components, enqueues associated with recoverable temporary storage queues are only ever the retained kind; owned by a UOW that has been shunted as a result of an in-doubt failure. The temporary storage component uses its own mechanism for locking queues to in-flight UOWs.

The data returned in the RESOURCE and QUALIFIER fields depends on the resource TYPE, as shown in Table 4.

Table 4. Data returned in RESOURCE and QUALIFIER

TYPE	RESOURCE	QUALIFIER
DATASET	Data set name	Record identifier
EXECENQ	EXEC enqueue argument	None
EXECENQADDR	Address of EXEC enqueue argument	None
FILE	File name	Record identifier
TDQUEUE	TD queue name	FROMQ or TOQ

Table 4. Data returned in RESOURCE and QUALIFIER (continued)

TYPE	RESOURCE	QUALIFIER
TSQUEUE	TS queue name	None

UOW(*data-area***)**
returns the 16-byte local identifier of the UOW that owns or is waiting for the enqueue for which data is being returned. The last eight bytes are always null (X00).

The UOW field may also be used to supply a value on the START command. This limits the INQUIRE to return only the enqueues held or waited on by the specified UOW.

Conditions

END
RESP2 values:
2 All enqueues have been retrieved.

ILLOGIC
RESP2 values:
1 For INQUIRE UOWENQ START, means that a browse of this resource type is already in progress. For INQUIRE UOWENQ NEXT and INQUIRE UOWENQ END, means that an INQUIRE UOWENQ START command has not been issued.

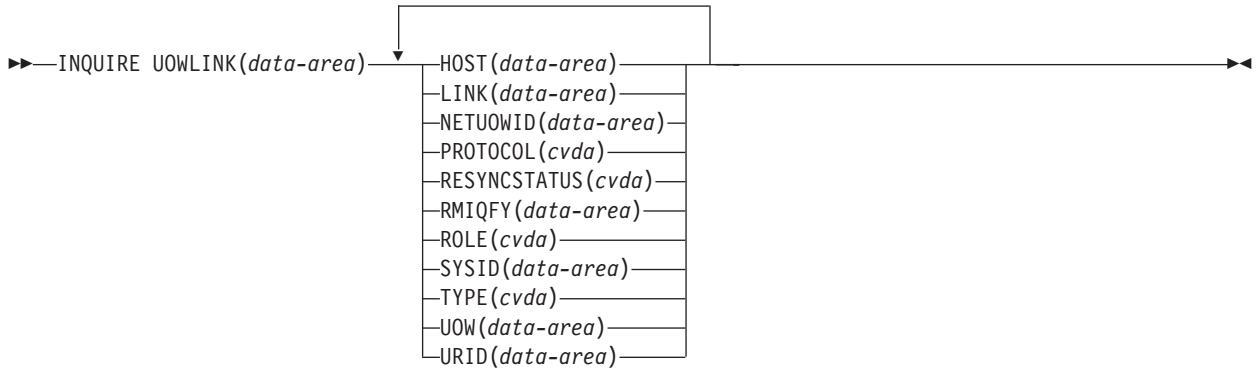
NOTAUTH
RESP2 values:
100 The use of this command is not authorized.

UOWNOTFOUND
RESP2 values:
1 The named UOW cannot be found.

INQUIRE UOWLINK

Retrieve information about a connection involved in a unit of work.

INQUIRE UOWLINK



Conditions: END, ILLOGIC, NOTAUTH, UOWLNOTFOUND, UOWNOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE UOWLINK command retrieves information about a connection involved in a unit of work. The connection can be to a remote system, to a task-related user exit, or to a CFDT server.

If it is to a remote system, INQUIRE UOWLINK returns the netname of the connection, its sysid, and whether it is the coordinator or subordinate. If it is to a task-related user exit, INQUIRE UOWLINK returns the exit’s entry name and qualifier.If it is to a CFDT server, INQUIRE UOWLINK returns the poolname.

Browsing

You can browse through all UOW-links by using the browse options (START, NEXT, and END) on INQUIRE UOWLINK commands. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

The browse form of the command returns the state of all the UOW-links for connections that are *directly* connected to the CICS from which the command is issued. It indicates which connections are unavailable, or have been cold started.

The INQUIRE UOWLINK START command positions an internal pointer at the first UOW-link in the CICS recovery manager table. It does not retrieve data for the first one, and it does not allow you to specify a start point.

The first time an INQUIRE UOWLINK NEXT command is used, it returns information about the first UOW-link. Each time the command is used again, it retrieves the ID and STATE of the next UOW-link (if there is one). You can filter the UOW-links returned by specifying a value in the UOW field.

The browse guarantees that data for each UOW-link that exists prior to the first INQUIRE NEXT, and still exists after the last INQUIRE NEXT, is returned on exactly one INQUIRE NEXT call.

Options

HOST(*data-area***)**
retuns, for a TYPE of IIOP, the TCP/IP hostname, or a string containing the dotted decimal TCP/IP address, used to refer to the participant in the OTS transaction. This is useful for identifying the participant, especially when problems occur. This is a 255–character data-area. Strings of fewer than 255 characters are padded with blanks. Note that the UOW and the participant may belong to the same CorbaServer.

For TYPE values other than IIOP, HOST returns blanks.

LINK(*data-area***)**
returns, for a TYPE value of CONNECTION, the 8-character netname of the remote system. For a TYPE value of RMI, LINK returns the entry name of the task-related user exit. For a TYPE value of CFTABLE, LINK returns the 8–character name of the coupling facility data table pool. For a TYPE value of IIOP, LINK returns blanks; the equivalent information for IIOP UOWLINKs is returned by the HOST attribute.

NETUOWID(*data-area***)**
returns the 1-through 27-character network-wide LU6.2 ID of the UOW for which data is returned.

PROTOCOL(*cvda***)**
returns a CVDA value indicating the communication protocol used by the connection. CVDA values are:

APPC Advanced Program to Program Communication.

IRC InterRegion Communication. This is an MRO connection.

LU61 LUTYPE 6.1.

IIOP OTS.

NOTAPPLIC
This is a connection of type CFTABLE or RMI.

RRMS The UOW is coordinated by RRS/MVS.

RESYNCSTATUS(*cvda***)**
returns a CVDA value indicating the resynchronization status of the connection. CVDA values are:

COLD The connection has been cold started by the partner system. The partner can no longer coordinate any in-doubt conditions for this system; nor can this system pass to the partner any decisions remembered for it.

NOTAPPLIC
The connection was not created using recovery protocols. It could be an RMI, an APPC single-session, an APPC synclevel 1 connection, or a CFDT server.

OK The connection is operating normally. If there has been a failure of the partner system, the partner has been restarted and the connection is able to resynchronize the associated UOW.

STARTING
The connection is being acquired, but the exchange lognames process has not yet completed.

UNAVAILABLE
The connection is not currently acquired.

UNCONNECTED
There is no associated connection.

RMIQFY(*data-area***)**
returns, for a TYPE value of RMI, the 8-character entry qualifier of the task-related user exit. For a TYPE of CONNECTION, CFTABLE or IIOP, RMIQFY returns blanks.

ROLE(*cvda***)**
returns a CVDA value indicating the role of the connection. CVDA values are:

COORDINATOR
This connection is to the syncpoint coordinator for the UOW.

SUBORDINATE
This connection is to a syncpoint subordinate for the UOW.

UNKNOWN
The syncpoint role of this connection cannot be determined.

SYSID(*data area***)**
returns, for a TYPE value of CONNECTION, the 4-character sysid of the connection. If the connection has been discarded, or the type is RMS, CFTABLE or IIOP, or the PROTOCOL option returns RRMS, SYSID returns blanks.

TYPE(*cvda***)**
returns a CVDA value indicating the type of connection. CVDA values are:

CFTABLE
A connection to a CFDT server.

CONNECTION
A connection defined in a CONNECTION resource definition.

OTS An OTS link.

RMI A connection to an external resource manager using the resource manager interface (RMI).

UOW(*data-area***)**
returns the 16-byte local identifier of the UOW for which link data is being returned. The last eight bytes are always null (X00).

UOWLINK(*data-area***)**
specifies a 4-byte token identifying the UOW-link for which data is to be returned.

URID(*data-area***)**
If the PROTOCOL field returns RRMS, this option returns the 32 byte hexadecimal representation of the RRMS unit of recovery identifier. For other values of PROTOCOL (including OTS), URID returns blanks.

Conditions

END
RESP2 values:

2 All authorized resource definitions have been retrieved.

ILLOGIC
RESP2 values:
1 For INQUIRE UOWLINK START, means that a browse of this resource type is already in progress. For INQUIRE UOWLINK NEXT and INQUIRE UOWLINK END, means that an INQUIRE UOWLINK START command has not been issued.

NOTAUTH
RESP2 values:
100 The use of this command is not authorized.

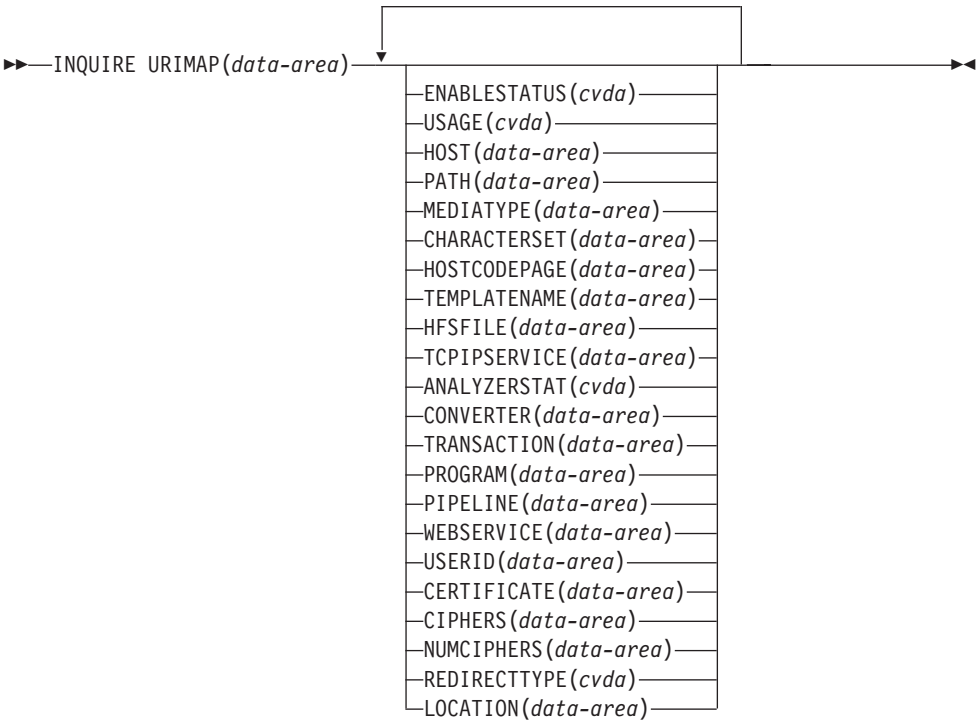
UOWLNOTFOUND
RESP2 values:
1 The named UOW-link cannot be found.

UOWNOTFOUND
RESP2 values:
1 The named UOW cannot be found.

INQUIRE URIMAP

Retrieve information about URIMAP resources in the local system.

INQUIRE URIMAP



Conditions: END, ILLOGIC, NOTAUTH, NOTFND

This command is threadsafe.

Description

The INQUIRE URIMAP command allows you to retrieve information about a particular URIMAP definition. The USAGE attribute of a URIMAP definition determines which other attributes are specified in that URIMAP definition, and sometimes determines the meaning of a particular attribute.

Browsing

You can also browse through all the URIMAP definitions installed in the region, using the browse options (START, NEXT, and END) on INQUIRE URIMAP commands.

Options

URIMAP*(data-value)*
specifies the 8-character name of a URIMAP definition.

ANALYZERSTAT*(cvda)*
returns a CVDA value indicating whether the analyzer program associated with the TCPIPSERVICE definition is to be run. CVDA values are:

ANALYZER
The analyzer program is to be run.

NOANALYZER
The analyzer program is not to be run.

This attribute is for USAGE(SERVER). For all other usage types it is forced to NO.

CERTIFICATE*(data-area)*
returns a 32-character data area containing the label of the certificate that is to be used as the SSL client certificate for the HTTP request by CICS as an HTTP client. This attribute is for USAGE(CLIENT).

CHARACTERSET*(data-area)*
returns a 40-character data area containing the name of the character set to be used for the static response. This attribute is for USAGE(SERVER).

CIPHERS*(data-area)*
returns a 56-character data area containing the list of cipher suites specified for the URIMAP definition. The list of cipher suites is used to negotiate SSL connections. This attribute is for USAGE(CLIENT).

CONVERTER*(data-area)*
returns the 8-character name of a converter program that performs conversion or other processing for CICS as an HTTP server. This attribute is for USAGE(SERVER).

ENABLESTATUS*(cvda)*
returns a CVDA value indicating the status of this URIMAP definition. CVDA values are:

ENABLED
The URIMAP definition is enabled.

DISABLED
The URIMAP definition is disabled. A URIMAP definition with this status can be discarded.

DISABLEDHOST
The URIMAP definition is unavailable because the virtual host of which it is a part has been disabled. The SET HOST command can be used to re-enable all the URIMAP definitions that make up the virtual host. A URIMAP definition with this status cannot be discarded.

HFSFILE*(data-area)*
returns a 255-character data area containing fully qualified (absolute) or relative name of a z/OS UNIX System Services HFS file that forms a static response. This attribute is for USAGE(SERVER).

HOST*(data-area)*
returns a 116-character data area containing the host component of the URI to which the URIMAP definition applies (for example, `www.example.com`). This attribute is for any usage type.

HOSTCODEPAGE*(data-area)*
returns a 10-character data area containing the 1-10 character name of the IBM

code page (EBCDIC) in which the text document that forms the static response is encoded. This attribute is for USAGE(SERVER).

LOCATION*(data-area)*
returns a 255-character area containing a URL to which matching HTTP requests from Web clients are redirected. Redirection is activated by the setting specified by the REDIRECTTYPE option. This attribute is for USAGE(SERVER) or USAGE(PIPELINE).

MEDIATYPE*(data-area)*
returns a 56-character data area containing a description of the data content of the static response. This attribute is for USAGE(SERVER).

NUMCIPHERS*(data-area)*
returns a halfword binary value containing the number of cipher codes in the CIPHERS list. The ciphers are used to negotiate encryption levels as part of the SSL handshake. This attribute is for USAGE(CLIENT).

PATH*(data-area)*
returns a 255-character data area containing the path component of the URL to which the URIMAP definition applies (for example, software/htp/cics/index.html). This attribute is for any usage type.

PIPELINE*(data-area)*
returns the 8-character name of the PIPELINE resource definition for the Web service. The PIPELINE resource definition provides information about the message handlers which act on the service request from the client. This attribute is for USAGE(PIPELINE).

PROGRAM*(data-area)*
returns the 8-character name of the application program that composes an application-generated response to the HTTP request. This attribute is for USAGE(SERVER).

SCHEME*(cvda)*
returns a CVDA value indicating the scheme component of the URI. CVDA values are:

HTTP HTTP without SSL.

HTTPS
HTTP with SSL.

This attribute is for any usage type.

TCPIPSERVICE*(data-area)*
returns the 1- to 8-character name of the TCPIPSERVICE definition that specifies an inbound port to which this URIMAP definition relates. If this is not specified, the URIMAP definition applies to a request on any inbound ports. This attribute is for USAGE(SERVER) or USAGE(PIPELINE).

TEMPLATENAME*(data-area)*
returns a 48-character data area containing the name of a CICS document template that is used to form a static response. This attribute is for USAGE(SERVER).

TRANSACTION*(data-area)*
returns the 4-character name of an alias transaction to run the user application that composes a response to the HTTP request. This attribute is for USAGE(SERVER) or USAGE(PIPELINE).

REDIRECTTYPE*(cvda)*
returns a CVDA value indicating the type of redirection for requests that match this URIMAP definition. The URL for redirection is specified by the LOCATION option. This attribute is for USAGE(SERVER) or USAGE(PIPELINE). CVDA values are:

NONE Requests are not redirected. Any URL specified by the LOCATION option is ignored.

TEMPORARY
Requests are redirected on a temporary basis. The status code used for the response is 302 (Found).

PERMANENT
Requests are redirected permanently. The status code used for the response is 301 (Moved Permanently).

USAGE*(cvda)*
returns a CVDA value indicating the purpose of this URIMAP definition. CVDA values are:

SERVER
A URIMAP definition for CICS as an HTTP server. This type of URIMAP definition is used to map the URL of an incoming HTTP request from a Web client, to CICS resources. An application-generated response or a static response can be provided.

CLIENT
A URIMAP definition for CICS as an HTTP client. This type of URIMAP definition is used when CICS makes a client request for an HTTP resource on a server.

PIPELINE
A URIMAP definition for a Web service. This type of URIMAP definition is used to specify the processing that is to be performed on a request by which a client invokes a Web service in CICS.

USERID*(data-area)*
returns the 8-character user ID under which the alias transaction is attached. This attribute is for USAGE(SERVER) or USAGE(PIPELINE).

WEBSERVICE*(data-area)*
returns the name of a Web service. This can be the 1-8 character name of a WEBSERVICE resource definition, or a name up to 32 characters representing a Web service generated by the CICS Web services assistant. This defines aspects of the run time environment for a CICS application program deployed in a Web services setting. This attribute is for USAGE(PIPELINE).

Conditions

END
RESP2 values are:

2 There are no more resource definitions of this type.

ILLOGIC
RESP2 values are:

1 You have issued a START command when a browse of this resource type is already in progress, or you have issued a NEXT or an END command when a browse of this resource type is not in progress.

NOTAUTH
RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values are:

3 The URIMAP cannot be found.

INQUIRE VOLUME

This command is supported in releases of CICS earlier than CICS Transaction Server for OS/390, for retrieving information about journal volumes.

Description

INQUIRE VOLUME is obsolete, and is retained only for compatibility with previous releases. The only run-time support is to return the VOLIDERR condition. If this command is used, the translator translates it, but issues a warning message.

The browse function is provided for compatibility with releases of CICS earlier than CICS Transaction Server for OS/390. A NORMAL condition is returned for the START browse and END browse operations. The ENDCOND condition is returned for the NEXT browse operation.

Conditions

VOLIDERR

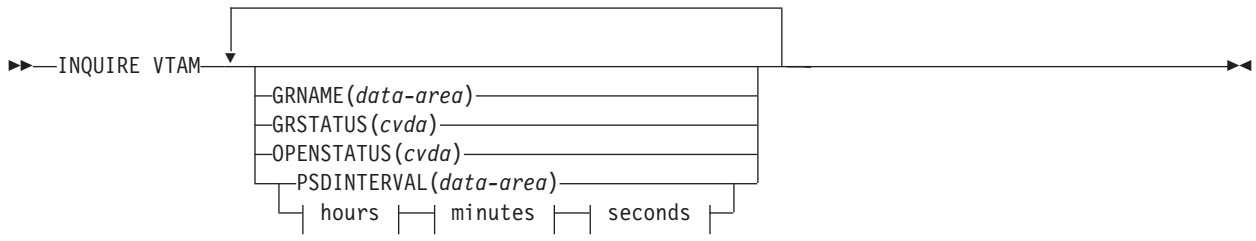
RESP2 values:

1 The program has issued an INQUIRE VOLUME browse command. This command is withdrawn.

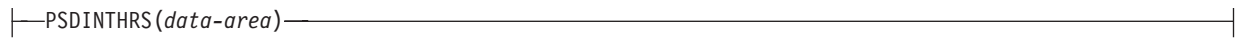
INQUIRE VTAM

Retrieve information about the connection between CICS and VTAM.

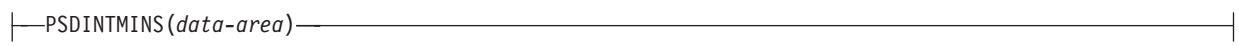
INQUIRE VTAM



hours:



minutes:



seconds:

Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE VTAM command returns information about type and state of the connection between VTAM and your CICS system.

Options

GRNAME(*data-area***)**
returns the 8-character generic resource group name under which this CICS region requests registration to VTAM, if it is using the generic resources facility of VTAM. Blanks are returned if the system was initialized without a request for registration.

GRSTATUS(*cvda***)**
returns a CVDA value indicating the status of generic resource registration. All of the values except NOTAPPLIC indicate that CICS has been initialized to use the generic resource function (that is, that a nonblank GRNAME value was specified). CVDA values are:

DEREGERROR
Deregistration was attempted but was unsuccessful, and there has been no attempt to reregister.

DEREGISTERED
Deregistration was successfully accomplished.

NOTAPPLIC
CICS is not using the generic resource feature; GRNAME is not set or is set to blanks.

REGERROR
Registration was attempted but was unsuccessful, and there has been no attempt to deregister.

REGISTERED
Registration was successful and there has been no attempt to deregister.

UNAVAILABLE
VTAM does not support the generic resource function.

UNREGISTERED
CICS is using the generic resource function but no attempt, as yet, has been made to register.

OPENSTATUS(*cvda***)**
returns a CVDA value indicating the status of the connection between CICS and VTAM. CVDA values are:

CLOSED
The connection between CICS and VTAM has not yet been established or has been terminated.

CLOSEFAILED
The connection is open but is not usable because a previous request to close the connection failed. You should retry the close request.

CLOSING
The connection between CICS and VTAM is in the process of closing.

FORCECLOSING
The connection between CICS and VTAM is in the process of closing following a SET VTAM FORCECLOSE command.

IMMCLOSING
The connection between CICS and VTAM is in the process of closing following a SET VTAM IMMCLOSE command.

OPEN There is a connection between CICS and VTAM.

PSDINTERVAL(*data-area***)**
returns the persistent session delay (PSD) interval, which is the length of time that sessions are held in recovery-pending state after a CICS failure. (See the PSDINT system initialization parameter in the *CICS System Definition Guide* for more information about this option.) There are two formats for the PSD interval:

- A composite (packed decimal format *0hhmmss+*, 4 bytes long), which you obtain by using the PSDINTERVAL option.
- Separate hours, minutes, and seconds, which you obtain by specifying the PSDINTHRS, PSDINTMINS, and PSDINTSECS options.

(A value of zero means that sessions are not held after a failure, and may indicate that the VTAM in use is not at the level that supports persistent sessions.)

PSDINTHRS(*data-area***)**
returns the hours component of the PSD interval, in fullword binary form (see the PSDINTERVAL option).

PSDINTMINS(*data-area***)**
returns the minutes component of the PSD interval, in fullword binary form (see the PSDINTERVAL option).

PSDINTSECS(*data-area***)**
returns the seconds component of the PSD interval, in fullword binary form (see the PSDINTERVAL option).

Conditions

INVREQ
RESP2 values:
1 VTAM is not present in the system.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

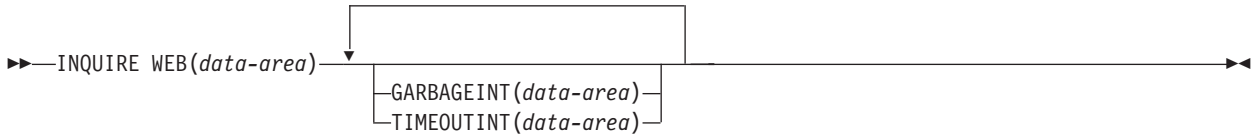
INQUIRE WEB

Retrieve information about CICS Web support.

Context

INQUIRE WEB returns information about the state of CICS Web support.

INQUIRE WEB



Conditions: NOTAUTH

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE WEB command returns information about the status of the CICS Web interface.

Options

GARBAGEINT(*data-area***)**
returns, in fullword binary form, the interval, in minutes , at which the Web garbage collection task runs to clean up Web 3270 state data for which the terminal timeout interval has expired.

TIMEOUTINT(*data-area***)**
returns, in fullword binary form, the period of time, in minutes , after which inactive Web 3270 sessions are eligible for garbage collection.

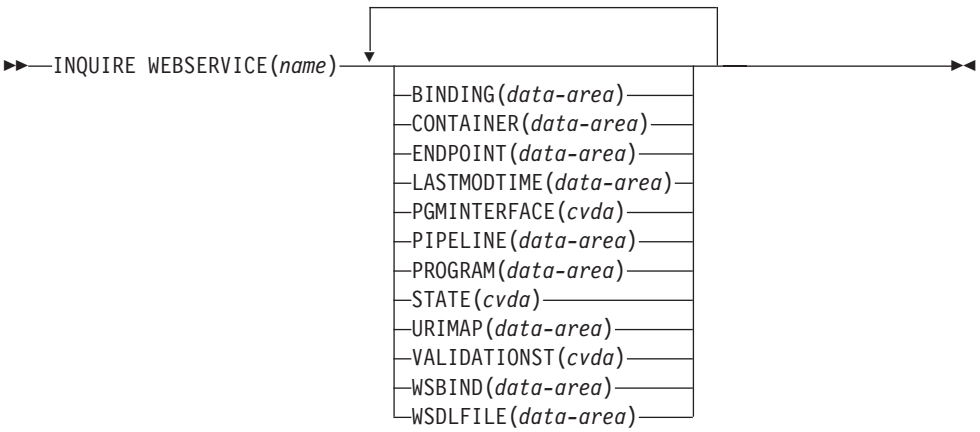
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

INQUIRE WEBSERVICE

Use the INQUIRE WEBSERVICE command to retrieve information about an installed WEBSERVICE.

INQUIRE WEBSERVICE



Conditions: NOTAUTH, NOTFND

Description

Use the INQUIRE WEBSERVICE command to retrieve information about an installed WEBSERVICE.

Browsing

You can browse through all the WEBSERVICEs installed in your system by using the browse options (START, NEXT, and END) on INQUIRE WEBSERVICE commands. See Browsing resource definitions for general information about browsing, including syntax, exception conditions, and examples.

Options

BINDING(*data-area*)
Returns the WSDL binding represented by the WEBSERVICE. This binding is one of (potentially) many that appear in the WSDL file. The name can be up to 255 characters long.

CONTAINER(*data-area*)
Returns the name of the container used if PGMINTERFACE returns a value of CHANNEL. The name can be up to 16 characters long.

ENDPOINT(*data-area*)
Returns the endpoint URI of a remote WEBSERVICE. This is the endpoint URI specified in the WSDL file for a remote Web service. If a CICS application program is the service provider, then the ENDPOINT will be empty. The URI can be up to 255 characters long.

LASTMODTIME(*data-area*)

Returns the time, in milliseconds since 00:00 on January 1st 1900, that the deployed WSBind file on HFS was last updated. This is a readonly value that CICS updates when the WEBSERVICE resource is installed or updated. The last-modified-time can be used to determine whether CICS has refreshed itself after an update is made to a WSBind file in the pickup directory.

- For dynamically-installed WEBSERVICEs (those installed by the CICS scanning mechanism), the value of LASTMODTIME is the timestamp of the HFS file pointed to by the WSBind definition, at the time the WEBSERVICE definition was last installed or updated.
- For statically-installed WEBSERVICEs (those installed from a CSD or by CREATE WEBSERVICE), the value of LASTMODTIME is the timestamp of the WSBind HFS file pointed to by the WEBSERVICE definition, at the time the WEBSERVICE was installed.

If you issue an INQUIRE WEBSERVICE command before a newly-installed or updated WEBSERVICE has fully initialized, the returned LASTMODTIME value will be zero.

The value is returned in 8-byte packed-decimal form. You can use the EXEC CICS FORMATTIME command to convert the LASTMODTIME value to the date-and-time format that you prefer.

PGMINTERFACE(*cvda*)
Returns a CVDA indicating whether the CICS program that implements the Web service expects input in a channel or in a commarea:

CHANNEL
The program expects input in a channel.

COMMAREA
The program expects input in a commarea

PIPELINE(*data-area*)
Returns the name of the PIPELINE in which the WEBSERVICE is installed; that is, the name of the PIPELINE resource that contains this WEBSERVICE resource. The name can be up to 8 characters long.

PROGRAM(*data-area*)
Returns the name of a CICS program that implements the Web service. If this WEBSERVICE represents a remote Web service (that is, CICS is not the service provider), PROGRAM will be empty. The name can be up to 8 characters long.

STATE(*cvda*)
Returns a CVDA indicating the state of the WEBSERVICE:

DISCARDING
A DISCARD command has been issued for the WEBSERVICE. The WEBSERVICE is quiescing before being discarded. It is not accepting new work, but is allowing currently-executing work to complete.

INITING
The Web service binding file, and the WSDL file, are being copied to the shelf.

INSERVICE
Resolution of the copy of the WSBIND file on the shelf has succeeded, and the WEBSERVICE is usable.

UNUSABLE
Copying of the WSBIND file on the shelf has failed, and the WEBSERVICE is unusable.

URIMAP(*data-area*)
Returns the name of a dynamically installed URIMAP if there is one that is associated with this WEBSERVICE. If the WEBSERVICE was not installed by performing the SCAN function on a PIPELINE resource, or if the WEBSERVICE represents a remote Web service, then the URIMAP will be empty. The name can be up to 8 characters long.

VALIDATIONST(*cvda*)
Returns a CVDA indicating whether full validation of SOAP messages is currently enabled for this WEBSERVICE:

VALIDATION
Full validation is enabled.

DISABLED
Full validation is disabled.

WEBSERVICE(*name*)
Specifies the name of the WEBSERVICE about which you are inquiring. The name can be up to 32 characters long.

WSBIND(*data-area*)
Returns the name of the Web service binding file. The name can be up to 255 characters long.

WSDLFILE(*data-area*)
Returns the name of the Web service description file associated with the WEBSERVICE resource. The name can be up to 255 characters long.

Conditions

NOTAUTH
RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command.

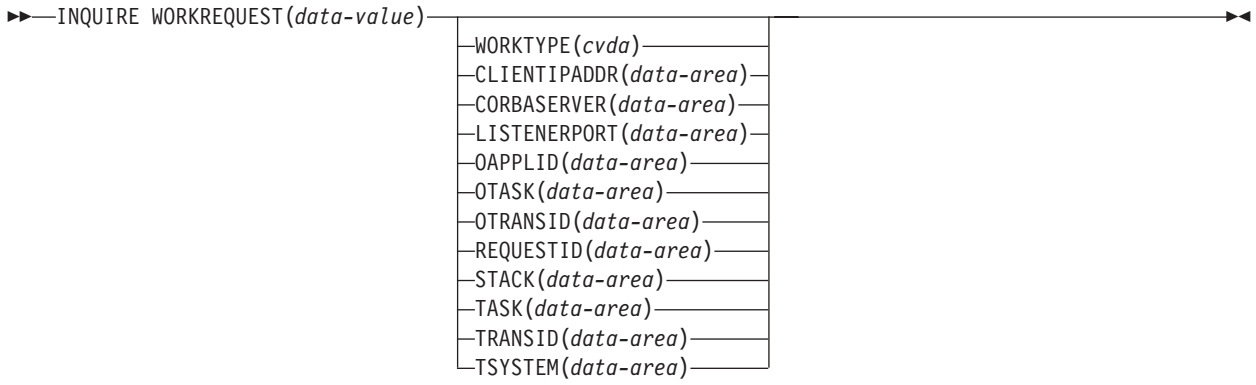
NOTFND
RESP2 values are:

3 The WEBSERVICE cannot be found.

INQUIRE WORKREQUEST

Retrieve information about work requests in the local CICS region.

INQUIRE WORKREQUEST



Conditions: ILLOGIC, NOTAUTH, NOTFND

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The INQUIRE WORKREQUEST command allows you to track tasks that are started as a result of action by a request receiver.

A listener region in CICS is an example of a RequestReceiver. A single RequestReceiver can start one RequestProcessor which in turn can start more RequestReceivers or RequestProcessors.

The RequestReceiver and RequestProcessor relationship is not the same as any other type of transaction relationship. A RequestReceiver need not remain in the system after it has initiated a RequestProcessor; if there are no more requests to be received it terminates. A RequestProcessor may create RequestReceivers during the course of its processing - outbound and loopback requests.

INQUIRE WORKREQUEST enables you to inquire about a single work request in the local region, or to browse through all the work requests in the local region. The information returned by INQUIRE WORKREQUEST allows you to:

- determine which transactions are associated with this work request
- correlate all transactions associated with this work request (for example, for accounting purposes)

Work Requests are identified by tokens. Each token is unique in the local system for the lifetime of the request, but subsequently, tokens can be reused.

Browsing

You can use the browse options (START, NEXT, and END) on INQUIRE WORKREQUEST commands, to browse through all of the work requests present in the local region. See “Browsing resource definitions” on page 21 for general information about browsing, including syntax, exception conditions, and examples.

The work requests are not returned in a defined order, so you cannot use START AT to specify a start point.

Options

CLIENTIPADDR(*data-area***)**
specifies the TCPIP address of the client that originated the request as a 15-character value.

CORBASERVER(*data-area***)**
specifies the name of the CorbaServer as a 4-character value.

LISTENERPORT(*data-area***)**
returns, in fullword binary form, the host port that received the request.

OAPPLID(*data-area***)**
specifies the applid of the originating task as an 8-character value.

OTASK(*data-area***)**
returns, in packed decimal form, the number of the task (RequestReceiver) that received the request.

OTRANSID(*data-area***)**
specifies as a 4-character value, the transaction id that received the request.

REQUESTID(*data-area***)**
returns, in fullword binary form, the current request. A client can send more than one request at a time.

STACK(*data-area***)**
returns, in fullword binary, the stack level of this call.

Each time a request receiver creates a work request it sets up a stack, and records a value of ‘1’. Then, when the request receiver issues a method request it increments the stack, and each time that a bean in this "chain of requests" issues a method request to another bean it increments this stack. There is one stack created for each request receiver, and the stack applies across the sysplex. The stack is decremented each time a bean that has incremented it terminates.

TASK(*data-area***)**
returns, in packed decimal form, the number of the local task (RequestProcessor).

TRANSID(*data-area***)**
specifies the local transaction id - 4 character

TSYSTEM(*data-area***)**
specifies the applid of the target CICS system as a 21-byte field. This field may contain one of the following:

- the dotted decimal TCPIP address and port number of the target system
- up to eight characters followed by blanks. In this case these 8-characters, or less, are the VTAM applid of the target system

- If the field contains only a string of blank characters (spaces), the target is not CICS over MRO
- Another value. CICS does not know about any other possibilities. Any other value must be meaningful to other software at your installation which expects to work with the value obtained from this parameter of this CICS command

WORKREQUEST(*data-value***)**
specifies, as an 8-character field, a token to identify the work request.Valid characters are the 16 hex digits 0-9, A-F. The token is generated by CICS. Normal usage begins with an INQUIRE WORKREQUEST BROWSE command, to identify the token which is of interest. Then the specific token can be used to issue INQUIRE and SET commands that relate to the task in question.

WORKTYPE(*cvda***)**
specifies the type of work being performed. CVDA values are:

IIOP Specifies that the work is being executed for an IIOP request.

SOAP Specifies that the work is being executed for a Web service request.

Conditions

END
RESP2 values:
2 There are no more work requests of this type present.

ILLOGIC
RESP2 values:
1 You have issued a START command when a browse of work requests is already in progress, or you have issued a NEXT or an END command when a browse of work requests is not in progress.

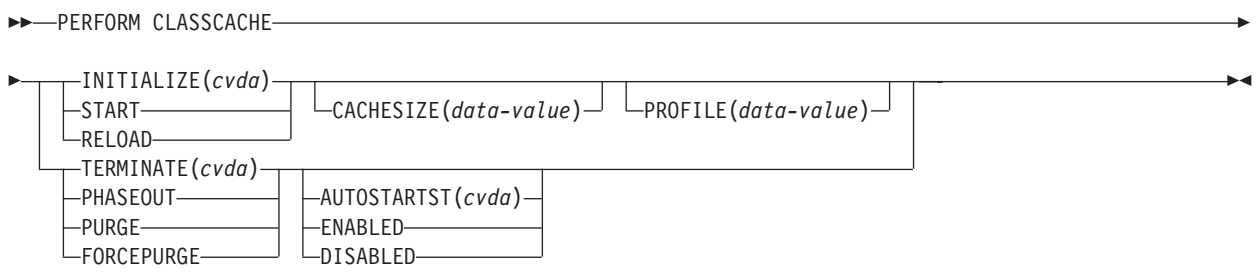
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
3 The specified work request is not present in the system.

PERFORM CLASSCACHE

Initialize and terminate the shared class cache.

PERFORM CLASSCACHE



Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

You can use the PERFORM CLASSCACHE command to initialize (start or reload) and terminate (phase out, purge or forcepurge) the shared class cache. While you are performing one of these operations, you can use other options on the command to set attributes of the shared class cache, as follows:

- When you are **initializing** the shared class cache (using the START or RELOAD option), you can change its size (CACHESIZE option) and change the JVM profile that is used for the master JVM (PROFILE option). The new settings override the size and JVM profile that were originally set by the system initialization parameters JVMCCSIZE and JVMCCPROFILE.
- When you are **terminating** the shared class cache (using the PHASEOUT, PURGE or FORCEPURGE option), you can set the status of autostart (AUTOSTARTST option). If you do not want the shared class cache to start up again until you enter an explicit command, you can use this option to ensure that autostart is disabled. The new setting overrides the autostart status that was originally set by the system initialization parameter JVMCCSTART.

When you change the size, JVM profile or autostart status of the shared class cache while CICS is running, subsequent CICS restarts use the most recent settings that you made using the PERFORM CLASSCACHE command (or the SET CLASSCACHE command), unless the system is INITIAL or COLD started, or the system initialization parameters are specified as overrides at startup. In these cases, the settings from the system initialization parameters are used.

Options

AUTOSTARTST(*cvda***)**
sets the status of autostart for the shared class cache. The CVDA values are:

ENABLED
The shared class cache is started as soon as CICS receives a request to run a Java application in a JVM whose profile requires the use of the shared class cache.

DISABLED
An explicit EXEC CICS PERFORM CLASSCACHE INITIALIZE(START) command (or the equivalent CEMT command) is required to start the shared class cache. If the status of the shared class cache is STOPPED and autostart is disabled, and CICS receives a request to run a Java application in a JVM whose profile requires the use of the shared class cache, the request fails.

CACHESIZE(*data-value***)**
is a doubleword binary value. If you are using the INITIALIZE(START) option, CACHESIZE specifies the size, in bytes, of the shared class cache that is to be started. If you are using the INITIALIZE(RELOAD) option, CACHESIZE specifies the size, in bytes, of the new shared class cache that is to be loaded.

INITIALIZE(*cvda***)**
initializes the shared class cache. You can use this option either to start a shared class cache in your CICS region when the shared class cache is stopped (START), or to start a new shared class cache to replace the shared class cache that is active (RELOAD). The CVDA values are:

START
specifies that the shared class cache is to be started. Use this option to create a new class cache when the status of the shared class cache is STOPPED. If specified, CACHESIZE and PROFILE are used in the creation of the cache.

RELOAD
specifies that the shared class cache is to be reloaded. Use this option to create a new class cache when the status of the shared class cache is STARTED (the option only works if the shared class cache has been started). If specified, CACHESIZE and PROFILE are used in the creation of the cache. If newer versions of Java classes are available to be loaded, the new class cache uses them. However, worker JVMs, both those that are already allocated to tasks and those that are allocated to tasks after you issue the command, continue to use the existing shared class cache and the old versions of the Java classes until the new shared class cache is ready. When the new shared class cache is ready, subsequent requests for worker JVMs are given a worker JVM that uses the new cache. These new worker JVMs are started as they are requested by applications, and they replace the worker JVMs that are using the old shared class cache. The worker JVMs that are using the old shared class cache are allowed to finish running their current Java programs, and then they are terminated. The old shared class cache is deleted when all the worker JVMs that are dependent on it have been terminated.

PROFILE(*data-value***)**
If you are using the INITIALIZE(START) option, PROFILE specifies the eight-character name of the JVM profile that will be used for the master JVM that starts the shared class cache. If you are using the INITIALIZE(RELOAD) option, PROFILE specifies the eight-character name of the JVM profile that will be used for the master JVM that loads the new shared class cache.

When you use the name of a JVM profile anywhere in CICS, you must enter it using the same combination of upper and lower case characters that is present in the HFS file name.

If the START or RELOAD command is successfully executed but the master JVM fails to start, CICS retains the JVM profile name that you specify, and

displays it as the JVM profile for the master JVM. Next time you issue the command to start or reload the shared class cache, the new JVM profile will be used, unless you change it again using the PROFILE option.

TERMINATE(*cvda***)**
specifies that the shared class cache is to be stopped and deleted. All worker JVMs using the shared class cache are terminated. No more JVMs can use the shared class cache, and it is deleted when all the worker JVMs that were dependent on it have been terminated. This command operates on JVMs using the most recent shared class cache, and on JVMs using any old shared class caches that are present in the system. JVMs running independently of the shared class cache are not affected by this command.

If autostart is enabled for the shared class cache, a new shared class cache is started as soon as a new JVM requests it. If autostart is disabled, the EXEC CICS PERFORM CLASSCACHE INITIALIZE(START) command (or the equivalent CEMT command) must be entered if you want to start a new shared class cache. If you do not restart the shared class cache, requests to run a Java application in a JVM whose profile requires the use of the shared class cache will fail. Specify the AUTOSTARTST option to set the status of autostart.

You can repeat the command, using the PURGE or FORCEPURGE option, to make a stronger attempt to purge the tasks using the JVMs. However, you should only repeat the command if autostart for the shared class cache is **disabled**. If autostart is enabled, and you repeat the command to terminate the shared class cache, the command could operate on the new shared class cache that has been started by the autostart facility, and terminate it.The CVDA values for the TERMINATE option are:

PHASEOUT
All worker JVMs using the shared class cache are marked for deletion. The JVMs are actually deleted when they finish running their current Java programs. The shared class cache is deleted when all the worker JVMs that were dependent on it have been terminated.

PURGE
All tasks using worker JVMs dependent on the shared class cache are terminated by the SET TASK PURGE mechanism, and the worker JVMs are terminated. The shared class cache is deleted when all the worker JVMs that were dependent on it have been terminated.

FORCEPURGE
All tasks using worker JVMs dependent on the shared class cache are terminated by the SET TASK FORCEPURGE mechanism, and the worker JVMs are terminated. The shared class cache is deleted when all the worker JVMs that were dependent on it have been terminated.

Conditions

INVREQ
RESP2 values:

4 An invalid value was specified for AUTOSTARTST.
5 TERMINATE was specified for a shared class cache which is already stopped.
6 START was specified for a shared class cache which is not stopped.
7 RELOAD was specified for a shared class cache which is not started.
8 JVM profile name contained invalid characters, or started with a blank followed by valid characters.

NOTAUTH

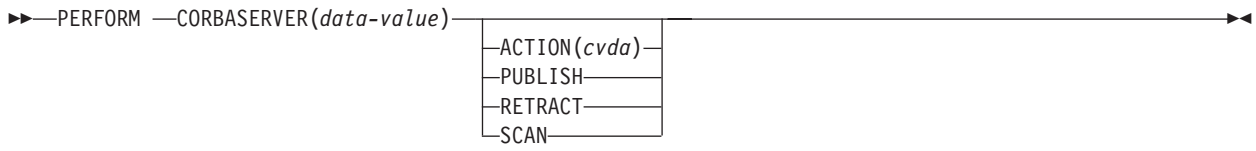
RESP2 value:

100 The user associated with the issuing task is not authorized to use this command.

PERFORM CORBASERVER

Perform certain actions against a specified CorbaServer.

PERFORM CORBASERVER



Conditions: DUPRES, INVREQ, NOTAUTH, NOTFND

Description

The PERFORM CORBASERVER command allows you to:

- Publish or retract:
  - All beans installed in the specified CorbaServer
  - The Generic Factory Interoperable Object Reference (GenFacIOR) of the specified Corbaserver

  Publishing a bean means binding a reference to the home of the bean in the namespace. The naming context in which the bean is bound is named, relative to the initial context defined for the CICS region, using a concatenation of the JNDI PREFIX attribute of the CorbaServer and the name of the bean.

  The Generic factory is bound with the name GenericFactory concatenated to the PREFIX attribute of the Corbaserver.
- Scan the CorbaServer's deployed JAR file directory for new or updated deployed JAR files.

If no action is specified, the command has no effect.

You can issue a PERFORM CORBASERVER command only when the CorbaServer is in a steady state—that is, when it is in ENABLED or DISABLED state, but *not* when it is in ENABLING, DISABLING, or DISCARDING state.

In addition to the traditional DFSMS-managed data sets, such as partitioned data sets (PDS), CICS requires access to z/OS UNIX System Services and the hierarchical file store (HFS) in order to launch a JVM. This requires that the CICS region userid is authorized to z/OS UNIX System Services to enable CICS to access the required HFS directories, such as those specified on the JVMPROPS, LIBPATH, and CLASSPATH parameters.

Options

CORBASERVER(*data-value***)**
specifies the 4-character name of a CorbaServer.

ACTION(*cvda***)**
returns a CVDA value indicating the action to be taken on the CorbaServer. CVDA values are:

PUBLISH
publish all the beans installed in the CorbaServer. Publishing a bean means binding a reference to the home of each bean in a namespace. The naming context in which the bean is bound is named, relative to the initial context defined for the CICS region, using a concatenation of the JNDI prefix attribute of the CorbaServer and the name of the bean.

The Generic Factory Interoperable Object Reference (GenFacIOR) of the CorbaServer is also bound in the namespace in the same way.

RETRACT
retract all the beans installed in the CorbaServer. Retracting a bean means unbinding a reference to the home of the bean from the namespace. The naming context in which the bean is bound is named, relative to the initial context defined for the CICS region, using a concatenation of the JNDI prefix attribute of the CorbaServer and the name of the bean.

The GenFacIOR of the CorbaServer is also unbound.

SCAN scan the CorbaServer's deployed JAR file directory (also known as the *pickup directory*) for new or updated deployed JAR files.

If CICS finds any new deployed JAR files in the pickup directory, it copies them to its shelf directory and dynamically creates and installs DJAR definitions for them.

If CICS finds any updated deployed JAR files in the pickup directory, it updates both the LASTMODTIME, DATESTAMP, and TIMESTAMP attributes of the installed DJAR definitions and the shelf copies of the deployed JAR files.

Notes:

1. CICS ignores any deployed JAR files in the pickup directory that have the same name *and* the same date and time stamps as currently-installed DJAR resources. A deployed JAR file with the same name but a later date-and-time stamp than an installed DJAR is treated as an update.
2. An error in installing one deployed JAR file has no effect on the success or failure of installing any others in the deployed JAR file directory.

Conditions

DUPRES
RESP2 values:

29 During a scan, one or more deployed JAR files failed to install due to a DJAR naming conflict. This error can occur for two reasons:

1. The name of a DJAR definition created by the scanning mechanism conflicts with that of a previously-installed dynamic definition that targets a different CorbaServer. The scanned-in definition cannot be treated as an update, because the installed definition refers to a different CorbaServer.
2. The name of a DJAR definition created by the scanning mechanism conflicts with that of a statically-installed definition. You cannot use the scanning mechanism to update a static DJAR definition.

To avoid this error:

1. If your CICS region contains multiple CorbaServers, use a different pickup directory for each CorbaServer.
2. Do not place identically-named deployed JAR files into multiple pickup directories in the same CICS region.
3. If you use static DJAR definitions, do not give them names that might conflict with those created by the scanning mechanism.

For more information about DJAR naming conflicts and how to avoid them, see the *CICS Resource Definition Guide*.

INVREQ

RESP2 values:

5 The specified CVDA value is invalid; that is, it is neither PUBLISH, RETRACT, nor SCAN.

9 The state of the CorbaServer is not ENABLED.

10 At least one deployed JAR file belonging to the CorbaServer is in a state other than INSERVICE.

13 CorbaServer publish error.

14 CorbaServer retract error.

25 CorbaServer scan error.

26 A scan of this CorbaServer's deployed JAR file directory is already in progress.

27 The CorbaServer's deployed JAR file directory (DJARDIR) could not be accessed.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND

RESP2 values:

2 The named CorbaServer cannot be found.

PERFORM DELETSHIPPED

Delete inactive shipped terminal definitions.

PERFORM DELETSHIPPED

Conditions: NOTAUTH

Description

The PERFORM DELETSHIPPED command causes immediate invocation of the CICS mechanism for deleting inactive shipped terminal definitions. It does **not** reset the interval at which this mechanism is normally invoked; that is, it does not affect the time remaining until the next automatic invocation.

A shipped definition is inactive if the terminal has not been used locally for a specified period of time and no task is waiting to be attached which requires the terminal. You can determine the length of time a shipped terminal must remain unused to be eligible for deletion and the interval at which CICS checks for such terminals with the INQUIRE DELETSHIPPED command, and you can set these values with the SET DELETSHIPPED command. For more information about shipped definitions, see the *CICS Intercommunication Guide* and the *CICS Resource Definition Guide*.

Conditions

NOTAUTH

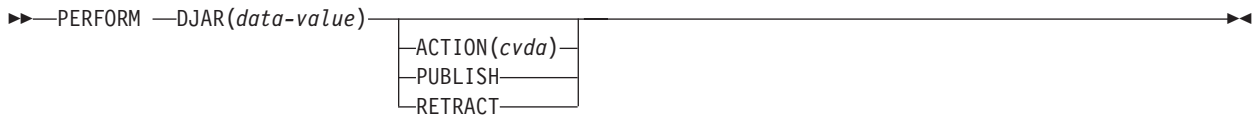
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

PERFORM DJAR

Perform certain actions against a specified DJAR.

PERFORM DJAR



Conditions: INVREQ, NOTAUTH, NOTFND

Description

The PERFORM DJAR command allows you to publish or retract all beans installed in a specified deployed JAR file. If no action is specified, the command has no effect.

In addition to the traditional DFSMS-managed data sets, such as partitioned data sets (PDS), CICS requires access to z/OS UNIX System Services and the hierarchical file store (HFS) in order to launch a JVM. This requires that the CICS region userid is authorized to z/OS UNIX System Services to enable CICS to access the required HFS directories, such as those specified on the JVMPROPS, LIBPATH, and CLASSPATH parameters.

Options

DJAR(*data-value***)**
specifies the 1–32 character name of a deployed JAR file.

ACTION(*cvda***)**
returns a CVDA value indicating the action to be taken on the deployed JAR file. CVDA values are:

PUBLISH
publish all the beans installed from the deployed JAR file. Publishing a bean means binding a reference to the home of the bean in a namespace. The naming context in which the bean is bound is named, relative to the initial context defined for the CICS region, using a concatenation of the JNDI prefix attribute of the deployed JAR file's CorbaServer and the name of the bean.

RETRACT
retract all the beans installed from the deployed JAR file. Retracting a bean means unbinding a reference to the home of the bean from the namespace. The naming context in which the bean is bound is named, relative to the initial context defined for the CICS region, using a concatenation of the JNDI prefix attribute of the deployed JAR file's CorbaServer and the name of the bean.

Conditions

INVREQ
RESP2 values:

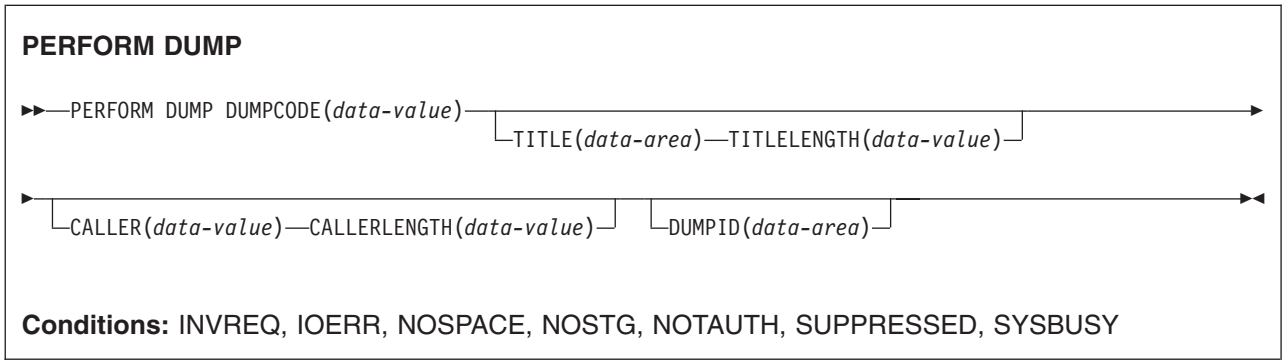
5 The specified CVDA value is invalid, that is, it is neither PUBLISH nor RETRACT.
10 The state of the deployed JAR file is not INSERVICE.
16 djar publish error.
17 djar retract error.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
3 djar not found.

PERFORM DUMP

Request a system dump of CICS.



Description

The PERFORM DUMP command requests a system dump (an MVS SDUMP) of the CICS region in which it is issued.

The system dump table entry for the dump code specified in the DUMPCODE option determines the processing that occurs on a PERFORM DUMP command: whether a dump is taken, whether the request is propagated for related CICS regions in a sysplex environment, and whether shutdown occurs. If there is no entry for the dump code you specify, CICS creates a temporary one using default values. See the INQUIRE SYSDUMPCODE command for more information about this process and the *CICS Problem Determination Guide* for general information about the system dump table.

While an MVS SDUMP is being taken, all other CICS activity ceases. The program issuing the command does not regain control until the dump is complete, and then only if the dump does not cause CICS to shut down.

Options

CALLER(*data-value***)**
specifies the text that appears after 'CALLER' in the summary of dump domain information at the top of the dump. This text can be up to 8 characters long. It is intended to identify the source of the request for the dump, but is not restricted to that purpose.

CALLERLENGTH(*data-value***)**
specifies, as a fullword binary value, the number of characters in the CALLER text.

DUMPCODE(*data-value***)**
specifies the 8-character dump code for this dump request, which determines the system dump table entry used in processing it.

The code can be either CICS-defined or user-defined. Most CICS codes are a CICS message identifier with the initial 'DFH' removed, but there are a few additional ones. The *CICS Messages and Codes* manual lists all CICS messages and also the additional codes (under "System dump codes").

User-defined codes can be any character string that does not contain leading or imbedded blanks.

CICS provides system dump table entries for some CICS-defined codes and builds them as needed for others. The installation can provide entries for user-defined codes, or CICS will build temporary entries, as explained above.

DUMPID(*data-area***)**
returns a 6- to 9-character dump identifier generated for this particular dump. The format of the identifier is xxxx/yyyy, where *xxxx* represents the **dump run number**, yyyy is the **dump count**, and the slash (/) symbol is a separator character. The dump identifier is generated as follows:

Dump run number
A number in the range 1 to 9999. (Leading zeros are not used for this number, which is why the dump id can vary from 6 to 9 characters.) The dump run number begins at 1 when you first start CICS with a newly-initialized local catalog, and is incremented by 1 each time you restart CICS. The dump run number is saved in the local catalog when you perform a normal shutdown, but is reset if you start CICS with a START=INITIAL or START=COLD system initialization parameter.

Dump count
A number in the range 0001 through 9999. (Leading zeros are required in the dump id.) This is the number assigned to the dump in this run of CICS, starting at 0001 for the first dump, and incremented by 1 with each dump taken.

TITLE(*data-area***)**
is the text that is printed as a title in the summary of dump domain information at the top of the dump. It can be up to 80 characters long.

TITLELENGTH(*data-value***)**
specifies, as a fullword binary value, the number of characters in the TITLE text.

Conditions

INVREQ
RESP2 values:
6 TITLELENGTH is greater than 80 bytes.
7 CALLERLENGTH is greater than 8 bytes.
13 The DUMPCODE contains leading or imbedded blanks.

IOERR
RESP2 values:
9 CICS is not authorized by MVS to take dumps.
10 An error occurred during system dumping.
12 MVS cannot process the dump because there is no dump data set or because it is full.
13 An error occurred in the CICS routine that issues MVS SDUMP requests.

NOSPACE
RESP2 values:
4 The dump is incomplete due to lack of dump data-set space.

NOSTG
RESP2 values:
5 CICS cannot complete the dump because of insufficient storage.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SUPPRESSED

RESP2 values:

1 The dump was not taken because the number of dumps with this dump code exceeds the maximum for the code.

2 The dump was not taken because the system dump table entry for this code indicates no system dump.

3 The dump was not taken because it was suppressed by a user exit program.

8 The dump was not taken because system dumps are suppressed globally.

SYSBUSY

RESP2 values:

11 The MVS dump routine is busy. Retry the command.

PERFORM ENDAFFINITY

End an affinity owned by CICS.

PERFORM ENDAFFINITY

Conditions: INVREQ

Description

Where CICS is a member of a VTAM generic resource group, the PERFORM ENDAFFINITY command instructs VTAM to end an affinity owned by CICS, whether or not the connection has been deleted. If the connection has not been deleted, it must be out of service and have no recovery information outstanding (that is, its RECOVSTATUS must be NORECOVDATA).

Generic resources and affinities are described in the *CICS Intercommunication Guide*.

Note: There is no facility in VTAM for inquiring on affinities, so CICS has no certain knowledge that an affinity exists for a given connection. Whenever there is a possibility that an affinity has been created that you must end explicitly, CICS issues message DFHZC0177. This message gives the NETNAME and NETID to be passed to VTAM.

If a request to end an affinity is rejected by VTAM because no such affinity exists, CICS issues message DFHZC0181. This may mean either that your program specified an incorrect NETNAME or NETID, or that it (or CICS) was wrong in supposing that an affinity existed.

Options

NETID(*data-value***)**
specifies the name by which the network containing the remote LU is known to VTAM.

If you do not specify a NETID, CICS takes the value from the installed connection, if it exists. If you do not specify a NETID and the connection does not exist, the command fails.

NETNAME(*data-value***)**
specifies the APPLID of the remote LU. If the connected LU is a member of a generic resource, you must specify its member name, not the generic resource name.

Conditions

INVREQ
RESP2 values:
25 The connection is still in service.
26 There may be recovery information outstanding for the connection. RECOVSTATUS has a value other than NORECOVDATA.

32 See message DFHZC0178. VTAM could not end the affinity for a reason other than 35 (NOTFOUND) or 36 (SESSIONS ACTIVE).

34 NETID was not specified, and cannot be obtained from the installed connection. This may be because the connection does not exist, or because it does not contain a NETID value.

35 VTAM could not find an affinity for the values input.

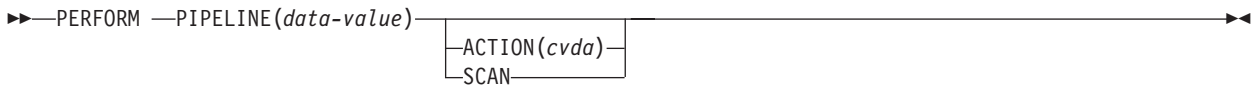
36 VTAM could not end the affinity because the connection had some sessions active.

37 See message DFHZC0176. A VTAM error prevented the CHANGE ENDAFFIN macro being carried out.

PERFORM PIPELINE

Initiate a scan of the Web service binding files that are associated with a PIPELINE.

PERFORM PIPELINE



Conditions: DUPRES, INVREQ, NOTAUTH, NOTFND

Description

Use the PERFORM PIPELINE command to initiate a scan of the Web service binding directory that is specified in the WSBIND attribute of the PIPELINE definition. If the WSBIND attribute is not specified, there is nothing to scan, and control returns to your program.

If the directory location specified is valid, CICS examines the Web service binding files in the directory to determine if they should be installed into the system:

- CICS installs any files it finds that have not been installed already.
- If a file has been installed already, but the file in the directory is newer than the one currently in use, the one that is in use is discarded, and the newer file is installed in its place.

If, for any reason, CICS fails to install an individual Web service binding file, processing continues with the remaining files in the directory. When the scan completes, the PIPELINE is available for use with whichever of the binding files were installed successfully.

Options

PIPELINE(*data-value***)**
specifies the 8–character name of the PIPELINE.

ACTION(*cvda*)
SCAN
Specifies a CVDA value indicating the action to be taken on the PIPELINE. CVDA values are:

SCAN Scan the PIPELINE's Web service binding directory

Conditions

DUPRES
RESP2 values:

29 During a scan one or more Web service binding file failed to install because of a naming conflict with an existing resource. This error can occur for two reasons:

- The conflict is with an existing definition that is associated with a different PIPELINE. The newly-generated resource cannot be treated as an update, because the exsiting definition refers to a different PIPELINE.

- The conflict is with a statically-installed definition. You cannot use the scanning mechanism to update a static Web service binding.

INVREQ

RESP2 values:

5 The specified CVDA value is invalid; that is, it is not SCAN.

9 The state of the PIPELINE is not ENABLED.

10 A scan of this PIPELINE's Web service binding directory is already in progress.

11 Read access is denied to the directory specified in the PIPELINE's WSDIR attribute.

25 PIPELINE scan error.

27 The PIPELINE's Web service binding directory could not be accessed.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND

RESP2 values:

3 The named PIPELINE cannot be found.

PERFORM RESETTIME

Reset date and time.

PERFORM RESETTIME

Conditions: INVREQ, NOTAUTH

Description

The PERFORM RESETTIME command resets the CICS date and time from the MVS system date and time.

Conditions

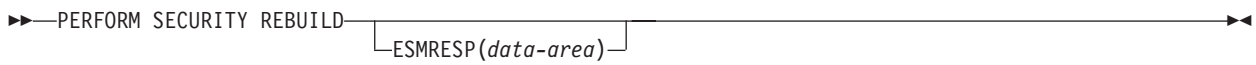
INVREQ
RESP2 values:
1 There is no clock in the system.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PERFORM SECURITY REBUILD

Refresh security information.

PERFORM SECURITY REBUILD



Conditions: INVREQ, IOERR, NORMAL, NOTAUTH, SYSBUSY

Description

The PERFORM SECURITY REBUILD command is a request for CICS security information to be refreshed from its external security manager (ESM) source, so that it reflects any updates made since the information was last retrieved.

Since RACF Version 2.1, the refresh process is automatic; PERFORM SECURITY REBUILD is not required, and has no effect if issued.

If your CICS uses another ESM, the effect of this command depends on the particular ESM.

Options

ESMRESP(*data-area***)**
returns a fullword binary field giving the response code from the external security manager. This value is also returned in the RESP2 field of the response code. If an exception condition prevents CICS from invoking the ESM, the ESMRESP value is left unchanged.

If the ESM is not RACF Version 2.1 or later, and the command completes normally (a RESP code value of NORMAL), a RESP2 code of 0 indicates that the profiles have been refreshed. A RESP2 code of 4 means that no action was required, because RACF was at Version 2.1 or later, in which profiles are refreshed automatically.

Conditions

INVREQ
RESP2 values:
1 No ESM is installed, or the ESM is inactive.
5 The ESM is temporarily inactive and cannot perform the action requested.

IOERR
RESP2 values:
3 Error returned from ESM. The return code is in ESMRESP, if the option was used.

NORMAL
RESP2 values:
0 Profiles have been refreshed.
4 No action is required, because RACF is at Version 2.1 (or later), and so profiles are refreshed automatically.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SYSBUSY

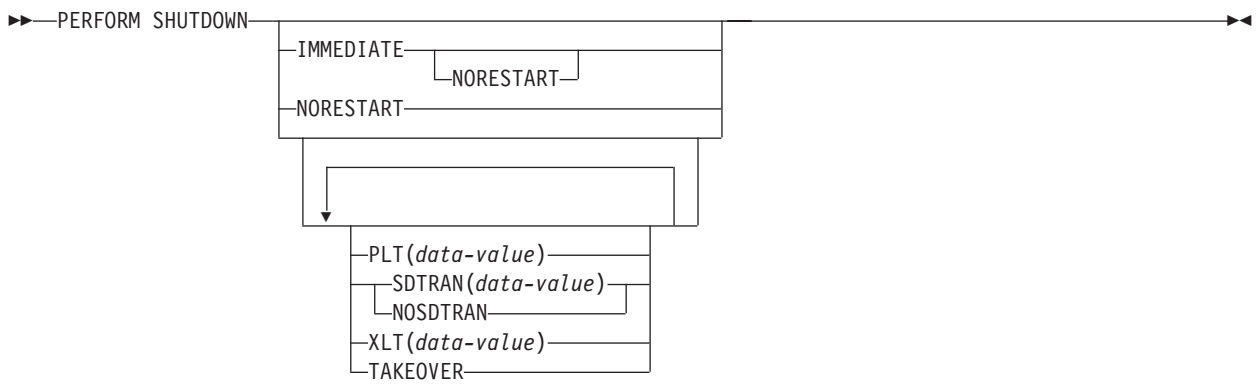
RESP2 values:

3 A security rebuild is currently in progress.

PERFORM SHUTDOWN

Shut down the CICS system.

PERFORM SHUTDOWN



Conditions: INVREQ, NOTAUTH, TRANSIDERR

Description

The PERFORM SHUTDOWN command shuts down the CICS system. The shutdown can be either normal (controlled) or immediate. Control does not return to the program issuing the command, unless an exception condition occurs.

In processing this command, CICS invokes the programs in the shutdown program list table (PLT) as part of the task that issued the command. If any program in the list requires a terminal (that is, uses the principal facility), you should not issue the command in a task that does not have one, because the task will abend on the first attempt to use the non-existent terminal. Shutdown will proceed, but the task is backed out to its most recent SYNCPOINT, and the remaining programs in the list will not be executed.

The *CICS Customization Guide* contains more information about PLTs and steps in the shutdown process.

Options

DUMP
specifies that an MVS SDUMP of the CICS region should be taken as part of the shutdown process. In a sysplex environment, dumps of related regions also are taken, if the system dump table entry for the dump code SHUTDOWN, which governs this dump, specifies them.

IMMEDIATE
specifies that CICS is to shut down immediately, terminating all active tasks and VTAM sessions abnormally. If IMMEDIATE is **not** specified, CICS shuts down normally, allowing these tasks to complete and quiescing the sessions; it then takes a warm keypoint.

NORESTART
specifies that this CICS region should not be restarted (by MVS automatic restart manager) after the CICS region has completed shutting down.

This option applies to immediate shutdowns only. If you specify NORESTART without IMMEDIATE, CICS performs an immediate shutdown as if you specified the command as PERFORM SHUTDOWN IMMEDIATE NORESTART.

NOSDTRAN
specifies that no shutdown assist transaction is to be run at CICS shutdown.

PLT(*data-value***)**
specifies the 2-character suffix that identifies the PLT for this shutdown. (The table is a load module named DFHPLT followed by this suffix.)

The value “NO” means that no PLT programs are run. If you do not supply a PLT value, the value specified by the PLTSD system initialization parameter, if any, is used. This option applies only to a normal shutdown; the PLT is not run in an immediate shutdown.

SDTRAN(*data-value***)**
specifies the 4-character name of the shutdown assist transaction.

The shutdown assist transaction, if specified, is run at CICS warm and immediate shutdown, and can be used to ensure that CICS shuts down in an controlled way, within a reasonable time (by, for example, purging long-running tasks). For details of the default shutdown assist transaction, CESD, see the *CICS Operations and Utilities Guide*.

TAKEOVER
specifies that this CICS system is to be shut down normally, and then the alternate CICS system is to take over. This option is valid only when the system initialization parameter XRF=YES was specified for CICS startup.

XLT(*data-value***)**
specifies the 2-character suffix that identifies the transaction list table (XLT) to be used for this shutdown. (The table is a load module named DFHXLT followed by this suffix.)

This table lists the transactions that can be initiated by unsolicited terminal input during the first quiesce stage of a normal shutdown. No other transactions can be initiated from a terminal during shutdown, except for CEMT, CESF, and a small number of other CICS-supplied transactions related to terminals.

This option is meaningful only when IMMEDIATE is not present; no new transactions are accepted during an immediate shutdown. A suffix of “NO” means that no transactions besides those cited above are allowed. If you do not supply an XLT value, the value specified by the XLT system initialization parameter, if any, is used.

Conditions

INVREQ
RESP2 values:

1 A normal shutdown was requested when shutdown was already in progress.
2 The XLT cannot be found.
3 The PLT cannot be found.
4 XRF is not in effect.
5 The transaction specified on SDTRAN is not enabled for shutdown.
6 The transaction specified on SDTRAN is defined as remote.
7 The transaction specified on SDTRAN is not enabled.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

TRANSIDERR

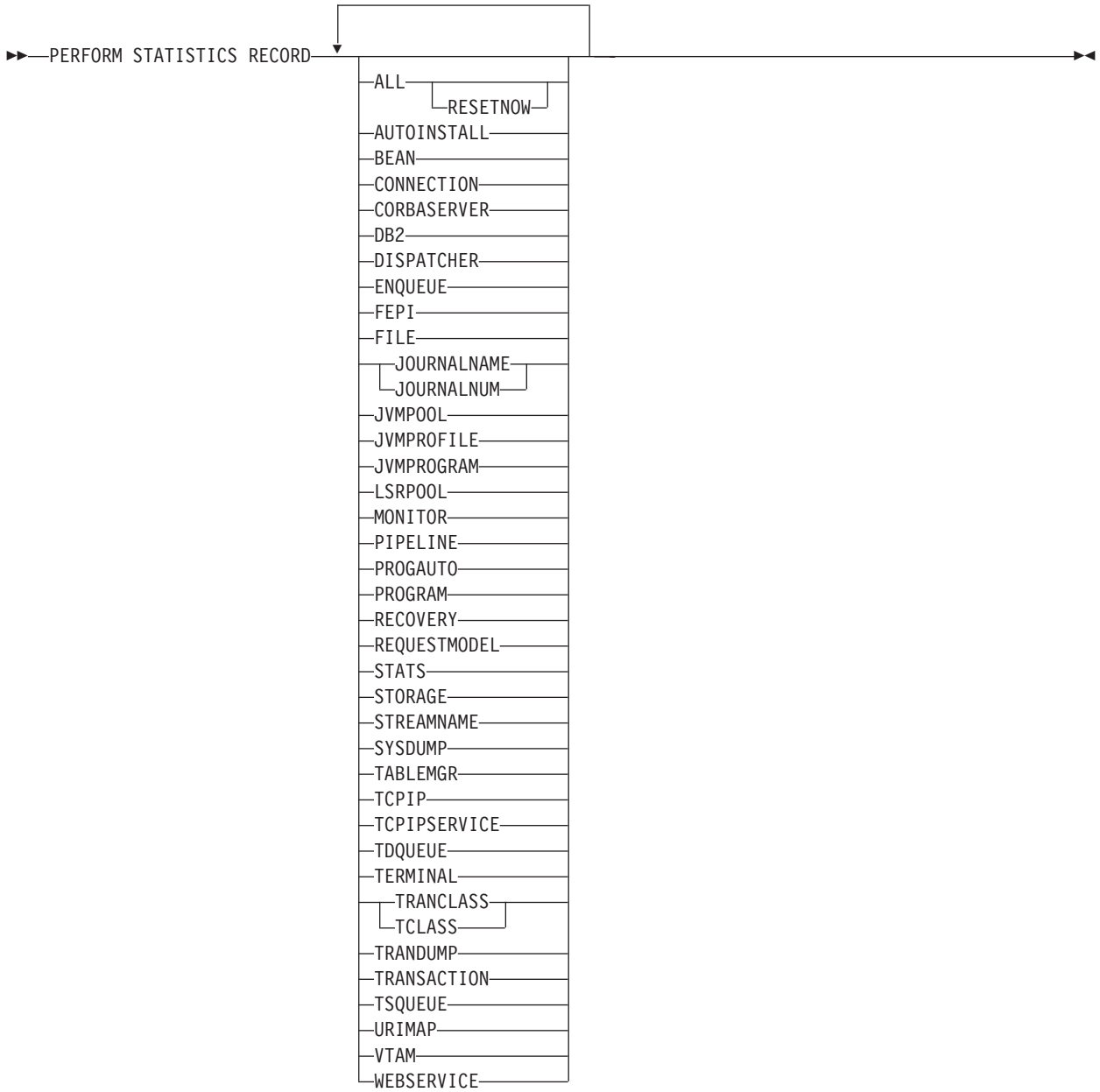
RESP2 values:

8 The shutdown transaction specified on SDTRAN was not found.

PERFORM STATISTICS RECORD

Record statistics immediately.

PERFORM STATISTICS RECORD



Conditions: IOERR, NOTAUTH, NOTFND

Description

The PERFORM STATISTICS RECORD command causes current statistics for the resource types and system functions that you specify to be recorded (written out to the SMF data set). Recording occurs immediately, and is not governed by the

system options that control the recording of these statistics at intervals. (See the discussion of **interval statistics** in the SET STATISTICS command on page "SET STATISTICS options - ENDOFDAYSECS" on page 567.)

Execution of this command does not affect interval or end-of-day statistics either, except when you specify RESETNOW, because the counts are not reset unless RESETNOW is specified.

You can specify as many types of statistics as you wish, or you can request all (the ALL option). For each type you request, CICS provides all of the information available (the information that is recorded in interval statistics). For system services, such as dispatch and dynamic transaction backout, CICS keeps summary (global) statistics. For resource types, CICS keeps specific statistics for each installed resource of the type in question, and for some resource types, CICS keeps global counts as well.

The *CICS Performance Guide* contains details about CICS statistics.

Options

ALL
records statistics for all resource types and system services. This is the same information that is recorded for interval statistics, and includes counts from the user domain, which are not otherwise available with this command.

In addition, you can reset the counts when you use this option (see the RESETNOW option).

AUTOINSTALL
records global statistics on the automatic installation of terminal definitions.

BEAN
records specific statistics for all enterprise beans installed in the CICS region.

CONNECTION
records specific statistics for all connections installed in the CICS region.

CORBASERVER
records specific statistics for all CorbaServers installed in the CICS region.

DB2
records global statistics for the CICS DB2 connection and specific statistics for each DB2ENTRY defined in the CICS region.

DISPATCHER
records global statistics on the dispatch function, including task counts and concurrency levels and limits.

ENQUEUE
records global statistics for the enqueue manager.

FEPI
records global statistics on the front-end programming interface (FEPI) and specific statistics on FEPI connections, targets, and pools.

FILE
records specific statistics for all files installed in the CICS region.

JOURNALNAME
records specific statistics for all journals installed in the CICS region. This

parameter replaces the JOURNALNUM parameter. To record specific statistics for all journals installed in the CICS region, you are recommended to use this parameter.

JOURNALNUM
records specific statistics returned by the JOURNALNAME parameter.

JVMPOOL
records global statistics for the JVM pool.

JVMPROFILE
records specific statistics for all JVM profiles in the CICS region.

JVMPROGRAM
records specific statistics for all Java programs in the CICS region that run in a JVM.

LSRPOOL
records specific statistics on all VSAM LSR pools defined in the CICS region, including statistics on the files within the pool additional to the statistics produced by the FILE option.

MONITOR
records global statistics on the monitor function of CICS.

PIPELINE
records statistics related to a PIPELINE.

PROGAUTO
records global statistics on automatic installation of program definitions.

PROGRAM
records global and specific statistics for all programs installed in the CICS region, except for Java™ programs that run in a JVM (for which you can use the JVMPROGRAM option).

RECOVERY
records global statistics on the recovery manager.

REQUESTMODEL
records statistics for all REQUESTMODEL definitions installed in the CICS region.

RESETNOW
resets all statistics to initial values after recording. You can use this option only in conjunction with the ALL option. The definition of the initial value depends on the statistic being kept; see the *CICS Performance Guide* for details.

STATS
records global statistics about the statistics-gathering function of CICS.

STORAGE
records global statistics for all CICS dynamic storage subpool areas, and specific statistics by subpool.

STREAMNAME
records global statistics on the log manager and specific statistics for all the log streams currently connected.

SYSDUMP
records global statistics on system dumps and specific statistics for each dump code in the system dump code table.

TABLEMGR
records global statistics on the CICS table manager.

TCLASS
records specific statistics for every transaction class defined in the CICS region. This option has the same effect as TRANCLASS and is retained for compatibility with older versions of CICS only; use TRANCLASS instead where possible.

TCPIP
records global statistics on the IP sockets.

TCPIPSERVICE
records specific statstics for every TCP/IP service installed in the CICS region.

TDQUEUE
records global statistics for transient data and specific statistics for each queue defined in the CICS region.

TERMINAL
records specific statistics for each terminal and session installed in the CICS region.

TRANCLASS
records specific statistics for every transaction class defined in the CICS region.

TRANDUMP
records global statistics on transaction dumps and specific statistics for each dump code in the transaction dump table.

TRANSACTION
records global statistics on transactions and specific statistics for each transaction installed in the system.

TSQUEUE
records global statistics on temporary storage.

URIMAP
records statistics related to a URIMAP resource.

VTAM
records global VTAM statistics for the CICS region.

WEBSERVICE
records statistics related to a WEBSERVICE resource.

Conditions

IOERR
RESP2 values:
n Statistics for at least one of the options chosen were not available; usually the reason for this error is corruption of the memory in which they are accumulated. (See note below.)

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:

n Statistics for at least one of the options chosen were not available because CICS was initialized without support for the function. (See note below.)

Note: When statistics of a requested type are unavailable, CICS raises the IOERR or NOTFND exception condition, as appropriate, but continues through the remaining types, recording as much information as available.

NOTFND is also returned if you attempt to use PERFORM STATISTICS RECORD PROGRAM when you should use PERFORM STATISTICS RECORD JVMPROGRAM. See “Collecting statistics for Java programs that run in a JVM” on page 46 for additional information.

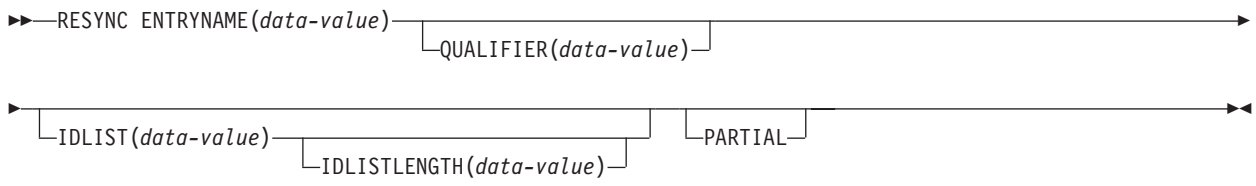
The RESP2 value *n* identifies the last type to fail in this way, as follows:

n	**Resource type**
1	AUTOINSTALL
2	CONNECTION
3	DISPATCHER
6	FILE
8	JOURNALNUM and JOURNALNAME
10	LSRPOOL
11	MONITOR
12	PROGRAM
13	STATS
14	STORAGE
15	SYSDUMP
16	TABLEMGR
18	TCLASS, TRANCLASS
19	TDQUEUE
20	TERMINAL
21	TRANDUMP
22	TRANSACTION
23	TSQUEUE
24	VTAM
25	FEPI
26	PROGAUTO
28	ENQUEUE
29	RECOVERY
30	STREAMNAME
31	DB2
32	TCPIPSERVICE
33	TCPIP
34	REQUESTMODEL
35	CORBASERVER
36	JVMPOOL
37	JVMPROFILE
38	BEAN
39	JVMPROGRAM
40	MQCONN
41	URIMAP
42	WEBSERVICE
43	PIPELINE

RESYNC ENTRYNAME

Determine the disposition of “in doubt” units of work.

RESYNC ENTRYNAME



Conditions: NOTAUTH

Description

The RESYNC command allows a non-CICS resource manager to determine whether units of work about which it is “in doubt” were committed or backed out.

A resource manager can be in doubt about a unit of work if it has been invoked for the first phase of syncpoint, but not for the second. A failure of either the resource manager or CICS between Phase 1 and Phase 2 leaves the resource manager in doubt about that unit of work.

CICS saves or reconstructs the disposition of any such unit of work until a RESYNC command or an initial start. CICS also saves the disposition of any unit of work about which the resource manager replies “remember” to the second-phase syncpoint invocation, so that if the resource manager cannot commit or roll back as directed, it can request the disposition later for recovery.

To use the saved disposition information, the resource manager must have a record of which units of work are in doubt or “remembered”. It can then issue a RESYNC command with a list of these units of work, either in its task-related user exit program or an associated administrative transaction.

In response, CICS creates a task, CRSY, for each in-doubt unit of work in the list. The CRSY task invokes the task-related user exit program once on behalf of its particular unit of work. This invocation is identified to the exit as a phase 2 syncpoint request and as such indicates whether the unit of work was committed or rolled back. The exit program can then relay this information in the form the resource manager requires.

If the resource manager does not want to resynchronize all in-doubt units of work at once, it should specify PARTIAL on the RESYNC command. If it does not, CICS discards disposition information for all the in-doubt units of work that are not in the supplied list, but are part of the resource manager’s resynchronization set. [3]

3. A resource manager’s resynchronization set is initialized when its task-related user exit is first enabled. It is used when the first non-partial RESYNC command is issued. On completion of the non-partial RESYNC, a new resynchronization set is initialized, for use with the next non-partial RESYNC.

A resource manager is identified by the name of its task-related user exit and, optionally, a qualifier to this name. Use of a qualifier allows multiple instances of the same resource manager to resynchronize independently.

Control is returned to the program that issued the RESYNC command as soon as the CRSY tasks have been scheduled. They run asynchronously, in parallel, according to normal CICS dispatch rules. Consequently, the exit should be enabled, started, and initialized to the point where it can process these invocations before the RESYNC command.

If the exit is not available, a CRSY task will save the disposition of its unit of work, but since this occurs later in time, no exceptional condition occurs on the RESYNC. See the *CICS Customization Guide* for full details about resynchronization invocations of task-related user exits.

If CICS fails for some reason, or an immediate shutdown is performed, the forget
flow log records that are written in response to a committed flow being returned
from an external resource manager are lost. This is because anything other than a
controlled CICS shutdown does not call the MVS logger to force the log records
onto the logstream. This can lead to units of work being rebuilt on a subsequent
emergency restart of CICS, if their links to the external resource managers were not
seen to be “forgettable” at the time of the restart. In order to allow CICS to discard
such units of work, the external resource manager can issue an EXEC CICS
RESYNC command to CICS when it reconnects after the CICS system is restarted.
Any units of work that are not passed on the command are treated as no longer
required by CICS.

Options

ENTRYNAME(*data-value***)**
specifies the 8-character name of the task-related user exit for the resource manager. This is the ENTRYNAME value of the ENABLE command that established the exit, or, if ENTRYNAME was omitted, the PROGRAM value.

IDLIST(*data-value***)**
specifies the list of units of work to be resynchronized. Each entry in the list is the *address* of the 8-byte identifier of an in-doubt unit of work. The end of the list may be indicated by the high-order bit turned on, or IDLISTLENGTH may be used.

Units of work are identified by the UEPURID value passed to the task-related user exit.

Note: IDLIST is optional, but if you omit it, CICS discards all of the saved disposition information for the resource manager, unless you specify PARTIAL. Not specifying a list and specifying PARTIAL is an illogical combination and results in a NO-OP.

IDLISTLENGTH(*data-value***)**
specifies a halfword binary value indicating the length (in bytes, counting 4 bytes per in-doubt unit of work) of the address-list.

PARTIAL
specifies that CICS is to retain in-doubt resolution data for the UOWs (for this resource manager) that are not passed in the in-doubt list. PARTIAL indicates that, at this time, the resource manager wants to resynchronize only a subset of the UOWs about which it is in doubt.

If PARTIAL is not specified, CICS discards resolution data for any UOWs not passed in the in-doubt list, but which are part of this resource manager's resynchronization set. [3] This includes data for UOWs that CICS itself is in doubt about.

A task-related user exit program can issue multiple partial resyncs during the lifetime of a connection with its external resource manager. However, it should issue only *one* full (that is, non-partial) resync during the lifetime of a connection. This is typically done when the connection is first established. Full resyncs imply deletion of UOWs not mentioned in the IDLIST. Only when the external resource manager is not connected to CICS can it be sure that it has a complete list of UOWs to pass to CICS.

QUALIFIER(*data-value***)**
specifies an 8-character qualifier to the ENTRYNAME value, which identifies the particular instance of the resource manager to which the RESYNC command applies. The qualifier is optional; it is intended for systems where more than one copy of a resource manager can be in use.

When it is in use, this value is assigned to a unit of work by the task-related user exit at the time the unit of work takes place, via the UEPRMQUA value in the user exit parameter list. If the RESYNC command specifies a qualifier, CICS uses only disposition information saved with the same QUALIFIER and ENTRYNAME values. Similarly, it discards saved dispositions only if they have the same two values, were not included in the IDLIST, and PARTIAL was not specified.

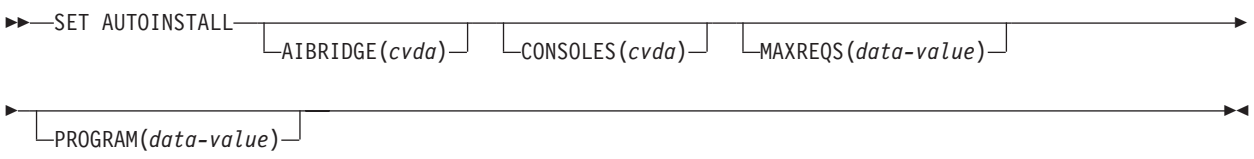
Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SET AUTOINSTALL

Change autoinstall values.

SET AUTOINSTALL



Conditions: INVREQ, NOTAUTH, PGMIDERR

Description

The SET AUTOINSTALL command lets you change some of the values that control the automatic installation (autoinstall) of VTAM terminals, APPC sessions, virtual terminals (bridge facilities) used by the 3270 bridge mechanism, and MVS consoles in a CICS region.

Options

AIBRIDGE(*cvda***)**
Specifies whether the autoinstall user replaceable program (URM) is to be called for bridge facilities. The CVDA values are:

AUTOTERMID
Bridge facilities are to be defined automatically by CICS. The autoinstall user replaceable program is not to be called.

URMTERMID
The autoinstall user replaceable program is to be called.

CONSOLES(*cvda***)**
specifies whether CICS is to autoinstall an MVS console when it receives an MVS MODIFY command from a console that is not defined. The CVDA values are:

PROGAUTO
MVS consoles are to be autoinstalled, and CICS is to call the user autoinstall control program to obtain the termid and other user-specified information.

FULLAUTO
MVS consoles are to be autoinstalled by CICS automatically, without calling the user autoinstall control program. CICS assigns the termid for the console automatically, using the ¬ (logical not) symbol as the first character.

NOAUTO
Autoinstall for consoles is not allowed.

MAXREQS(*data-value***)**
specifies the largest number of autoinstall requests that can be processed concurrently, as a fullword binary value. The value must be in the range 0-999.

Note: MAXREQS does not limit the total number of terminals that can be installed automatically, only the arrival rate. However, you can prevent automatic installation of any additional terminals by setting MAXREQS to 0. Terminals already autoinstalled are not affected, but if they log off, they cannot log on again while MAXREQS is 0.

PROGRAM(*data-value***)**
specifies the 8-character name of the program to be used in the autoinstall process for terminals. You can specify either an installation-specific program or the CICS-supplied default, DFHZATDX.

Note: This program and any programs it invokes must be installed before they can be used in the program autoinstall process. You can do this either with explicit PROGRAM definitions or by autoinstall when some other autoinstall program is in force. Otherwise, the program autoinstall process fails when it is next used, and CICS makes it inactive.

Conditions

INVREQ
RESP2 values:
1 VTAM is not in use in this system.
2 The MAXREQS value is not in the range 0-999.
4 One of the modules invoked by DFHZATDX (DFHZATA and DFHZATD) cannot be found.
20 CONSOLES has an invalid CVDA value.
41 AIBRIDGE has an invalid CVDA value.

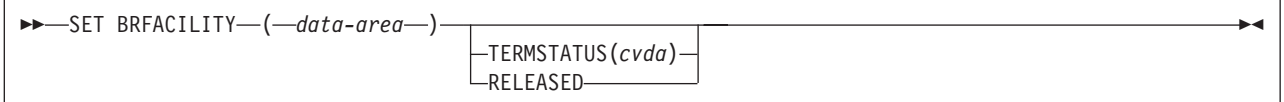
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PGMIDERR
RESP2 values:
3 The program name cannot be found.

SET BRFACILITY

Release a virtual terminal (bridge facility) used by the 3270 bridge mechanism.

SET BRFACILITY



Conditions: NOTAUTH, NOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET BRFACILITY command allows you to request deletion of the virtual terminal (bridge facility) used by the 3270 bridge mechanism.

If a transaction is currently running, the bridge facility will be deleted at the end of the transaction. If the bridge facility is currently AVAILABLE, the facility will be deleted at the next garbage clearance.

When a bridge facility is released, the delete function of the XFAINTU global user exit is driven.

Note: Bridge facilities are deleted only in the region in which the command is issued. Bridge facilities can exist in both router and AOR regions. This command deletes the facility in the region on which it is issued. It does not affect the other region, but this means that the bridge facility can no longer be used. However in order to free up the storage occupied by a bridge facility this command should be issued in both regions. This command can only be issued in the router or AOR region where the bridge facility was created.

Options

BRFACILITY(*data-area***)**
specifies the 8-byte facility token of the bridge facility.

TERMSTATUS(*cvda***)**
specifies that the bridge facility should be marked for deletion.

RELEASED
The bridge facility is to be deleted.

Conditions

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

NOTFOUND

RESP2 values:

1 The specified bridge facility could not be found.

SET CLASSCACHE

Set the status of autostart for the shared class cache.

SET CLASSCACHE

Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET CLASSCACHE command enables you to set the status of autostart for the shared class cache.

On an initial or cold start of CICS, the status of autostart is taken from the system initialization parameter JVMCCSTART. A JVMCCSTART value of YES or AUTO gives an autostart status of ENABLED, and a JVMCCSTART value of NO gives an autostart status of DISABLED. You can change the status of autostart by using the SET CLASSCACHE AUTOSTARTST command, or by using the AUTOSTARTST option on the EXEC CICS PERFORM CLASSCACHE TERMINATE command (or the equivalent CEMT command) when you terminate the shared class cache.

When you change the status of autostart for the shared class cache while CICS is running, subsequent CICS restarts use the most recent settings that you made using the CEMT or EXEC CICS SET CLASSCACHE command (or the CEMT or EXEC CICS PERFORM CLASSCACHE command), unless the system is INITIAL or COLD started, or the system initialization parameter JVMCCSTART is specified as an override at startup. In these cases, the setting from the system initialization parameter is used.

Options

AUTOSTARTST(*cvda***)**
specifies the status of autostart for the shared class cache. The CVDA values are:

ENABLED
If the shared class cache has been stopped or has not yet been started on this CICS execution, the shared class cache is started as soon as CICS receives a request to run a Java application in a JVM whose profile requires the use of the shared class cache.

DISABLED
If the shared class cache has been stopped or has not yet been started on this CICS execution, an explicit EXEC CICS PERFORM CLASSCACHE INITIALIZE(START) command (or the equivalent CEMT command) is required to start it. If the status of the shared class cache is STOPPED and autostart is disabled, and CICS receives a request to

run a Java application in a JVM whose profile requires the use of the shared class cache, the request fails.

Conditions

INVREQ

RESP2 values:

4 An invalid value was specified for AUTOSTARTST.

NOTAUTH

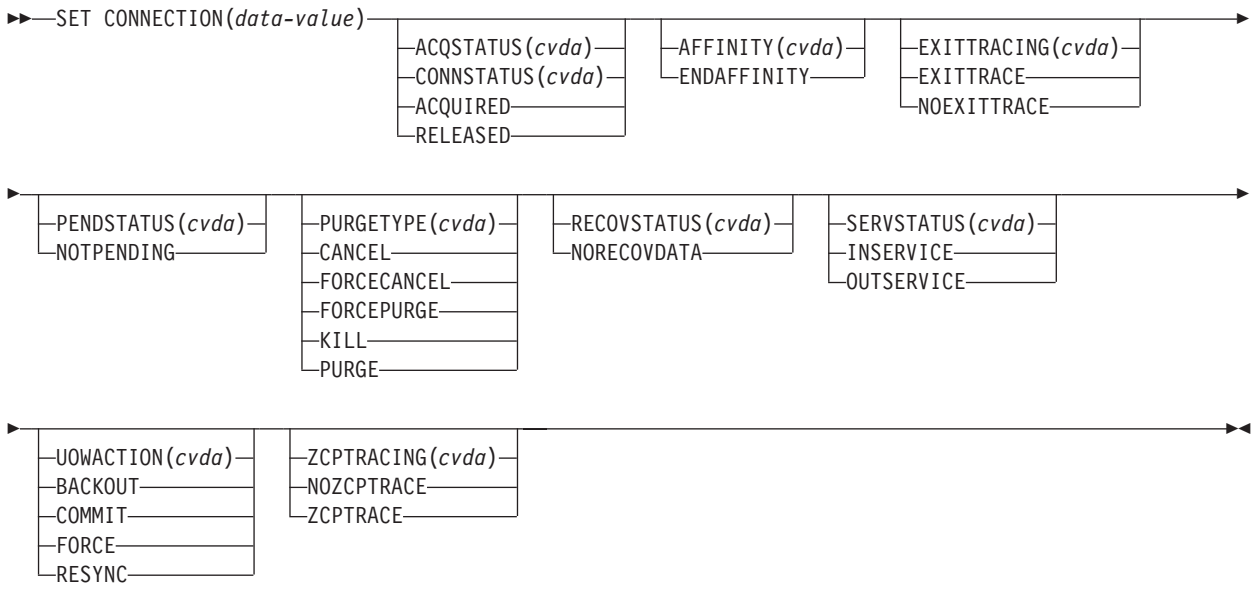
RESP2 value:

100 The user associated with the issuing task is not authorized to use this command.

SET CONNECTION

Change some connection attributes and cancel outstanding AIDs.

SET CONNECTION



Conditions: INVREQ, IOERR, NORMAL, NOTAUTH, SYSIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET CONNECTION command allows you to change some of the attributes that define a connection. Control returns to the issuing program when the required operation has been scheduled. To get the operation started, it is necessary to relinquish control to CICS.

There are two main types of system connection:

- Inter region communication (IRC) connections, which use the CICS interregion communication program (DFHIRP) to establish a connection between two MRO partners. An IRC connection can exist between two CICS regions on the same MVS image or within the same MVS/ESA sysplex.

  A special form of IRC connection, used by the external CICS interface (EXCI) can exist between a CICS region and a non-CICS client program running in MVS, for example an MVS batch or TSO program. An EXCI connection connects the client program to a CICS region running in the same MVS image or within the same MVS/ESA sysplex.
- Intersystem communication (ISC) connections, between CICS and any other system which supports VTAM APPC or LUTYPE6.1 communications. For example, ISC connections can exist between CICS regions running in different MVS/ESA sysplexes or on different operating system platforms, between CICS and any APPC device, and between CICS and IMS.

The process of acquiring and releasing APPC sessions involves starting the LU Services Manager transaction CLS1. In order to pass data to the CLS1 transaction, CICS uses a temporary storage queue with the default data identifier (dataid) prefix DF. If temporary storage dataids with the prefix DF are defined as recoverable in your installation, you must follow the SET CONNECTION command by a SYNCPOINT command to end the logical unit of work and allow the SET CONNECTION command to complete.

Options

ACQSTATUS(*cvda***) (APPC only)**
is retained only for compatibility purposes. You should use CONNSTATUS in new applications.

AFFINITY(*cvda***) (APPC and LU61 only)**
specifies, where CICS is a member of a VTAM generic resource group, that VTAM is to end an affinity owned by CICS. This option is valid only for APPC and LU6.1 connections. The connection must be out of service and, for APPC, in NORECOVDATA state.

The CVDA value is:

ENDAFFINITY
End the affinity.

Notes:

1. There is no facility in VTAM for inquiring on affinities, so CICS has no certain knowledge that an affinity exists for a given connection. Whenever there is a possibility that an affinity has been created that must be ended explicitly, CICS issues message DFHZC0177. This message gives the NETNAME and NETID of the suspect connection.
2. If a request to end an affinity is rejected by VTAM because no such affinity exists, CICS issues message DFHZC0181.
3. Generic resources and affinities are described in the *CICS Intercommunication Guide*.

CONNECTION(*data-value***)**
specifies, as a 4-character field, the APPC, IRC, or LUTYPE6.1 connection. This is the name of the remote system or region specified in the CONNECTION option of the CEDA DEFINE CONNECTION command.

CONNSTATUS(*cvda***) (APPC only)**
specifies whether to acquire or release sessions with the logical unit represented by the CONNECTION name. To get more detailed information about the availability status of the connection elements, use the INQUIRE MODENAME START, NEXT, and END commands. A connection cannot be both ACQUIRED and OUTSERVICE.

CVDA values are:

ACQUIRED
Sessions are to be acquired.

RELEASED
Sessions are to be released.

For further information about managing APPC connections, see the *CICS Intercommunication Guide*.

Note: CONNSTATUS is applicable to IRC connections for the INQUIRE CONNECTION command but not for the SET CONNECTION command. The CONNSTATUS of an MRO connection is controlled by setting the connection INSERVICE or OUTSERVICE using the SERVSTATUS CVDA.

EXITTRACING(*cvda***) (VTAM only)**
specifies whether to trace the activity associated with the terminal exit program for the sessions associated with this connection. CVDA values are:

EXITTRACE
The activity is to be traced.

NOEXITTRACE
The activity is not to be traced.

PENDSTATUS(*cvda***)(APPC and CICS-to-CICS MRO only)**
specifies, for either of the following kinds of connection, that the normal resynchronization process is to be overridden:

- A connection to a CICS Transaction Server for z/OS partner that has performed an initial start
- A connection to a pre-CICS Transaction Server for z/OS partner that has performed a cold start.

The CVDA value is:

NOTPENDING
Forces all in-doubt units of work (according to the transaction definition) that were created by the connection before the initial (or cold) start of the partner. It also forgets any resyncs (waitforget UOW-links) that are outstanding for the connection, and created before the initial (or cold) start of the partner.

The PENDING condition indicates the existence of recovery information (either shunted UOWs or decisions remembered for the partner) on a connection that has experienced a lognames mismatch with its partner. For a CICS Transaction Server for z/OS partner, a lognames mismatch indicates that the partner has performed an initial start. For a pre-CICS Transaction Server for z/OS partner, a lognames mismatch indicates that the partner has performed a cold start. In either case, the recovery protocol has been corrupted by a loss of log data at the partner.

It is not possible to set a connection to NOTPENDING state (forcing in-doubt and erasing NOFORGET UOWs) until this system has made contact with the partner and received a new logname from it.

Decisions for a whole connection can be forgotten, but that does not affect the memory of a decision for any other connection involved in the UOW.

Notes:

1. SET CONNECTION NOTPENDING, SET CONNECTION NORECOVDATA, and SET CONNECTION UOWACTION are mutually exclusive. For advice on which command to use, see the description of the UOWACTION option on page “SET CONNECTION options - SERVSTATUS” on page 484.
2. NOTPENDING has no effect on MRO connections to pre-CICS Transaction Server for z/OS systems. However, the cold start of a pre-CICS Transaction Server for z/OS MRO partner causes the SET CONNECTION NOTPENDING function to be performed automatically, session by session.

The exchange lognames function and the resynchronization function are described in the *CICS Intercommunication Guide* and the *Systems Network Architecture—LU6.2 Reference: Peer Protocols* manual.

PURGETYPE(*cvda***)**
specifies how associated transactions are to be purged. CVDA values are:

CANCEL
AIDs queuing for the specified connection are to be canceled.

AIDs representing scheduled and allocated requests waiting in the local CICS system for the specified connection are canceled. However, TD AIDs with an associated triggered task already started are not canceled. In addition, the following CICS system AIDs are not purged unless FORCECANCEL is specified.

Table 5. System AIDs requiring FORCECANCEL to remove them

Remote delete AIDs	
Remote scheduler AIDs	CRSR
LU6.2 service manager 1 AIDs	CLS1
LU6.2 service manager 3 AIDs	CLS3
Remote schedule PURGE AIDs	CRSQ
Resource manager resync AIDs	CRSY
Autoinstall terminal delete AIDs	CATD
Restart terminal delete AIDs	CATR

Message DFHTF0101 is written to CSMT to indicate how many AIDs have been deleted for the connection and how many remain.

When a canceled SCHEDULE request is found to have a precursor in a remote CICS system; that is, the AID was originally scheduled in a remote system, this remote AID is canceled asynchronously.

FORCECANCEL
All AIDs, including system AIDs, queuing for the specified connection are to be canceled. See Table 5 for a list of those system AIDS that require FORCECANCEL to remove them. This can lead to unpredictable results and should be used only in exceptional circumstances.

Note: FORCECANCEL does not remove transient data AIDs with an associated triggered task. These aids may be removed by purging the associated task.

FORCEPURGE
All transactions running on sessions on the connected system are immediately terminated abnormally. This can lead to unpredictable results and should be used only in exceptional circumstances.

In some extreme cases (for example, if an error occurs during backout processing), CICS might terminate abnormally.

For in-doubt and shunted UOWs, FORCEPURGE has no effect.

Note: To force shunted UOWs, the operator must issue SET CONNECTION COMMIT, BACKOUT, or FORCE following a

FORCEPURGE. This can lead to unpredictable results and should be used only in exceptional circumstances.

Kill The task is to be terminated. System and data integrity is not guaranteed. The KILL option extends the PURGE and FORCEPURGE options. It should be used only after an attempt has been made to PURGE or FORCEPURGE a task. The KILL option does not guarantee integrity of any kind but in some situations it allows the user to free up a stalled region enabling the region to continue processing. In some cases, for example, if a task is killed during backout processing, CICS terminates abnormally.

PURGE
Transactions running on the connected system are abnormally terminated. Transactions are terminated only if system and data integrity can be maintained. A transaction is not purged if its definition specifies SPURGE=NO, or if the UOW is shunted.

RECOVSTATUS(*cvda***) (APPC only)**
specifies that the normal resynchronization process is to be overridden. The CVDA value is:

NORECOVDATA
Forces all in-doubt units of work (according to the transaction definitions), targets any resyncs that were outstanding for the connection, and erases the logname previously received from the partner system. The state of the connection is reset.

Attention: You should use SET CONNECTION NORECOVDATA only in exceptional circumstances. It erases recovery information and may compromise data integrity for units of work that have updated resources on remote systems.

Examples of circumstances in which you might need to use it are:

- You need to discard a connection, or issue a SET CONNECTION ENDAFFINITY command, and it is not possible for the quiesce protocols with the partner system to be completed. (Neither action is possible for an APPC connection if recovery data is outstanding.)
- An operational or logic error results in a logname mismatch for the connection. The connection state must be reset to allow the exchange lognames process to complete.

Note: SET CONNECTION NORECOVDATA, SET CONNECTION NOTPENDING, and SET CONNECTION UOWACTION are mutually exclusive.

SERVSTATUS(*cvda***)**
specifies whether the system is to be placed in service or out of service. CVDA values are:

INSERVICE
The system is to be placed in service; that is, to be available for use.

For an MRO connection, all sessions are placed in service and the following occurs:

- If both the issuing system and the remote system have IRC open, and the remote system has INSERVICE connection definition for the issuing system, the connection is made ACQUIRED (see the note following the description of the CONNSTATUS option).

- Otherwise, the status of the connection is set INSERVICE so that the connection is acquired when the above conditions are met.
- The status of the underlying sessions for a connection is always the same as that for the connection itself.

For an EXCI connection, all receive sessions (or “pipes”) are placed in service and available for use by the client program.

For an ISC APPC connection, the LU Services Manager sessions are placed in service, thereby enabling the connection subsequently to be acquired.

For an ISC LU6.1 connection, all sessions are placed in service.

OUTSERVICE
The connection is to be placed out of service; that is, not available for use.

For a connection, all sessions are placed out of service (immediately if PURGE is specified, or when tasks have terminated if it is not) and the following occurs:

- If an APPC connection is currently ACQUIRED and you specify OUTSERVICE, the command fails with INVREQ and a RESP2 of 2. You must RELEASE the connection before setting OUTSERVICE.
- If any other connection is currently ACQUIRED, the sessions are broken (quiesced). The connection cannot be used until it is once again placed INSERVICE.
- If the connection is currently RELEASED, the status of the connection is set OUTSERVICE and it cannot be used until it is INSERVICE again.
- The status of the underlying sessions for a connection is always the same as that for the connection itself.

For an EXCI connection, all receive sessions (or “pipes”) are placed out of service and are not available for use by the client program.

For an ISC APPC system, this option is valid only if the connection is RELEASED. The LU Services Manager sessions are placed out of service, and the connection cannot be ACQUIRED until it is placed INSERVICE again.

For an ISC LU6.1 connection, all sessions are released and placed out of service: immediately if PURGE or FORCEPURGE is specified; or when tasks have terminated if neither PURGE nor FORCEPURGE is specified. If the response to an INQUIRE CONNECTION command shows OUTSERVICE, it does not imply that the connection has been explicitly set as SET OUTSERVICE; in particular circumstances, you cannot reinstall this connection.

UOWACTION(*cvda***) (APPC parallel-session, CICS-to-CICS MRO, and LU61 only)**
specifies that the normal resynchronization process is to be partially overridden: decisions are taken for any units of work that are in-doubt because of a failure of the connection; but the decisions are recorded and any data inconsistencies are reported when the connection is next acquired.

The operation is synchronous with setting the state of the UOW; that is, an INQUIRE UOW following a SET CONNECTION UOWACTION returns the new UOW states. CVDA values are:

BACKOUT
All UOWs shunted because of the failure of this connection are to be backed out.

COMMIT
All UOWs shunted because of the failure of this connection are to be committed.

FORCE
All UOWs shunted because of the failure of this connection are to be forced to BACKOUT or COMMIT, as specified on the ACTION option of the TRANSACTION definition.

RESYNC (MRO-to-CICS Transaction Server for z/OS and later systems, and APPC only)
Any UOWs shunted because of the failure of this connection are to be retried (that is, exchange lognames resynchronization for this connection is to be attempted). This process should normally be started automatically when a connection is acquired or when a UOW is unshunted.

Notes:

1. SET CONNECTION UOWACTION unshunts all units of work that have failed in-doubt because of a failure of the connection. Before issuing SET CONNECTION FORCE, you may want to use the SET UOW command to specify commit or backout for each in-doubt unit of work explicitly, rather than letting it default. Local procedures will determine the importance of the data and the method of using the INQUIRE UOW, INQUIRE UOWENQ, and INQUIRE UOWLINK commands to establish the correct actions.
2. As far as shunted units of work are concerned, you may use only one of SET CONNECTION UOWACTION, SET CONNECTION NOTPENDING, and SET CONNECTION NORECOVDATA. SET CONNECTION NORECOVDATA should be used only in exceptional circumstances.
3. To force all in-doubt units of work caused by a failure of the connection in the same direction, use SET CONNECTION COMMIT or SET CONNECTION BACKOUT.
4. Neither SET CONNECTION UOWACTION nor the SET UOW UOWACTION command clears resync information. If you want to do this, you must use SET CONNECTION NOTPENDING or SET CONNECTION NORECOVDATA.
5. You can issue SET UOW UOWACTION commands *before* issuing SET CONNECTION NOTPENDING or SET CONNECTION NORECOVDATA.

ZCPTRACING(*cvda***) (VTAM only)**
specifies whether the VTAM control component of CICS is to trace activity on the sessions associated with this connection. CVDA values are:

NOZCPTRACE
VTAM ZCP tracing is not to be carried out.

ZCPTRACE
VTAM ZCP tracing is to be carried out.

Conditions

INVREQ
RESP2 values:
1 ACQSTATUS|CONNSTATUS specified for a non-APPC connection.

2 ACQUIRED and OUTSERVICE are specified inconsistently in any of the following ways:
1. ACQUIRED specified with OUTSERVICE
2. ACQUIRED specified for OUTSERVICE connection
3. OUTSERVICE specified for ACQUIRED APPC connection.
4. RELEASED and OUTSERVICE specified in the same command for an ACQUIRED connection.

3 ACQSTATUS|CONNSTATUS has an invalid CVDA value.
4 SERVSTATUS has an invalid CVDA value.
5 PENDSTATUS or NOTPENDING was specified for a connection that is not APPC or IRC.
6 PURGE was specified for a connection that is not VTAM.
7 PURGETYPE has an invalid CVDA value.
8 PENDSTATUS has an invalid CVDA value.
11 SET command named a remote connection.
12 EXITTRACING has an invalid CVDA value.
13 ZCPTRACING has an invalid CVDA value.
14 EXITTRACING|ZCPTRACING specified for a non-VTAM connection or VTAM not initialized.
16 The resource whose name was specified by CONNECTION(*data-value*) is an indirect link.
17 ACQSTATUS|CONNSTATUS cannot be set when system initialized with ISC=NO.
18 NOTPENDING cannot be set for a connection which has successfully completed Exchange Lognames processing.
19 CONNSTATUS cannot be set to ACQUIRED when in the FREEING state.
20 COMMIT, BACKOUT, FORCE, or RESYNC is not valid for this type of connection.
21 BACKOUT or FORCE was specified, but was unsuccessful. Some UOWs remain shunted for this connection.
22 Other SET parameters were included with the CANCEL or FORCECANCEL option.
23 The resource whose name was specified by CONNECTION(name) is the local TCT system entry (TCTSE).
25 Connection is still in service.
26 RECOVSTATUS does not have a value of NORECOVDATA.
30 Wrong connection type for ENDAFFINITY. Affinities can exist only on LU6.1 and LU6.2 connections.
31 The NETID could not be obtained from the installed connection. Therefore, to end an affinity you must use the PERFORM ENDAFFINITY command.
32 See message DFHZC0178. VTAM could not end the affinity for a reason other than 35 (NOTFOUND) or 36 (SESSIONS ACTIVE).
35 VTAM could not find an affinity for this connection.
36 VTAM could not end the affinity because the connection had some sessions active.
37 See message DFHZC0176. A VTAM error prevented the CHANGE ENDAFFIN macro being carried out.
44 GRSTATUS is not set to REGISTERED or DEREGISTERED. (No generic resource name.)
45 NORECOVDATA cannot be set for a connection that is in service.
46 NORECOVDATA was specified for a non-APPC connection.

IOERR

RESP2 values:

10 Unexpected error.

NORMAL

RESP2 values:

58 AIDs are successfully canceled.

59 No AIDs are canceled.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SYSIDERR

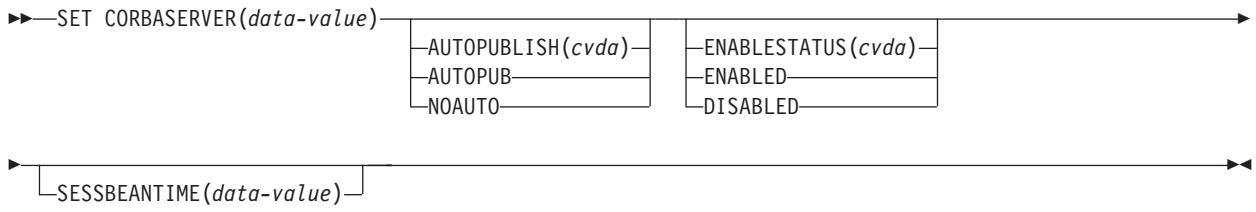
RESP2 values:

9 The named connection could not be found.

SET CORBASERVER

Set various attributes of a specified CorbaServer.

SET CORBASERVER



Conditions: INVREQ, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET CORBASERVER command allows you to:

- Enable or disable a CorbaServer
- Turn the CorbaServer’s automatic publishing feature on or off
- Set the session bean timeout value

Options

AUTOPUBLISH(*cvda*)
specifies whether the contents of a deployed JAR file should be automatically published to the namespace when the DJAR definition is successfully installed into this CorbaServer.

NOAUTO
The contents of the deployed JAR file will not be automatically published to the namespace.

AUTOPUB
The contents of the deployed JAR file will be automatically published to the namespace.

Changing the setting of AUTOPUBLISH affects only DJAR definitions installed after the SET CORBASERVER command is executed. It has no effect on previously-installed DJAR definitions.

CORBASERVER(*data-value*)
specifies the 4-character name of a CorbaServer.

ENABLESTATUS(*cvda*)
specifies whether to enable or disable the CorbaServer. CVDA values are:

DISABLED
The CorbaServer is to be disabled.

In a CICS region containing multiple CorbaServers, putting one of the CorbaServers into disabled state allows you to apply maintenance to it without bringing down CICS; the other CorbaServers remain available.

Similarly, in a logical EJB/CORBA server containing multiple AORs (each containing multiple CorbaServers), putting a CorbaServer on one of the AORs into disabled state allows you to apply maintenance to the CorbaServer without needing to remove the AOR from the routing set.

You can disable a CorbaServer that is in any state except ENABLING or DISCARDING. When you do so, any currently-executing methods are allowed to continue to completion. Until all its objects have been destroyed or passivated, the CorbaServer enters DISABLING state. Note that:

- Any instance of an enterprise bean or CORBA stateless object that is not participating in an OTS transaction is destroyed or passivated at the end of the currently-executing method.
- Any instance of an enterprise bean or CORBA stateless object that *is* participating in an OTS transaction is not destroyed or passivated until the end of the OTS transaction; typically, any future method calls against this instance (within the scope of the OTS transaction) will succeed. At the end of the OTS transaction, the instance is destroyed or passivated.

If the workload manager directs new work to an AOR in which the target CorbaServer is in DISABLING or DISABLED state, it is informed that the CorbaServer is disabled.

Note: By "new work" we mean:

- Requests for methods that will run under a new OTS transaction. (By a "new" OTS transaction we mean an OTS transaction in which none of the AORs in the logical server is already participating, prior to the method call; *not* necessarily an OTS transaction that is started immediately before or after the method call.)
- Requests for methods that will run under no OTS transaction.

ENABLED
The CorbaServer is to be enabled. You can enable a CorbaServer that is in any state except DISABLING or DISCARDING.

SESSBEANTIME(*data-area***)**
Fullword area containing the elapsed time period in minutes, in the range 0 through 143999 (99 days, 23 hours, 59 minutes), of inactivity after which a session bean may be discarded. A value of 0 indicates that beans are not timed out.

The new timeout value applies only to session beans created after the SESSBEANTIME value has been set. It does not affect existing session beans.

Conditions

INVREQ
RESP2 values
4 The specified session bean timeout value is invalid.
15 An attempt was made to enable or disable a CorbaServer that is in an invalid state.
21 Object store error.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND

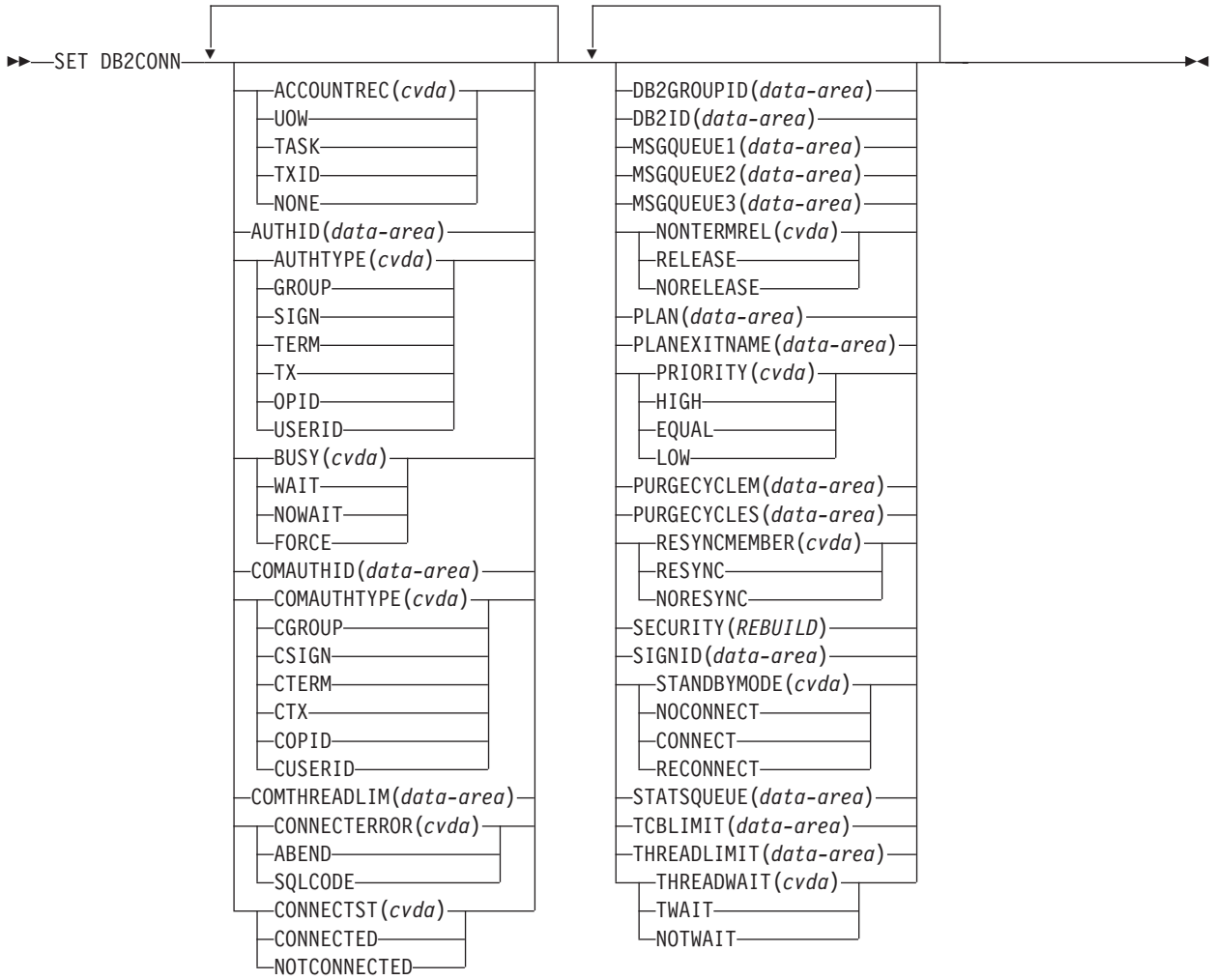
RESP2 values:

2 The specified CorbaServer was not found.

SET DB2CONN

Change information about the attributes of the CICS DB2 Connection.

SET DB2CONN



Conditions: NORMAL, NOTAUTH, NOTFND, INVREQ

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET DB2CONN command also specifies the attributes of the pool and command threads.

Note: This command cannot be used in a remote program that is linked by a distributed program link command.

Options

ACCOUNTREC
Specifies the minimum amount of DB2 accounting required for transactions using pool threads. The specified minimum may be exceeded as described in the following options. CVDA values are:

NONE No accounting records are required for transactions using pool threads.

DB2 produces at least one accounting record for each thread when the thread is terminated. Authorization changes additionally cause accounting records to be produced.

TXID The CICS DB2 attachment facility causes an accounting record to be produced when the transid using the thread changes.

Because pool threads are typically used by a number of different transaction IDs, there is an increased chance that a transaction containing multiple units of work (UOWs) will use a different thread for each UOW (assuming the thread is released at syncpoint). In this case an accounting record may be produced per UOW.

TASK The CICS DB2 attachment facility causes a minimum of one accounting record for each CICS task to be produced.

A transaction containing multiple UOWs (assuming the thread is released at syncpoint) may use a different thread for each of its UOWs. The result may be an accounting record produced for each UOW.

UOW The CICS DB2 attachment facility causes an accounting record to be produced for each UOW, assuming that the thread is released at the end of the UOW.

AUTHID
specifies what id should be used for security checking for pool threads. If AUTHID is specified, AUTHType may not be specified.

AUTHTYPE
specifies the type of ID that can be used for pool threads. If AUTHType is specified AUTHID may not be specified. CVDA values are:

GROUP
Specifies the 8-character USERID and the connected group name as the authorization ID. The following table shows how these two values are interpreted by DB2.

IDs passed to DB2	How DB2 interprets values
CICS sign-on user ID (USERID)	Represents the primary DB2 authorization ID.
RACF-connected group name	If the RACF list of group options is not active, DB2 uses the connected group name supplied by the CICS attachment facility as the secondary DB2 authorization ID. If the RACF list of group options is active, DB2 ignores the connected group name supplied by the CICS attachment facility, but the value appears in the DB2 list of secondary DB2 authorization IDs.

To use the GROUP option the CICS system must have SEC=YES specified in the CICS system initialization table (SIT).

If no RACF group ID is available for this USERID, an 8-character field of blanks is passed to DB2 as the group ID.

SIGN Specifies the SIGNID parameter of the DB2CONN should be used as the resource authorization ID.

TERM Specifies the terminal identification (four characters padded to eight) as an authorization ID. An authorization ID cannot be obtained in this manner if a terminal is not connected with the transaction.

If a transaction is started (using a CICS command) and has no terminal associated with it, AUTHTYPE(TERM) should not be used.

TX Specifies the transaction identification (four characters padded to eight) as the authorization ID.

OPID The operator identification associated with the userid that is associated with the CICS transaction is used as the authorization ID (three characters padded to eight).

USERID
The 8-character USERID associated with the CICS transaction is used as the authorization ID.

When the DB2 sample sign-on exit DSN3@.SGN is used with AUTHTYPE(USERID), the exit sends the user ID to DB2 as the primary authorization ID and the RACF group ID to DB2 as the secondary ID. When the sample sign-on exit is used, there is no difference between AUTHTYPE(USERID) and AUTHTYPE(GROUP).

BUSY
this parameter is valid only with CONNECTST when setting the CICS DB2 connection NOTCONNECTED. CVDA values are:

FORCE
similar to issuing DSNC STOP FORCE; that is, any CICS transactions currently using DB2 are abnormally terminated, and the CICS DB2 attachment facility is stopped. FORCE is mutually exclusive to WAIT and NOWAIT.

NOWAIT.
makes the request asynchronous in nature. Control is returned before the request is complete. NOWAIT is mutually exclusive to WAIT and FORCE.

WAIT The request is synchronous in nature. Control is only returned when the request is complete. WAIT is mutually exclusive to NOWAIT and FORCE.

Note that a SET DB2CONN NOTCONNECTED WAIT|NOWAIT is a quiesce stop of the CICS DB2 interface. The quiesce waits for existing transactions to finish before stopping the interface.

COMAUTHID
specifies which id should be used for security checking when using command threads. If COMAUTHid is specified, COMAUTHType may not be specified.

COMAUTHTYPE
specifies the type of id that can be used for security checking when using command threads. If COMAUTHType is specified, COMAUTHid may not be specified. CVDA values are:

CGROUP
Specifies the 8-character USERID and the connected group name as the authorization ID. The following table shows how these two values are interpreted by DB2.

IDs passed to DB2	How DB2 interprets values
CICS sign-on user ID (USERID)	Represents the primary DB2 authorization ID.
RACF-connected group name	If the RACF list of group options is not active, DB2 uses the connected group name supplied by the CICS attachment facility as the secondary DB2 authorization ID. If the RACF list of group options is active, DB2 ignores the connected group name supplied by the CICS attachment facility, but the value appears in the DB2 list of secondary DB2 authorization IDs.

To use the CGROUP option the CICS system must have SEC=YES specified in the CICS system initialization table (SIT).

If no RACF group ID is available for this USERID, an 8-character field of blanks is passed to DB2 as the group ID.

CSIGN
Specifies the SIGNID parameter of the DB2CONN should be used as the resource authorization ID.

CTERM
Specifies the terminal identification (four characters padded to eight) as an authorization ID. An authorization ID cannot be obtained in this manner if a terminal is not connected with the transaction.

If a transaction is started (using a CICS command) and has no terminal associated with it, the COMAUTHTYPE(TERM) should not be used.

CTX Specifies the transaction identification (four characters padded to eight) as the authorization ID.

COPID
The operator identification associated with the userid that is associated with the CICS transaction sign-on facility is used as the authorization ID (three characters padded to eight).

CUSERID
The 8-character userid associated with the CICS transaction is used as the authorization ID.

When the DB2 sample sign-on exit DSN3@.SGN is used with AUTHTYPE(USERID), the exit sends the USERID to DB2 as the primary authorization ID and the RACF group ID to DB2 as the secondary ID. When the sample sign-on exit is used, there is no difference between COMAUTHTYPE(CUSERID) and COMAUTHTYPE(CGROUP).

COMTHREADLIM
specifies the current maximum number of command threads that the CICS DB2 attachment allows active before requests overflow to the pool.

CONNECTERROR
returns how the fact that CICS is not connected to DB2 because the adaptor is in 'standby mode' is reported back to an application that has issued a SQL request. CVDA values are:

ABEND
The application is abended with abend code AEY9.

SQLCODE
The application receives a -923 SQLCODE.

CONNECTST
sets the status of the CICS DB2 connection; that is, to start or stop the CICS DB2 connection. CVDA values are:

CONNECTED
This is equivalent to issuing DSNC STRT to start the CICS DB2 attachment. If the requested DB2 subsystem is active, control returns when CICS and DB2 have been connected. If the requested DB2 subsystem is not active, the response returned is dependant on the setting of STANDBYMODE: If DB2 is not initialized, and STANDBYMODE(NOCONNECT) is specified on the DB2CONN, INVREQ and RESP2=39 is returned. If you specify STANDBYMODE(CONNECT) or STANDBYMODE(RECONNECT), NORMAL with RESP2=38 is returned indicating that the CICS DB2 attachment is in standby mode and will connect to DB2 as soon as it becomes active.

NOTCONNECTED
NOTCONNECTED with NOWAIT means initiate quiesce stop of the connection, but return control immediately. NOTCONNECTED WAIT means that control does not return to the application until the CICS DB2 attachment has been stopped. NOTCONNECTED FORCE force stops the connection by force purging transactions currently using DB2. Control is not returned until the connection is stopped.

DB2GROUPID
specifies the name (up to four characters) of a data sharing group of DB2 subsystems. CICS attempts to connect to any active member of this group, using group attach. DB2GROUPID can only be changed when CICS is not connected to a DB2 system. Specifying a DB2GROUPID causes the DB2ID in the installed DB2CONN definition to be blanked out. If an individual subsystem's DB2ID is specified in a CEMT or EXEC CICS SET DB2CONN command, or in a DSNC STRT command, this overrides any DB2GROUPID that is set in the installed DB2CONN definition. The DB2GROUPID is blanked out, and needs to be set again (using CEDA or a SET DB2CONN command) to use group attach. Also note that you cannot set a DB2GROUPID and a DB2ID in the same command — this causes the command to fail.

DB2ID
specifies the name of the DB2 subsystem that the CICS DB2 attachment should connect to. DB2ID can only be changed when CICS is not connected to a DB2 system. Specifying a DB2ID causes the DB2GROUPID in the installed DB2CONN definition to be blanked out, and the DB2GROUPID needs to be set again to use group attach. If a DB2GROUPID is specified in a CEMT or EXEC CICS SET DB2CONN command, this overrides any DB2ID that is set in the installed DB2CONN definition, and the DB2ID is blanked out. Also note that you cannot set a DB2ID and a DB2GROUPID in the same command — this causes the command to fail.

MSGQUEUE1
specifies the first transient data destination to which unsolicited messages from the CICS DB2 attachment are sent.

MSGQUEUE2
specifies the second transient data destination to which unsolicited messages from the CICS DB2 attachment are sent.

MSGQUEUE3
specifies the third transient data destination to which unsolicited messages from the CICS DB2 attachment are sent.

NONTERMREL
specifies whether or not non-terminal transactions release threads for reuse at intermediate syncpoints. CVDA values are:

RELEASE
non-terminal transactions release threads for reuse at intermediate syncpoints.

NORELEASE
non-terminal transactions do not release threads for reuse at intermediate syncpoints.

PLAN
specifies the name of the plan to be used for all threads in the pool. If PLAN is specified, PLANEXITNAME may not be specified.

PLANEXITNAME
specifies the name of the dynamic plan exit to be used for pool threads. If you change the PLAN and PLANExitname while there are active transactions for the pool, the next time the transaction releases the thread, the plan/exit is determined using the new rules. If PLANExitname is specified, PLAN may not be specified.

PRIORITY
specifies the priority of the pool thread TCBs relative to the CICS main TCB (QR TCB). If CICS is connected to DB2 Version 6 or later, the thread TCBs are CICS open L8 TCBs. If CICS is connected to DB2 Version 5 or earlier, the thread TCBs are private TCBs created by the CICS-DB2 Attachment Facility. CVDA values are:

HIGH Thread TCBs have a higher priority than the CICS QR TCB.

EQUAL
Thread TCBs have equal priority with the CICS QR TCB.

LOW Thread TCBs have a lower priority than the CICS QR TCB.

PURGECYCLEM
specifies in minutes the length of time of the protected thread purge cycle. The default is 0,30; that is, 30 seconds.

A protected thread is not terminated immediately when it is released. It is terminated only after two completed purge cycles, if it has not been reused in the meantime. Hence if the purge cycle is set to 30 seconds after it is released, a protected thread is purged 30 - 60 seconds after it is released. An unprotected thread is terminated when it is released (at syncpoint or end of task) if there are no other transactions waiting for a thread on that DB2ENTRY.

PURGECYCLES
specifies in seconds the length of time of the protected thread purge cycle. The default is 0,30; that is, 30 seconds.

A protected thread is not terminated immediately when it is released. It is terminated only after two completed purge cycles, if it has not been reused in the meantime. Hence if the purge cycle is set to 30 seconds after it is released, a protected thread is purged 30 - 60 seconds after it is released. An unprotected thread is terminated when it is released (at syncpoint or end of task) if there are no other transactions waiting for a thread on that DB2ENTRY.

RESYNCMEMBER
This applies only if you are using group attach, and specifies the strategy that CICS adopts if outstanding units of work are being held for the last DB2 data sharing group member to which CICS was connected. (Units of work which are shunted indoubt are not included in this process, because CICS itself is unable to resolve those units of work at this time. Resynchronization for those UOWs will occur when CICS has resynchronized with its remote coordinator.) CVDA values are:

RESYNC
CICS connects to the same DB2 data sharing group member to resynchronize the outstanding units of work.

NORESYNC
CICS makes one attempt to connect to the same DB2 data sharing group member, and if that attempt fails, CICS connects to any member of the DB2 data sharing group and issues a warning about the outstanding units of work.

SECURITY(REBUILD)
specifies that the CICS DB2 attachment should force all existing threads to signon again at the next thread reuse. It should be used when RACF profiles have been updated by issuing the following commands:
- CEMT PERFORM SECURITY REBUILD for RACF 1.9.2 or earlier
- TSO SETROP TS RACLIST(xxxxxxxx) REFRESH for RACF 2.1 or later

SIGNID
specifies the authorization ID to be used by the CICS DB2 attachment when signing on to DB2 for pool and DB2ENTRY threads specifying AUTHTYPE(SIGN), and command threads specifying COMAUTHTYPE(CSIGN).

STANDBYMODE
specifies the action to be taken by the CICS DB2 attachment if DB2 is not active when an attempt is made to start the connection from CICS to DB2. CVDA values are:

NOCONNECT
The CICS DB2 attachment should terminate.

CONNECT
The CICS DB2 attachment goes into 'standby mode' to wait for DB2.

RECONNECT
The CICS DB2 attachment goes into 'standby mode' and waits for DB2. Having connected to DB2, if DB2 subsequently fails the CICS DB2 attachment reverts again to standby mode and subsequently reconnects to DB2 when it comes up again.

STATSQUEUE
specifies the transient data destination for CICS DB2 attachment statistics produced when the CICS DB2 attachment is shutdown.

TCBLIMIT
specifies the maximum number of TCBs that can be used to process DB2 requests. When connected to DB2 Version 5 or earlier, the CICS DB2 attachment facility creates the TCBs in the form of subtasks up to the limit specified by TCBLIMIT. Each of these subtasks identifies to DB2 and creates a connection into DB2. When connected to DB2 Version 6 or later, CICS creates open TCBs (up to the limit specified in the system initialization parameter MAXOPENTCBS). The TCBLIMIT attribute of the DB2CONN definition governs

how many of the open TCBs can be used to access DB2 — that is, how many of them can identify to DB2 and create a connection into DB2.

THREADLIMIT
specifies the current maximum number of pool threads the CICS DB2 attachment allows active before requests are made to wait or are rejected according to the THREADWait parameter.

THREADWAIT
specifies whether or not transactions should wait for a pool thread or be abended if the number of active pool threads reach the THREADLIMIT number.

The CICS DB2 attachment issues a unique abend code AD3T, and message DFHDB2011 when THREADWAIT=NO is coded and the number of pool threads is exceeded. CVDA values are:

TWAIT
If all threads are busy, a transaction must wait until one becomes available. A transaction can wait as long as CICS allows it to wait, generally until a thread becomes available.

NOTWAIT
If all threads are busy the transaction is terminated with an abend code AD3T.

Notes:

1. When you change the value of AUTHID, AUTHTYPE, COMAUTHID, COMAUTHTYPE or SIGNID, a surrogate user security check is invoked if security is active. This ensures that the userid under which SET is being executed is authorized to act on behalf of the userid being set.
2. When the SET DB2CONN command is specified all parameters except DB2ID (the connected subsystem) and DB2GROUPID (the group of data sharing DB2 subsytems of which the connected subsystem is a member) can be set when the CICS DB2 attachment is active. *DB2ID and DB2GROUPID can only be changed by stopping and restarting the attachment*.
3. If you change the PLAN and PLANEXITNAME while there are active transactions for that entry, or the pool, the next time the transaction releases the thread, the plan/exit is determined using the new rules.

Conditions

NORMAL
RESP2 values:
38 Waiting for DB2 (this may occur following a CONNECTST with a CVDA of CONNECT)
55 Temporarily connected to a DB2 restart-light member for resynchronization purposes only

NOTAUTH
The user associated with the issuing task is not authorized to use this command, or is not authorized to access this resource.

RESP2 values:
100 Command authorization failure
102 Surrogate authorization failure
103 Authtype authorization failure

NOTFND
RESP2 values:
1 There is no DB2CONN currently installed .

INVREQ

RESP2 values:

1 Invalid ACCOUNTREC value
2 Invalid AUTHTYPE value
3 Invalid BUSY value
4 Invalid COMAUTHTYPE value
5 Invalid CONNECTERROR value
6 Invalid CONNECTST value
7 Invalid NONTERMREL value
9 Invalid PRIORITY value
10 Invalid SECURITY value
11 Invalid STANDBYMODE value
12 Invalid THREADWAIT value
13 Bad characters in AUTHID
14 Bad characters in COMAUTHID
15 Bad characters in DB2ID
16 Bad characters in MSGQUEUE1
17 Bad characters in MSGQUEUE2
18 Bad characters in MSGQUEUE3
19 Bad characters in PLAN
20 Bad characters in PLANEXITNAME
21 Bad characters in SIGNID
22 Bad characters in STATSQUEUE
23 Both AUTHID and AUTHTYPE specified
24 Both COMAUTHID and COMAUTHTYPE specified
25 STANDBYMODE(NOCONNECT) and CONNECTERROR(SQLCODE) specified or CONNECTERROR(SQLCODE) specified when STANDBYMODE is NOCONNECT.
26 Both PLAN and PLANEXITNAME specified.
27 Invalid ACCOUNTREC value
28 COMTHREADLIM exceeds TCBLIMIT or COMTHREADLIM > 2000 or COMTHREADLIM < 0
29 Purge cycle too low; that is, < 30 seconds
- or Purge cyclDATAe minutes < 0
- or Purge cycle seconds < 0
- or Purge cycle minutes > 59
- or Purge cycle seconds > 59

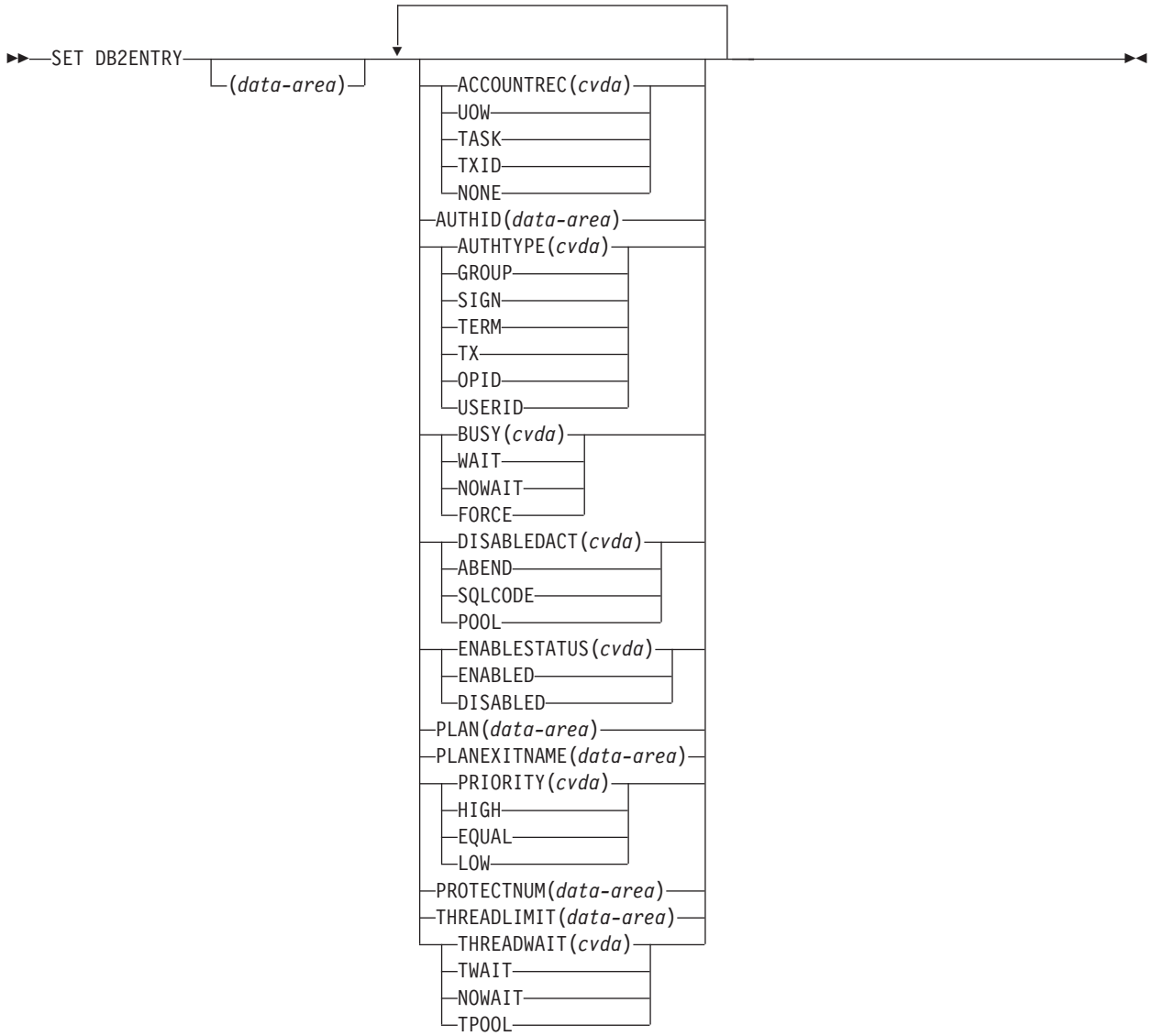
32 Tcblimit > 2000 or Tcblimit < 4
33 Threadlimit exceeds tcblimit or Threadlimit > 2000 or Threadlimit < 3
34 Already connected
39 DB2 not active
40 Insufficient authorization
41 Connection error
42 Invalid init parms
43 DB2ID cannot be set, connection active
44 DB2CONN partially discarded
46 SET NOTCONNECTED when the FORCE or WAIT option has been specified, but this transaction is itself using the CICS DB2 interface.
47 Bad characters in DB2GROUPID
48 Both DB2ID and DB2GROUPID specified
49 DB2GROUPID cannot be set, connection active
50 DB2 module DSNAPRH cannot be found
51 TCBLIMIT > MAXOPENTCBS (when connected to DB2 Version 6 or later)
52 DB2GROUPID not found
53 DB2ID not found

54 Invalid RESYNCMEMBER option

SET DB2ENTRY

Sets the attributes of a particular DB2ENTRY used to define resources to be used by a specific transaction or by a group of transactions when accessing DB2.

SET DB2ENTRY



Conditions: NOTAUTH, NOTFND, INVREQ

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The entry is identified by the name it was defined with in CEDA. For RCTs migrated to the CSD, the name is the name of the first transaction on the DSNCRCT TYPE=ENTRY statement.

Options

ACCOUNTREC
Specifies the minimum amount of DB2 accounting required for transactions using pool threads. The specified minimum may be exceeded as described in the following options. CVDA values are:

NONE No accounting records are required for transactions using pool threads.

DB2 produces at least one accounting record for each thread when the thread is terminated. Authorization changes additionally cause accounting records to be produced.

TXID The CICS DB2 attachment facility causes an accounting record to be produced when the transid using the thread changes.

Because pool threads are typically used by a number of different transaction IDs, there is an increased chance that a transaction containing multiple units of work (UOWs) will use a different thread for each UOW (assuming the thread is released at syncpoint). In this case an accounting record may be produced per UOW.

TASK The CICS DB2 attachment facility causes a minimum of one accounting record for each CICS task to be produced.

A transaction containing multiple UOWs (assuming the thread is released at syncpoint) may use a different thread for each of its UOWs. The result may be an accounting record produced for each UOW.

UOW The CICS DB2 attachment facility causes an accounting record to be produced for each UOW, assuming that the thread is released at the end of the UOW.

AUTHID
specifies the id to be used for security checking when using this DB2ENTRY. If AUTHId is specified, AUTHTYpe may not be specified.

AUTHTYPE
returns the type of id that can be used for security checking when using this DB2ENTRY. If AUTHTYpe is specified, AUTHid may not be specified. CVDA values are:

GROUP
Specifies the 8-character USERID and the connected group name as the authorization ID. The following table shows how these two values are interpreted by DB2.

IDs passed to DB2	How DB2 interprets values
CICS sign-on user ID (USERID)	Represents the primary DB2 authorization ID.

IDs passed to DB2	How DB2 interprets values
RACF-connected group name	If the RACF list of group options is not active, DB2 uses the connected group name supplied by the CICS attachment facility as the secondary DB2 authorization ID. If the RACF list of group options is active, DB2 ignores the connected group name supplied by the CICS attachment facility, but the value appears in the DB2 list of secondary DB2 authorization IDs.

To use the GROUP option the CICS system must have RACF external security SEC=YES specified in the CICS system initialization table (SIT).

If no RACF group ID is available for this USERID, an 8-character field of blanks is passed to DB2 as the group ID.

SIGN Specifies the SIGNID parameter of the DB2CONN should be used as the resource authorization ID.

TERM Specifies the terminal identification (four characters padded to eight) as an authorization ID. An authorization ID cannot be obtained in this manner if a terminal is not connected with the transaction.

If a transaction is started (using a CICS command) and has no terminal associated with it, AUTHTYPE(TERM) should not be used.

TX Specifies the transaction identification (four characters padded to eight) as the authorization ID.

OPID The operator identification associated with the CICS transaction is used as the authorization ID (three characters padded to eight).

USERID
The 8-character USERID associated with the CICS transaction is used as the authorization ID.

When the DB2 sample sign-on exit DSN3@.SGN is used with AUTHTYPE(USERID), the exit sends the user ID to DB2 as the primary authorization ID and the RACF group ID to DB2 as the secondary ID. When the sample sign-on exit is used, there is no difference between AUTHTYPE(USERID) and AUTHTYPE(GROUP).

BUSY(Cvda)
specifies what CICS is to do if a SET DB2ENTRY DISABLED is issued and the entry is busy when the set command is issued. CVDA values are:

WAIT CICS must wait for all activity on the DB2ENTRY to be quiesced before setting the DB2ENTRY disabled. CICS then returns control to the application.

Note that when a DB2ENTRY is quiescing, all existing transactions are allowed to complete. Transactions already queued against the entry are also allowed to complete. New transactions that try to access the DB2ENTRY are routed to the POOL, or abended, or sent a SQLCODE depending on the setting of DISABLEDACT.

NOWAIT
is the same as WAIT except that control returns to the application as soon as the SET DISABLED request is queued.

FORCE
all tasks using the DB2ENTRY, and those queued against the DB2ENTRY are forcepurged. The DB2ENTRY is then DISABLED and control returns to the application.

DISABLEDACT
specifies what CICS is to do with new transactions that access a DB2ENTRY when it has been disabled or disabling. CVDA values are:

POOL The CICS DB2 attachment facility routes the request to the pool. Message DFHDB2072 is sent to the transient data destination specified by MSGQUEUEn on the DB2CONN for each transaction routed to the pool.

ABEND
The CICS DB2 attachment facility abends the transaction.The abend code is AD26.

SQLCODE
An SQLCODE is returned to the application indicating that the DB2ENTRY is disabled.

ENABLESTATUS(cvda)
specifies whether the DB2ENTRY can be accessed by applications. CVDA values are:

ENABLED
The DB2ENTRY can be accessed by applications.

DISABLED
The DB2ENTRY cannot be accessed by applications. A DB2ENTRY has to be disabled before it can be reinstalled or discarded.

PLAN
specifies the name of the plan to be used for this DB2ENTRY.

If PLAN is specified, PLANEXITNAME cannot be specified.

PLANEXITNAME
specifies the name of the dynamic plan exit to be used for this DB2ENTRY. If you change the PLAN and PLANExitname while there are active transactions for the DB2ENTRY the next time the transaction releases the thread, the plan/exit is determined using the new rules. If PLANExitname is specified, PLAN cannot be specified.

PRIORITY
specifies the priority of the thread TCBs for this DB2ENTRY relative to the CICS main TCB (QR TCB). If CICS is connected to DB2 Version 6 or later, the thread TCBs are CICS open L8 TCBs. If CICS is connected to DB2 Version 5 or earlier, the thread TCBs are private TCBs created by the CICS-DB2 Attachment Facility. CVDA values are:

HIGH Thread TCBs have a higher priority than the CICS QR TCB.

EQUAL
Thread TCBs have equal priority with the CICS QR TCB.

LOW Thread TCBs have a lower priority than the CICS QR TCB.

PROTECTNUM
specifies the maximum number of protected threads for this DB2ENTRY.

THREADLIMIT
specifies the maximum number of threads for this DB2ENTRY that the CICS DB2 attachment allows active before requests are made to wait or are rejected.

THREADWAIT
specifies whether or not transactions should wait for a DB2ENTRY thread, be abended, or overflow to the pool should the number of active DB2ENTRY threads reach the THREADLimit number. CVDA values are:

TWAIT
If all threads are busy, a transaction waits until one becomes available.

NOTWAIT
If any threads are busy, a transaction is terminated with an abend code AD2P.

TPOOL
If all threads are busy, the transaction is diverted to use the pool of threads. If the pool is also busy, and NOTWAIT has been specified for the THREADWAIT parameter on the DB2CONN. The transaction is terminated with abend code AD3T.

Notes:

1. When you change the value of AUTHId or AUTHType, a surrogate user security check is invoked if security is active. This ensures that the userid under which SET is being executed is authorized to act on behalf of the userid being set.
2. All parameters on SET DB2ENTRY can be set whilst the CICS DB2 attachment is active and the transactions are active.

Conditions

NOTAUTH
The user associated with the issuing task is not authorized to use this command, or is not authorized to access this resource.

RESP2 values:
100 Command authorization failure
101 Resource authorization failure
102 Surrogate authorization failure
103 Authtype authorization failure

NOTFND
RESP2 values:
1 There is no DB2ENTRY currently installed with the specified name.

INVREQ
RESP2 values:
2 Invalid action value
3 Invalid Authtype value
4 Invalid busy value
5 Invalid enablestatus value
7 Invalid priority value
8 Invalid Threadwait value
9 Bad characters in Authid
10 Bad characters in Plan
11 Bad characters in Planexitname
12 Both Authid and Authtype specified
13 Both Plan and Planexitname specified
14 Entry is disabling

15 Protectnum greater than Threadlimit or protectnum < 0 or protectnum > 2000
16 Threadwait must be tpool with Threadlimit=0
17 Threadlimit > 2000 or Threadlimit < 0 or Threadlimit > TCBLIMIT
18 Invalid Accountrec value
19 SET DISABLED when the FORCE or WAIT option has been specified, but this transaction is itself using the DB2ENTRY.

SET DB2TRAN

Sets the attributes of a particular DB2TRAN associated with a DB2ENTRY.

SET DB2TRAN

Conditions: NOTAUTH, NOTFND, INVREQ

This command is threadsafe.

Description

The DB2TRAN is identified by the name it was defined with in CEDA. For RCTs migrated to the CSD, the name matches the name of the transaction for which the DB2TRAN is being created.

If a transid is specified on a DB2ENTRY when the DB2ENTRY is installed, CICS installs a DB2TRAN named DFHxxxx, where xxxx is the transid.

Options

DB2ENTRY
specifies the name of the DB2ENTRY to which this DB2TRAN refers; that is, the DB2ENTRY with which this additional transid should be associated.

TRANSID
specifies the transaction id to be associated with the entry. You cannot have more than one installed DB2TRAN for the same transaction id. If you specify a transaction id that matches a transaction id specified in an existing installed DB2TRAN, the command will fail. The transaction id can include wildcard characters (see the *CICS Resource Definition Guide* for information about use of wildcard characters). If you change TRANSID for a DB2TRAN while the attachment is active, all transactions with a thread continue to use the thread from that entry until it is released for reuse. When that transaction issues the next SQL statement, the thread is acquired from the entry or pool based upon the new definition.

DB2TRAN parameters may be set at any time.

Conditions

NOTAUTH
The user associated with the issuing task is not authorized to use this command, or is not authorized to access this resource.

RESP2 values:
100 Command authorization failure
101 Resource authorization failure
102 Surrogate authorization failure

103 Authtype authorization failure

NOTFND

RESP2 values:

1 There is no DB2TRAN currently installed with the specified name.

INVREQ

RESP2 values:

2 Bad characters in TRANSID name

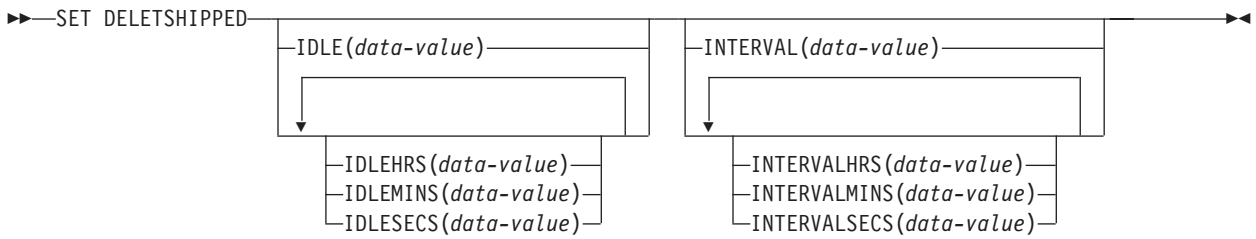
3 Transid already exists in another installed DB2TRAN

4 Bad characters in DB2ENTRY name

SET DELETSHIPPED

Change the system settings that control automatic deletion of shipped terminal definitions.

SET DELETSHIPPED



Conditions: INVREQ, NOTAUTH

Description

The SET DELETSHIPPED command allows you to change values that control the timeout mechanism that CICS provides for deleting definitions of shipped terminals that are inactive. A shipped definition is inactive if the terminal has not been used locally for a specified period of time and no task that requires the terminal is waiting to be attached. For more information about shipped definitions, see the *CICS Intercommunication Guide* and the *CICS Resource Definition Guide*.

You can change both the length of time a shipped terminal must remain inactive before being eligible for deletion (IDLE time), and the interval at which CICS checks for such terminals (the INTERVAL). Time values can be expressed in several different ways:

- A 4-byte packed decimal composite, in the format *0hhmmss+*, where the hours (*hh*) are in the range 0–99, and minutes (*mm*) and seconds (*ss*) are both from 0–59. Use the IDLE and INTERVAL options for this format.
- With separate values for hours, minutes, and seconds. Use IDLEHRS, IDLEMINS, and IDLESECS instead of IDLE for this format, and INTERVALHRS, INTERVALMINS, and INTERVALSECS instead of INTERVAL. You can use any combination of hours, minutes, and seconds. If you use only one, the time value must be *less* than 100 hours, so that the range for hours is 0-99, the range for minutes is 0-5999, and the range for seconds is 0-359999. If you use two or three, the range is the same for hours, but minutes and seconds must both be in the range 0-59.

For example, to specify an IDLE time of 1 hour and 15 minutes, you could use any of the following:

IDLE(011500)
IDLEHRS(1) IDLEMINS(15)
IDLEMINS(75)
IDLESECS(4500).

Options

IDLE(*data-value***)**
specifies the idle time, as a 4-byte packed decimal value in the form "*0hhmmss+*". Idle time is the minimum time that a terminal must be inactive to be eligible for deletion.

See the notes at the beginning of this command description for the range of values allowed.

IDLEHRS(*data-value***)**
specifies, as a fullword binary value, the idle time in hours (when used alone) or the hours component of the idle time (when used with IDLEMINS or IDLESECS). See the IDLE option.

IDLEMINS(*data-value***)**
specifies, as a fullword binary value, the idle time in minutes (when used alone) or the minutes component of the idle time (when used with IDLEHRS or IDLESECS). See the IDLE option.

IDLESECS(*data-value***)**
specifies, as a fullword binary value, the idle time in seconds (when used alone) or the seconds component of the idle time (when used with IDLEHRS or IDLEMINS). See the IDLE option.

INTERVAL(*data-value***)**
specifies, as a 4-byte packed decimal value in the form "*0hhmmss+*", the interval between invocations of the timeout delete mechanism.

When you change the checking interval, the next interval is measured from *the time the command is issued*, **not** from the previous invocation or CICS startup. If you want immediate deletion, use the PERFORM DELETSHIPPED command, described on page "PERFORM DELETSHIPPED" on page 450.

See the notes at the beginning of this command description for the range of values allowed.

INTERVALHRS(*data-value***)**
specifies, as a fullword binary value, the invocation interval in hours (when used alone) or the hours component of the interval (when used with IDLEMINS or IDLESECS). See the INTERVAL option.

INTERVALMINS(*data-value***)**
specifies, as a fullword binary value, the invocation interval in minutes (when used alone) or the minutes component of the interval (when used with INTERVALHRS or INTERVALSECS). See the INTERVAL option.

INTERVALSECS(*data-value***)**
specifies, as a fullword binary value, the invocation interval in seconds (when used alone) or the seconds component of the interval (when used with INTERVALHRS or INTERVALMINS). See the INTERVAL option.

Conditions

INVREQ
RESP2 values:

1	The INTERVAL value is invalid.
2	The INTERVALHRS value is not in the range 0-99.
3	The INTERVALMINS value is invalid.
4	The INTERVALSECS value is invalid.
5	The IDLE value is invalid.

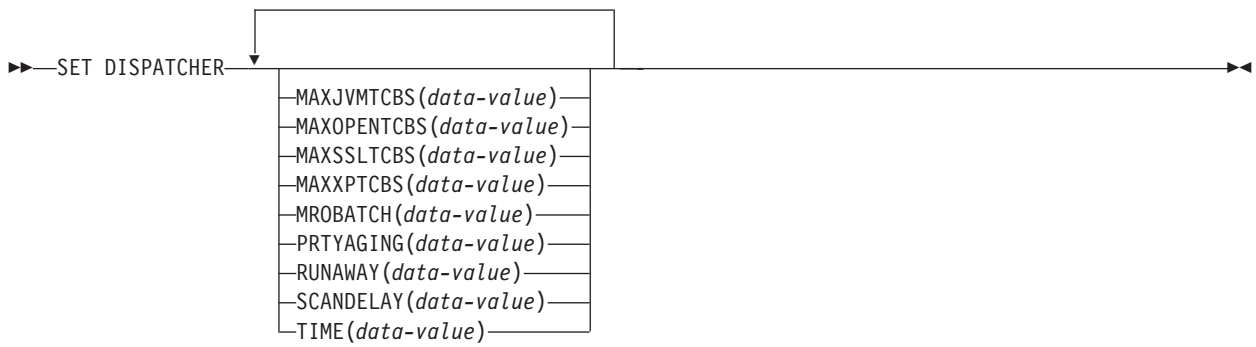
6 The IDLEHRS value is not in the range 0-99.
7 The IDLEMINS value is invalid.
8 The IDLESECS value is invalid.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SET DISPATCHER

Change CICS dispatcher system information.

SET DISPATCHER



Conditions: INVREQ, NOTAUTH,

Description

The SET DISPATCHER command allows you to change the values of some of the options that CICS dispatcher domain uses for task and TCB management.

These values are set initially by system initialization parameters, described in the *CICS System Definition Guide*. System initialization parameters that correspond to those in this command have the same or similar names. Table 3 on page 318 lists the exact correspondence.

Options

MAXJVMTCBS(*data-value***)**
specifies, as a fullword binary value, the maximum number of J8 and J9 mode open TCBs that can exist concurrently in the CICS region. The value specified can be in the range 1 to 999. Within this limit, there are no constraints on how many of the TCBs in the JVM pool are J8 TCBs, and how many are J9 TCBs.

If you reduce MAXJVMTCBS from its previously defined value, and the new value is less than the number of open TCBs currently allocated, CICS detaches TCBs to achieve the new limit only when they are freed by user tasks. Transactions are not abended to allow TCBs to be detached to achieve the new limit.

If there are tasks queued waiting for a J8 or J9 mode TCB and you increase MAXJVMTCBS from its previously defined value, CICS attaches a new TCB to resume each queued task, up to the new limit.

MAXOPENTCBS(*data-value***)**
specifies, as a fullword binary value, the maximum number of L8 and L9 mode open TCBs that can exist concurrently in the CICS region. The value specified can be in the range 1 to 2000.

If you reduce MAXOPENTCBS from its previously defined value, and the new value is less than the number of open TCBs currently allocated, CICS detaches

TCBs to achieve the new limit only when they are freed by user tasks. Transactions are not abended to allow TCBs to be detached to achieve the new limit.

If there are tasks queued waiting for an L8 or an L9 mode TCB, and you increase MAXOPENTCBS from its previously defined value, CICS attaches a new TCB to resume each queued task, up to the new limit.

MAXSSLTCBS(*data-value***)**
specifies, as a fullword binary value, the maximum number of S8 mode open TCBs that can exist concurrently in the CICS region. The value specified can be in the range of 1 to 1024.

MAXXPTCBS(*data-value***)**
specifies, as a fullword binary value, the maximum number of X8 and X9 mode open TCBs that can exist concurrently in the CICS region. The value specified can be in the range 1 to 999.

If you reduce MAXXPTCBS from its previously defined value, and the new value is less than the number of open TCBs currently allocated, CICS detaches TCBs to achieve the new limit only when they are freed by user tasks. Transactions are not abended to allow TCBs to be detached to achieve the new limit.

If there are tasks queued waiting for an X8 or an X9 mode TCB, and you increase MAXXPTCBS from its previously defined value, CICS attaches a new TCB to resume each queued task, up to the new limit.

MROBATCH(*data-value***)**
specifies, as a fullword binary value, the number of events that must occur, from a list of MRO and DASD I/O events on which CICS is waiting, before CICS is posted explicitly to process them. The value must be in the range 1–255.

PRTYAGING(*data-value***)**
specifies, as a fullword binary value, the rate at which CICS is to increase the priority of a task waiting for dispatch. CICS increases the task priority by 1 after each PRTYAGING milliseconds of wait time without a dispatch. The value must be in the range 0–65535.

RUNAWAY(*data-value***)**
specifies, as a fullword binary value, the default for runaway task time. This global value for the CICS region is used for any task executing a transaction that does not specify an explicit runaway task time.

The value must be either zero, which means that runaway task detection is not required for tasks using the default value, or in the range 500–2700000. The value you supply is rounded down to the nearest multiple of 500.

SCANDELAY(*data-value***)**
specifies, as a fullword binary value, the maximum number of milliseconds between a user task making a terminal I/O request and CICS dispatching the terminal control task to process it. This value is sometimes called the “terminal scan delay”, and is set initially by the system initialization option ICVTSD. The value must be in the range 0–5000.

TIME(*data-value***)**
specifies, as a fullword binary value, the maximum interval in milliseconds for which CICS gives control to the operating system if no tasks are ready for dispatch. This value is set initially by the ICV system initialization option and is sometimes called the “region exit time interval”. The TIME value must be in the range 100–3600000 and must not be less than the SCANDELAY value. You

can determine the current SCANDELAY value, if you are not setting it at the same time, with the INQUIRE DISPATCHER SCANDELAY command.

Conditions

INVREQ

RESP2 values:

5 TIME is not in the range 100–3600000.

6 The RUNAWAY value is out of range.

7 MROBATCH is not in the range 1–255.

13 TIME is less than SCANDELAY.

14 PRTYAGING is not in the range 0–65535.

15 SCANDELAY is not in the range 0–5000.

26 The MAXOPENTCBS value is less than the TCBLIMIT on the DB2CONN resource definition (when CICS is connected to DB2 Version 6 or later).

27 The MAXOPENTCBS value is out of range.

28 The MAXJVMTCBS value is out of range.

30 The MAXSSLTCBS value is out of range.

31 The MAXXPTCBS value is out of range.

NOTAUTH

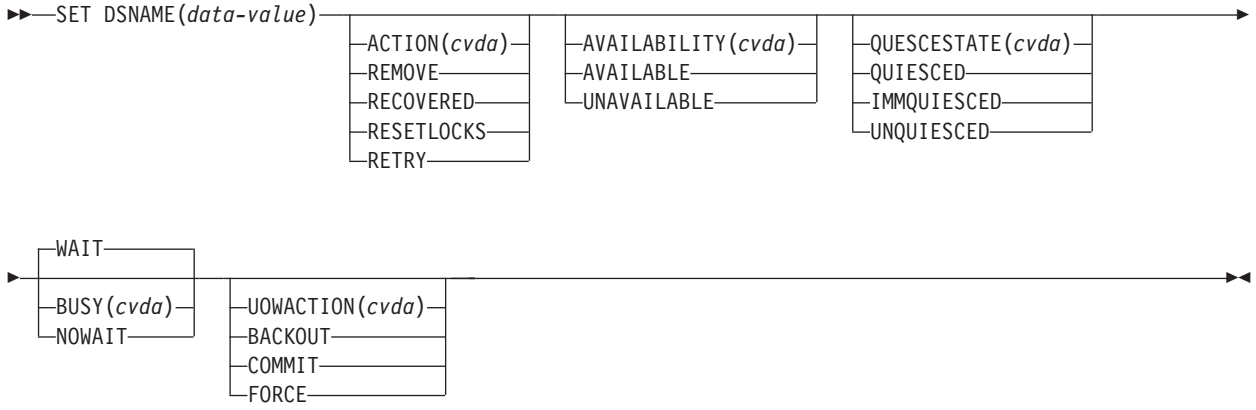
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SET DSNAME

Change information relating to an external data set, including actions that apply to all UOWs that access this dataset.

SET DSNAME



Conditions: DSNNOTFOUND, INVREQ, IOERR, NOTAUTH, SUPPRESSED

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

With the SET DSNAME command, you can:

- Tell CICS that a data set is no longer required on the local system.
- Set the “backup while open” (BWO) attributes of the data set to the ‘forward recovered’ state by updating the ICF catalog. This indicates that a forward recovery has taken place.
- Mark a VSAM data set as quiesced, or unquiesced, throughout the sysplex.
- Make a VSAM data set available or unavailable to a CICS region. (The availability function does not operate across the sysplex—a SET DSNAME (...) AVAILABILITY(...) command is effective only within the CICS region in which it is issued.)
- Retry all UOW log records that are shunted due to the failures of this data set (other than in-doubt failures).
- Force any UOWs that are shunted due to in-doubt failures, and which have updated this data set, to complete.
- Purge shunted UOW log records that hold retained locks (other than those due to in-doubt failures) for any records in the data set, and release the retained locks,
- Cancel any attempt to recover lost RLS locks for the data set, using the UOWACTION and ACTION(RESETLOCKS) options.

For information about shunted UOW log records, see the *CICS Recovery and Restart Guide*.

The options and CVDAs for the SET DSNAME command are subject to the following rules relating to the order of processing and the combinations of keywords and multiple keywords on the same command:

- If REMOVE is specified, no other attribute is allowed.
- Options are processed in the following order:
  1. RECOVERED
  2. UNQUIESCED
  3. AVAILABLE
  4. RETRY
  5. UOWACTION
  6. RESETLOCKS
  7. UNAVAILABLE
  8. QUIESCED.

If you specify RETRY, you should not also specify UNAVAILABLE or QUIESCED, because this could cause backout retries to fail.

If you combine UNQUIESCED with any other attributes, you should also specify BUSY(WAIT), so that later options do not cause the command to fail because the data set is not unquiesced.

Some of the options of a data set cannot be specified until the first file that references the data set has been opened. Where an attribute is not valid until a file has been opened, the INVREQ condition is returned. Note that QUIESCESTATE is an attribute that can be used before any files have been opened against the specified data set.

Options

ACTION(*cvda***)**
specifies the action to be taken on the data set. CVDA values are:

RECOVERED
This data set has been restored from a backup version and forward recovery has been run and completed successfully. CICS attempts to update the BWO attributes of the data set in the ICF catalog using DFSMS™ callable services. The command is used by the database administrator to update the BWO attributes in the ICF catalog if the forward recovery log apply utility does not do so, or if the database administrator finds that there has been no update since the backup copy was made. This would mean that no forward recovery is needed. If the BWO attributes of the data set are not updated after restoring a backup copy, a subsequent file open fails because the data set is still marked as down-level in the ICF catalog.

For information about DFSMS callable services see *z/OS V1R4.0 Security Server RACF Security Administrator's Guide*.

REMOVE
A data set is no longer required on the local system. Before you can issue a SET DSNAME REMOVE command, the data set must have a FILECOUNT of zero. If you specify REMOVE, you must not specify any other option.

Removing temporary data sets: If you have an application that creates temporary data sets, it is most important that you remove the associated data set name blocks when the data sets are no longer needed. Data set name blocks are not removed when a data set is

closed, or when CICS is shut down (they are removed automatically only during a cold or initial start). If not removed, unwanted data set name blocks can use up excessive amounts of dynamic storage, leading to a short-on-storage condition. See “Examples” on page 523 for an illustration of how you can identify and remove unwanted data set name blocks.

RESETLOCKS (VSAM only)

Purges shunted UOW log records for backout-failed and commit-failed UOWs that hold locks on this data set, and releases the retained locks.

- Backout-failed UOWs are those that failed during backout processing.
- Commit-failed UOWs are those that have updated RLS data sets, and have failed to release locks during the second phase of 2-phase commit syncpoint processing.

If you specify this option, you are accepting backout failure and some loss of data integrity rather than retaining locks and delaying transactions, and therefore it should be used only as a last resort.

For backout-failed and commit-failed UOWs that hold locks on the data set, all records relating to this data set are removed from the system log and all retained record locks held by this CICS for the data set are released. Diagnostic messages are written to the CSFL transient data queue for each backout-failed log record that is removed as a result of the RESETLOCKS operation.

You might choose to use RESETLOCKS if backout-failed or commit-failed log records are holding up lost locks recovery for the data set, and there is no other way of resolving them.

Notes:

1. This option does not apply to shunted *in-doubt* UOWs. You should try to resolve the shunted in-doubt UOWs that hold locks on the data set in other ways before issuing RESETLOCKS; for example, by using COMMIT, BACKOUT, or FORCE (see the UOWACTION option).
2. RESETLOCKS can fail during the commit phase (for example, if an error occurs while CICS is trying to release the RLS locks), in which case the UOWs revert to being shunted as commit-failed UOWs.

RETRY

Shunted UOW log records, caused by failed backout and commit processing for this data set, should be retried. This is similar in concept to the SET CONNECTION RESYNC command, but applies to backout-failed and commit-failed UOWs only, and not to in-doubt UOWs.

You should use RETRY when the data set has shunted backout-failed or commit-failed UOWs associated with it, and you believe that some or all of the data set problems are either transient or have been resolved. If the data set was damaged in some way, it must have been repaired (recreated) and made available for RETRY to work successfully.

Messages issued at the time of a data set failure, and which cause UOWs to be shunted, recommend the actions required to recover from the failure.

RETRY does not harm data integrity, and can be used safely at any time to enable some failed recovery work to complete.

AVAILABILITY(*cvda***) (VSAM only)**
specifies whether the data set is to be marked, in this CICS region, as available or unavailable for use. This command sets or unsets the availability indicator, which is a local flag that a CICS region maintains in a data set name block (DSNB) for each data set. CVDA values are:

AVAILABLE
The data set is available. CICS can issue both RLS and non-RLS open requests for this data set.

UNAVAILABLE
The data set is unavailable. The data set cannot be opened in either RLS or non-RLS modes.

BUSY(*cvda***) (RLS only)**
specifies whether CICS should wait when requested to quiesce or unquiesce the data set, provided QUIESCESTATE has also been specified. It is ignored if QUIESCESTATE is not specified. CVDA values are:

NOWAIT
CICS returns control to the application immediately, having started the quiesce or unquiesce operation asynchronously. You can use INQUIRE DSNAME QUIESCESTATE to check whether the quiesce or unquiesce has completed.

WAIT CICS returns control to the application only when the data set has been quiesced or unquiesced throughout the sysplex, or when it has failed to do so. If a quiesce is not completed within the time specified in the QUIESTIM system initialization parameter, the quiesce times out. See the QUIESTIM system initialization parameter in the *CICS System Definition Guide*. If you specify WAIT, or allow it to default, you should ensure that your program handles an AEXY abend in case the DTIMOUT value is not high enough to allow your task to wait for completion.

DSNAME(*data-value***)**
specifies the name of the data set. It can be up to 44 characters long, and is defined to CICS in the DSNAME operand of the CEDA DEFINE FILE command.

QUIESCESTATE(*cvda***) (RLS only)**
specifies the RLS quiesce state of the data set. The state is set in the ICF catalog entry for the data set when the operation has completed. CVDA values are:

IMMQUIESCED
All existing CICS files open in RLS mode throughout the sysplex are closed and the data set is marked as quiesced in the ICF catalog. Each CICS in the sysplex abends all in-flight UOWs that are accessing the data set before closing files, causing in-flight UOWs to back out. Any UOWs that fail backout are shunted. No files can open in RLS mode against this data set, but non-RLS open requests are permitted (although opens for update are not possible in non-RLS mode if the data set has retained RLS locks).

In addition to closing open files, IMMQUIESCED sets the file state to UNENABLED if it was ENABLED. A subsequent SET DSNAME UNQUIESCED command restores the file state to ENABLED, provided it was set UNENABLED by a QUIESCED or IMMQUIESCED action, but

not if the UNENABLE state is because of some other event. This state change is recorded in the CICS global catalog.

Note: Using the IMMQUIESCED option causes any tasks currently using the data set to be terminated immediately, using the CICS task FORCEPURGE mechanism. In some extreme cases, CICS may terminate abnormally. For this reason, setting a data set as quiesced using the IMMQUIESCED option should be restricted to exceptional circumstances.

QUIESCED
All existing CICS files open in RLS mode throughout the sysplex are closed and the data set is marked as quiesced in the ICF catalog. Each CICS in the sysplex waits until all in-flight UOWs that are accessing the data set have reached syncpoint before closing the files; that is, the UOWs are either:

- Successfully committed, or
- Successfully backed out, or
- Shunted because of an in-doubt failure, or
- Shunted because of a failed backout, or
- Shunted because of a failed commit.

Note: If you specify QUIESCED with WAIT (the default), all tasks in all CICS regions in the sysplex must have reached syncpoint before the files are closed, allowing your command to complete. You must ensure that the DTIMOUT value for the transaction issuing the QUIESCED command is sufficient to allow for this, otherwise the transaction abends with an AEXY abend. The QUIESCE operation is allowed to run until completed or until the timeout value set by the QUIESTIM system initialization parameter, (for which the default is 4 minutes), is reached.

No files can open in RLS mode against this data set, but non-RLS open requests are permitted (although opens for update are not possible in non-RLS mode if the data set has retained RLS locks).

In addition to closing open files, QUIESCED sets the file state to UNENABLED if it was ENABLED. A subsequent SET DSNAME UNQUIESCED command restores the file state to ENABLED, provided it was set UNENABLED by a QUIESCED or IMMQUIESCED action, but *not* if the UNENABLE state is because of some other event. This state change is recorded in the CICS global catalog.

UNQUIESCED
The data set is marked as unquiesced in the ICF catalog. RLS or non-RLS opens can be issued against this data set, the access mode (RLS or non-RLS) being established by the first open. After the first successful open request, subsequent open requests in the same mode as the first open only are permitted.

If a file has been set UNENABLED by an earlier SET DSNAME IMMQUIESCED or QUIESCED command, UNQUIESCED restores the file state to ENABLED. This state change is recorded in the CICS global catalog.

UOWACTION(*cvda***)**
specifies the action to be taken for shunted in-doubt UOWs. CVDA values are:

BACKOUT
All shunted in-doubt UOWs that hold locks on this data set should be backed out.

COMMIT
All shunted in-doubt UOWs that hold locks on this data set should be committed.

FORCE
All shunted in-doubt UOWs that hold locks on this data set should be FORCED to back out or commit, as specified by the ACTION attribute defined on the transaction resource definition.

Conditions

DSNNOTFOUND
RESP2 values:

1 The named data set cannot be found.

15 RECOVERED was specified, but the data set was not found.

INVREQ
RESP2 values:

3 ACTION has an invalid CVDA value.

10 REMOVE was specified, but the data set is associated with a file definition.

12 REMOVE was specified with another option. If you specify REMOVE, it must be the only option present on the command.

13 REMOVE was specified but a lock was held on the data set by another INQUIRE or SET DSNAME command, or by CICS file control processing.

14 RECOVERED was specified but CICS is not configured to support “backup while open” (BWO). Check that you have a version of MVS/DFP™, DFHSM, and DFDSS that supports BWO.

16 RECOVERED was specified but the data set has not been opened during this CICS session, so the BWO attributes in the ICF catalog cannot be set.

17 RECOVERED was specified for a BDAM data set, or a VSAM path. This is not supported.

18 RECOVERED was specified for a VSAM base data set that has FCTs open. This is not allowed.

19 RECOVERED was specified for an unknown data set, or the data set was not in the ‘forward recovered’ state.

29 QUIESCESTATE is specified, but the operation is not supported because RLS=NO is specified as a system initialization parameter, or because DFSMS 1.3 or later is not installed.

30 QUIESCESTATE has an invalid CVDA value.

31 BUSY has an invalid CVDA value.

33 AVAILABILITY has an invalid CVDA value.

34 A QUIESCESTATE value of QUIESCED or IMMQUIESCED is specified, but is rejected by SMSVSAM either because a quiesce or unquiesce is already taking place, or because DFSMSdss is currently taking a backup copy of the data set.

36 A QUIESCESTATE value of UNQUIESCED is specified, but is rejected by SMSVSAM either because an unquiesce is already taking place, or because DFSMSdss™ is currently taking a backup copy of the data set.

39 AVAILABILITY, QUIESCESTATE, RESETLOCKS, or RETRY is specified for a data set that is a BDAM data set.

40 The CICS control block (DSNB) describing the data set has been deleted (by the REMOVE option) by another task before CICS could process this SET command.

41 QUIESCESTATE is specified for a data set that is not known to DFSMS as a VSAM data set.

42 An invalid CVDA is specified for UOWACTION.

43 A QUIESCESTATE value of QUIESCED or IMMQUIESCED is specified without NOWAIT, and the issuing task has updated the data set, or is browsing the data set, in the same unit of work. This is not allowed because:

- For QUIESCED, this would result in a deadlock.
- For IMMQUIESCED, this would result in the issuing task being purged.

44 A SET DSNAME REMOVE command has been issued by another task. This has been detected after this SET DSNAME command was issued, but before the AVAILABILITY option is processed.

46 BKOUTSTATUS is specified with a value other than NORMALBKOUT (BKOUTSTATUS is obsolete).

47 No file has been opened against the data set since the last cold start of this CICS region, or since the first file definition was installed for the data set.

IOERR

RESP2 values:

20 RECOVERED was specified but an error was raised on accessing the ICF catalog. Ensure that the specified data set is on an SMS-managed DASD and is known to the SMS subsystem.

21 RECOVERED was specified but an error was raised by the CICS table manager program.

35 QUIESCESTATE is specified but the SMSVSAM server is not available.

40 QUIESCESTATE is specified, and an unexpected error occurred in DFSMS.

48 The specified operation cannot be completed because the data set is migrated. Recall the data set and reissue the command.

49 An error was raised by DFSMS when reading the ICF Catalog to establish the base data set name.

NOTAUTH

RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SUPPRESSED

RESP2 values:

37 A QUIESCESTATE value of QUIESCED or IMMQUIESCED is specified, but the quiesce of the data set is cancelled by another participating CICS region. This could be for one of the following reasons:

- A user issued a SET DSNAME UNQUIESCED command.
- An XFCVSDS global user exit program suppressed the quiesce.
- An XFCSREQ global user exit program suppressed the close of a file that is open against the data set.

38 A QUIESCESTATE value of QUIESCED or IMMQUIESCED is specified, but the quiesce of the data set is cancelled by this CICS region because the quiesce operation timed out. This is probably because of a long-running transaction on another participating CICS region preventing the close of a file that is open against the data set.

Another reason for the timeout could be that one or more regions are very busy. If this occurs too frequently, you can modify the timeout period (from the default of 240 seconds) by specifying a longer period using the QUIESTIM system initialization parameter.

Examples

It is possible in CICS to create VSAM data sets online for temporary use, and which are dynamically allocated by CICS file control. Typically, this involves reusing the same file control entry and setting the new temporary data set name each time you need to use a new data set. This practice can lead to a large number of data set name blocks occupying CICS dynamic storage. These can only be removed by a SET DSNAME(...) REMOVE command, or by a cold or initial start of CICS.

Ideally, an application that creates and uses a temporary data set should explicitly delete the DSN block when it no longer needs the data set. This involves two actions:

1. Breaking the association between the CICS file and the data set by issuing an EXEC CICS SET FILE(...) CLOSED DISABLED command, followed by an EXEC CICS SET FILE command to set the DSNAME operand to a null value.
2. Removing the data set name block by issuing an EXEC CICS SET DSNAME(...) REMOVE command.

To set the DSNAME to null you must code the CICS commands as shown in the following examples to ensure they translate and compile correctly.

Assembler example

```
*        Remove DSN block from CICS storage
*
*ASM XOPTS(SP)
DFHEISTG DSECT
TEMPDSN  DS    CL44
REMOVE   CSECT
         PRINT GEN
*          Find name of temporary data set if not known
         EXEC CICS INQUIRE FILE('TEMPFILE') DSNAME(TEMPDSN)
*          Close file temporary file and set DSN to null
         EXEC CICS SET FILE('TEMPFILE') CLOSED DISABLED
         EXEC CICS SET FILE('TEMPFILE') DSNAME(=X'00')
*          Remove DSN block from storage
         EXEC CICS SET DSNAME(TEMPDSN) REMOVE
*
*         Return and end
*
RETURN   DS    0H
         EXEC CICS RETURN
         END
```

PL/I example

```
*PROCESS XOPTS(SP);
 REMOVE:PROC OPTIONS(MAIN);
 DCL PLIXOPT STATIC EXTERNAL CHAR(10) VAR INIT('NOSTAE');
 DCL TEMPDSN CHAR(44);
/*                                                    */
/*          Find name of temporary data set if not known  */
         EXEC CICS INQUIRE FILE('TEMPFILE') DSNAME(TEMPDSN);
*/          Close file temporary file and set DSN to null */
         EXEC CICS SET FILE('TEMPFILE') CLOSED DISABLED;
         EXEC CICS SET FILE('TEMPFILE') DSNAME('00'X);
/*          Remove DSN block from storage                 */
         EXEC CICS SET DSNAME(TEMPDSN) REMOVE
```

```
/*
/*           Return and end                                 */
/*
         EXEC CICS RETURN;
         END;
```

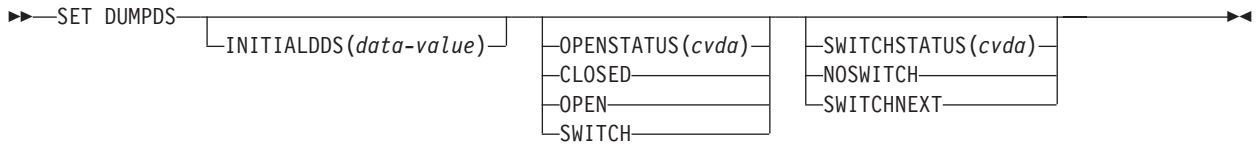
COBOL example

```
 CBL XOPTS(SP)
       IDENTIFICATION DIVISION.
       PROGRAM-ID. REMOVE.
       ENVIRONMENT DIVISION.
       DATA DIVISION.
       WORKING-STORAGE SECTION.
       77  TEMPDSN             PIC X(44).
       PROCEDURE DIVISION.
      *   Find name of temporary data set if not known
           EXEC CICS INQUIRE FILE('TEMPFILE') DSNAME(TEMPDSN)
                END-EXEC.
      *   Close file temporary file and set DSN to null
           EXEC CICS SET FILE('TEMPFILE') CLOSED DISABLED
                END-EXEC.
           EXEC CICS SET FILE('TEMPFILE') DSNAME(LOW-VALUES)
                END-EXEC.
      *   Remove DSN block from storage
           EXEC CICS SET DSNAME(TEMPDSN) REMOVE END-EXEC.
      *
      *   Return and end
           EXEC CICS RETURN END-EXEC.
           GOBACK.
```

SET DUMPDS

Change the status of the transaction dump data sets.

SET DUMPDS



Conditions: INVREQ, IOERR, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET DUMPDS command allows you to change the status of CICS transaction dump data sets. Normally, either there is one of these, known as the ‘A’ dump data set, or there are two, ‘A’ and ‘B’. One is “active” (receiving dumps) and the other, if there are two, is “inactive” (standby). Specifically, you can:

- Open or close the active data set.
- Switch the roles of the active and standby data sets.
- Request CICS to switch automatically when the active data set is full.
- Specify which data set is active the next time CICS is initialized.

Note: If a CICS system is initialized without any transaction dump data sets, only the last two functions are available.

Control does not return to the task issuing the command until the requested change has been made.

Options

INITIALDDS(*data-value***)**
specifies, as a 1-character value, which dump data set is to be active first on subsequent warm or emergency restarts. This value is recorded in the CICS global catalog and overrides the previous value, which is set initially by the DUMPDS system initialization option.

The values permitted are A, B, and X. X means that CICS is to use the data set that was not active when CICS last terminated (normally or abnormally); it corresponds to the AUTO setting for the DUMPDS option. (See the *CICS System Definition Guide* for a description of this option.)

OPENSTATUS(*cvda***)**
specifies actions to be taken on the transaction dump data sets. CVDA values are:

CLOSED
The active CICS dump data set is to be closed.

OPEN The active CICS dump data set is to be opened.

SWITCH
The roles of the dump data sets are to be switched, if there are two. The data set that is currently active is to become standby, and closed if it is open. The current standby is to become the active data set, and opened if closed.

If you attempt to change the open status of a data set that does not exist, an IOERR exception condition occurs. This can happen if you specify SWITCH when there is only one dump data set, or if you specify any OPENSTATUS value when there are no dump data sets.

SWITCHSTATUS(*cvda***)**
specifies whether CICS is to switch active data sets automatically the next time the current dump data set fills. The SWITCHSTATUS value is recorded in the CICS global catalog, and therefore is remembered over warm and emergency restarts. (It is set initially by the DUMPSW system initialization option, described in the *CICS System Definition Guide*.) An automatic switch occurs only once; another SET DUMPDS SWITCHNEXT command is required after each switch to maintain automatic switching. CVDA values are:

NOSWITCH
The data sets are not be switched.

SWITCHNEXT
The data sets are to be switched. (SWITCHNEXT has no effect unless there are two dump data sets at the time the active one fills.)

Conditions

INVREQ
RESP2 values:
1 INITIALDDS has an invalid value.
2 SWITCHSTATUS has an invalid CVDA value.
3 OPENSTATUS has an invalid CVDA value.

IOERR
RESP2 values:
4 OPEN or SWITCH caused an error opening a data set.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

Examples

```
EXEC CICS SET DUMPDS
             INITIALDDS('A')
             SWITCH
             NOSWITCH
```

This example tells CICS that the A dump data set is to be active first on subsequent warm and emergency restarts. The OPENSTATUS setting of SWITCH makes the currently active dump data set inactive, and the currently inactive dump data set active. The NOSWITCH option tells CICS that when the (new) active dump data set is full, there is to be no automatic switch to the inactive dump data set.

SET ENQMODEL

Change the status of an ENQMODEL definition.

SET ENQMODEL

Conditions: INVREQ, NOTAUTH, NOTFND

Description

The SET ENQMODEL command allows you to ENABLE or DISABLE ENQMODEL resources installed on the local system. An ENQMODEL must be enabled to allow matching EXEC ENQ requests to be processed. It must be disabled to allow a more specific ENQMODEL to be enabled.

ENQMODELs forming nested generic enqnames must be enabled in order, from the most to the least specific. For example, enable ABCD* then ABC* then AB*. If you attempt to enable a more specific ENQMODEL when a less specific enqmodel is already enabled, the result is that msg NQ0107 is issued and INVREQ is returned to the caller.

In this case you may need to disable one or more less specific ENQMODELs to allow a more specific ENQMODEL to be enabled. You will then be able to enable the less specific ENQMODELs again.

You cannot enable/disable an ENQMODEL which is in the waiting state. If attempted, INVREQ is returned to the caller.

Options

ENQMODEL(*data-value***)**
specifies the 8-character identifier of the resource definition.

STATUS(*cvda***)**
specifies the action to be taken on the ENQMODEL. CVDA values are:

ENABLED
If the ENQMODEL is DISABLED, it is ENABLED. Once enabled, matching ENQ requests are processed in the normal way.

DISABLED
The ENQMODEL is put into the WAITING state until there are no enqueues in the local system which match the ENQNAME pattern. It will then be DISABLED. Once disabled, matching ENQ requests will be rejected, and the issuing task is abended.

Conditions

INVREQ
RESP2 values:

2 The attempt to enable/disable an ENQMODEL failed, because a more generic ENQMODEL is enabled.
3 STATE has an invalid CVDA value.
4 The ENQMODEL is in the WAITING state

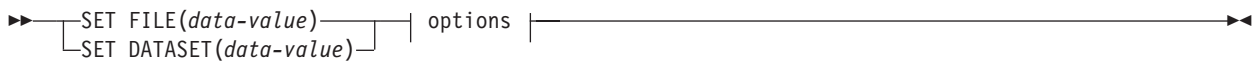
NOTAUTH
RESP2 values:
100 The user of the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 The specified ENQMODEL is not installed on this system.

SET FILE

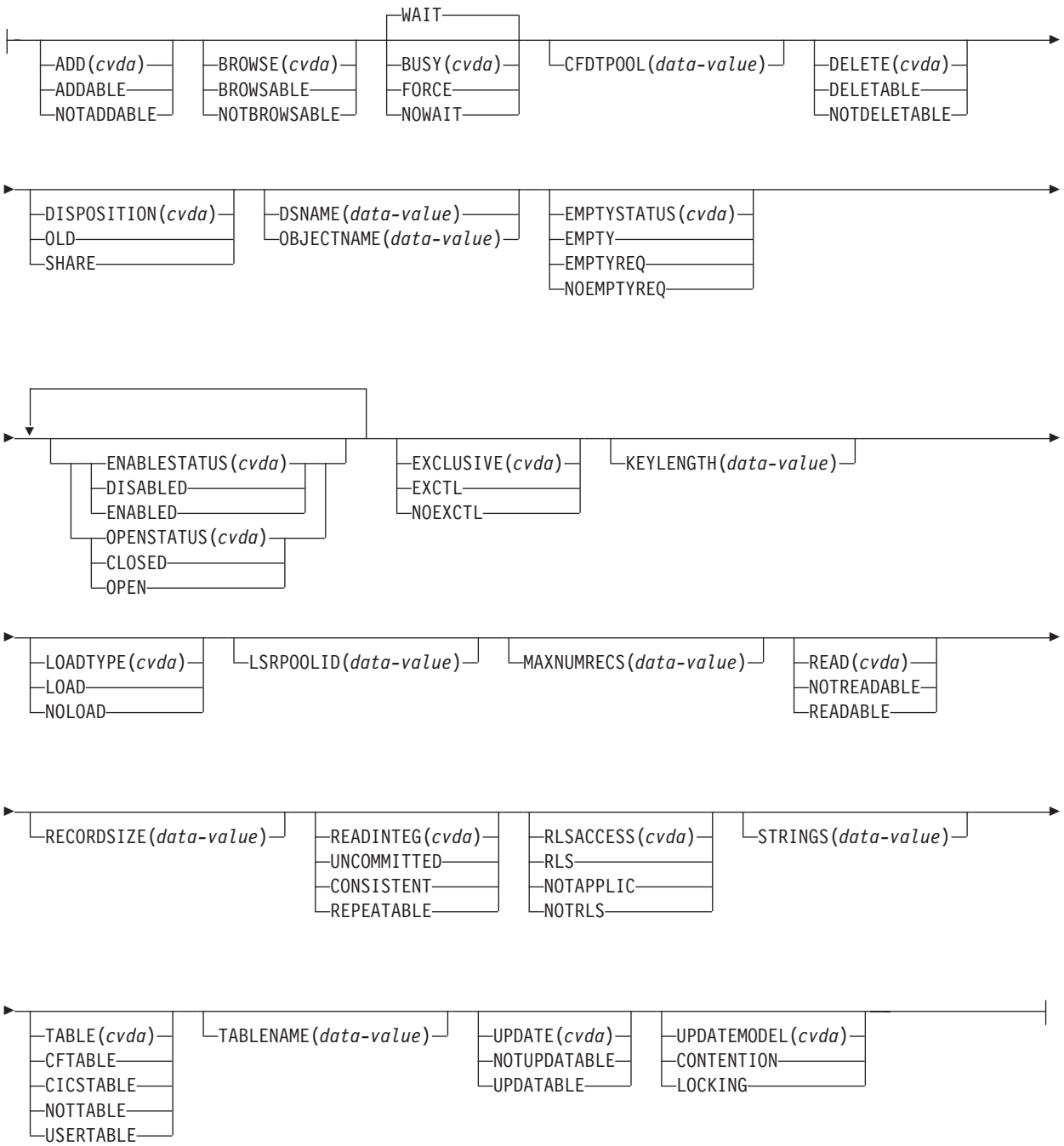
Change attributes of a VSAM or BDAM file, including files that refer to CICS shared data tables and coupling facility data tables.

SET FILE



Conditions: FILENOTFOUND, INVREQ, IOERR, NOTAUTH

options:



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Note: This command replaces the SET DATASET command. The DATASET keyword is supported by the translator as a synonym for FILE, but you

should use FILE for all new applications. Similarly, OBJECTNAME is supported as a synonym for DSNAME.

Any combination of the options can be set on one command. All changes, other than to close and disable the file, require that the file be in a CLOSED state, with an ENABLESTATUS of either DISABLED or UNENABLED, and they do not take effect until the file is next opened.

You can use the SET FILE command to set combinations of attributes that are relevant to more than one file type, to simplify switching between different types of file. Attributes that are not relevant to the current type of file are ignored. You can use this capability to set up dual-purpose file definitions, for example, by defining both local and remote attributes, or set attributes that make it easy to switch the file from accessing a user-maintained data table within a single MVS image to accessing a coupling facility data table within a Parallel Sysplex.

If a coupling facility data table already exists, and the table attributes specified on the SET FILE command do not match those with which it was created, an attempt to open the file fails with an error message.

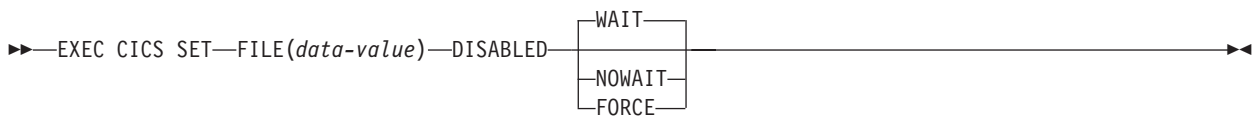
If you use the SET FILE command to switch the file from referencing a coupling facility data table to a different object (for example from CFTABLE to NOTTABLE), the CFDT is not deleted and remains in existence in its pool (the coupling facility list structure).

The requested changes are applied in the following order: NOEMPTYREQ, CLOSED, DISABLED, miscellaneous, OPEN, ENABLED.

SET FILE ENABLED

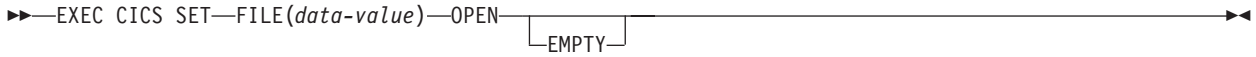
Conditions: FILENOTFOUND, INVREQ, NOTAUTH

SET FILE DISABLED



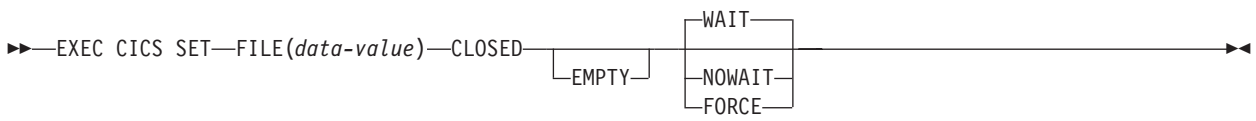
Conditions: FILENOTFOUND, INVREQ, NOTAUTH

SET FILE OPEN



Conditions: FILENOTFOUND, IOERR, NOTAUTH

SET FILE CLOSED



Conditions: FILENOTFOUND, INVREQ, IOERR, NOTAUTH

Description

The SET FILE command allows you to change some of the attributes of a named VSAM or BDAM file. A security check is made and an unauthorized command attempt is given a NOTAUTH response. If any retained locks are associated with the file, the only attributes that you are allowed to change are the ENABLESTATUS and the OPENSTATUS. Attempting to specify any other attribute when there are retained locks causes an INVREQ condition to be raised.

Options

ADD(*cvda***)**
specifies whether new records are to be added to the file. CVDA values are:

ADDABLE
New records are to be added to the file.

NOTADDABLE
New records are not to be added to the file.

BROWSE(*cvda***)**
specifies whether the file is to be browsable. CVDA values are:

BROWSABLE
The file is to be browsable.

NOTBROWSABLE
The file is not to be browsable.

BUSY(*cvda***)**
specifies what CICS is to do if the file is in use when you issue the SET command. The BUSY option is valid only for requests to SET the file DISABLED or CLOSED, and is ignored for any other request. CVDA values are:

FORCE
All tasks using the file are abended, the file is immediately DISABLED or CLOSED, and control returns to the issuing application.

NOWAIT
The same as WAIT, except that CICS returns control to the issuing application as soon as the SET request has been queued.

WAIT CICS is to wait until all activity on the file has quiesced before setting the file DISABLED or CLOSED. CICS then returns control to the application that is issuing this command. WAIT is the default.

Note: Closing a file using the FORCE option causes tasks of any current users of the file to be terminated immediately by the CICS task FORCEPURGE mechanism. Data integrity is not guaranteed with this mechanism. In some extreme cases (for example, if an error occurs during backout processing), CICS might terminate abnormally. For this reason, closing files using the FORCE option should be restricted to exceptional circumstances.

CFDTPOOL(*data-area***) (CFDT only)**
specifies the name of the pool in which the coupling facility data table resides. You can specify the CFDT pool name for a file that does not currently refer to a coupling facility data table, but which could be switched to use a coupling facility data table at a later date.

DELETE(*cvda***) (VSAM only)**
specifies whether records can be deleted from the file. CVDA values are:

DELETABLE
Records are deletable from the file.

NOTDELETABLE
Records are not deletable from the file.

DISPOSITION(*cvda***)**
specifies the disposition for this file. When you issue a SET FILE DISPOSITION command, you override the current DISPOSITION value, which can have been taken from the installed file definition, or from any JCL statement for this file, if the file has been opened. CVDA values are:

OLD The disposition value is to be OLD.

SHARE
The disposition value is to be SHARE.

DSNAME(*data-value***)**
specifies the data set name of the data set associated with this file, as defined to the access method and the operating system. The name can be up to 44 characters long. If no JCL statement exists for this file when it is opened, the open is preceded by a dynamic allocation of the file using this data set name. If there is a JCL statement, it takes precedence over the data set name specified this option.

If the file is associated with a coupling facility data table, DSNAME specifies the name of the source data set from which the table is loaded when the file definition specifies LOAD(YES).

Note: When you add a data set name to a file definition for a coupling facility data table, LSR pool size calculations may be involved when the file is opened. This occurs when the file refers to an LSRPOOL that CICS builds using default values, and the first data set using the LSR pool is opened to load the table. CICS issues message DFHFC0208 indicating that a delay might occur while the LSR pool size is being calculated. If you specify a data set name on a file that refers to an LSR pool that is

already built using default values, the data set will not have been included in the LSR pool calculation. This means the existing LSR pool may not be adequate for the new data set. To resolve any problems associated with an LSR pool used in this way, you can close all files that reference the pool, which causes CICS to discard the pool and rebuild it using new calculations the next time a file is opened that refers to the pool. Alternativley, define the LSR pool explicitly specifying the appropriate values. See the *CICS Resource Definition Guide* for information about defining LSR pools.

With the SET FILE command, you can dissociate the file from any DSNAME by supplying a DSNAME value that begins with a null character (hexadecimal zeros).

EMPTY
is equivalent to EXEC CICS SET FILE EMPTYSTATUS(EMPTYREQ). It is supported for compatibility reasons only. This does not apply to files operating in RLS mode.

EMPTYSTATUS(*cvda*) (VSAM only)
specifies whether the data set is to be emptied when a file that references it is next opened. This is valid only for data sets that are defined as reusable, and that are accessed in either LSR or NSR mode. CVDA values are:

EMPTYREQ
If the data set is defined as reusable, it is set to empty the next time a file that references it is opened in non-RLS mode.

Notes:

1. If you specify EMPTYREQ for a nonreuseable data set, CICS accepts it, but a subsequent attempt to open the file fails.
2. If you specify EMPTYREQ for a file defined with RLSACESS(YES), CICS accepts it, but the option does not have any effect unless the file is subsequently opened in non-RLS mode.
3. If you specify EMPTYREQ for a file that refers to a coupling facility data table that requires preloading from a data set and is specified with RLSACCESS(NO), and opening the file triggers the table load, the data set is set to empty.
4. If you specify EMPTYREQ for a file that refers to a coupling facility data table that does not require loading from a source data set, the option is ignored.
5. If you specify EMPTYREQ for a file that refers to a coupling facility data table that is already loaded from a source data set, the option is ignored.

NOEMPTYREQ
The data set has been defined as reusable but is not set empty the next time a file that references it is opened. Specify NOEMPTYREQ for a coupling facility data table.

ENABLESTATUS(*cvda*)
specifies whether application programs can access the file. CVDA values are:

DISABLED
The file is unavailable for access by application programs.

ENABLED
The file is available for access by application programs.

EXCLUSIVE(*cvda***) (BDAM only)**
specifies whether records on this file should be placed under exclusive control when a read for update is issued. CVDA values are:

EXCTL
Records on this file are to be under exclusive control.

NOEXCTL
Records on this file are not to be under exclusive control.

FILE(*data-value***)**
specifies the 8-character file name defined in the file control table (FCT).

KEYLENGTH(*data-value***) (CFDT only)**
specifies, as a fullword binary value, the key length of records in a coupling facility data table. To set a keylength, specify a value in the range 1 through 16. To clear a keylength (set it to null values), specify KEYLENGTH(0).

You can specify the key length for a file that does not currently refer to a coupling facility data table, but which could be switched to use a coupling facility data table at a later date.

LOADTYPE(*data-value***) (CFDT only)**
specifies whether the coupling facility data table associated with the file requires pre-loading from a source data set. CVDA values are:

LOAD The coupling facility data table requires loading from a source data set before it is fully usable; the transactions that use this coupling facility data table rely on it containing the records from the specified source data set.

NOLOAD
The coupling facility data table does not require loading from a source data set; it is fully usable as soon as it is created, and is populated by the transactions that use it.

You can specify the load type for a file that does not currently refer to a coupling facility data table, but which might be switched to use a coupling facility data table at a later date.

LSRPOOLID(*data-value***) (VSAM only)**
specifies, as a fullword binary value, the number of the LSR pool associated with this file. LSR pool IDs are in the range 1–8.

If the file is not to share buffers, set this value to 0.

For a CICS-maintained or user-maintained data table, the value must be 1 or greater. Both these types of CICS shared data table must use LSR access mode (unless the file is defined to be opened in RLS access mode).

For a coupling facility data table, you can set this value to 0.

MAXNUMRECS(*data-value***)**
specifies, as a fullword binary value, the maximum number of records the data table for this file can hold. Using this parameter enables you to control the use of storage.

For any type of table, if you want to set a limit, specify a value in the range 1 to 99 999 999. If you do not want any limit to apply, specify MAXNUMRECS(0), which CICS interprets as no limit, and sets internally to the maximum positive fullword value (+2147483647 or X7FFFFFFF).

To specify MAXNUMRECS for a recoverable coupling facility data table, use a value that is between 5 and 10% more than the maximum number of records

that the table is expected to contain. This allows for additional records that might be created internally for processing recoverable requests. The margin to be left for this internal processing depends on the level of use of the coupling facility data table, and the nature of that use. An effect of this is that the NOSPACE condition (with a RESP2 value of 102) can be raised on a WRITE or REWRITE request to a recoverable coupling facility data table that apparently has fewer records than the MAXNUMRECS limit specifies.

OPENSTATUS(*cvda***)**
specifies whether the file is to be open or closed. CVDA values are:

CLOSED
The file is to be closed.

The close request is deferred until all UOWs that hold repeatable read locks reach their syncpoint.

Note: A coupling facility data table remains in existence (in the coupling facility) after the file is closed, unlike a user-maintained data table, which ceases to exist when the file in the file-owning region is closed. Closing a file for a coupling facility data table does not prevent it being accessed through another file or by other CICS regions.

You can use the MVS MODIFY command to issue CFDT server commands that:

- Set the table unavailable (MODIFY *server-name*,SET TABLE=*tablename*,AVAILABLE=NO) so that no other files can issue opens against it
- Delete the table from the coupling facility (MODIFY *server-name*,DELETE TABLE=*table-name*) if you do not want it to exist after the last file using it has been closed.

OPEN The file is to be opened.

For a coupling facility data table, open processing causes the coupling facility data table server to create the table if it does not exist when CICS processes the open request. If the installed file definition specifies the name of a source data set, the coupling facility data table is created by loading the data from the source data set.

If a SET FILE(*filename*) OPEN command refers to a file that specifies LOAD(YES), but which does not name the source data set, the CFDT can be created and loaded only by opening a file that defines the source data set name.

If a recoverable data set is to be closed, the task the task issuing the close must commit any prior changes to that data set, or the request is rejected by file control.

READ(*cvda***)**
specifies whether records can be read from the file. CVDA values are:

NOTREADABLE
Records are not to be readable from the file.

READABLE
Records are to be readable from the file.

READINTEG(*cvda***)**
specifies the default level of read integrity for the file. CVDA values are:

CONSISTENT
Consistent read integrity is required for this file.

REPEATABLE
Repeatable read integrity is required for this file.

UNCOMMITTED
No read integrity is required for this file.

Note: These default read integrity values are used only when the file read request does not specify read integrity options explicitly on the EXEC CICS command.

CICS ignores a READINTEG option specified for a coupling facility data table.

RECORDSIZE(*data-area***) (CFDT only)**
specifies, as a fullword binary value, the maximum record size for a coupling facility data table in the range 1 through 32767.

You can specify the record size for a file that does not currently refer to a coupling facility data table, but which could be switched to use a coupling facility data table at a later date. Specify a record size of zero to remove a previously defined value.

RLSACCESS(*cvda***)**
specifies whether the file is to be accessed in RLS mode. The file must be closed, and either disabled or unenabled, to change the access mode to RLS access or to non-RLS access.

The non-RLS mode becomes either LSR or NSR, depending on the value specified for LSRPOOLID in the file resource definition.

CVDA values are:

NOTAPPLIC
The file is not eligible to be accessed in RLS mode because:
- It is a remote file, or
- It refers to a BDAM data set.

NOTRLS
The file is to be opened in LSR or NSR mode when it is next opened.

RLS The file is to opened in RLS access mode when it is next opened.

See the *CICS Recovery and Restart Guide* for information about switching between RLS and non-RLS modes.

STRINGS(*data-value***) (VSAM only)**
specifies, as a fullword binary value, the maximum number of concurrent operations to allow on this file, in the range 1–255.

TABLE(*cvda***) (VSAM and CFDT only)**
specifies whether the file name specified on the FILE parameter represents a data table. CVDA values are:

CFTABLE
The file name refers to a coupling facility data table.

CICSTABLE
The file name represents a CICS-maintained data table.

NOTTABLE
The file name does not represent a data table.

USERTABLE
The file name represents a user-maintained data table.

TABLENAME(*data-area***) (CFDT only)**
specifies the 1- to 8-character name of the coupling facility data table to which this file refers. If TABLENAME is not specified, the table name defaults to the name of the file.

You can specify the table name for a file that does not currently refer to a coupling facility data table, but which could be switched to use a coupling facility data table at a later date.

UPDATE(*cvda***)**
specifies whether the file is read-only or read/write. CVDA values are:

NOTUPDATABLE
You can only read the records.

UPDATABLE
You can read, write, or delete the records.

UPDATEMODEL(*cvda***) (CFDT only)**
specifies the type of update model to be used for a coupling facility data table. CVDA values are:

CONTENTION
The CFDT is to use the contention model, in which records are not locked when they are read for update, but an error is returned on a subsequent REWRITE or DELETE if the record has changed or been deleted since it was read for update.

LOCKING
The CFDT is to use the locking model, in which records are locked when they are read for update.

You can specify the update model for a file that does not currently refer to a coupling facility data table, but which could be switched to use a coupling facility data table at a later date.

Conditions

FILENOTFOUND
RESP2 values:
18 The named file cannot be found.

INVREQ
RESP2 values:
1 The named file is REMOTE.
2 The named file is not CLOSED.
3 The named file is not DISABLED or UNENABLED.
4 ADD has an invalid CVDA value.
5 BROWSE has an invalid CVDA value.
6 BUSY has an invalid CVDA value.
7 DELETE has an invalid CVDA value.
8 DISPOSITION has an invalid CVDA value.
9 EMPTYSTATUS has an invalid CVDA value.
10 LSRPOOLID is specified for a non-VSAM data set.
11 LSRPOOLID is not in the range 1–8, or the corresponding buffer is not defined.
12 READ has an invalid CVDA value.
13 STRINGS value is not in the range 1–255, or this is not a VSAM file.

14 UPDATE has an invalid CVDA value.
16 OPENSTATUS has an invalid CVDA value.
17 ENABLESTATUS has an invalid CVDA value.
19 DELETE has been specified for a non-VSAM file.
20 EMPTYSTATUS has been specified for a non-VSAM file.
21 CLOSED or DISABLED has been specified by a task that has issued one or more recoverable requests within the current unit of work.
22 ENABLED was specified for a file that is currently DISABLING or UNENABLING.
23 EXCLUSIVE has an invalid CVDA value.
24 EXCLUSIVE has been specified for a non-BDAM file.
28 OPEN, CLOSE, ENABLE, or DISABLE has been specified but an exit program running at exit point XFCSREQ instructed CICS not to carry out the command.
29 TABLE has an invalid CVDA value.
30 MAXNUMRECS value is out of range.
31 The TABLE option is not valid for a BDAM file (must be VSAM for a data table).
32 The TABLE option is not valid for a file defined with the REUSE option.
33 The TABLE option is invalid for a file defined as UNBLOCKED.
34 The MAXNUMRECS option is invalid for a BDAM file (must be VSAM for a data table).
35 The MAXNUMRECS option is invalid for a file defined with the REUSE option.
36 The MAXNUMRECS option is invalid for a file defined as UNBLOCKED.
37 The TABLE option is invalid when LSRPOOL=0 is specified.
39 The USERTABLE option is invalid when record format is not variable.
40 CONSISTENT or REPEATABLE is specified for a file that is not accessed in RLS mode.
41 The DSNB cannot be disconnected, nor a new DSNB connected, for this file because the file has deferred work outstanding, for which there are retained or repeatable read locks. This means there is at least one shunted UOW, awaiting completion, that has made changes to this file.
42 The SET FILE request cannot be satisfied because the file has deferred work outstanding, for which there are retained or repeatable read locks. This means there is at least one shunted UOW, awaiting completion, that has made changes to this file. The only valid options when a file has deferred work pending are those that change the file state. File state changes are permitted because they may be required to enable the deferred work to be completed.
43 The file cannot be discarded because it has deferred work outstanding, for which there are retained or repeatable read locks. This means there is at least one shunted UOW, awaiting completion, that has made changes to this file.
44 A file open request cannot be satisfied because the file references a data set that has been marked as unavailable by a SET DSNAME UNAVAILABLE command.
45 A file open request cannot be satisfied because the file references an RLS-mode data set that has been quiesced by a SET DSNAME QUIESCED command.
46 A file open request cannot be satisfied because the file references an RLS-mode data set that is being copied by a DFSMSdss-initiated non-BWO backup.
47 A file open request cannot be satisfied because the file references an RLS-mode data set that is in the process of quiescing by a SET DSNAME QUIESCED command.

48 A file open request cannot be satisfied because the file references a data set for which its ICF Catalog entry indicates that a recovery is pending, or is in progress (for example, a CICSVR job is running).

49 An invalid CVDA is specified for the READINTEG option.

50 An attempt has been made to open an RLS file when RLS is not supported, either because the level of VSAM does not support RLS or because RLS=NO has been specified during system initialization.

51 An invalid CVDA is specified for the RLSACCESS option.

52 An attempt has been made to specify RLS access for a BDAM data set.

53 An attempt has been made to specify a CICS-maintained data table for a file defined with RLS access.

54 A file open request cannot be satisfied because of one of the following reasons:

- the file is being opened in RLS mode and this region has other files open in non-RLS mode against the data set which it references.
- the file is being opened in non-RLS mode and this region has other files open in RLS mode against the data set which it referenDATAces.
- the file is being opened in non-RLS mode and this region has unresolved RLS recovery work against the data set which it references.

55 LOADTYPE has an invalid CVDA value.

56 UPDATEMODEL has an invalid CVDA value.

57 EMPTYSTATUS has a CVDA value that is not allowed for a coupling facility data table. EMPTYSTATUS must be NOEMPTYREQ for a coupling facility data table.

58 CFDTPOOL is not specified for a file that refers to a coupling facility data table.

59 KEYLENGTH is not specified for a file that refers to a coupling facility data table, and which specifies LOAD=NO.

60 An invalid KEYLENGTH is specified. The KEYLENGTH must be in the range 1 through 16 for a coupling facility data table.

61 RECORDSIZE is not specified for a file that refers to a coupling facility data table that specifies LOAD=NO.

62 An invalid RECORDSIZE is specified. RECORDSIZE must be in the range 0 through 32767 bytes.

63 OPEN is specified for a file that refers to a coupling facility data table, but OPEN processing has failed because:

- The file attributes do not match those specified when the CFDT was created, or
- A keylength or recordsize has been specified that exceeds the maximum supported.

64 OPEN is specified for a file that refers to a coupling facility data table, but OPEN processing has failed because the server is not available.

65 An invalid CFDTPOOL name is specified.

66 An invalid TABLE name is specified.

67 An UPDATEMODEL of CONTENTION is specified for a recoverable coupling facility data table. The update model must be LOCKING for a coupling facility data table that is recoverable.

69 The DSNAME is invalid.

IOERR

RESP2 values:

0 The command failed before the request was passed to the resource management system[4].

***** OPEN has failed outside file control. The RESP2 field contains the response that was returned to file control by the external resource management system[4].

***** CLOSE has failed outside file control. The RESP2 field contains the response that was returned to file control by the external resource management system[4].

In all cases of IOERR, the CICS console should be examined for messages providing more information on the error.

Depending on how you are viewing the RESP2 value, you should be aware that it may contain the decimal equivalent of the response returned to file control.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

Examples

```
EXEC CICS SET FILE ('FILE12')
               WAIT
               CLOSED
               DISABLED
               DELETABLE
               LSRPOOLID(7)
               STRINGS(50)
EXEC CICS SET FILE ('FILE12')
               OPEN
               ENABLED
```

On the first command, the WAIT option tells CICS to allow all activity on FILE12 to quiesce before closing the file, and to return control to the issuing application only when this request has been started. When the file has been CLOSED, it is to be DISABLED. The records on FILE12 are then to be marked DELETABLE, LSRPOOL number 7 is to be associated with the file, and up to 50 concurrent operations are to be allowed.

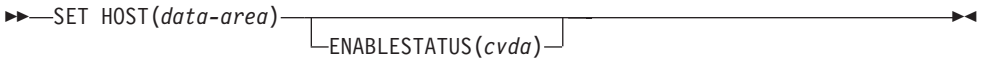
The second of the two commands opens and then enables the file. Setting a file CLOSED and DISABLED makes the file eligible for deletion (DISCARD) or reinstallation by another task. Thus it is possible for another task to delete the file after the first SET command but before the second SET command.

4. Resource management system refers to any of the catalogue management systems such as VSAM, BDAM, or DFSMS, or to an external resource management system such as CFDT or SDT (Coupling facility data tables, or Shared data tables).

SET HOST

Sets the status of a virtual host to enabled or disabled.

SET HOST



Conditions: NOTAUTH, NOTFND

This command is threadsafe.

Description

The SET HOST command is used to set the status of a virtual host to enabled or disabled. Disabling a virtual host means that all the URIMAP definitions that make up the virtual host cannot be accessed by applications. When a virtual host is disabled, CICS returns a HTTP response with a 503 (Service Unavailable) status code to Web clients.

When the INQUIRE URIMAP command is used to inquire on an individual URIMAP definition, a special status DISABLEDHOST is returned to indicate that the virtual host is disabled. You do not need to change the disabled status of the URIMAP definitions individually; the SET HOST command can be used to re-enable all the URIMAP definitions that make up the virtual host. However, note that a URIMAP definition with the DISABLEDHOST status cannot be discarded. If you want to discard the definition, it must be disabled individually (using the SET URIMAP command).

Options

HOST*(data-area)*
specifies the name of a virtual host. The name of each virtual host is taken from the host name specified in the URIMAP definitions that make up the virtual host. For example, if your CICS region contained URIMAP definitions that specified a host name of www.example.com, CICS would create a virtual host with the name www.example.com. A host name in a URIMAP definition can be up to 120 characters.

ENABLESTATUS*(cvda)*
CVDA values are:

ENABLED
The URIMAP definitions that make up the virtual host can be accessed by applications.

DISABLED
The URIMAP definitions that make up the virtual host cannot be accessed by applications.

Conditions

NOTAUTH

RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND

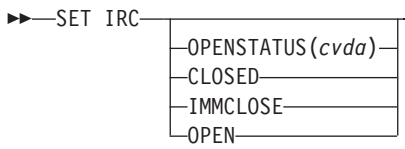
RESP2 values are:

5 The virtual host cannot be found.

SET IRC

Open or close interregion communication.

SET IRC



Conditions: INVREQ, IOERR, NOSTG, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET IRC command allows you to start (open) or stop (close) interregion communication (IRC) in your CICS region. IRC must be open for your region to communicate with another CICS region using a multiregion operation (MRO) connection, or for a non-CICS client region to use your CICS over an external CICS interface (EXCI) connection.

Support for this type of communication must be specified at CICS startup (in the ISC initialization option), and at least one CONNECTION resource must be defined with an ACCESSMETHOD value indicating MRO; otherwise exception conditions occur when you attempt to open IRC. The *CICS Intercommunication Guide* describes the various requirements.

Options

OPENSTATUS(*cvda***)**
specifies whether IRC communications should be started (open) or stopped (closed), and if CICS needs to stop IRC, whether tasks using MRO should be allowed to complete first. CVDA values are:

CLOSED
IRC is to be stopped. If it is currently open, CICS is to quiesce all MRO activity and then close IRC. Tasks using CICS-to-CICS MRO sessions and EXCI sessions are allowed to complete before closure, but new tasks requiring IRC are not begun.

IMMCLOSE
IRC is to be stopped. If currently open, CICS is to terminate abnormally any tasks using IRC immediately and then close IRC.

OPEN IRC is to be started. If currently closed, CICS is to open it.

Conditions

INVREQ
RESP2 values:
1 A program required for IRC, DFHCRSP, is unavailable.
2 OPENSTATUS has an invalid CVDA value.

4 CICS was initialized without IRC support (ISC=NO).
5 No connection has been defined.
6 The VTAM APPLID for this CICS is blanks; IRC requires a non-blank APPLID.
7 Another CICS using IRC has the same VTAM APPLID as this one; unique names are required.
8 IRC rejected the open of this CICS because it had already reached the maximum number of logons.
18 IRC support (the DFHIRP module) is below the level required by this CICS system.

IOERR

RESP2 values:
12 IRC initialization failed.
13 The log on to IRC failed.
14 An attempt to attach the node error transaction, CSNC, failed.
15 An error occurred closing IRC.

NOSTG

RESP2 values:
9 CICS storage is insufficient for the request.
10 MVS storage is insufficient (SVC block request rejected).
11 MVS storage is insufficient (SUBSYS block request rejected).

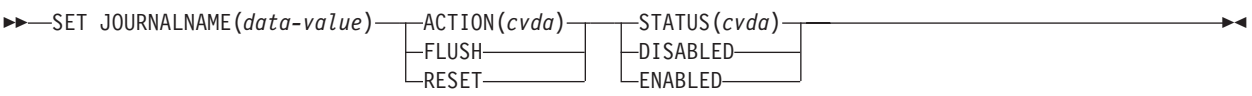
NOTAUTH

RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SET JOURNALNAME

Enable or disable a CICS user journal.

SET JOURNALNAME



Conditions: INVREQ, IOERR, JIDERR, NOTAUTH

Description

The SET JOURNALNAME command allows you to enable or disable a CICS user journal.

SET JOURNALNAME has no effect on a journal that is being used as the forward recovery log or autojournal for a VSAM file until the next time the file is opened. It has no effect on the system log.

You can use SET JOURNALNAME for a journal name that is not currently known to CICS. CICS dynamically creates an entry for the specified journal and, if necessary, defines it to the MVS system logger using a matching JOURNALMODEL definition.

The ability to issue SET JOURNALNAME commands for journal names not known to CICS enables you to perform log stream connection processing before the corresponding journals are first referenced. For example, you could do this during a PLT program at initialization to avoid the delay that normally occurs at first reference.

Options

ACTION(*cvda***)**
specifies the action you want CICS to take for the specified journal name. CVDA values are:

FLUSH
The log buffers are written out to the log stream, but the journal is not closed.

You can use this option to ensure that all current records are written out to the log stream before processing the stream using a batch utility.

In the case of autojournals and forward recovery logs, the FLUSH is forced if the file is open (the FLUSH does not wait until the next time the file is opened).

RESET
The journal is disconnected from its log stream, but can be reopened by a journal write.

Note: ACTION and STATUS are mutually exclusive options. If you specify ACTION, you cannot also specify STATUS.

JOURNALNAME(*data-value***)**
specifies the name of the journal.

To modify journals defined with a numeric identifier in the range 1–99, specify journal name DFHJ*nn*, where *nn* is the journal number.

You cannot specify DFHLOG or DFHSHUNT, because you are not allowed to modify the status of the system log.

STATUS(*cvda***)**
specifies the new status for the journal. The CVDA values are:

DISABLED
The journal is flushed then disabled. It cannot be used again until it is reenabled by the STATUS(ENABLED) or ACTION(RESET) options on a SET JOURNALNAME command.

ENABLED
The journal is open and is available for use.

Note: STATUS and ACTION are mutually exclusive options. If you specify STATUS, you cannot also specify ACTION.

Conditions

INVREQ
RESP2 values:
2 The request is invalid.
3 The system log cannot be changed.
4 The ACTION option has an invalid CVDA value.
5 The STATUS option has an invalid CVDA value.
7 The ACTION option specifies FLUSH or RESET for a journal that is not currently connected to a log stream.

IOERR
RESP2 values:
6 The log stream associated with the journal name cannot be connected to, or the journal cannot be opened, or an unrecoverable error has occurred during the flushing of the log buffer to the log stream.

JIDERR
RESP2 values:
1 The specified journal name was not found.
2 An error occurred during an attempt to define the log stream associated with the journal name, or the journal name has been incorrectly specified.
3 The specified journal name refers to a DASD-only log stream to which a CICS region in another MVS image is currently connected.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

SET JOURNALNUM

This command is supported in releases of CICS earlier than CICS Transaction Server for z/OS for changing the OPENSTATUS setting of a journal.

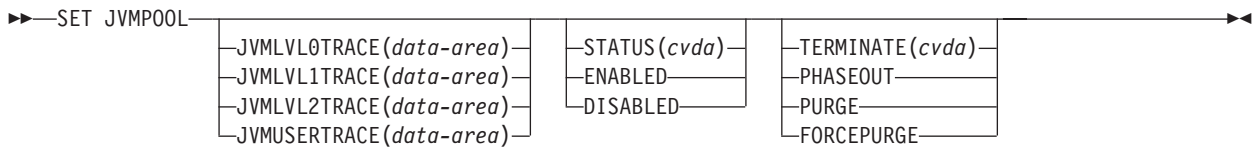
Description

For CICS Transaction Server for z/OS, this command is replaced by the SET JOURNALNAME command. All the options on the SET JOURNALNUM are obsolete, and the only run-time support provided by CICS for compatibility with earlier releases is to return the JIDERR exception condition. The translator translates the command, but issues a warning message.

SET JVMPOOL

Change the status of the JVM pool in the CICS region.

SET JVMPOOL



Conditions: INVREQ, NOTAUTH

Description

The SET JVMPOOL command allows you to change the status of the pool of JVMs in the CICS region or to terminate the pool. There can only be one pool of JVMs in a CICS region, therefore there is no name or identifier required on this command.

Options

JVMLVL0TRACE(*data-value***), JVMLVL1TRACE(***data-value***), JVMLVL2TRACE(***data-value***), JVMUSERTRACE(***data-value***)**
specify a 240–character setting for the JVM tracing options, which are used when the associated level of tracing has been activated using the CICS-supplied transaction CETR, the EXEC CICS SET TRACETYPE command, or the system initialization parameter SPCTRSJ. Trace levels 29–32 for the SJ component correspond to JVMLVL0TRACE, JVMLVL1TRACE, JVMLVL2TRACE and JVMUSERTRACE respectively.

STATUS(cvda)
specifies whether new Java requests can be accepted and serviced by the JVM pool. The CVDA values are:

ENABLED
The pool status is set to enabled for use and Java programs can execute using JVMs from the pool.

DISABLED
The pool status is set to disabled, preventing new requests from being serviced from the pool. Programs that were started before the command was issued are allowed to execute to completion.

TERMINATE(cvda)
specifies that the JVM pool is to be terminated. All the JVMs in the pool, both worker JVMs using the shared class cache and JVMs running independently of the shared class cache, are terminated. No more JVMs can use the existing shared class cache, and it is deleted when all the worker JVMs that were dependent on it have been terminated. If autostart is enabled for the shared class cache, a new shared class cache is started as soon as a new JVM requests it. The CVDA values are:

PHASEOUT
All JVMs in the pool are marked for deletion. The JVMs are actually deleted when they finish running their current Java program. The

shared class cache is deleted when all the worker JVMs that were dependent on it have been terminated.

PURGE
All tasks using JVMs in the pool are terminated using the SET TASK PURGE mechanism, and the JVMs are terminated. The shared class cache is deleted when all the worker JVMs that were dependent on it have been terminated.

FORCEPURGE
All tasks using JVMs in the pool are terminated by the SET TASK FORCEPURGE mechanism, and the JVMs are terminated. The shared class cache is deleted when all the worker JVMs that were dependent on it have been terminated.

Conditions

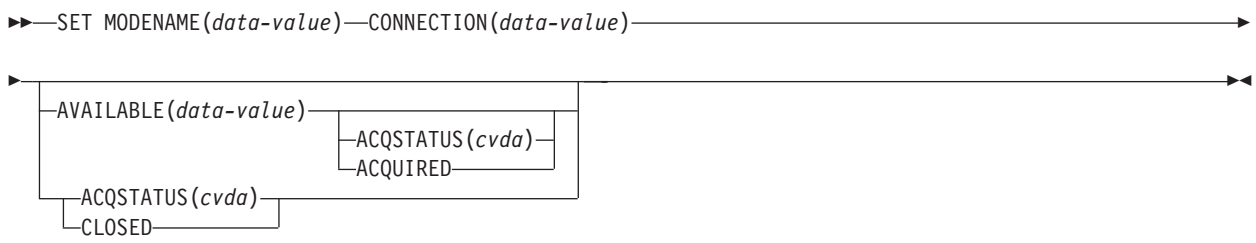
INVREQ
RESP2 values:
1 TERMINATE is specified with an invalid CVDA value.
2 STATUS is specified with an invalid CVDA value.
3 A task purge failed.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SET MODENAME

Change the number of sessions in an APPC session group.

SET MODENAME



Conditions: INVREQ, NOTAUTH, SYSIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET MODENAME command enables you to increase or decrease the number of sessions **available** (bound) in a session group on a particular APPC connection. You identify the group to be changed by the MODENAME and CONNECTION values in its SESSIONS definition, rather than the name of the SESSIONS definition. You need both values because MODENAMEs are not necessarily unique across connections.

SET MODENAME applies only to parallel session groups on an APPC connection on which CICS is already in session with its partner system, and only to groups created with a SESSIONS resource definition (not to SNASVCMG LU services manager sessions). The changes last only until the connection is released or the number of sessions is changed again.

If you increase the number of sessions, you can specify whether or not CICS should acquire the additional sessions; if you decrease the number, CICS unbinds the excess sessions automatically. If more than the target number of sessions are in use at the time of the command, CICS allows activity to quiesce before unbinding. Tasks using a session on the connection are allowed to complete, but new tasks requiring a session are not started until activity drops below the new limit.

Note: CICS uses a task that executes LU Services Manager transaction CLS1 to acquire or release sessions on parallel-session APPC connections. Data is passed to the task in a temporary storage queue whose name begins with the default prefix of DF. If your system defines queues named starting with DF as recoverable, CICS cannot initiate this task until a subsequent commit on the part of the task that issued the SET MODENAME command (either a SYNCPOINT command an implicit syncpoint).

Options

ACQSTATUS(*cvda***)**
specifies either that additional sessions are to be acquired if the AVAILABLE value increases the number, or that the number of available sessions is to be set to zero. CVDA values are:

ACQUIRED
Additional sessions, if any, are to be acquired.

CLOSED
The number of sessions is to be set to zero. CLOSED is equivalent to specifying AVAILABLE (0) and should not be specified with AVAILABLE. This value prevents either of the connected systems from using a session in the group.

AVAILABLE(*data-value***)**
specifies, as a halfword binary value, the number of sessions to be available for use at any one time. The range for this value is from zero to the MAXIMUM value specified in the SESSIONS definition; you can determine this limit, if necessary, with an INQUIRE MODENAME command.

CONNECTION(*data-value***)**
specifies the 4-character name of the connection for which this group of sessions is defined (from the CONNECTION value value in the SESSIONS definition).

MODENAME(*data-value***)**
specifies the 8-character MODENAME value of the group of sessions that you are modifying (from its SESSIONS definition).

Conditions

INVREQ
RESP2 values:
3 MODENAME 'SNASVCMG' was specified.
4 The AVAILABLE value is out of range.
5 AVAILABLE was specified but CICS is not in session on this connection.
6 CLOSED was specified with AVAILABLE.
7 ACQSTATUS has an invalid CVDA value.
8 This is not a parallel-session APPC group.
9 ACQUIRED was specified but CICS is not in session on this connection.

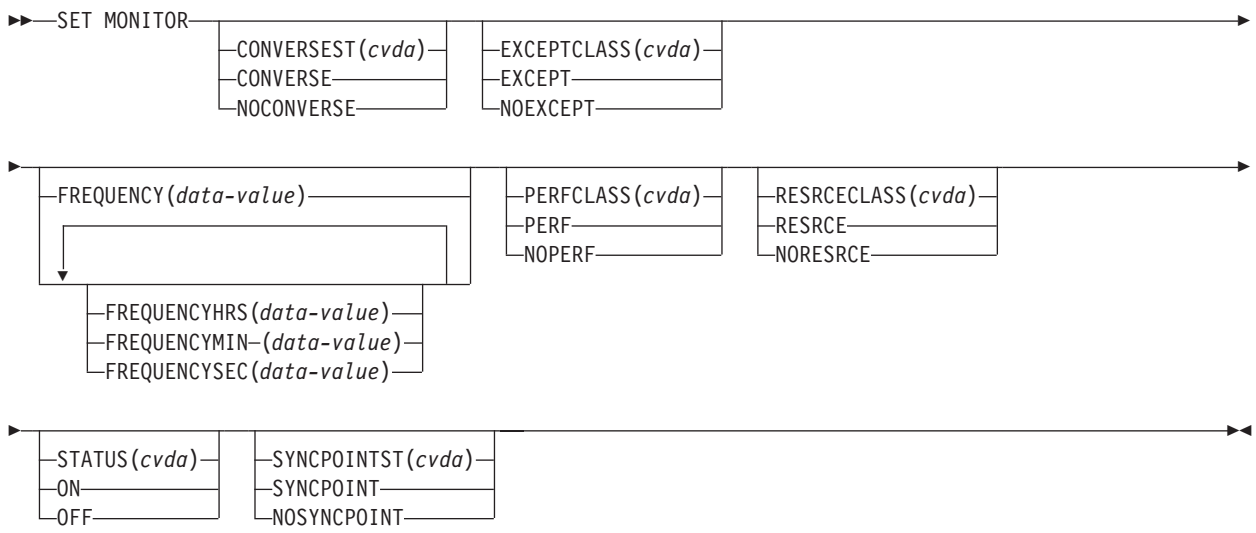
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SYSIDERR
RESP2 values:
1 The connection cannot be found.
2 The MODENAME within the connection cannot be found.

SET MONITOR

Change CICS monitoring options.

SET MONITOR



Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET MONITOR command allows you to switch CICS monitoring on or off, to modify the settings of the monitoring options, and to select the classes of monitoring data to be recorded.

CICS monitoring is controlled by a master switch (the STATUS option). Monitor data is accumulated only while the STATUS option has the value ON, and only for tasks that begin while STATUS is ON.

When monitoring is active, CICS accumulates two types of data for each individual task:

- Performance data (types and counts of CICS commands, timings, and so on)
- Exception data (waiting for a VSAM string, for example)
- Transaction resource data (counts and timings of the various file get, put, browse, add, and delete accesses, plus totals).

Additional switches determine which of these classes of monitor data are written to the SMF data set. Exception data is written only if EXCEPTCLASS is EXCEPT; transaction resource data is written only if RESRCECLASS is RESRCE; and performance data only if PERFCLASS is PERF. For an individual task, class data is recorded only if the class switch is on both at the time the task starts and at the time that class of data is written out.

Exception class data is written at the end of the event to which the exception corresponds. Performance class and transaction resource data is written only at these specific times:

- At end of task
- At a terminal-receive wait, if the CONVERSEST value is CONVERSE
- At a frequency interval, if the interval is not zero
- At a syncpoint, if the SYNCPOINTST value is SYNCPOINT
- When a user event monitoring point with the DELIVER option occurs.

If you change STATUS from ON to OFF, CICS stops accumulating and recording monitor data. Data for tasks in flight that is not already recorded is lost even if you turn monitoring back on before end of task.

Furthermore, if you are recording performance data, you should specify NOPERF in any command that sets monitoring OFF, to ensure that buffers containing recorded data for completed tasks are flushed; some of this data can be lost otherwise.

If you leave STATUS on but turn one of the recording options off and then back on during a task, however, data loss depends on the class, as follows:

- Exception data is not written out for exceptions that occur while EXCEPTCLASS is NOEXCEPT but, if you change back to EXCEPT, subsequent exceptions are recorded.
- If you change PERFCLASS from PERF to NOPERF during execution of a task, performance data already accumulated is recorded, but then recording stops. Accumulation continues, however. Therefore, if you change back to PERF before task end, no data is lost unless a monitor point with the DELIVER option occurs while NOPERF is in force. (DELIVER resets the counters.) The other conditions that ordinarily cause writing—syncpoint with a SYNCPOINTST value of SYNCPOINT, terminal receive wait with a CONVERSEST value of CONVERSE, or expiration of the frequency interval—do not reset the counts while recording is off, so that no counts are lost, although they may be combined. Also, if you switch transaction resource monitoring (RESRCECLASS) between RESRCE and NORESRCE, the rules are the same as for performance class.

Options

CONVERSEST(*cvda***)**
specifies how CICS is to record performance data for conversational tasks (tasks that wait for terminal or session input).

CONVERSE
CICS is to produce a performance class record each time the task waits for terminal input as well as at task end, representing the part of the task since the previous wait (or task start). (Waits occur during execution of a CONVERSE command or a RECEIVE command that follows a SEND.)

NOCONVERSE
CICS is to accumulate performance data across terminal waits and produce a single performance class record.

EXCEPTCLASS(*cvda***)**
specifies whether the exception class of monitoring data is to be recorded when monitoring is active. CVDA values are:

EXCEPT
Exception data is to be recorded.

NOEXCEPT
Exception data is not to be recorded.

FREQUENCY(*data-value***)**
specifies the interval at which CICS is to produce performance class records for long-running tasks. If a task runs longer than the frequency interval, CICS records its performance data separately for each interval or fraction.

The frequency interval can be expressed in several ways:

- A 4-byte packed decimal composite, in the format *0hhmmss+*, using the FREQUENCY option.
- With separate hours, minutes, and seconds, using the FREQUENCYHRS, FREQUENCYMIN, and FREQUENCYSEC options. You can use these options singly or in any combination.

Whichever method you use, the interval value must be either zero or in the range from 1 minute to 24 hours. Zero means CICS is to produce performance records only at task end, regardless of the length of the task.

In addition, if you use FREQUENCY or more than one of the separate options, the minutes and seconds portions of the value must not be greater than 59 (FREQUENCYMIN or FREQUENCYSEC used alone can exceed 59). For example, you could express an interval of 1 hour and 30 minutes in any of the following ways:

- FREQUENCY(13000)
- FREQUENCYHRS(1), FREQUENCYMIN(30)
- FREQUENCYMIN(90)
- FREQUENCYSEC(5400)

FREQUENCYHRS(*data-value***)**
specifies the hours component of the frequency interval, in fullword binary form (see the FREQUENCY option).

FREQUENCYMIN(*data-value***)**
specifies the minutes component of the frequency interval, in fullword binary form (see the FREQUENCY option).

FREQUENCYSEC(*data-value***)**
specifies the seconds component of the frequency interval, in fullword binary form (see the FREQUENCY option).

PERFCLASS(*cvda***)**
specifies whether the performance class of monitoring data is to be recorded when monitoring is active. CVDA values are:

NOPERF
Performance data is not to be recorded.

PERF Performance data is to be recorded.

RESRCECLASS*cvda***)**
specifies whether CICS transaction resource monitoring is to be active or disabled. CVDA values are:

NORESRCE
CICS is not to perform transaction resource monitoring . No transaction resource data is accumulated or written to SMF.

RESRCE
CICS is to perform transaction resource monitoring . Data is accumulated for the resources that are specified in the MCT (for example, CICS files) and written to SMF.

STATUS(*cvda***)**
specifies whether CICS monitoring is to be active or disabled. CVDA values are:

OFF Monitoring is not to occur. No data is accumulated or written out, irrespective of the settings of the monitoring data classes.

ON Monitoring is to be active. Data is accumulated for all classes of monitor data, and written out for those classes that are active.

SYNCPOINTST(*cvda***)**
specifies whether CICS is to record performance class data separately for each unit of work (UOW) within tasks that contain multiple UOWs. A UOW within a task ends when a syncpoint occurs, either explicitly (a SYNCPOINT command) or implicitly (a DL/I TERM call, for example, or task end); a new UOW begins immediately, except at end of task. When rollback occurs on a syncpoint, the UOW does not end. CVDA values are:

NOSYNCPOINT
Performance data is to be combined over all UOWs in a task.

SYNCPOINT
Performance data is to be recorded separately for each UOW.

Conditions

INVREQ
RESP2 values:

1 STATUS has an invalid CVDA value.
2 PERFCLASS has an invalid CVDA value.
3 EXCEPTCLASS has an invalid CVDA value.
5 CONVERSEST has an invalid CVDA value.
6 SYNCPOINTST has an invalid CVDA value.
7 The FREQUENCY value is invalid. (The hours exceed 24, minutes or seconds exceed 59, or total value is out of range.)
8 The FREQUENCYHRS value is out of range.
9 The FREQUENCYMIN value is out of range.
10 The FREQUENCYSEC value is out of range.

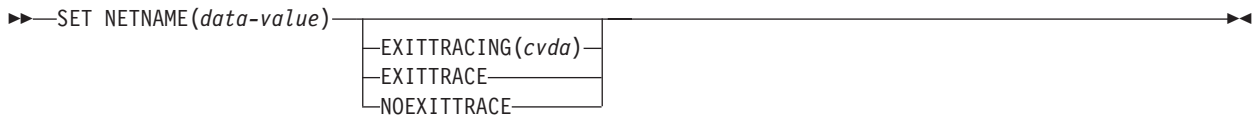
NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SET NETNAME

Change the tracing of a VTAM terminal.

SET NETNAME



Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET NETNAME command allows you to control CICS VTAM exit tracing for a particular VTAM terminal (or session). You can specify any VTAM terminal or session, including one not yet installed in CICS, so that you can trace the autoinstall process as well as other operations.

Options

EXITTRACING(*cvda***)**
specifies whether this terminal (or session) should be traced when CICS is tracing terminal-specific invocations of its VTAM exits. (You can turn exit tracing on and off with a SET TRACEFLAG TCEXITSTATUS command or the CICS-supplied transaction CETR.) CVDA values are:

EXITTRACE
The terminal is to be traced.

NOEXITTRACE
The terminal is not to be traced.

NETNAME(*data-value***)**
specifies the 8-character VTAM network identifier of the terminal or session for which you are specifying tracing.

Conditions

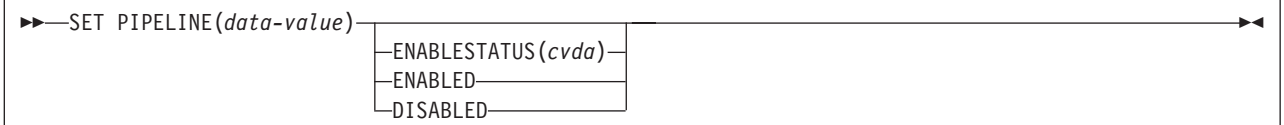
INVREQ
RESP2 values:
27 EXITTRACING has an invalid CVDA value.
29 The terminal is not a VTAM terminal.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SET PIPELINE

Change the status of an installed PIPELINE.

SET PIPELINE



Conditions: INVREQ, NOTAUTH, NOTFOUND

Description

Use the SET PIPELINE command to change the status of an installed PIPELINE

Options

PIPELINE(*data-value*)
Specifies the 8-character name of the PIPELINE about which you are inquiring.

ENABLESTATUS(*cvda*)
Specifies the status of the PIPELINE:

ENABLED
Inbound service requests for this PIPELINE are processed normally.

DISABLED
Inbound service requests for this PIPELINE are rejected.

Conditions

INVREQ
RESP2 values:
11 An attempt was made to enable or disable an PIPELINE that is in an invalid state

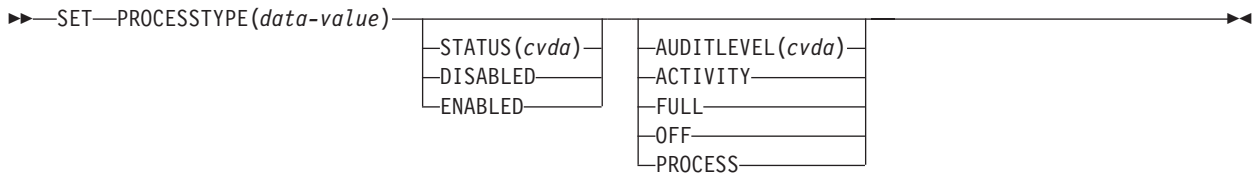
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
3 The PIPELINE was not found.

SET PROCESSTYPE

Change the attributes of a CICS business transaction services (BTS) process-type.

SET PROCESSTYPE



Conditions: INVREQ, NOTAUTH, PROCESSERR

Description

SET PROCESSTYPE allows you to change the current state of audit logging and the enablement status of PROCESSTYPE definitions installed on this CICS region.

Note: Process-types are defined in the process-type table (PTT). CICS uses the entries in this table to maintain its records of processes (and their constituent activities) on external data sets. If you are using BTS in a single CICS region, you can use the SET PROCESSTYPE command to modify your process-types. However, if you are using BTS in a sysplex, it is strongly recommended that you use CPSM to make such changes. This is because it is essential to keep resource definitions in step with each other, across the sysplex.

Options

AUDITLEVEL(cvda)
specifies the level of audit logging to be applied to processes of this type.

Note: If the AUDITLOG attribute of the installed PROCESSTYPE definition is not set to the name of a CICS journal, an error is returned if you try to specify any value other than OFF.

The CVDA values are:

ACTIVITY
Activity-level auditing. Audit records are written from:
1. The process audit points
2. The activity primary audit points.

FULL Full auditing. Audit records are written from:
1. The process audit points
2. The activity primary *and* secondary audit points.

OFF No audit trail records are written.

PROCESS
Process-level auditing. Audit records are written from the process audit points only.

For details of the records that are written from the process, activity primary, and activity secondary audit points, see the *CICS Business Transaction Services* manual.

PROCESSTYPE(value)
specifies the 8-character name of a process-type defined in the process-type table (PTT), whose attributes are to be changed.

STATUS(cvda)
specifies whether new processes of this type can be created. The CVDA values are:

DISABLED
The installed definition of the process-type is disabled. New processes of this type cannot be defined.

ENABLED
The installed definition of the process-type is enabled. New processes of this type can be defined.

Conditions

INVREQ
RESP2 values:
2 The process-type is not disabled, and therefore cannot be enabled.
3 You have specified an invalid CVDA value on the AUDITLEVEL option.
5 You have specified an invalid CVDA value on the STATUS option.
6 You have specified a value of FULL, PROCESS, or ACTIVITY on the AUDITLEVEL option, but the AUDITLOG attribute of the PROCESSTYPE definition does not specify an audit log.

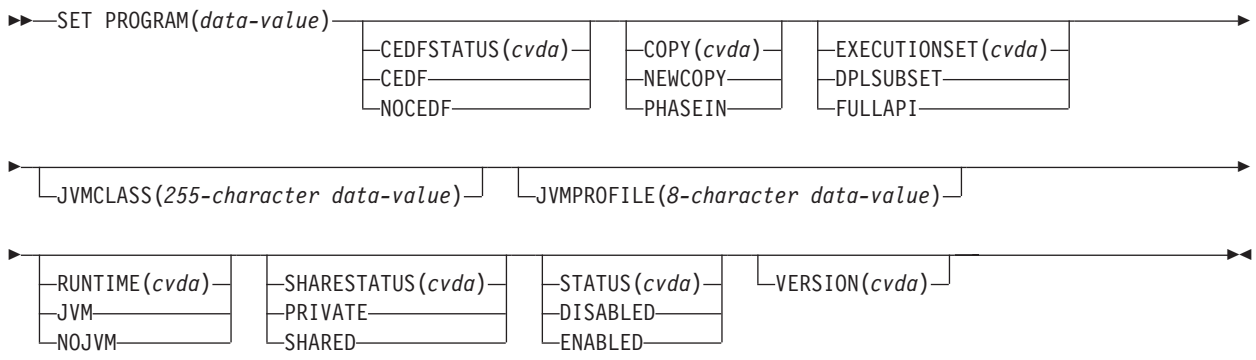
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

PROCESSERR
RESP2 values:
1 The process-type named in the PROCESSTYPE option is not defined in the process-type table (PTT).

SET PROGRAM

Change a PROGRAM, MAPSET, or PARTITIONSET definition.

SET PROGRAM



Conditions: INVREQ, IOERROR, NOTAUTH, PGMIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET PROGRAM command modifies the definition of a particular program, map set, or partition set installed in your CICS system. All of these resources are load modules and, therefore, CICS uses the same SET command for all three. To avoid confusion, we use the word **module** to refer to the object of your command, except when the option applies only to executable programs.

Options

CEDFSTATUS(*cvda***) (programs only)**
specifies what action the execution diagnostic facility (EDF) is to take if this program is executed under EDF. CVDA values are:

CEDF EDF diagnostic screens are to be displayed. If the program was translated with the EDF option, all EDF screens are displayed; if it was translated with NOEDF, only the program initiation and termination screens appear.

NOCEDF
No EDF screens are displayed.

You cannot specify CEDFSTATUS for a remote program.

COPY(*cvda***)**
specifies that a new copy of the program is to be used the next time the module is requested. LINK, XCTL, LOAD, ENABLE, and BMS commands can cause a module request.

CICS does not load the module at this time, but it does ensure that a copy is available. If you have specified the SHARED option and the module is in the link-pack area, the LPA copy satisfies this requirement. Otherwise, CICS

searches the concatenated DFHRPL libraries, and returns an IOERR exception if it cannot locate a copy there. CVDA values are:

NEWCOPY
The module is to be refreshed only if it is not currently in use; otherwise CICS returns an INVREQ exception instead. (You can determine whether a module is in use from the RESCOUNT option in an INQUIRE PROGRAM command; a value of zero means the program is not in use.)

This option is not valid for JVM programs, and is ignored if specified.
You can achieve a synchronized replacement of a JVM program by
using the command:
#
```
SET JVMPOOL  PHASEOUT
```

PHASEIN
The refresh is to occur whether or not the module is in use. If it is, the copy or copies in use remain until they are no longer in use, but all requests that occur after the refresh use the new copy.

This option is permitted for JVM programs, *but* it is ignored if specified.
You can achieve a synchronized replacement of a JVM program by
using the command:
#
```
SET JVMPOOL  PHASEOUT
```

COPY cannot be specified for any module currently loaded with the HOLD option, or for any program defined as remote.

EXECUTIONSET(*cvda***) (programs only)**
specifies whether the program is to be restricted to executing the distributed program link (DPL) subset of the CICS API. EXECUTIONSET applies only to executable programs, and governs the API only when a program executes locally. (Programs are always restricted to this subset when invoked remotely—that is, when executing at or below the level of a program invoked by DPL.) CVDA values are:

DPLSUBSET
The program is always to be restricted. You cannot specify this value for CICS-supplied programs (those beginning with 'DFH').

FULLAPI
The program is not to be restricted unless invoked remotely.

The EXECUTIONSET attribute applies only:

- to programs which are being linked to, and not to those which are the first to be given control by a transaction.
- when the REMOTESYSTEM name is the same name as the local CICS region. Its purpose is to test programs in a local CICS environment as if they were running as DPL programs.

JVMCLASS(*255–character data-value***) (JVM programs only)**
specifies the name of the main class in the Java program to be given control by the JVM. If you specify JVM in the RUNTIME option, you should specify a JVMCLASS value. If you specify NOJVM in the RUNTIME option, any value in the JVMCLASS option is ignored when the program is executed.

JVMPROFILE(*8–character data-value***) (JVM programs only)**
specifies the name of a JVM profile that is to be used for the JVM in which this program runs. Any instances of this program that are currently running in a JVM with the old JVM profile are unaffected, and are allowed to finish running.

When you use the name of a JVM profile anywhere in CICS, you must enter it using the same combination of upper and lower case characters that is present in the HFS file name.

PROGRAM(*data-value***)**
specifies the 8-character name of the program, map set, or partition set definition to be changed.

RUNTIME(*cvda***) (JVM programs only)**
specifies whether the program is to run under the control of a JVM. CVDA values are:

JVM The program is to run under the control of a JVM. You should specify a JVMCLASS value.

NOJVM
The program is not to run under the control of a JVM. Any value in the JVMCLASS option is ignored and the runtime environment of the changed program is unknown until the program is next loaded by CICS, at which point its language, and hence whether it will run with LE370, is determined.

SHARESTATUS(*cvda***)**
specifies where CICS should obtain the module the next time a new copy is required. A new copy request can result from either an explicit request (SET PROGRAM COPY or the CEMT equivalent) or from a command that requires the module that is issued when CICS does not currently have a copy. CVDA values are:

PRIVATE
The module is to be loaded from the concatenated libraries named on the DFHRPL DD statement.

SHARED
The link-pack area copy is to be used, if one is available. If not, the module is loaded as if SHARESTATUS were PRIVATE.

You cannot specify SHARESTATUS for a remote program. Any value specified for JVM programs is ignored.

STATUS(*cvda***)**
specifies whether the module is to be available for use. CVDA values are:

DISABLED
The module is to be unavailable. CICS programs (beginning with 'DFH') cannot be disabled.

ENABLED
The module is to be available.

For a program defined as remote, this option governs availability only when the program is invoked through the local CICS system; it does not change availability on the remote system.

The ENABLED and DISABLED option are honored for a program that is invoked through a CICS program link request, but they have no effect if the program is invoked by a Java program through a method call.

VERSION(*cvda***)**
returns a CVDA value indicating whether the copy CICS located for a COPY request is different from the current copy. A value is returned only when the COPY option is also specified; in other cases the CVDA value is unchanged.

For this purpose, CICS defines “different” to mean a switch from a copy loaded from the DFHRPL libraries to the link-pack area copy or vice-versa, or a copy loaded from a disk location different from that of the current copy. CVDA values are:

NEWCOPY
The new copy is different.

OLDCOPY
The new copy is not different. This value is always returned for JVM programs.

Conditions

INVREQ
RESP2 values:

1 DISABLED or DPLSUBSET was specified for a program beginning ‘DFH’.
2 STATUS has an invalid CVDA value.
3 NEWCOPY was specified and RESCOUNT is not equal to zero.
4 SHARESTATUS has an invalid CVDA value.
5 COPY has an invalid CVDA value.
6 COPY was specified for a module currently loaded with the HOLD option.
9 CEDFSTATUS has an invalid CVDA value.
17 You have specified an option that is invalid for a remote program (CEDFSTATUS, COPY, EXECUTIONSET or SHARESTATUS).
18 You have specified an option that is invalid for a map set (CEDFSTATUS or EXECUTIONSET).
19 You have specified an option that is invalid for a partition set (CEDFSTATUS or EXECUTIONSET).
20 EXECUTIONSET has an invalid CVDA value.
22 RUNTIME has an invalid CVDA value.
23 JVM was specified but no JVMCLASS has been supplied.
24 DEBUG was specified but RUNTIME was not set to JVM.
25 JVMCLASS contains embedded blanks or null (x'00') characters.
26 JVMPROFILE contains invalid characters or embedded blanks.

IOERR
RESP2 values:

8 Either the COPY option or the RUNTIME(NOJVM) option was specified but CICS could not locate the module.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

PGMIDERR
RESP2 values:

7 The program, map set, or partition set cannot be found.

Examples

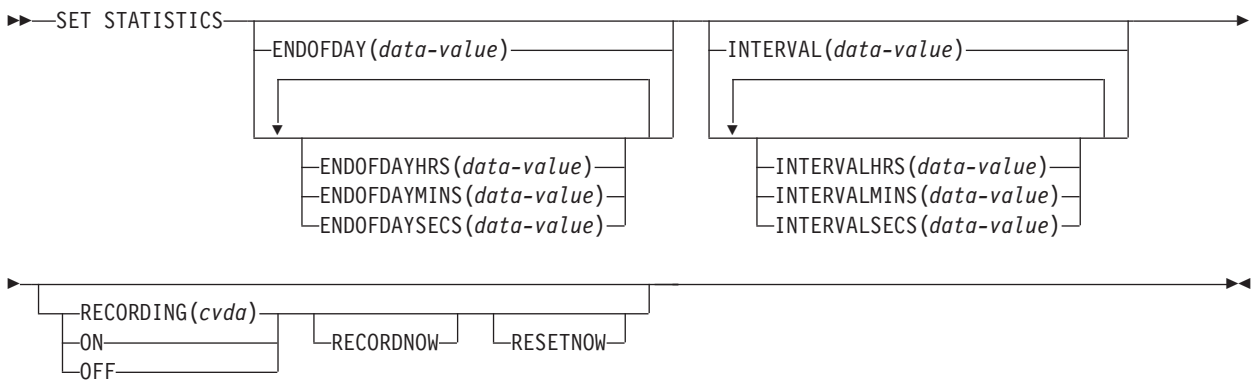
```
EXEC CICS SET PROGRAM ('PROGA')
              PHASEIN
              PRIVATE
              DISABLED
```

In this example, CICS is to make module PROGA unavailable for new requests, and to locate a new copy in one of the DFHRPL libraries. Any copies of PROGA with a non-zero RESCOUNT will remain until no longer in use, but new requests for PROGA will fail until PROGA is set to ENABLED status. On the first request after the module is enabled, CICS loads the new copy and makes it the current one.

SET STATISTICS

Change the recording of CICS statistics.

SET STATISTICS



Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET STATISTICS command allows you to change values that control the recording of CICS statistics and to reset the counts.

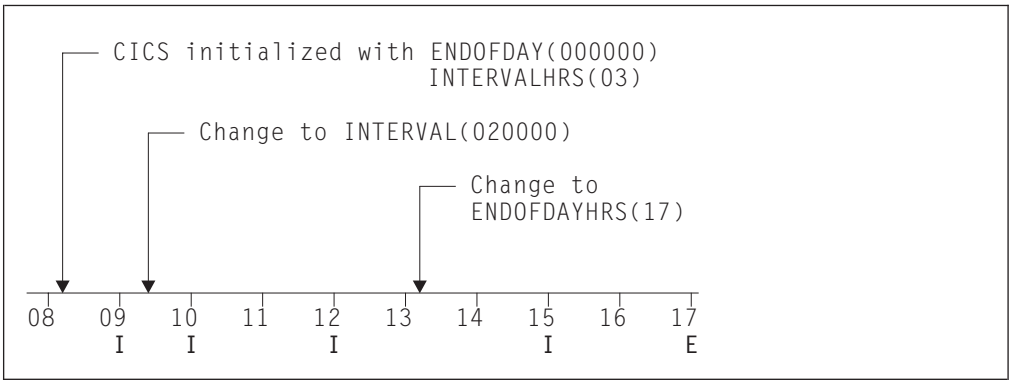
CICS records system and resource statistics periodically if the RECORDING switch is on, at a frequency governed by the INTERVAL option. These statistics are called **interval statistics**. At end-of-day time (the ENDOFDAY option), CICS records **end-of-day statistics**—which are the statistics for the interval since the last resetting—whether or not the switch is on, ensuring that statistics are written at least once a day. Recording occurs on a system management facility (SMF) data set, and the counts are reset after recording.

When CICS is initialized, the length of the first interval is adjusted so that an integral number of intervals remains until end-of-day time. If you change the recording interval, the same adjustment is made to the current interval. The arrival of end-of-day time, whether changed or not, ends the current recording interval. After the statistics are written out, the next interval is adjusted again if necessary, so that the recording interval divides the time remaining to the next end-of-day evenly.

Note: These adjustments are made whether or not the statistics for the interval get recorded. Consequently, if you want to capture all of the statistics, set RECORDING ON or let your end-of-day recording cover all of them by setting the recording interval to 24 hours.

These rules are illustrated by the following example. **I** indicates an interval recording and **E** indicates an end-of-day recording. The system is cold started with STATRCD,

the option that sets the initial value for the RECORDING switch, set to ON.



The *CICS Performance Guide* contains more detail about CICS statistics, including the values to which various types of statistics are reinitialized.

The two time values that you can set with this command can be expressed in several ways:

- A 4-byte packed decimal composite, in the format *0hhmmss+*, which you specify with the ENDOFDAY or INTERVAL option.
- Separate hours, minutes and seconds, which you specify with the ENDOFDAYHRS, ENDOFDAYMINS, and ENDOFDAYSECS options (instead of ENDOFDAY) and INTERVALHRS, INTERVALMINS, and INTERVALSECS (instead of INTERVAL). You can use these options singly or in any combination.

For example, you could express an INTERVAL of 1 hour and 30 minutes in any of the following ways:

- INTERVAL(13000)
- INTERVALHRS(1), INTERVALMINS(30)
- INTERVALMINS(90)
- INTERVALSECS(5400)

Options

ENDOFDAY(*data-value***)**
specifies the end-of-day time, as a 4-byte packed decimal field in the format *0hhmmss+*.

End-of-day time is expressed in local time and must be in the range 00:00:00-23:59:59. When you use the ENDOFDAY option, or more than one of the separate end-of-day options, neither the minutes nor the seconds portions can exceed 59. If you use ENDOFDAYMINS alone the limit is 1439 and for ENDOFDAYSECS used alone it is 86399.

ENDOFDAYHRS(*data-value***)**
specifies the hours component of the end-of-day time, in fullword binary form. (See the ENDOFDAY option.)

ENDOFDAYMINS(*data-value***)**
specifies the minutes component of the end-of-day time, in fullword binary form. (See the ENDOFDAY option.)

ENDOFDAYSECS(*data-value***)**
specifies the seconds component of the end-of-day time, in fullword binary form. (See the ENDOFDAY option.)

INTERVAL(*data-value***)**
specifies the recording interval for system statistics, as a 4-byte packed decimal field in the format *0hhmmss+*. The interval must be at least a minute and no more than 24 hours. When you use the INTERVAL option, or more than one of the separate interval options, neither the minutes nor the seconds portions of the time must exceed 59. If you use INTERVALMINS alone the range is 1-1440 and for INTERVALSECS used alone it is 60-86400.

INTERVALHRS(*data-value***)**
specifies the hours component of the recording interval, in fullword binary form. (See the INTERVAL option.)

INTERVALMINS(*data-value***)**
specifies the minutes component of the recording interval, in fullword binary form. (See the INTERVAL option.)

INTERVALSECS(*data-value***)**
specifies the seconds component of the recording interval, in fullword binary form. (See the INTERVAL option.)

RECORDING(*cvda***)**
specifies whether to record the interval statistics. End-of-day statistics, requested statistics and unsolicited statistics are always recorded, irrespective of the setting of the RECORDING option. (Statistics are always accumulated, and end-of-day, unsolicited, and requested statistics always recorded, regardless of the setting of the RECORDING option. Unsolicited statistics are resource statistics, recorded when the resource is discarded. Requested statistics are those called for by a PERFORM STATISTICS RECORD command, described on page 466, or by a CEMT PERFORM STATISTICS transaction.)

CVDA values are:

OFF switches off the recording of interval statistics.

ON switches on the recording of interval statistics.

RECORDNOW
specifies that the current statistics are to be to written out immediately. The effect is the same as a PERFORM STATISTICS RECORD ALL command and, as in the case of that command, the counts are not reset unless you specify RESETNOW as well. RECORDNOW can be specified only when the RECORDING status is changed from ON to OFF or from OFF to ON.

RESETNOW
specifies that the statistics counters are to be reset to their initial values. The initial value for a given counter depends on the type of statistic being collected; see 'CICS statistics tables' in the *CICS Performance Guide* for specific information. The reset can be requested only when the RECORDING status is changed from ON to OFF or from OFF to ON.

Conditions

INVREQ
RESP2 values:
1 The INTERVAL value is out of range.
2 The ENDOFDAY value is out of range.
3 RECORDING has an invalid CVDA value.
4 The INTERVALHRS value is out of range.
5 The INTERVALMINS value is out of range.
6 The INTERVALSECS value is out of range.

7 More than one of the interval values has been used and the combination either exceeds 24 hours or is less than 1 minute.
8 The ENDOFDAYHRS value is out of range.
9 The ENDOFDAYMINS value is out of range.
10 The ENDOFDAYSECS value is out of range.
11 RESETNOW or RECORDNOW has been specified, but the RECORDING value has not been changed.

NOTAUTH

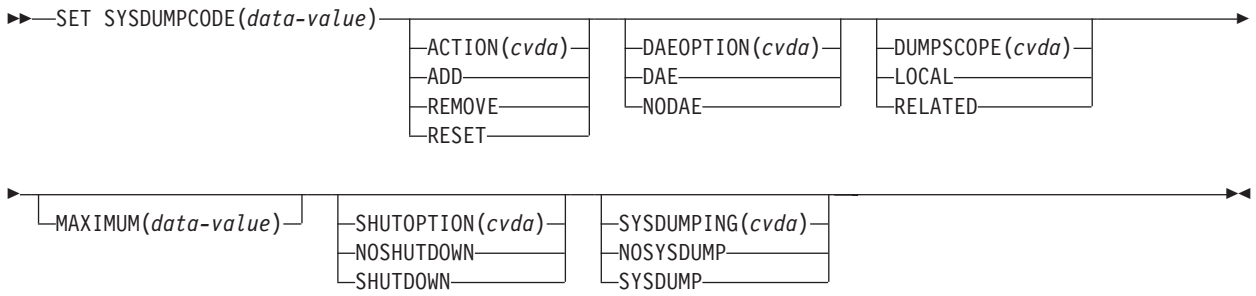
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SET SYSDUMPCODE

Change an entry in the system dump table.

SET SYSDUMPCODE



Conditions: DUPREC, INVREQ, IOERR, NOSPACE, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET SYSDUMPCODE command allows you to change the system dump table entry for a particular dump code, to add a new dump code to the table, or to delete one.

The table entry tells CICS the actions to take when a system dump request with this code occurs. Possible actions include taking a system dump (an MVS SDUMP), initiating requests for SDUMPs of related CICS regions, and shutting down CICS. The table entry also indicates how many times this set of actions is to be taken (the MAXIMUM value); after the maximum is reached, requests are counted but otherwise ignored.

Table updates are recorded in the CICS global catalog and preserved over executions of CICS until an initial or cold start occurs, except in the case of temporary table entries. CICS creates a temporary entry when it receives a dump request with a code for which there is no table entry; these entries, and any changes to them, last only for the current execution of CICS. If you want to preserve changes to a temporary entry over restarts, you must remove the dump code from the table and then add it back.

For information about system dumps, see the *CICS Problem Determination Guide*.

Options

ACTION(*cvda***)**
specifies the action to be taken for the dump code. CVDA values are:

ADD An entry for this code is to be added to the table.

REMOVE
The entry for this code is to be removed from the table. No other option can be specified on a SET SYSDUMPCODE REMOVE command.

RESET
The current number of dump requests for this code is to be set to zero. (See the CURRENT option of the INQUIRE SYSDUMPCODE command.)

DAEOPTION
specifies whether a dump produced for this dump code is eligible for suppression by the MVS Dump Analysis and Elimination (DAE) component. CVDA values are:

DAE The dump is eligible for DAE suppression.

NODAE
The dump is not eligible for DAE suppression—if CICS determines that a dump should be written, MVS does not suppress it. (However, be aware of the SUPPRESS and SUPPRESSALL options in the ADYSETxx parmlib member. These are controlled by the VRADAE and VRANODAE keys in the SDWA. They may lead to dump suppression even though NODAE is set here. For information about DAE, SUPPRESS, and SUPPRESSALL, see the *z/OS V1R4.0 MVS Diagnosis: Tools and Service Aids* manual.

When SET SYSDUMPCODE ADD is specified, if you do not also specify DAEOPTION, it defaults to NODAE—regardless of the setting of the SIT DAE parameter.

DUMPSCOPE(*cvda***)**
specifies whether a request for a dump with this dump code should cause CICS to initiate requests for SDUMPs (system dumps) of “related” CICS regions.

A related CICS region is one in the same sysplex, connected by MRO/XCF and doing work on behalf of your CICS region—specifically, a region that has one or more tasks doing work under the same APPC token as a task in your region.

This propagation of SDUMP requests occurs only when the table entry for this code also specifies a SYSDUMPING value of SYSDUMP, and only in a sysplex environment executing under MVS/ESA 5.1 and the MVS workload manager.

If you specify RELATED in other systems, this causes an exception condition.

CVDA values are:

LOCAL SDUMP requests are not to be sent.

RELATED SDUMP requests are to be sent.

LOCAL is the default for entries you add, if you do not specify a DUMPSCOPE value.

MAXIMUM(*data-value***)**
specifies, as a fullword binary value, the maximum number of dumps with this code that CICS should request, in the range 0-999. After the maximum is reached, CICS counts but otherwise ignores dump requests with this code. A value of 999 means there is no limit, and is the default for new entries if you do not specify a MAXIMUM value.

SHUTOPTION(*cvda***)**
specifies whether the system is to be shut down after a request for a dump with this dump code. CVDA values are:

NOSHUTDOWN
The system is not to be shut down.

SHUTDOWN
The system is to be shut down.

NOSHUTDOWN is assumed if you omit this value from a SET SYSDUMPCODE ADD command.

SYSDUMPCODE(*data-value***)**
specifies the 8-character system dump code for which the system dump table entry is to be modified. A valid system dump code contains no leading or imbedded blanks.

SYSDUMPING(*cvda***)**
specifies whether a system dump request with this code should produce a dump. CVDA values are:

NOSYSDUMP A dump is not to be taken.

SYSDUMP A dump is to be taken.

Even when SYSDUMP is specified, CICS takes a dump only if the number of requests for this code is less than the MAXIMUM and system dumps are not suppressed globally (see the DUMPING option of the INQUIRE SYSTEM command). MVS may also be allowed to suppress the dump if appropriate, depending on the DAEOPTION value.

If the SYSDUMPING option is omitted from a SET SYSDUMPCODE ADD command, SYSDUMP is assumed.

Conditions

DUPREC
RESP2 values:
10 ADD is specified for a dump code already in the system dump table.

INVREQ
RESP2 values:
2 ACTION has an invalid CVDA value.
4 SYSDUMPING has an invalid CVDA value.
5 The MAXIMUM value is out of range.
6 SHUTOPTION has an invalid CVDA value.
7 REMOVE is specified with other options.
9 The dump code is invalid.
13 DUMPSCOPE has an invalid CVDA value.
14 RELATED requires MVS/ESA 5.1.
15 DAEOPTION has an invalid CVDA value.

IOERR
RESP2 values:
11 An error occurred updating the CICS catalog. The entry is changed for the current run, but is not recorded for restarts.

NOSPACE
RESP2 values:
12 The CICS catalog is full. The entry is changed for the current run, but is not recorded for restarts.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND

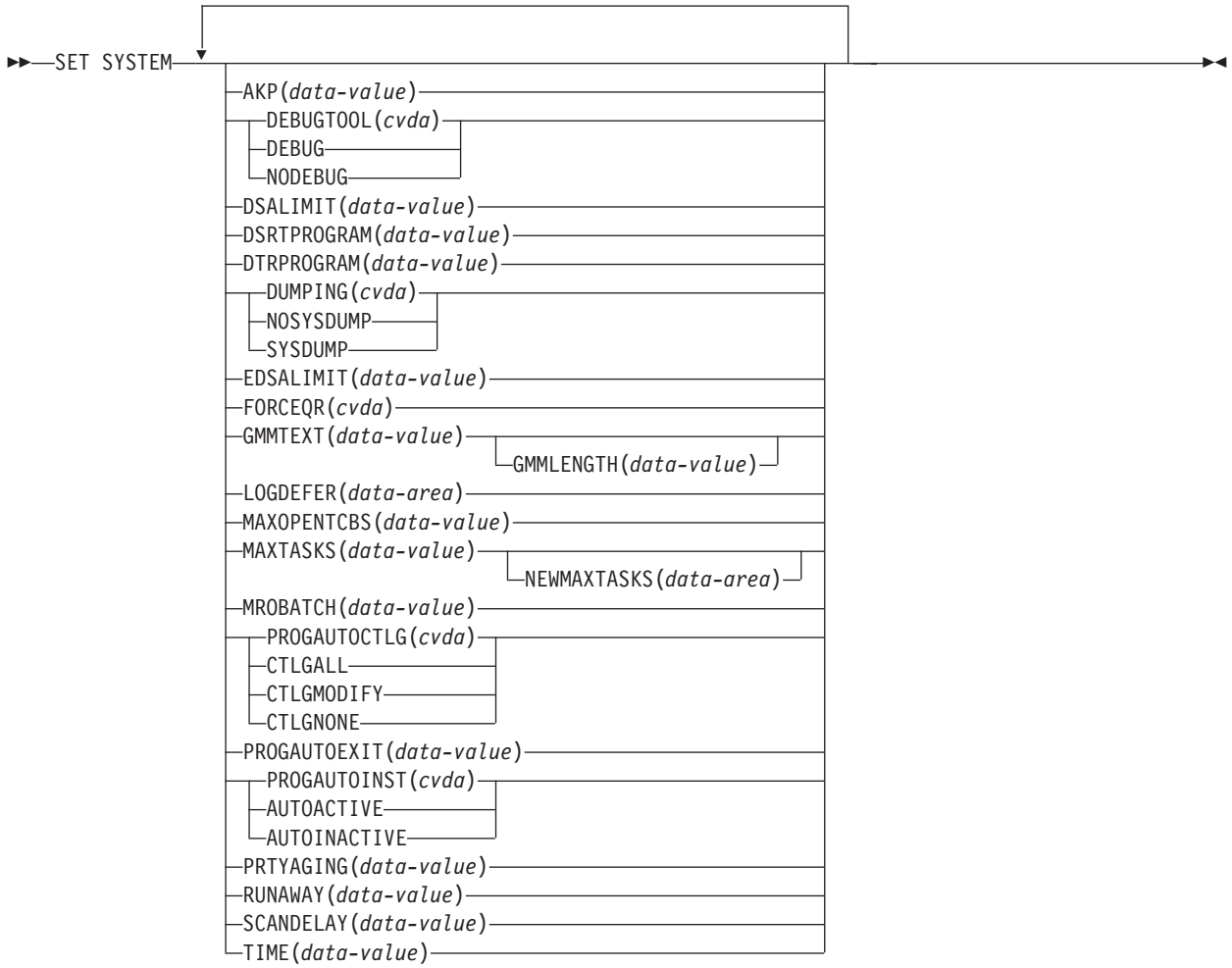
RESP2 values:

1 The dump code cannot be found.

SET SYSTEM

Change CICS system option values.

SET SYSTEM



Conditions: INVREQ, LENGERR, NOSTG, NOTAUTH, NOTSUPERUSER

Notes:

1. For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.
2. The CSCS, ECSCS, USCS, EUSCS, and ERSCS options, each of which returned the size of the storage “cushion” for a particular dynamic storage area, are obsolete. To maintain object compatibility, they are accepted at run time but ignored. The translator also accepts them, but issues a warning message.

Description

The SET SYSTEM command allows you to change the values of some of the options that control the execution of your CICS system.

These values are set initially by system initialization parameters, described in the *CICS System Definition Guide*. System initialization parameters that correspond to those in this command have the same or similar names, except where noted. Table 3 on page 318 lists the exact correspondence.

Options

AKP(*data-value***)**
specifies, as a fullword binary value, the activity keypoint trigger value, which is the number of write requests to the CICS system log stream output buffer between the taking of keypoints. The number must be either zero, which turns off keypointing, or in the range 200–65535. If CICS was initialized without keypointing (that is, with the AKPFREQ system initialization parameter set to zero), the initial value can be overridden and a trigger value can be set.

DEBUGTOOL(*cvda***)**
Specifies a CVDA value indicating whether you want to use debugging profiles to select the programs that will run under the control of a debugging tool. The following debugging tools use debugging profiles:

- Debug Tool, for compiled language application programs (programs written in COBOL, PL/I, C, C++ and Assembler)
- Remote debugging tools (for compiled language application programs and Java programs)

Other debugging mechanisms, such as the CICS Execution Diagnostic Facility (CEDF) do not use debugging profiles.

The CVDA values are:

DEBUG
Specifies that you want to use CICS debugging profiles to select the programs that will run under the control of a debugging tool.

NODEBUG
Specifies that you do not want to use CICS debugging profiles to select the programs that will run under the control of a debugger tool.

For more information about using debugging profiles, see the *CICS Application Programming Guide*.

DSALIMIT(*data-value***)**
specifies, as a fullword binary value, the maximum amount of storage, in bytes, within which CICS can allocate storage for the four individual dynamic storage areas (DSAs) that reside below the 16MB boundary. If DSALIMIT specifies a value lower than the current limit, CICS may not be able to implement the new limit immediately, but will attempt to do so over time as storage is freed. The range for DSALIMIT is 2MB–16MB.

DSRTPROGRAM(*data-value***)**
specifies the 8-character name of the distributed routing program.

DTRPROGRAM(*data-value***)**
specifies the 8-character name of the dynamic routing program.

DUMPING(*cvda***)**
specifies a CVDA value indicating whether the taking of CICS system dumps is to be suppressed. CVDA values are:

NOSYSDUMP
System dumps are to be suppressed.

SYSDUMP
System dumps are not to be suppressed.

EDSALIMIT(*data-value***)**
specifies, as a fullword binary value, the maximum amount of storage, in bytes, within which CICS can allocate storage for the four individual dynamic storage areas that reside above the 16MB boundary. If EDSALIMIT specifies a value lower than the current limit, CICS may not be able to implement the new limit immediately, but will attempt to do so over time as storage is freed. The range for EDSALIMIT is 10MB–2GB.

FORCEQR(*cvda***)**
specifies whether you want CICS to force all user application programs specified as CONCURRENCY(THREADSAFE) to run under the CICS QR TCB, as if they were specified as CONCURRENCY(QUASIRENT) programs.

This allows you, in a test environment, to run incompletely tested threadsafe application programs that have proved to be non-threadsafe.

FORCEQR applies to all programs defined as threadsafe that are not invoked as task-related user exits, global user exits, or user-replaceable modules.

CVDA values are:

FORCE
Force all CICSAPI user application programs to run under the QR TCB, even if they are defined with the CONCURRENY(THREADSAFE) attribute. Force does not apply to OPENAPI programs or C/C++ programs compiled with XPLINK.

NOFORCE
CICS is to honor the CONCURRENCY(THREADSAFE) attribute defined on program resource definitions, and invoke them under either the QR TCB or an open TCB.

The FORCEQR(FORCE|NOFORCE) option allows you to change dynamically the option specified by the FORCEQR system initialization parameter.

Specifying FORCEQR(FORCE) is not applied to currently invoked programs, and applies only to programs invoked for the first time after the change to the FORCEQR status.

GMMLENGTH(*data-value***)**
specifies, as a halfword binary value, the length of the “good morning” message text. The range for this value is 1–246.

GMMTEXT(*data-value***)**
specifies the “good morning” message text, which can be up to 246 characters long.

LOGDEFER(*data-area***)**
specifies, as a halfword binary value, the log deferral interval, which is the period of time used by CICS Log Manager when determining how long to delay a forced journal write request before invoking the MVS system logger. The value can be in the range 0-65535. See the *CICS System Definition Guide* for information about the LOGDEFER parameter and associated SIT parameter LGDFINT.

MAXOPENTCBS(*data-value***)**
specifies, as a fullword binary value, the maximum number of open TCBs that can exist concurrently in the CICS region. The value specified can be in the range 1 to 999.

If you reduce MAXOPENTCBS from its previously defined value, and the new value is less than the number of open TCBs currently allocated, CICS detaches TCBs to achieve the new limit only when they are freed by user tasks. Transactions are not abended to allow TCBs to be detached to achieve the new limit.

If there are tasks queued waiting for an open TCB, and you increase MAXOPENTCBS from its previously defined value, they are resumed when CICS attaches new TCBs up to the new limit.

MAXTASKS(*data-value***)**
specifies, as a fullword binary value, the maximum number of tasks that can be eligible for dispatch at any one time in this CICS system. Both active and suspended tasks count toward this limit, but tasks that have not reached the point of initial dispatch do not. System tasks such as terminal and journal control tasks do not count in CICS Transaction Server for z/OS either, although they did in earlier releases. The value can be in the range 1–999.

MROBATCH(*data-value***)**
specifies, as a fullword binary value, the number of events that must occur, from a list of MRO and DASD I/O events on which CICS is waiting, before CICS is posted explicitly to process them. The value must be in the range 1–255.

NEWMAXTASKS(*data-area***)**
returns the new value of MAXTASKS, in fullword binary form.

When you set MAXTASKS in a SET SYSTEM command, CICS adjusts the value you specify downward if there is not enough storage for the value you request; NEWMAXTASKS tells you what the value is after any such adjustment. CICS also raises the NOSTG condition when it reduces the value, although it continues processing your command.

PROGAUTOCTLG(*cvda***)**
specifies whether and when autoinstalled program definitions are to be cataloged. Cataloged definitions are restored on a warm or emergency restart. Those not cataloged are discarded at shutdown and must be installed again if used in a subsequent execution of CICS.

Decisions to catalog are made both at initial installation and whenever an autoinstalled definition is modified, and are based on the PROGAUTOCTLG value at the time. CVDA values are:

CTLGALL
Definitions are to be cataloged when installed and when modified.

CTLGMODIFY
Definitions are to be cataloged only when modified.

CTLGNONE
Definitions are not to be cataloged.

PROGAUTOEXIT(*data-value***)**
specifies the 8-character name of the user-provided program to be called by the CICS program autoinstall code to provide a model definition.

Note: This program (and any programs it invokes) must be installed before they can be used in the program autoinstall process, either by explicit PROGRAM definitions or by autoinstall when some other autoinstall program is in force. Otherwise, the program autoinstall process fails when next used, and CICS makes it inactive.

PROGAUTOINST(*cvda***)**
specifies whether autoinstall for programs is to be active or inactive. When a task requests a program, map set, or partition set that is not defined, CICS attempts to create a definition for it automatically if autoinstall for programs is active. If not, CICS raises the PGMIDERR exceptional condition. CVDA values are:

AUTOACTIVE
Autoinstall for programs is to be active.

AUTOINACTIVE
Autoinstall for programs is to be inactive.

PRTYAGING(*data-value***)**
specifies, as a fullword binary value, the rate at which CICS is to increase the priority of a task waiting for dispatch. CICS increases the task priority by 1 after each PRTYAGING milliseconds of wait time without a dispatch. The value must be in the range 0–65535.

RUNAWAY(*data-value***)**
specifies, as a fullword binary value, the default for runaway task time. This value is used for any task executing a transaction with a profile that does not specify runaway task time (see the RUNAWAY option of the INQUIRE TRANSACTION command on page 395).

The value must be either zero, which means that runaway task detection is not required for tasks using the default value, or in the range 500–2700000. The value you supply is rounded down to the nearest multiple of 500.

SCANDELAY(*data-value***)**
specifies, as a fullword binary value, the maximum number of milliseconds between a user task making a terminal I/O request and CICS dispatching the terminal control task to process it. This value is sometimes called the “terminal scan delay”, and is set initially by the system initialization option ICVTSD. The value must be in the range 0–5000.

TIME(*data-value***)**
specifies, as a fullword binary value, the maximum interval in milliseconds for which CICS gives control to the operating system if no tasks are ready for dispatch. This value is set initially by the ICV system initialization option and is sometimes called the “region exit time interval”. The TIME value must be in the range 100–3600000 and must not be less than the SCANDELAY value. You can determine the current SCANDELAY value, if you are not setting it at the same time, with the INQUIRE SYSTEM SCANDELAY command.

Conditions

INVREQ
RESP2 values:

1 The MAXTASKS value is out of range.
3 The AKP value is out of range.
5 TIME is not in the range 100–3600000.
6 The RUNAWAY value is out of range.
7 MROBATCH is not in the range 1–255.
9 DUMPING has an invalid CVDA value.
12 AKP was specified, but CICS was initialized without keypointing.
13 TIME is less than SCANDELAY.
14 PRTYAGING is not in the range 0–65535.
15 SCANDELAY is not in the range 0–5000.
20 DSALIMIT is not in the range 2MB to 16MB.

21 EDSALIMIT is not in the range 10MB to 2GB.
22 There is insufficient MVS storage to allocate DSALIMIT.
23 There is insufficient MVS storage to allocate EDSALIMIT.
29 The LOGDEFER value is out of range.
30 MAXSOCKETS is not in the range 1 through 65535.

LENGERR
RESP2 values:
20 The GMMLENGTH value is out of range.

NOSTG
RESP2 values:
16 CICS reduced the value you requested for MAXTASKS because of storage constraints; see the NEWMAXTASKS option.

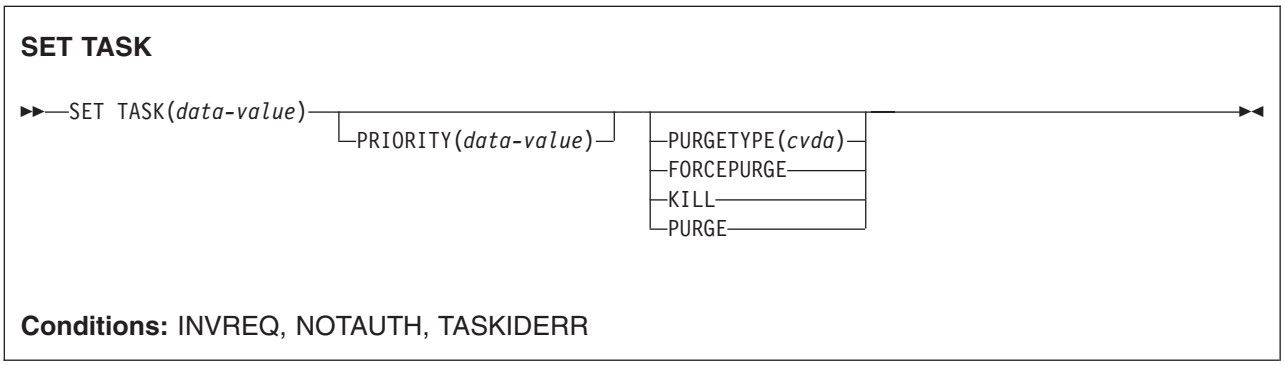
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTSUPERUSER
RESP2 value:

15 CICS was unable to set MAXSOCKETS to the value you requested, because the userid under which the CICS job is running does not have superuser authority. CICS has set the limit to the value of the MAXFILEPROC parameter specified in SYS1.PARMLIB member BPXPRMxx.

SET TASK

Purge a task or change its priority.



Description

The SET TASK command allows you to purge a task (terminate it abnormally) or to change its priority. Not all tasks can be changed with this command, however; in particular, CICS-created tasks that are essential to system operation are ineligible.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Options

PRIORITY(*data-value***)**
specifies, as a fullword binary value, the priority you want for the task. The value must be in the range 0–255.

PURGETYPE(*cvda***)**
specifies that CICS is to purge the task, and indicates conditions for doing so.

Purging a task at the wrong time can result in a loss of data integrity or, in some circumstances, can cause CICS to abend. CICS always defers purging until the task reaches a state where the system itself does not appear to be at risk, but you can specify whether CICS also should wait until data integrity can be ensured.

If CICS accepts a purge request, it returns a NORMAL response to SET TASK. You can tell whether execution has been deferred by inspecting the RESP2 value. If RESP2 is zero, the purge has been completed; if RESP2 is 13, it has been deferred. CVDA values are:

FORCEPURGE
The task is to be terminated as soon as it is consistent with system integrity and without regard to data integrity.

Note: CICS cannot always determine whether a forced purge is safe; it is possible to abend the system when you specify FORCEPURGE.

Kill The task is to be terminated. System and data integrity is not guaranteed. The KILL option extends the PURGE and FORCEPURGE options. It should be used only after an attempt has been made to PURGE or FORCEPURGE a task. The KILL option does not guarantee integrity of any kind but in some situations it allows the user to free up

a stalled region enabling the region to continue processing. In some cases, for example, if a task is killed during backout processing, CICS terminates abnormally.

PURGE
The task is to be terminated as soon as both system and data integrity can be maintained.

Note: You cannot purge a task with this CVDA value if the definition of the TRANSACTION it is executing specifies SPURGE=NO.

TASK(*data-value***)**
specifies the 4-byte packed-decimal sequence number of the task you are changing.

Conditions

INVREQ
RESP2 values:
3 PURGETYPE has an invalid CVDA value.
4 PRIORITY is not in the range 0-255.
5 The task is not in a valid state for purging.Any one of the following may apply:
- The target transaction is defined with SPURGE = NO
- The target transaction is a CICS created task (that is, it is a system task)
- The target transaction has already been scheduled for deferred purge (that is, a previous PURGE has resulted in Resp2=13)
- The target transaction is in termination
- The target transaction is not suspended or waiting.

6 No previous attempt has been made to forcepurge the task.

NORMAL
RESP2 values:
13 The task is not in a valid state for purging. The target transaction is either in transactions initialization or in a dispatcher state that does not allow the purge to be actioned immediately. If the target transaction is in transaction initialization it is marked for deferred abend. A flag is set, and at the end of attach processing the transactions will be abended with AKC3. If the target transaction is in a dispatcher state that does allow purge the purge is deferred until either the dispatcher state changes to a state that does allow the purge or deferred abend handler is given control.

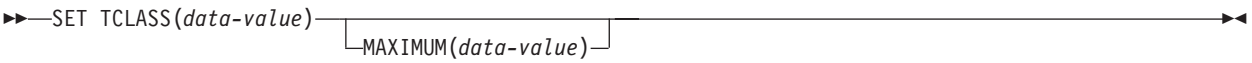
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TASKIDERR
RESP2 values:
1 The task cannot be found.
2 The task is protected by CICS and is not eligible for modification with this command.

SET TCLASS

Set the maximum number of tasks in a transaction class.

SET TCLASS



Conditions: INVREQ, NOTAUTH, TCIDERR

Description

The SET TCLASS command allows you to set the maximum number of tasks in a particular transaction class that are allowed to run concurrently.

This command is limited to the numbered classes of earlier releases of CICS and is retained for compatibility with those releases. The SET TRANCLASS command, described on page 611, provides the same function and can be used for either the old numbered or new named classes.

Options

MAXIMUM(*data-value***)**
specifies, as a fullword binary value, the largest number of tasks in the transaction class that are allowed to run concurrently. The value can be in the range 0 through 999. (This value corresponds to the MAXACTIVE value in a SET TRANCLASS command. See the description of this option on page 611 for a description of what happens when you change the MAXACTIVE limit.)

TCLASS(*data-value***)**
specifies, as a fullword binary value, the number of the task class that you are changing. It must be in the range 0 –10.

Conditions

INVREQ
RESP2 values:
2 The MAXIMUM value is not in the range 0-999.

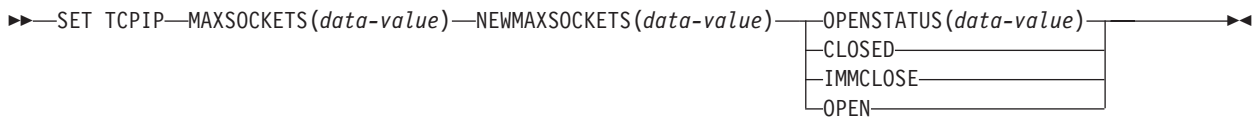
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TCIDERR
RESP2 values:
1 The transaction class cannot be found.

SET TCPIP

Modify CICS internal TCPIP support.

SET TCPIP



Conditions: INVREQ, IOERR, NOTAUTH, NOTSUPERUSER

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

SET TCPIP allows you to open or close CICS internal sockets support.

Options

MAXSOCKETS(*data-value***)**
specifies, as a fullword binary field, the maximum number of IP sockets that can be managed by the CICS sockets domain.

If the userid under which the CICS job is running has superuser authority, up to 65535 sockets can be managed by the sockets domain.

If the userid under which the CICS job is running does not have superuser authority, the maximum number of sockets that can be managed by the sockets domain is limited to the number specified in the MAXFILEPROC parameter in SYS1.PARMLIB member BPXPRMxx. If you specify a greater value, CICS sets the limit to MAXFILEPROC.

Note that sockets created by Java programs running on threads that are not managed by CICS do not count towards the MAXSOCKETS limit.

If you reduce the limit to less than the number of sockets currently active, CICS prevents new sockets from being created until the number of active sockets falls below the limit.

NEWMAXSOCKETS(*data-value***)**
returns, in a fullword binary field, the new value of MAXSOCKETS.

If the userid under which the CICS job is running does not have superuser authority, CICS may set the MAXSOCKETS limit to a smaller value than requested. NEWMAXSOCKETS tells you the limit that CICS has set.

OPENSTATUS(*cvda***)**
specifies whether TCPIP is to be enabled (that is, able to process new incoming work, and complete ongoing work), and if TCPIP support is to be disabled, how the disable should be done. CVDA values are:

OPEN
CICS internal TCPIP support is to be opened.

CLOSED
CICS internal sockets support is to be closed. If it is currently open, CICS is to quiesce all internal sockets activity and then close any sockets on which CICS is listening for incoming CICS Web Interface work. Tasks using CICS internal sockets are allowed to complete.

IMMCLOSE
CICS internal sockets is to be closed. If it is currently enabled, CICS is to terminate abnormally any tasks using it and then close the socket on which CICS is listening for incoming work.

Conditions

INVREQ
RESP2 values:
4 TCPIP not available (TCPIP=NO)
5 TCPIP already closed (for SET CLOSED|IMMCLOSE)
6 TCPIP already open (for SET OPEN)
11 STATUS has an invalid CVDA value.
12 The OPEN request did not complete because another task subsequently requested a CLOSE of CICS internal sockets support.
16 MAXSOCKETS is not in the range 1 to 65535

NORMAL
RESP2 value:
14 TCPIP has been opened, but some TCPIPSERVICEs have not been opened because the MAXSOCKETS limit has been reached.

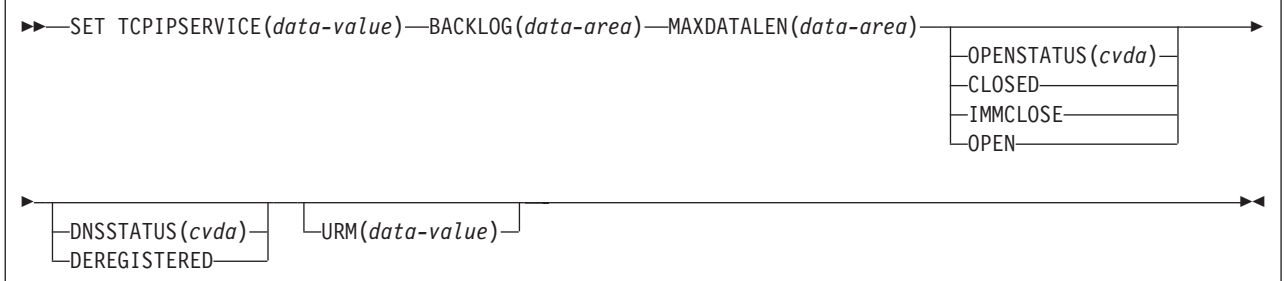
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTSUPERUSER
RESP2 values:
15 CICS was unable to set the MAXSOCKETS limit to the value requested, because the userid which the CICS job is running under does not have superuser authority. CICS has set the limit to the value of the MAXFILEPROC parameter specified in the SYS1.PARMLIB member BPXPRMxx.

SET TCPIPSERVICE

Modify the status of a service using CICS internal TCPIP support.

SET TCPIPSERVICE



Conditions: INVREQ, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

SET TCPIPSERVICE tells CICS to start or stop listening for incoming requests on the port associated with a service using CICS internal TCPIP support, and changes the attributes of the service.

Note: This command has no effect on the sockets support provided by the TCPIP for OS/390 CICS Sockets Feature.

Options

BACKLOG(*data-area***)**
changes the maximum number of requests that can be queued in TCP/IP waiting to be processed by the service. The service must be CLOSED before you can change this value. If you set BACKLOG to zero, CICS does not receive any connections.

DNSSTATUS
changes the Domain Name System (DNS) /Workload Manager (WLM) registration status of this service. This can be done independently of changing the open or closed status of the service.

To account for timing delays in the deregister request reaching the WLM and the DNS updating its tables, it is advisable to deregister a service before setting it closed. This ensures that client applications do not encounter "Connection Refused" situations during the time between the deregister call being issued and the DNS server actually updating its tables. The valid CVDA values are:

DEREGISTERED
causes CICS to deregister the group name specified by the DNSGROUP attribute of this TCPIPSERVICE. The OS/390 WLM macro IWMSRDRS is called and CICS will no longer be a part of the DNS connection optimization. Any other TCPIPSERVICEs that are in the same group (that is, share the same DNSGROUP attribute) are also deregistered.

OPENSTATUS(*cvda***)**
Changes the status of the service. CVDA values are:

OPEN
CICS internal TCPIP support is to start listening for incoming requests on the specified port.

CLOSED
CICS internal sockets support is to stop listening for incoming work on the specified port.

IMMCLOSE
CICS internal sockets support is to stop listening for incoming work on the specified port. If it is currently active, CICS is to terminate abnormally any tasks using it.

MAXDATALEN(*data-area***)**
changes the maximum length of data, in kilobytes, that may be received by CICS as an HTTP server. The default value is 32. The minimum is 3, and the maximum is 524288.

URM(*cvda***)**
Specifies the 8-character name of the program to be used as the Service User-replaceable module. You can specify either an installation-specific program or the CICS-supplied default for the service. Some services may not allow this name to be changed.

Note: This program and any programs it invokes must be installed before they can be used in the program autoinstall process. You can do this either with explicit PROGRAM definitions or by autoinstall when some other autoinstall program is in force. Otherwise the program autoinstall process fails when it is next used, and CICS makes it inactive.

Conditions

INVREQ
RESP2 values:
4 TCPIP is not available (TCPIP=NO)
5 TCPIP status is closed
7 Port is in use
8 CICS is not authorized to use this port
9 TCPIPSERVICE not closed
10 Unknown IP address
11 Invalid value specified in an operand of the SET command.
12 The requested action cannot be performed because the openstatus of the service does not allow it.
13 TCPIP is inactive.
14 The TCPIPSERVICE has not been opened because the MAXSOCKETS limit has been reached.
17 The TCPIPSERVICE cannot be opened because PROTOCOL(IIOP) was specified and the IIOPLISTENER system initialization parameter is set to NO.

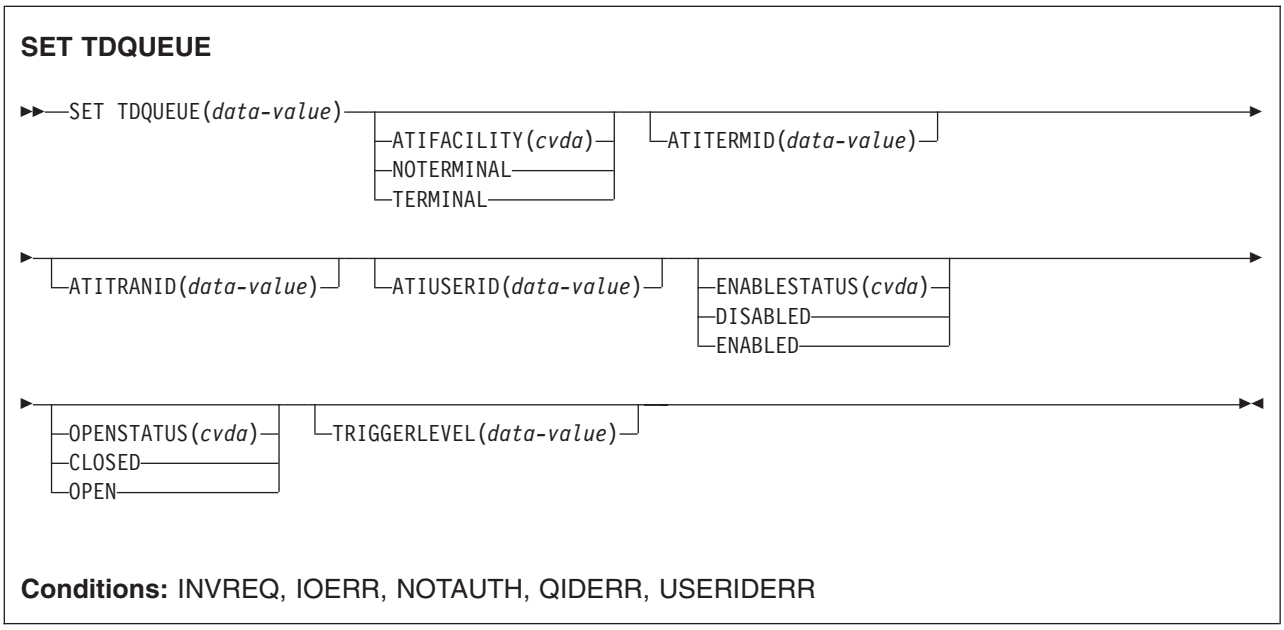
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:

3	the named TCPIPSERVICE is not found.

SET TDQUEUE

Change the attributes of a transient data queue.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET TDQUEUE command allows you to change some attributes of a transient data queue.

Transient data queues, also called destinations, are defined in TDQUEUE resource definitions. There are two basic types: **intrapartition** and **extrapartition**. Intrapartition queues are managed and stored entirely by CICS, and are eligible for automatic task initiation (ATI), the facility that CICS provides for scheduling tasks automatically. For a transient data queue, ATI is governed by the value specified on the TRIGGERLEVEL option. If the value is nonzero, CICS automatically creates a task to process the queue when the number of items on the queue reaches this trigger level. A value of zero exempts the queue from ATI.

An extrapartition queue is an MVS sequential data set (or a spool file). Extrapartition queues are not subject to ATI.

There are two other types of queue: **indirect** and **remote**, both of which point to one of the basic types. You cannot modify the definition of either with a SET TDQUEUE command, however. (See the INQUIRE TDQUEUE command for more information about these queues.)

You cannot alter the following parameters unless the queue is fully disabled:
- ATIFACILITY
- ATITERMID
- ATITRANID.
- ATIUSERID

To disable a transient data destination, the queue must not currently be in use. If it is in use, the queue enters a “disable pending” state. The last unit of work (UOW) to use the queue fully disables it. The parameters TRIGGERLEVEL, OPENSTATUS, and ENABLESTATUS can be altered regardless of whether the queue is enabled or disabled. The value of the ENABLESTATUS parameter cannot be altered while a queue is in a “disable pending” state.

A transient data queue cannot be disabled while it is in use, or while tasks are waiting to use it.

Indirect and remote queues can be disabled at any time because they have no concept of being “in use”.

If tasks are waiting to use an extrapartition queue, a physically recoverable queue, or a non-recoverable intrapartition queue, and an attempt is made to disable the queue, the queue enters a “disable pending” state. The last task to use the extrapartition queue fully disables it.

If an attempt is made to disable a logically recoverable intrapartition TD queue when there are UOWs enqueued upon it, the queue enters a “disable pending” state. The last UOW to obtain the enqueue fully disables the queue. If a UOW has updated a logically recoverable queue and suffers an in-doubt failure, the queue cannot be disabled until the in-doubt failure has been resolved.

If a UOW owns an enqueue on a queue that is in a “disable pending” state, it is allowed to continue making updates.

When a queue is in a “disable pending” state, no new tasks can alter the queue’s state or its contents. A disabled response is returned when a READQ, WRITEQ, or DELETEQ request is issued against a destination that is in a “disable pending” state.

Note: If a task updates a logically recoverable transient data queue, and attempts to disable the queue and alter an attribute of the queue (for example, ATITRANID) within the same UOW, the call fails. This is because the UOW is a user of the queue, and the queue enters a “disable pending” state. The SET operation on the queue attribute, in this case, ATITRANID, fails. The queue does not become fully disabled until the UOW commits or backs out at syncpoint. You are recommended to issue an EXEC CICS SYNCPOINT command before attempting to update the queue attribute (ATITRANID) using SET TDQUEUE.

Options

ATIFACILITY(*cvda***) (intrapartition queues only)**
specifies whether the queue has a terminal (or session) associated with it. When ATI occurs, this option determines whether the task that CICS creates to process the queue has a principal facility or not. CVDA values are:

NOTERMINAL
ATI tasks are to execute without a principal facility.

TERMINAL
ATI tasks require the terminal specified in ATITERMID as the principal facility.

ATITERMID(*data-value***) (intrapartition queues only)**
specifies the 4-character name of the terminal or session associated with the

queue, if any. When CICS creates a task to process the queue, this terminal is the principal facility if the ATIFACILITY value is TERMINAL.

You can set this value at any time, but it is used only during ATI, and only when ATI tasks are to have a principal facility. When ATIFACILITY is NOTERMINAL, CICS retains but does not use the ATITERMID value, and does not display it in an INQUIRE TDQUEUE command.

ATITRANID(*data-value***) (intrapartition queues only)**
specifies the 4-character identifier of the transaction to be executed when CICS initiates a task automatically to process the queue. This value is used only during ATI. CICS does not check the ATITRANID value when you set it but, when ATI occurs, the created task abends unless the ATITRANID value names a transaction defined at the time. Furthermore, this transaction must not be defined as remote.

ATIUSERID(*data-value***) (intrapartition queues only)**
specifies the 8-byte user identifier associated with the queue, if any. If there is no terminal associated with the queue when ATI occurs, CICS assigns this user to the task it creates to process the queue.

You can set this value at any time, but it is used only during ATI, and only when the ATIFACILITY value is NOTERMINAL. When ATIFACILITY is TERMINAL, CICS retains but does not use the ATIUSERID value, and does not display it in an INQUIRE TDQUEUE command.

In addition to the authority checks made for any SET TDQUEUE command, when ATIUSERID is specified, CICS invokes the external security manager to ensure that the user associated with the task issuing the command has authority to act for the user named in ATIUSERID. When the ESM is RACF, this means that the user associated with the task must be defined as a RACF **surrogate** for the user in ATIUSERID.

ENABLESTATUS(*cvda***)**
specifies whether the queue can be accessed by applications. CVDA values are:

DISABLED
The queue cannot be accessed by applications. You cannot disable a queue that has suffered an in-doubt failure.

ENABLED
The queue can be accessed by applications.

For extrapartition queues, changing the ENABLESTATUS value affects only the availability of the queue; CICS does not open or close the associated data set.

OPENSTATUS(*cvda***) (extrapartition queues only)**
specifies whether the data set associated with the queue is to be open or closed. CVDA values are:

CLOSED
The data set is to be closed.

OPEN The data set is to be opened.

TDQUEUE(*data-value***)**
specifies the 4-character name of the transient data queue whose attributes you are changing.

TRIGGERLEVEL(*data-value***) (intrapartition only)**
specifies, as a fullword binary value, the number of items that must be on the queue for ATI to occur, or, alternatively, that ATI is not to occur. The number

must be in the range 0–32767. If it is zero, ATI does not occur. If it is not zero, when the queue reaches the TRIGGERLEVEL depth CICS creates a task to process it automatically. See also the ATIFACILITY, ATITERMINAL, ATITRANSID, and ATIUSERID options.

Conditions

INVREQ

RESP2 values:

2 TRIGGERLEVEL was specified for an extrapartition queue.
3 The TRIGGERLEVEL value is not in the range 0–32767.
4 ATITERMID was specified for an extrapartition queue.
5 ATITRANID was specified for an extrapartition queue.
6 ATIFACILITY was specified for an extrapartition queue.
7 ATIFACILITY has an invalid CVDA value.
8 OPENSTATUS has an invalid CVDA value.
9 OPENSTATUS was specified for an intrapartition queue.
10 ENABLESTATUS has an invalid CVDA value.
12 The queue is remote.
13 The queue is indirect.
16 OPENSTATUS was specified, but the JCL DDNAME to which the queue definition points was not found.
18 SET not possible because the queue was not closed.
19 ATIUSERID was specified for an extrapartition queue.
20 The ESM interface is not initialized.
21 CICS has received an unknown response from the ESM.
22 The ESM did not respond.
30 Disabled pending condition.
31 SET not possible because the queue was not disabled.
35 SET not possible because the queue is in-doubt.
40 SET not possible because the queue is CXRF.

IOERR

RESP2 values:

14 An error occurred opening or closing the data set associated with the queue.
17 The queue cannot be set CLOSED because there is no space in the associated data set.

NOTAUTH

RESP2 values:

23 The user named on the ATIUSERID option is not authorized.
24 The user named in ATIUSERID has been revoked.
25 During SECLABEL processing by the external security manager, an error occurred. For information about security labels, see the *z/OS V1R4.0 Security Server RACF Security Administrator's Guide*, SA22-7683
27 The user named in the ATIUSERID option is not allowed to access the queue.
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.
102 The user associated with the issuing task is not an authorized surrogate for the user specified in ATIUSERID.

QIDERR

RESP2 values:

1 The queue cannot be found.

USERIDERR

RESP2 values:

28 The user named in ATIUSERID is not known to the ESM.

SET TERMINAL

Change some terminal attributes and cancel outstanding AIDs.

SET TERMINAL

Conditions: INVREQ, NORMAL, NOTAUTH, TERMIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET TERMINAL command changes some of the values of a named terminal definition. It cannot be used for APPC sessions.

Only PURGETYPE, PURGE, or FORCEPURGE can be used for IRC sessions.

If a terminal TCTTE is available in a remote system, in either model or surrogate form, a change can be made to TRACING or NEXTTRANSID in the remote definition. This change is not shipped back to the TOR. This allows the user to make a change that applies only to the remote TCTTE.

The SET TERMINAL command can also be used to change the UCTRANST option of a surrogate terminal. This change is shipped back to the TOR and intermediate systems. Any attempt to change any other attribute for a model or surrogate terminal results in INVREQ with RESP2=24.

Options

ACQSTATUS(*cvda***) (VTAM only)**
is retained only for compatibility purposes. You should use TERMSTATUS in new applications (see page "TERMSTATUS" on page 598).

ALTPRINTER(*data-value***)**
specifies the name of a 3270 printer for use as an alternative to the printer defined on the PRINTER option. The name can be up to four characters long.

Note: You cannot specify ALTPRINTER for a terminal that does not have a primary printer defined (on the PRINTER parameter).

See the *CICS Resource Definition Guide* for information about the PRINTER and ALTPRINTER parameters for defining primary and alternate printers for terminals.

Note: For VTAM terminals, in a transaction routing environment, this command does not take effect until the next flow across the link from the TOR to the AOR for the named terminal.

ALTPRTCOPYST(*cvda***)**
specifies the alternate printer copy status. This indicates whether CICS is to use the hardware COPY feature to satisfy a print request on the printer named on the ALTPRINTER parameter. CVDA values are:

ALTPRTCOPY
CICS is to use the hardware COPY feature to satisfy a print request on the alternate printer.

NOALTPRTCOPY
CICS is not to use the hardware COPY feature.

Note: You cannot specify ALTPRTCOPY for a terminal that does not have an alternate printer defined.

See the *CICS Resource Definition Guide* for information about the ALTPRINTCOPY parameter, which specifies the use of the hardware copy feature for the alternate printer on the terminal definition.

ATISTATUS(*cvda***)**
specifies whether the terminal can be used by transactions that are automatically initiated from within CICS or, if the terminal is an ISC session, by transactions that are using this session as an alternate facility to communicate with another system. CVDA values are:

ATI The terminal can be used by automatically initiated transactions.

NOATI
The terminal cannot be used by automatically initiated transactions.

A terminal cannot have both NOATI and NOTTI in its status.

CREATESESS(*cvda***) (VTAM only)**
specifies whether the terminal can be acquired automatically by ATI transactions. CVDA values are:

CREATE
The terminal can be acquired automatically.

NOCREATE
The terminal cannot be acquired automatically.

DISCREQST(*cvda***)**
specifies whether CICS is to honor a disconnect request from the terminal. CVDA values are:

DISCREQ
CICS honors a disconnect request for a VTAM device, and issues a VTAM CLSDST macro instruction to terminate the VTAM session with that logical unit.

It also means that CESF LOGOFF (or GOODNIGHT) from the terminal causes disconnection.

NODISCREQ
CICS does not honor a disconnect request for a VTAM device.

EXITTRACING(*cvda***)**
specifies whether the activity associated with the terminal exit program is to be traced. CVDA values are:

EXITTRACE
Exit program activity is to be traced.

NOEXITTRACE
Exit program activity is not to be traced.

MAPNAME(*data-area***)**
specifies the 7-character name of the map that is to be saved (stored) by CICS as the name of the last map sent to this device. If this terminal is a surrogate, the map name specified is returned in the DETACH sequence to the terminal-owning region when the currently executing transaction terminates, unless the map name is superseded by a subsequent SEND MAP command. You can use the MAPNAME option to restore a map name that was returned to the application program in a previous INQUIRE TERMINAL command. If the terminal is not supported by BMS (for example, this terminal is a session), an INVREQ condition is raised with a RESP2 value of 60.

MAPSETNAME(*data-area***)**
specifies the 8-character name of the mapset that is to be saved by CICS as the name of the last mapset used in a SEND MAP command processed for this terminal. If this terminal is a surrogate, the mapset name specified is returned in the DETACH sequence to the terminal-owning region when the currently executing transaction terminates, unless the mapset name is superseded by a subsequent SEND MAP command. The MAPSETNAME option can be used to restore a mapset name that was returned to the application program in a previous INQUIRE TERMINAL command. If the terminal is not supported by BMS (for example, this terminal is a session), an INVREQ condition is raised with a RESP2 value of 60.

NEXTTRANSID(*data-value***)**
specifies the next transaction identifier for the specified terminal. The identifier can be up to 4 characters long. If you specify the NEXTTRANSID parameter as blanks (X40404040), CICS sets the next transaction identifier to nulls, meaning there is no NEXTTRANSID defined for the terminal.

Changes are permitted to a remote TCTTE, but the change is not shipped back to the TOR.

Note: NEXTTRANSID cannot be set if a transaction has been defined for this terminal.

OBFORMATST(*cvda***)**
specifies whether the device supports outboard formatting. See the TYPETERM definition in the *CICS Resource Definition Guide* for details of the types of device that support outboard formatting. CVDA values are:

NOOBFORMAT
The device does not support outboard formatting.

OBFORMAT
The device supports outboard formatting.

Note: OBFORMATST cannot be specified for a console or 3790.

OPERID(*data-value***)**
Specifies an operator identification code that is to be associated with the terminal. The identification code can be up to 3 characters long. The operator identification code will continue to be associated with the terminal until it is changed by another SET TERMINAL OPERID command, or until the user signed on at the terminal changes (i.e. until a user signs on or signs off at the terminal).

PAGESTATUS(*cvda***)**
specifies how pages are to be written. CVDA values are:

AUTOPAGEABLE
Pages, after the first in a series, are to be written to the terminal automatically.

PAGEABLE
Pages, after the first in a series, are to be written to the terminal on request from the operator.

PRINTER(*data-value***)**
specifies the name of the primary printer CICS is to use in response to a print request (either an ISSUE PRINT command, or a PRINT request from an operator pressing a program access (PA) key). The name can be up to 4 characters long. See the *CICS Resource Definition Guide* for information about specifying 3270-type printers.

Note: For VTAM terminals, in a transaction routing environment, this command does not take effect until the next flow across the link from the TOR to the AOR for the named terminal.

PRTCOPYST(*cvda***)**
specifies whether CICS is to use the hardware COPY feature to satisfy a print request on the printer named on the PRINTER parameter. CVDA values are:

NOPRTCOPY
CICS is not to use the hardware COPY feature.

PRTCOPY
CICS is to use the hardware COPY feature to satisfy a print request on the primary printer.

Note: You cannot specify PRTCOPY for a terminal that does not have a printer defined.

See the *CICS Resource Definition Guide* for information about the PRINTCOPY parameter, which specifies the use of the hardware copy feature for the primary printer on the terminal definition.

PURGETYPE(*cvda***)**
specifies whether transactions running with the named terminal can be purged. CVDA values are:

CANCEL
AIDs queuing for the specified terminal are to be canceled. AIDs representing scheduled and allocated requests waiting in the local CICS system for the specified terminal are canceled. However, CRSR AIDs and TD AIDs with an associated triggered task already started are not canceled.

When a canceled scheduled request is found to have a precursor in a remote CICS system, this remote AID is canceled asynchronously. Message DFHTF0100 is written to CSMT to indicate how many AIDs have been deleted for the terminal and how many remain.

FORCEPURGE
Transactions are to be purged immediately. This can lead to unpredictable results and should be used only in exceptional circumstances.

KiII The task is to be terminated. System and data integrity is not guaranteed. The KILL option extends the PURGE and FORCEPURGE options. It should be used only after an attempt has been made to PURGE or FORCEPURGE a task. The KILL option does not guarantee integrity of any kind but in some situations it allows the user to free up a stalled region enabling the region to continue processing. In some cases, for example, if a task is killed during backout processing, CICS terminates abnormally.

PURGE
The transactions can be terminated only if system and data integrity can be maintained. A transaction is to be purged if its definition specifies SPURGE=NO.

FORCEPURGE replaces PURGE FORCE, which is retained only for compatibility purposes. You should use FORCEPURGE in new applications.

PURGETYPE cannot be specified for non-VTAM terminals.

RELREQST(*cvda***)**
specifies the status for releasing the logical unit. CVDA values are:

NORELREQ
CICS is not to release the logical unit upon request by another VTAM application program.

RELREQ
CICS is to release the logical unit, if the logical unit is not currently busy running a transaction.

SERVSTATUS(*cvda***)**
specifies whether the terminal is to be in- or out-of-service. CVDA values are:

INSERVICE
CICS is to set the terminal in-service and available for use.

OUTSERVICE
CICS is to set the terminal out-of-service, and not available for transactions. Unless you specify PURGE or FORCEPURGE, any current transaction is allowed to terminate normally, but no further transactions are allowed to use the terminal.

If the execution diagnostic facility (EDF) is in use at the specified terminal, EDF stops immediately, because it is a sequence of separate transactions, while the transaction that is being tested under EDF is allowed to complete.

If you set a VTAM terminal to OUTSERVICE, it is also RELEASED and the operator is signed off, either immediately or when the current transaction has terminated. You cannot therefore set the terminal associated with the executing transaction to OUTSERVICE, unless it is a printer.

TCAMCONTROL(*data-value***) (TCAM/DCB remote terminals only)**
specifies a 1-character hexadecimal value in the TCAM control byte indicating which segment of the message is to be passed between CICS and TCAM. The meanings are:

00 Null
40 Intermediate part of message
F1 First part of message
F2 Last part of message
F3 Whole message
F4 Intermediate part of message, end of record
F5 First part of message, end of record
F6 Last part of message, end of record
F7 Whole message, end of record.

TERMINAL(*data-value***)**
specifies the 4-character terminal name.

Note: As a result of the operation of the XICTENF and XALTENF global user exits, it is possible for SCHEDULE requests to be queued for a terminal that is not yet defined to the local CICS system. You can use the SET TERMINAL(*data-value*) CANCEL command to remove these requests.

TERMPRIORITY(*data-value***)**
specifies, as a fullword binary value, the priority required for the terminal, relative to other terminals, in the range 0–255.

TERMSTATUS(*cvda***) (VTAM only)**
specifies the session status for the logical unit represented by this terminal. CVDA values are:

ACQUIRED
CICS is to acquire a session with the logical unit represented by this terminal.

COLDACQ
CICS is to acquire a session with the logical unit represented by this terminal where no resynchronization is required.

RELEASED
CICS is to terminate the session. This happens immediately if you also specify the PURGE option, otherwise the session is terminated when the current active transaction finishes.

TRACING(*cvda***)**
specifies the required tracing activity associated with the terminal. CVDA values are:

SPECTRACE
Special tracing is to be used.

STANTRACE
Standard tracing is to be used.

Changes are permitted to a remote TCTTE, but the change is not shipped back to the TOR.

TTISTATUS(*cvda***)**
specifies whether this terminal can be used by the transactions that are initiated from this terminal. CVDA values are:

NOTTI This terminal cannot be used by transactions initiated from it.

TTI This terminal can be used by transactions initiated from it.

A terminal cannot be defined with both NOATI and NOTTI.

UCTRANST(*cvda***)**
specifies whether the uppercase translate option is to be set for transactions associated with this terminal. Note that there is also an UCTRAN option on the profile definition. See Table 6 on page 600 for information on how the UCTRAN options on the terminal and transaction profiles interact.

If a terminal TCTTE is available in a remote system, in either model or surrogate form, a change can be made to TRACING or NEXTTRANSID in the remote definition. This change is not shipped back to the TOR. This allows the user to make a change which applies only to the remote TCTTE. The SET TERMINAL command can also be used to change the UCTRANST option of a surrogate terminal. This change is shipped back to the TOR and intermediate systems. Attempting to change any other attribute for a model or surrogate terminal results in INVREQ with RESP2=24.

This command may be used to set the uppercase translation option for a remote terminal, if the named terminal is the principal facility of the task issuing the command. If the remote terminal is not the principal facility, the INVREQ condition is raised with a RESP2 value of 24. The uppercase translation option is also changed in the terminal-owning region and any intermediate region in a daisy-chaining setup. CVDA values are:

NOUCTRAN
CICS is not to perform uppercase translation on input from this terminal (unless specified otherwise on the profile for individual transactions).

TRANIDONLY
CICS is to perform uppercase translation on the transaction id only on input from this terminal.

UCTRAN
CICS is to perform uppercase translation on input from this terminal.

Table 6. The effect of the UCTRAN parameters

Profile	Terminal (TYPETERM)		
	UCTRAN (YES)	**UCTRAN (NO)**	**UCTRAN (TRANID)**
UCTRAN (YES)	Tranid: Yes Data: Yes	Tranid: No Data: Yes	Tranid: Yes Data: Yes
UCTRAN (NO)	Tranid: Yes Data: Yes	Tranid: No Data: No	Tranid: Yes Data: No
Note: This table shows which portion of the terminal input is translated (transaction id and/or data) according to the setting of the UCTRAN on the PROFILE and TYPETERM resource definitions.			

ZCPTRACING(*cvda***)**
specifies the required tracing activity associated with the VTAM control component of CICS. CVDA values are:

NOZCPTRACE
VTAM ZCP tracing is not to be carried out.

ZCPTRACE
VTAM ZCP tracing is to be carried out.

Conditions

INVREQ
RESP2 values:

1 TERMSTATUS or ACQSTATUS was specified for an IRC session or non-VTAM terminal.
2 TERMSTATUS or ACQSTATUS has an invalid CVDA value.
4 ATISTATUS has an invalid CVDA value.
5 ATISTATUS change would result in NOATI and NOTTI.
6 CREATESESS was specified for non-VTAM terminal.
7 CREATESESS has an invalid CVDA value.
9 PAGESTATUS has an invalid CVDA value.
11 Trying to put the issuing terminal OUTSERVICE.
13 SERVSTATUS has an invalid CVDA value.
15 TERMPRIORITY value not in range 0–255.
17 NOTTI cannot be specified for the issuing terminal.
18 TTISTATUS has an invalid CVDA value.
21 PURGETYPE has an invalid CVDA value.
22 TRACING has an invalid CVDA value.
24 Invalid option requested for a remote terminal.
25 ACQUIRED specified, but terminal is not in service.
26 PURGE specified, but target task has SPURGE=NO on its associated transaction definition.
27 EXITTRACING has an invalid CVDA value.
28 ZCPTRACING has an invalid CVDA value.
29 EXITTRACING or ZCPTRACING specified for a non-VTAM terminal (or VTAM not installed).
31 This is a remote terminal with no associated surrogate.
33 SET TERMINAL is not valid for an LU6.2 (APPC) session.
34 A permanent transaction has been defined for this terminal (TRANSACTION operand in TERMINAL definition).
35 Attempt made to change TCAM CONTROL on non-TCAM terminal.
36 Invalid value supplied for TCAM CONTROL.
37 Preset signon failed, terminal remains OUTSERVICE.
38 OBFORMATST has an invalid CVDA value.
39 RELREQST has an invalid CVDA value.

40 DISCREQST has an invalid CVDA value.
41 ALTPRTCOPYST has an invalid CVDA value.
42 PRTCOPYST has an invalid CVDA value.
43 UCTRANST has an invalid CVDA value.
44 Options would result in the invalid combination of the alternate printer copy status being set without an alternate printer defined.
45 Options would result in the invalid combination of the alternate printer being defined without a primary printer defined.
46 OBFORMATST is specified for a console or 3790.
48 Options would result in the invalid combination of the printer copy status being set without a primary printer defined.
50 VTAM not available for VTAM terminal.
51 PRINTER and ALTPRINTER option specified for a terminal that is not VTAM 3270 or 3270 compatibility mode.
52 PRTCOPYST or ALTPRTCOPST option specified for a terminal that is not VTAM 3270 or 3270 compatibility mode.
54 Option other than PURGETYPE specified for IRC session.
57 Other SET parameters were included with the CANCEL option.
61 No previous attempt has been made to forcepurge the task whose facility is a terminal.

NORMAL

RESP2 values:
53 Purge deferred.
58 AIDs are successfully canceled.
59 No AIDs are canceled.
60 MAPNAME or MAPSETNAME specified, but the terminal is not of a type supported by BMS.

NOTAUTH

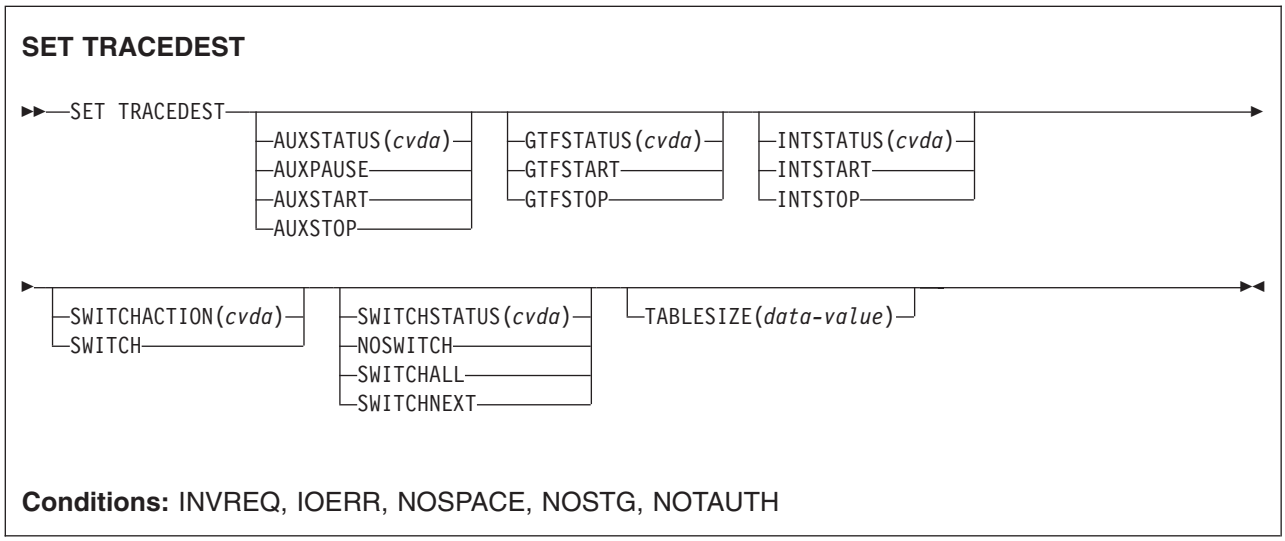
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TERMIDERR

RESP2 values:
23 The named terminal cannot be found.

SET TRACEDEST

Change tracing options.



For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

CICS can write trace entries to three possible destinations: the CICS internal trace table, the auxiliary trace data set, and the MVS Generalized Trace Facility (GTF). The SET TRACEDEST command allows you to specify which destinations are to receive the entries. You also can use it to change the size of the trace table and to switch auxiliary trace data sets.

Two other commands, SET TRACEFLAG and SET TRACETYPE, and a CICS-supplied transaction, CETR, can be used to control the number and type of trace entries.

Changes made with this command are not recorded in the CICS catalog. Therefore the options affected are always reset to the corresponding system initialization values at CICS startup. These are: INTSTATUS and TRTABSZ (for internal tracing), AUXTR and AUXTRSW (auxiliary tracing), and GTFSTATUS (GTF tracing). See the *CICS System Definition Guide* for more information about these values.

Options

AUXSTATUS(*cvda***)**
specifies whether auxiliary tracing is to occur; that is, whether trace entries are to be written to the active CICS auxiliary trace data set. (See the SWITCHACTION option for more about auxiliary trace data sets.) CVDA values are:

AUXPAUSE
CICS is to stop writing entries, but is to leave the data set open at its current position. A subsequent AUXSTART request will resume writing entries immediately after those that preceded the AUXPAUSE request. You can specify AUXPAUSE only when auxiliary tracing is currently active.

AUXSTART
Entries are to be written. The data set is to be opened first if currently closed.

AUXSTOP
Entries are not to be written. The data set is to be closed if open. A subsequent AUXSTART request will cause new entries to be written at the start of the data set, overwriting the previous contents, unless there are two auxiliary trace data sets and they are switched between the AUXPAUSE and AUXSTART.

GTFSTATUS(*cvda***)**
specifies whether trace entries are to be sent to the MVS Generalized Tracing Facility (GTF). CVDA values are:

GTFSTART
Entries are to be sent.

GTFSTOP
Entries are not to be sent.

Note: A value of GTFSTART is necessary but not sufficient for recording CICS trace entries on GTF. In addition, CICS must be initialized with GTF support (the GTFTR system initialization option), and GTF must be started in MVS with the TRACE=USR option.

INTSTATUS(*cvda***)**
specifies whether internal tracing is to occur; that is, whether non-exception trace entries are to be recorded in the internal trace table. (Exception entries are always recorded.) CVDA values are:

INTSTART
Entries are to be recorded.

INTSTOP
Entries are not to be recorded.

SWITCHACTION(*cvda***)**
specifies that the auxiliary trace data sets are to be switched.

If your system supports auxiliary tracing, it has either one or two auxiliary trace data sets. One is “active”, which means it receives trace entries when auxiliary tracing is turned on, and the other, if there are two, is a standby.

When there are two, you can reverse their roles by specifying SWITCH. This causes CICS to close the current active data set, open the standby, and reverse the designation of which is active and which standby.

If there is only one (or none), SWITCH causes an exception condition, because CICS attempts to open a data set that is not defined.

The CVDA value is:

SWITCH
CICS is to perform a switch.

Note: If you request AUXSTATUS and SWITCHACTION in the same command, AUXSTATUS is set first.

SWITCHSTATUS(*cvda***)**
specifies the action CICS is to take when the current active auxiliary trace data set fills. When this occurs, CICS cannot continue auxiliary tracing unless a

switch or an AUXSTOP-AUXSTART sequence takes place (see the SWITCHACTION and AUXSTATUS options). CVDA values are:

NOSWITCH
CICS is to take no action.

SWITCHALL
CICS is to switch every time the active data set fills.

SWITCHNEXT
CICS is to switch when the current data set is full, but only once; thereafter NOSWITCH is to be in effect.

TABLESIZE(*data-value***)**
specifies, as a fullword binary value, the size of the internal trace table in kilobytes. If you specify a value that is different from the current trace table size, CICS suspends internal tracing while the change is made, obtains a new table of the requested size, and frees the old one. Data that was in the old table is lost.

The table is allocated in multiples of 4KB, with a minimum size of 16KB. Consequently, the value you specify is increased to the next multiple of 4, and
to 16 if you specify less than 16. The maximum size is 1048576.

Use caution when setting TABLESIZE to a very high value because there must
be enough MVS page storage to satisfy both the request and DSA sizes. The
system command `DISPLAY ASM MVS` can be used to display current information
about status and utilization of all MVS page data sets.

Conditions

INVREQ
RESP2 values:

1 INTSTATUS has an invalid CVDA value.

2 A TABLESIZE value of < –1 has been specified.

3 AUXSTATUS has an invalid CVDA value.

4 SWITCHSTATUS has an invalid CVDA value.

5 GTFSTATUS has an invalid CVDA value.

6 AUXPAUSE was specified, but auxiliary tracing is not active.

11 SWITCHACTION has an invalid CVDA value.

IOERR
RESP2 values:
10 A SWITCH request or a SET AUXSTART request resulted in an “open” error for the trace data set.

NOSPACE
RESP2 values:
7 There is insufficient space for the new trace table.

NOSTG
RESP2 values:
8 There is insufficient space for an auxiliary trace buffer.
9 There is insufficient space for a GTF trace buffer.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

Examples

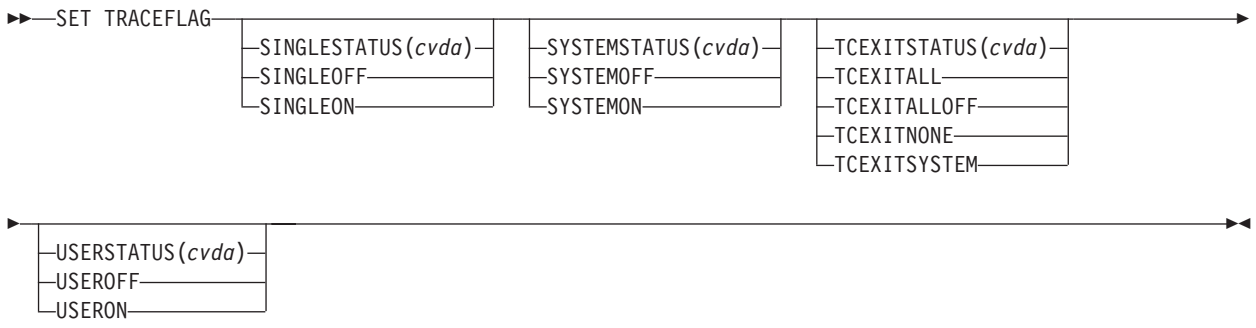
```
EXEC CICS SET TRACEDEST
             SWITCH
             NOSWITCH
```

The SWITCH option tells CICS to switch now from the active auxiliary trace data set (which is not necessarily full) to the alternate. The NOSWITCH option tells CICS not to switch when the new active data set fills.

SET TRACEFLAG

Change settings of trace flags.

SET TRACEFLAG



Conditions: INVREQ, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET TRACEFLAG command allows you to change the flags that control the creation of trace entries in CICS. (See the *CICS Problem Determination Guide* for more information about tracing facilities and control.)

Changes made with this command are not recorded in the CICS catalog, and therefore do not persist beyond CICS shutdown.

Options

SINGLESTATUS(*cvda***)**
specifies whether tracing is to be turned on or suppressed for the task issuing this SET TRACEFLAG command. No nonexception trace entries are made for a task when this flag is off (exception trace entries are *always* recorded).

When tracing is allowed, the type of tracing is standard unless special tracing has been requested (in an earlier use of the CETR transaction) for the transaction being executed or the terminal that is the principal facility. CVDA values are:

SINGLEOFF
Tracing is suppressed.

SINGLEON
Tracing is allowed.

SYSTEMSTATUS(*cvda***)**
specifies how the system master trace flag is to be set. This flag determines whether CICS makes or suppresses standard trace entries (it does not govern special or exception trace entries). It applies to all tasks and all system activity;

however, for standard trace entries to be recorded for any particular task, both the system master flag and the SINGLESTATUS flag for the task must be on. CVDA values are:

SYSTEMOFF
Standard tracing is to be suppressed.

SYSTEMON
Standard tracing is to be active.

TCEXITSTATUS(*cvda***) (VTAM only)**
specifies which invocations of the CICS VTAM exits are to be traced.

Two types of exit activity can be traced: invocations associated with particular terminals that have been designated for VTAM exit tracing ("terminal-specific" activity), and invocations not related to any particular terminal ("nonterminal-specific" activity). You can trace both types or nonterminal-specific activity only.

CVDA values are:

TCEXITALL
All exit activity is to be traced.

TCEXITALLOFF
Terminal-specific activity is not to be traced. The status of nonterminal-specific tracing is to remain unchanged.

TCEXITNONE
No exit activity is to be traced.

TCEXITSYSTEM
Nonterminal-specific activity is to be traced, but terminal-specific activity is not.

USERSTATUS(*cvda***)**
specifies whether the user master trace flag is to be set on or off. This flag governs whether non-exception user trace entries are recorded or suppressed (entries that specify the EXCEPTION option are never suppressed). It applies to all tasks; however, for user entries to be recorded for any particular task, both the user master trace flag and the SINGLESTATUS flag for that task must be on. CVDA values are:

USEROFF
User tracing is suppressed.

USERON
User tracing is allowed.

Conditions

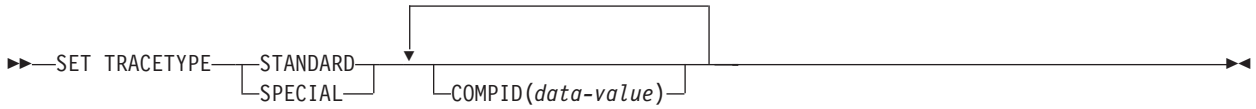
INVREQ
RESP2 values:
1 SYSTEMSTATUS has an invalid CVDA value.
2 USERSTATUS has an invalid CVDA value.
3 SINGLESTATUS has an invalid CVDA value.
4 TCEXITSTATUS has an invalid CVDA value.
5 TCEXITSTATUS is specified but VTAM is not installed.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

SET TRACETYPE

Change the tracing levels of CICS components.

SET TRACETYPE



Conditions: NOTAUTH, NOTFND

Description

The SET TRACETYPE command allows you to change the levels of tracing for one or more CICS components.

Each CICS component has trace levels defined separately for standard CICS tracing and special tracing (see the *CICS Problem Determination Guide* for definitions of these terms and for information about CICS tracing in general). You can set either type for any number of components in a SET TRACETYPE command, but you can set only one type per command.

For each component that you specify, you define the trace levels as a bit string. The bits are read from left to right; that is, the first bit corresponds to trace level 1, the second to trace level 2, and so on. A value of 1 turns on the trace level; 0 turns it off. For example, XC0000000 turns trace levels 1 and 2 on and all others off.

Although most components define only a few trace levels, you must provide a 32-bit (4-byte) data value. CICS ignores bits that do not correspond to trace levels, and thus it does not matter whether you specify 0 or 1 for them.

The SJ component does use higher trace levels. Trace levels 29–32 for the SJ component correspond to JVM Level 0 trace, JVM Level 1 trace, JVM Level 2 trace and JVM User trace respectively. The CICS-supplied transaction CETR includes screens that provide a better way to set these trace levels, and to change the JVM trace options associated with them.

Options

COMPID(*data-value***)**
sets the trace levels for the CICS component identified by COMPID, using the bits in the data value as described above.

CICS components can be identified by a 2-character designation or, in some cases, a descriptive keyword. For example, to set the trace levels for the storage manager component of CICS, you can specify either:

```
SET TRACETYPE SM(data-value)
```

or

```
SET TRACETYPE STORAGE(data-value)
```

The following list shows all the 2-character identifiers, and the keywords for those components that have them.

AP	APPLICATION	Application
BA	BUSAPPMGR	Business applications manager
BF*		Built-in functions
BM*		Basic mapping support
BR*	BRIDGE	3270 Bridge
CP*	CPI	Common programming interface
DC*		Dump control
DD	DIRMGR	Directory manager
DH		Document handling
DI*		Batch data interchange
DM	DOMAINMGR	Domain manager
DP		Debugging Profiles domain
DS	DISPATCHER	Dispatch manager
DU	DUMP	Dump manager
EI*		EXEC interface
EJ	ENTJAVA	Enterprise Java domain
EM	EVENTMGR	Event manager
FC*		File control and DL/I
GC	GLOBALCATLG	CICS global catalog manager
IC*		Interval control
IE		ECI over TCP/IP domain
II	IIOP	IIOP domain
IS*		Intersystem communication
KC*		Task control
KE	KERNEL	Kernel
LC	LOCALCATLG	CICS local catalog manager
LD	LOADER	Program load manager
LG	LOGMGR	Log manager
LM	LOCKMGR	Lock manager
ME	MESSAGE	Message manager
MN	MONITOR	Monitoring manager
NQ		Enqueue domain
OT	OBJECTTRAN	Object Transaction Service (OTS) domain
PA	PARAMGR	Parameter manager
PC*		Program control
PG	PROGMGR	Program manager
PI	Pipeline manager domain	
PT	PARTNER	Partner manager
RI*		Resource manager interface (RMI)
RM		Recovery manager
RX	RRS	Resource recovery services
RZ	REQUESTSTRM	Request streams domain
SC*		Storage control
SH		Scheduler services domain for BTS
SJ	SJVM	CICS JVM domain
SM	STORAGE	Storage manager
SO	SOCKETS	Sockets
ST	STATISTICS	Statistics manager
SZ*		Front-end programming interface
TC*		Terminal control
TD*		Transient data
TI	TIMER	Timer manager

TR	TRACE	Trace manager
TS		Temporary storage
UE*		User exit interface
US	USER	User interface
WB	WEB	Web interface
XM	TRANMGR	Transaction manager
XS	SECURITY	Security manager

Components marked ***** are subcomponents of the AP domain, and the trace entries for these components are produced with a trace point ID of AP nnnn.

SPECIAL
specifies that you want to set levels for special tracing for the components listed.

STANDARD
specifies that you want to set levels for standard tracing for the components listed.

Conditions

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
1 At least one CICS component was not accessible. Trace levels were set for the other components.

SET TRANCLASS

Set limits for a transaction class.

SET TRANCLASS

SET1

SET2

SET3

Conditions: INVREQ, NOTAUTH, TCIDERR

Description

The SET TRANCLASS command allows you to change the limits that govern tasks within a particular transaction class. These are the maximum number of tasks that can run concurrently (the MAXACTIVE value) and the maximum number that can queue awaiting initial dispatch (the PURGETHRESH value).

Options

MAXACTIVE(*data-value***)**
specifies, as a fullword binary value, the largest number of tasks in the transaction class which can run concurrently. The value can be in the range 0-999.

Raising the MAXACTIVE limit has an immediate effect if the old value of MAXACTIVE has caused queuing, because CICS dispatches queued tasks up to the new MAXACTIVE value. The effect of lowering MAXACTIVE, however, is gradual. Tasks in the class that are already running are allowed to complete normally, but new tasks are not dispatched until the number running drops below the new limit. If you lower MAXACTIVE to zero, you prevent any task in the class from starting execution until MAXACTIVE is increased.

PURGETHRESH(*data-value***)**
specifies, as a fullword binary value, one more than the maximum number of tasks in this class that can be queued awaiting initial dispatch. Queuing can occur either because the number of active tasks in the class is already at the MAXACTIVE value or because the maximum for the system has been reached

(see the MAXTASKS option in the INQUIRE SYSTEM command). Tasks that arrive while the queue is at its PURGETHRESH limit are purged (abended with a code of AKCC).

The PURGETHRESH value for a class can be between 0-1000000. A value of zero means there is no purge threshold limit; that is, any number of tasks can be queued. A value of one means that no tasks can be queued.

Raising the PURGETHRESH limit allows more transactions to queue and has an effect only when a task is attached that would have been purged if the old value were in effect.

However, if you lower the PURGETHRESH limit beyond the current size of the queue, enough queued tasks are abended to reduce the queue to the new limit. If you raise MAXACTIVE at the same time you lower PURGETHRESH, CICS dispatches as many queued tasks as possible before purging queued tasks, to minimize the number of tasks that get abended. Tasks are abended in priority order, starting with the lowest priority task.

TRANCLASS(*data-value***)**
specifies the 8-character name of the transaction class that you are changing. If the class is one of the numbered classes used in earlier releases of CICS, its name is DFHTCL*nn*, where *nn* is the two-digit class number.

Conditions

INVREQ
RESP2 values:
2 The MAXACTIVE value is not in the range 0-999.
3 The PURGETHRESH value is not in the range 0-1000000.

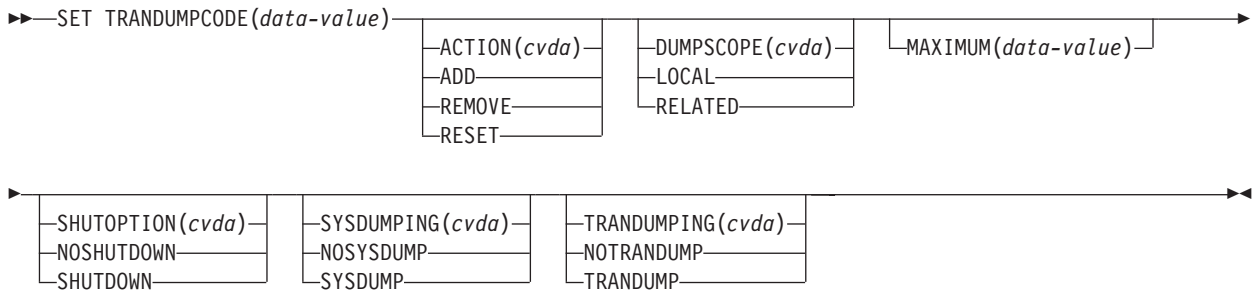
NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

TCIDERR
RESP2 values:
1 The transaction class cannot be found.

SET TRANDUMPCODE

Change an entry in the transaction dump table.

SET TRANDUMPCODE



Conditions: DUPREC, INVREQ, IOERR, NOSPACE, NOTAUTH, NOTFND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET TRANDUMPCODE command allows you to change the transaction dump table entry for a particular dump code, to add a new dump code to the table, or to delete one.

The table entry tells CICS the actions to take when a transaction dump request with this code is received. Possible actions include taking a transaction dump, taking a system dump (an MVS SDUMP), initiating requests for SDUMPs of related CICS regions, and shutting down CICS. The table entry also indicates how many times this set of actions is to be taken (the MAXIMUM value); after the maximum is reached, requests are counted but otherwise ignored.

Table updates are recorded in the CICS global catalog and preserved over executions of CICS until an initial or cold start occurs, except in the case of temporary table entries. CICS creates a temporary entry when it receives a dump request with a code for which there is no table entry; these entries, and any changes to them, last only for the current execution of CICS. If you want preserve changes to a temporary entry over restarts, you need to remove the dump code from the table and then add it back.

For information about transaction dumps, see the *CICS Problem Determination Guide*.

Options

ACTION(*cvda***)**
specifies the action to be taken for the dump code. CVDA values are:

ADD An entry for this code is to be added to the table.

REMOVE
The entry for this code is to be removed from the table. No other options can be specified on a REMOVE request.

RESET
The current number of dump requests for this dump code is to be set to zero. (See the CURRENT option of the INQUIRE TRANDUMPCODE command.)

DUMPSCOPE(*cvda***)**
specifies whether a request for a dump with this dump code should cause CICS to initiate requests for SDUMPs (system dumps) of "related" CICS regions.

A related CICS region is one in the same sysplex, connected by MRO/XCF and doing work on behalf of the task that caused the dump request——specifically, a region that has a task doing work under the same APPC token as this task.

This propagation of SDUMP requests occurs only when the table entry for this code also specifies a SYSDUMPING value of SYSDUMP, and only in a sysplex environment executing under MVS/ESA 5.1 and the MVS workload manager. In other systems, specifying RELATED causes an exception condition.

CVDA values are:

LOCAL
SDUMP requests are not to be sent.

RELATED
SDUMP requests are to be sent.

LOCAL is the default for entries you add, if you do not specify a DUMPSCOPE value.

MAXIMUM(*data-value***)**
specifies, as a fullword binary value, the maximum number of times CICS should take the set of actions indicated in the dump table entry. After the maximum is reached, CICS counts but otherwise ignores dump requests with this code. The valid range is 0-999. A value of 999 means there is no limit, and is the default used if you omit this option from an ADD request.

SHUTOPTION(*cvda***)**
specifies whether the CICS system is to be shut down after a request for a dump with this dump code. CVDA values are:

NOSHUTDOWN
The system is not to be shut down.

SHUTDOWN
The system is to be shut down.

If this option is omitted from an ADD request, NOSHUTDOWN is assumed.

SYSDUMPING(*cvda***)**
specifies whether a system dump (an MVS SDUMP) should be taken when a transaction dump request with this code is received. CVDA values are:

NOSYSDUMP
A system dump is not to be taken.

SYSDUMP
A system dump is to be taken.

Even when SYSDUMP is specified, CICS takes a dump only if the number of requests for this code is less than the MAXIMUM and system dumps are not suppressed globally (see the DUMPING option of the INQUIRE SYSTEM command).

If this option is omitted from an ADD request, NOSYSDUMP is assumed.

TRANDUMPCODE(*data-value***)**
specifies the 4-character transaction dump code for which the transaction dump table entry is to be changed. A valid transaction dump code has no leading or imbedded blanks.

TRANDUMPING(*cvda***)**
specifies whether a transaction dump should be taken when a transaction dump request with this code is received. CVDA values are:

NOTRANDUMP
A transaction dump is not to be taken.

TRANDUMP
A transaction dump is to be taken.

Even when TRANDUMP is specified, CICS will dump only when the count of requests for this code is no greater than the MAXIMUM.

If this option is omitted from an ADD request, TRANDUMP is assumed.

Conditions

DUPREC
RESP2 values:
10 ADD is specified for a dump code already in the transaction dump table.

INVREQ
RESP2 values:
2 ACTION has an invalid CVDA value.
3 TRANDUMPING has an invalid CVDA value.
4 SYSDUMPING has an invalid CVDA value.
5 The MAXIMUM value is out of range.
6 SHUTOPTION has an invalid CVDA value.
7 REMOVE is specified with other options.
9 The dump code is invalid.
13 DUMPSCOPE has an invalid CVDA value.
14 RELATED requires MVS/ESA 5.1.

IOERR
RESP2 values:
11 An error occurred updating the CICS catalog. The entry is changed for the current run, but is not recorded for restarts.

NOSPACE
RESP2 values:
12 The CICS catalog is full. The entry is changed for the current run, but is not recorded for restarts.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.

NOTFND

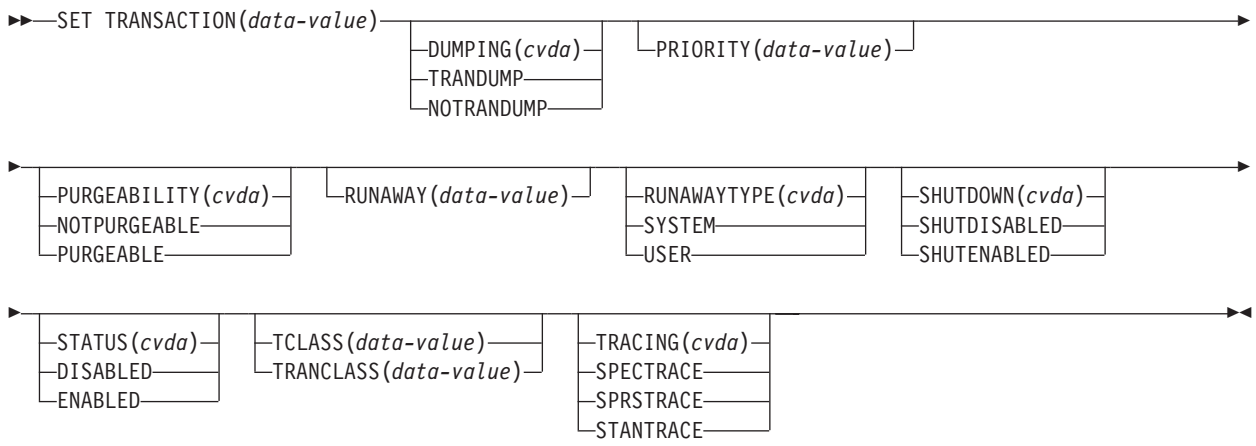
RESP2 values:

1 The dump code cannot be found.

SET TRANSACTION

Change a TRANSACTION definition.

SET TRANSACTION



Conditions: INVREQ, NOTAUTH, TRANSIDERR

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET TRANSACTION command allows you to change some attributes of a transaction definition.

You can change only the definitions in the local CICS system with this command. If you change a transaction that executes remotely (that is, one that specifies a REMOTESYSTEM value), your changes are made, but they have no effect on the definition in the remote system to which the local definition points, and therefore no effect on tasks that execute the transaction.

Changing a transaction definition affects only future tasks; to change a task already executing the transaction, use the SET TASK command.

Options

DUMPING(*cvda***)**
specifies whether CICS should take a transaction dump if a task executing this transaction terminates abnormally. CVDA values are:

NOTRANDUMP
No dump should be taken.

TRANDUMP
A dump should be taken.

This value applies only to abend dumps and has no effect on DUMP TRANSACTION commands.

OTSTIMEOUT(*data-area***)**
returns a fullword data-area containing the default period in seconds an OTS transaction, created in an EJB environment executing under this CICS transaction, is allowed to execute prior to syncpoint.

PRIORITY(*data-value***)**
specifies, as a fullword binary value, the priority of this transaction relative to other transactions in the CICS system. The value must be in the range 0–255.

PURGEABILITY(*cvda***)**
returns a CVDA value indicating whether CICS is allowed to purge this task (that is, to terminate it abnormally). Purge requests come from SET TASK PURGE commands (or CEMT equivalents), and CICS can generate them internally to reclaim resources to relieve a system stall condition. CVDA values are:

NOTPURGEABLE
The task cannot be purged.

PURGEABLE
The task can be purged.

The PURGEABILITY value is set initially by the SPURGE option in the definition of the transaction this task is executing.

RUNAWAY(*data-value***)**
specifies, as a fullword binary value, the "runaway task" time, in milliseconds, for tasks executing this transaction. The value must be 0, or in the range 500–2700000. CICS rounds the value you specify downwards, to a multiple of 500. If a task keeps control of the processor for more than this interval, CICS assumes it is in a loop and abends it. If the value is zero, CICS does not monitor the task for a runaway condition.

Note: If you specify RUNAWAY, you must set RUNAWAYTYPE to USER in the same SET command, even if RUNAWAYTYPE already has a value of USER.

RUNAWAYTYPE(*cvda***)**
specifies where the runaway task time for a task executing this transaction should be obtained. CVDA values are:

SYSTEM
The system default for runaway task time should be used. (An INQUIRE SYSTEM command with the RUNAWAY option tells you what the system value is.)

USER The RUNAWAY value for this transaction should be used. You must specify a value for RUNAWAY when you specify USER.

SHUTDOWN(*cvda***)**
specifies whether this transaction can be executed during CICS shutdown by a task created to process unsolicited terminal input. (The transaction also can be executed in this situation if it appears in the transaction list table (XLT) for shutdown.) CVDA values are:

SHUTDISABLED
The transaction cannot be executed.

SHUTENABLED
The transaction can be executed.

STATUS(*cvda***)**
specifies whether the transaction is to be available for use. CVDA values are:

DISABLED
The transaction is not available for use.

ENABLED
The transaction is available for use.

Transactions beginning with the letter “C” are CICS-supplied and cannot be disabled.

TCLASS(*data-value***)**
specifies, as a fullword binary value, the transaction class to which the transaction is to belong. When executed under CICS Transaction Server for z/OS, SET TRANSACTION TCLASS sets the TRANCLASS value in a TRANSACTION definition.

TCLASS is provided only for compatibility with earlier releases of CICS, where transaction classes were numbered rather than named, and you can use it only to assign a name of the form DFHTCL*nn*, where *nn* is the number you specify, in the range 0 –10. (It does not change the TCLASS value in the TRANSACTION definition, which CICS maintains for situations in which the same TRANSACTION definition is used for several different releases. See the descriptions of TCLASS and TRANCLASS in the INQUIRE TRANSACTION command for more information.)

TRACING(*cvda***)**
specifies the type of tracing to be done for tasks executing this transaction. See the *CICS Problem Determination Guide* for definitions of tracing types. CVDA values are:

SPECTRACE
Tracing is to be special.

SPRSTRACE
Tracing is to be suppressed.

STANTRACE
Tracing is to be standard.

TRANCLASS(*data-value***)**
specifies the 8-character name of the transaction class to which this transaction is to belong.

TRANSACTION(*data-value***)**
specifies the 4-character name of the transaction definition that you are changing.

Conditions

INVREQ
RESP2 values:

2 PURGEABILITY has an invalid CVDA value.
3 STATUS has an invalid CVDA value.
4 DISABLED has been specified for a CICS-supplied transaction.
5 The TCLASS or TRANCLASS name is not known.
7 TRACING has an invalid CVDA value.
8 DUMPING has an invalid CVDA value.
9 The PRIORITY value is out of range.
10 RUNAWAYTYPE has an invalid CVDA value.
11 SHUTDOWN has an invalid CVDA value.

12 USER has been specified without a RUNAWAY value.
13 RUNAWAY has been specified without a RUNAWAYTYPE value of USER.
14 The RUNAWAY value is out of range.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

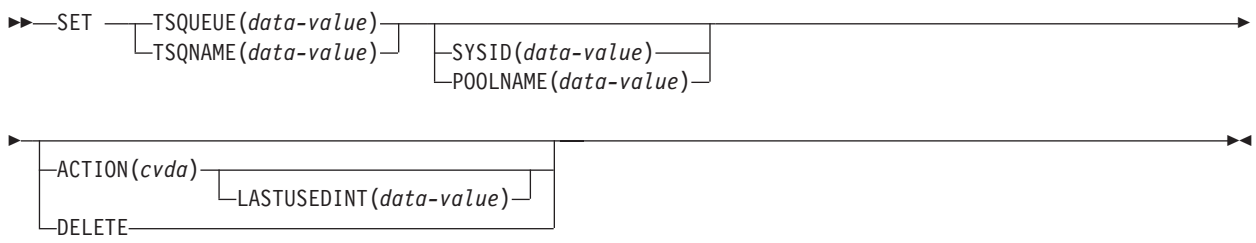
TRANSIDERR
RESP2 values:
1 The transaction cannot be found.

SET TSQUEUE / TSQNAME

Delete a TS queue.

This section applies also to the alternative command SET TSQNAME. Use either to delete a queue with a name up to 8 characters long, use SET TSQNAME to delete a queue with a name up to 16 characters long.

SET TSQUEUE



Conditions: INVREQ, NOTAUTH, NOTFND, POOLERR, QIDERR, SYSIDERR

Description

The SET TSQUEUE command enables you to delete a TS queue. The LASTUSEDINT option may be used to ensure that the queue to be deleted has not been referenced since a previous INQUIRE was issued. It may also be used to delete queues which have not been referenced within a given interval. If a queue is recoverable, a separate task must be attached to perform the deletion.

Options

ACTION(*cvda***)**
specifies the action to be taken on the queue. The CVDA value is:

DELETE
the queue is to be deleted.

LASTUSEDINT
if this option is specified, the queue is only deleted if its last used interval is greater or equal to the value specified.

POOLNAME(*data-value***)**
specifies an 8-character pool name.

SYSID(*data-value***)**
specifies a 4-character shared sysid.

TSQNAME(*data-value***)**
specifies the 1 to 16-character identifier of the TS queue.

TSQUEUE(*data-value***)**
specifies the 1 to 8-character identifier of the TS queue.

Conditions

INVREQ
RESP2 values:

1 The TSQUEUE was not deleted because LASTUSEDINT was greater than the interval, or because the the TSQUEUE is in use.
2 The action specified was not *DELETE*
3 LASTUSEDINT was specified but had an invalid value; that is, a negative value.
4 The filetype was not valid for the specified operation.

NOTAUTH
RESP2 values:
100 The user associated with the issuing task is not authorized to use this command.
101 The user associated with the issuing task is not authorized to access this particular resource in the way required by this command.

NOTFND
RESP2 values:
1 The TSQUEUE cannot be found.

POOLERR
RESP2 values:
0 POOLNAME was specified but the pool could not be accessed.

QIDERR
RESP2 values:
1 The QUEUE name was invalid; (it was binary zeros).

SYSIDERR
RESP2 values:
0 SYSID was specified but there is no corresponding pool, or the pool is unavailable.
3 The SYSID does not map to a shared pool.
4 Server error.
5 I/O error on coupling facility.

SET UOW

Commit, back out, or force a shunted unit of work.

SET UOW

Conditions: INVREQ, NOTAUTH, UOWNOTFOUND

Description

The SET UOW command enables you to commit, back out, or force a unit of work that has been shunted during the transaction's in-doubt period.

Options

UOW(*data-value***)**
specifies the 16-byte identifier of the UOW to be committed, backed out, or forced.

UOWSTATE(*cvda***)**
specifies the action to be attempted for this UOW. CVDA values are:

BACKOUT
Attempt to force syncpoint backout processing, as specified for this UOW.

COMMIT
Attempt to force syncpoint commit processing, as specified for this UOW.

FORCE
Attempt to force the UOW to back out or commit, as specified on the ACTION option of the TRANSACTION resource definition.

Note: All these values are valid only for UOWs that are shunted in-doubt. For information about the INDOUBT attributes of TRANSACTION definitions, see the *CICS Resource Definition Guide*.

Conditions

INVREQ
RESP2 values:
3 UOWSTATE has an invalid CVDA value.
4 CICS is not in a valid state to COMMIT, BACKOUT, or FORCE this UOW.

NOTAUTH
RESP2 values:
100 The use of this command is not authorized.

UOWNOTFOUND
RESP2 values:

1 The UOW cannot be found.

SET UOWLINK

Delete a link to a unit of work (a UOW-link) that was created by a connection that has since been discarded.

UOWLINKs associated with RRS can be deleted when RRS has cold started.

SET UOWLINK

Conditions: INVREQ, NOTAUTH, UOWLNOTFOUND

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The association between a unit of work and a connection is known as a UOW-link. You can use the INQUIRE UOWLINK command to browse all the UOW-links currently in the system. Some of the UOW-links may have been created by connections that have since been discarded. If so, you may be able to use the SET UOWLINK command to delete them. (For information about when it is safe to delete UOW-links, see the *CICS Intercommunication Guide*.)

Options

ACTION(*cvda***)**
specifies the action to be taken against the UOW-link. The CVDA value is:

DELETE
Delete the UOW-link. Note that you cannot delete UOW-links where the connection still exists.

UOWLINK(*data-value***)**
specifies the 4-character identifier of the UOW-connection dependency (the UOW-link) to which this command applies.

Conditions

INVREQ
RESP2 values:

2 Resynchronization is already in progress, or the UOW-link is already being processed by another instance of the SET UOWLINK command.

3 The unit of work is in-doubt, and the UOW-link is the coordinator of the commit or backout session. The unit of work must be forced using the SET UOW command before the UOW-link can be deleted.

4 This is not a link created by a connection, or is not a recoverable link.

5 The UOW-link (and the associated communication session) is still active.

6 ACTION has an invalid CVDA value.

7 The UOW-link has a suitable connection definition, and cannot be deleted. You must discard the related connection before you can delete a UOW link.

NOTAUTH

RESP2 values:

100 The use of this command is not authorized.

UOWLNOTFOUND

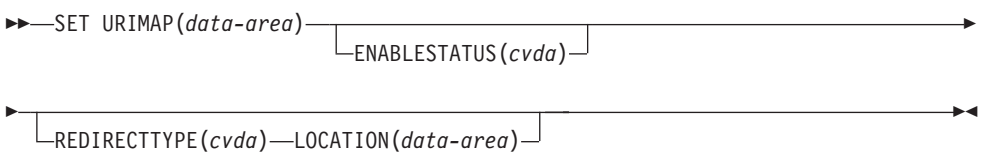
RESP2 values:

1 The specified UOW-link cannot be found.

SET URIMAP

Enables or disables a URIMAP definition, and applies or removes redirection for a URIMAP definition.

SET URIMAP



Conditions: INVREQ, NOTAUTH, NOTFND

This command is threadsafe.

Description

The SET URIMAP command allows you to:

- Enable or disable a URIMAP definition.
- Set redirection for matching HTTP requests, and specify a URL to which the requests are redirected. You can use this command to apply redirection to an existing URIMAP definition, for example if the application that would normally respond to the HTTP request is unavailable. You can also use this command to remove redirection from a URIMAP definition.

Options

ENABLESTATUS*(cvda)*
Sets the URIMAP definition to enabled or disabled status. CVDA values are:

ENABLED
The URIMAP definition can be accessed by applications.

DISABLED
The URIMAP definition cannot be accessed by applications. A URIMAP definition has to be disabled before it can be reinstalled or discarded.

LOCATION*(data-area)*
Specifies a URL of up to 255 characters, to which matching HTTP requests from Web clients can be redirected. This must be a complete URL, including scheme, host, and path components, and appropriate delimiters. CICS does not check that the URL is valid, so you must ensure that the destination exists and that the URL is specified correctly.

The REDIRECTTYPE option is used to specify the type of redirection. If temporary or permanent redirection is specified, the URL in the LOCATION attribute is used for redirection. If NONE is specified, the URL in the LOCATION option is ignored.

REDIRECTTYPE*(cvda)*
Specifies the type of redirection for requests that match this URIMAP definition. The URL for redirection is specified by the LOCATION option. CVDA values are:

NONE Requests are not redirected. Any URL specified by the LOCATION option is ignored.

TEMPORARY
Requests are redirected on a temporary basis. The HTTP status code used for the response is 302 (Found).

PERMANENT
Requests are redirected permanently. The HTTP status code used for the response is 301 (Moved Permanently).

Conditions

INVREQ
RESP2 values are:

8 No location specified for redirection (LOCATION option).

9 Invalid REDIRECTTYPE or ENABLESTATUS value.

12 The URIMAP has USAGE(CLIENT) so redirection does not apply, and the LOCATION option cannot be set.

NOTAUTH
RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command.

NOTFND
RESP2 values are:

3 The URIMAP cannot be found.

SET VOLUME

This command is supported in releases of CICS earlier than CICS Transaction Server for OS/390 to add, remove, or change availability of a named journal volume.

Description

SET VOLUME is obsolete, and is retained only for compatibility with previous releases. The only run-time support is to return the VOLIDERR condition. If this command is used, the translator translates it, but issues a warning message.

Conditions

VOLIDERR

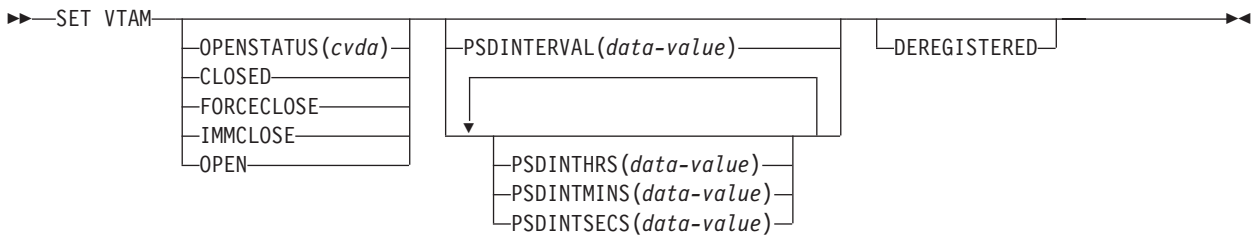
RESP2 values:

1 The program has issued a SET VOLUME command. This command is withdrawn.

SET VTAM

Modify the CICS VTAM connection.

SET VTAM



Conditions: INVREQ, IOERR, NOTAUTH

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET VTAM command allows you to:

- Establish or terminate the CICS connection to VTAM
- Modify the persistent session delay interval value that CICS passes to VTAM
- Deregister CICS from membership of a VTAM generic resource.

Options

DEREGISTERED
specifies that CICS is to be removed from the VTAM generic resource that it is currently a member of. If you deregister a region from membership of a generic resource, you should end any affinities that it owns—see the PERFORM ENDAFFINITY command.

Generic resources are described in the *CICS Intercommunication Guide*.

OPENSTATUS(*cvda*)
specifies whether or not CICS is to have a connection to VTAM (that is, whether the VTAM ACB is to be open or closed) and, if CICS must close the ACB to comply, how the shutdown should be done. CVDA values are:

CLOSED
The connection is to be closed. If it is currently open, CICS is to quiesce all VTAM activity and then close the VTAM ACB. Tasks using VTAM terminals or sessions are allowed to complete before closure, but new tasks requiring VTAM are not begun.

FORCECLOSE
The connection is to be closed. If currently open, CICS is to close the VTAM ACB immediately. Both VTAM sessions and tasks using VTAM terminate abnormally as a result.

IMMCLOSE
The connection is to be closed. If currently open, CICS is to terminate

abnormally any tasks using VTAM immediately, do an orderly shutdown of all its VTAM sessions, and then close the VTAM ACB.

OPEN A connection is to be open. If the VTAM ACB is closed, CICS is to open it.

If CICS is using VTAM multi-node persistent sessions, and VTAM has been restarted after an abend, opening the VTAM ACB causes CICS to restore the persistent sessions that VTAM has retained. However, CICS does not restore APPC synclevel 2 sessions, which are unbound.

PSDINTERVAL(*data-value***)**
specifies the persistent session delay (PSD) interval value, which determines whether and for how long VTAM is to hold sessions in recovery-pending state after a CICS failure. The range for the value is 0-23:59:59. Zero causes the persistent session feature not to be used; sessions are terminated at the time of the failure.

Note: Zero is the only value allowed in a system which is eligible for the extended recovery facility; see the XRFSTATUS option in the INQUIRE SYSTEM command.

When you specify a PSD interval, CICS sets the system initialization option PSDINT (see the *CICS System Definition Guide* for more about this option). CICS passes this value to VTAM whenever it opens the ACB. This occurs immediately if you specify an OPENSTATUS value of OPEN in the same SET SYSTEM command, or if the VTAM ACB is already open and you do not close it. If the ACB is closed or being closed, or if the open attempt fails, the new value is established on the next successful open.

If VTAM is below the level that supports persistent sessions (Version 3.4.1), VTAM rejects the PSD request. CICS then sets the PSDINT system option value to zero and returns an INVREQ condition, but goes on to continue any other processing you requested. The INVREQ occurs when the value is passed to VTAM, which may be later than the command that set it, as explained above. Consequently, you can get this condition on a command that does not specify a PSD interval.

The PSD interval can be expressed in several ways:

- A 4-byte packed decimal composite, in the format *0hhmmss+*, using the PSDINTERVAL option.
- With separate hours, minutes, and seconds, using the PSDINTHRS, PSDINTMINS, and PSDINTSECS options. You can use these options singly or in any combination.

When you use PSDINTERVAL or more than one of the separate options, the minutes and seconds portions of the value must not be greater than 59 (PSDINTMINS or PSDINTSECS used alone can exceed 59). For example, you could express an interval of 1 hour and 30 minutes in any of the following ways:

- PSDINTERVAL(13000)
- PSDINTHRS(1), PSDINTMINS(30)
- PSDINTMINS(90)
- PSDINTSECS(5400)

PSDINTHRS(*data-value***)**
specifies the hours component of the PSD interval, in fullword binary form (see the PSDINTERVAL option).

PSDINTMINS(*data-value***)**
specifies the minutes component of the PSD interval, in fullword binary form (see the PSDINTERVAL option).

PSDINTSECS(*data-value***)**
specifies the seconds component of the PSD interval, in fullword binary form (see the PSDINTERVAL option).

Conditions

INVREQ
RESP2 values:

1 VTAM is not present in the system.

2 OPENSTATUS has an invalid CVDA value.

4 The PSDINTERVAL value is out of range.

5 The PSDINTHRS value is out of range.

6 The PSDINTMINS value is out of range.

7 The PSDINTSECS value is out of range.

8 A PSDINTERVAL value > 0 was specified in an XRF-eligible system.

9 VTAM reported an error while an attempt was being made to set the PSD interval.

10 A PSD interval has been specified but either the VTAM currently in use (or the VTAM library used when the terminal control table was assembled) does not support persistent sessions. The interval may have been specified earlier than this command; see the PSDINTERVAL description. If OPEN was also requested, CICS has opened the VTAM ACB.

11 The ACB has opened successfully, but an error occurred in at least one of the sessions that persisted from the previous failure.

12 Your OPEN request did not complete because another task subsequently requested a close of the VTAM connection.

13 An error occurred during recovery of sessions, and the VTAM ACB is closed as a result.

14 CICS is performing cleanup processing following a predatory XRF takeover. CICS rejects OPEN requests with this error, without invoking VTAM, during this activity. OPEN requests are processed as usual as soon as cleanup is complete.

16 Your attempt to deregister CICS from a VTAM generic resource failed because CICS is not registered as a member of a generic resource group.

IOERR
RESP2 values:

n An error occurred during the opening of the ACB. If CICS could not process the request, the RESP2 value is 3. If VTAM detected the failure, CICS returns the VTAM FDBK2 code in RESP2: you can look up these errors in the *VTAM Programming* manual, under ACB OPEN and CLOSE return codes.

NOTAUTH
RESP2 values:

100 The user associated with the issuing task is not authorized to use this command.

SET WEB

Modify CICS Web support.

SET WEB

Conditions: INVREQ, IOERR, NOTAUTH

This command is threadsafe.

For more information about the use of CVDAs, see “CICS-value data areas (CVDAs)” on page 8.

Description

The SET WEB command allows you to:

- Change Web garbage collection settings.
- Change Web 3270 terminal timeout settings.

Options

GARBAGEINT(*data-value***)**
specifies, as a fullword, the interval inminutes at which the Web garbage collection task runs to clean up Web 3270 state data for which the terminal timeout interval has expired. The permitted range of values is 1 to 6000.

TIMEOUTINT(*data-value***)**
specifies, as a fullword, the period of time, in minutes , after which inactive Web 3270 sessions are eligible for garbage collection. The permitted range of values is 1 to 60.

Conditions

INVREQ
RESP2 values are:

11 an invalid value has been supplied for GARBAGEINT or TIMEOUTINT.

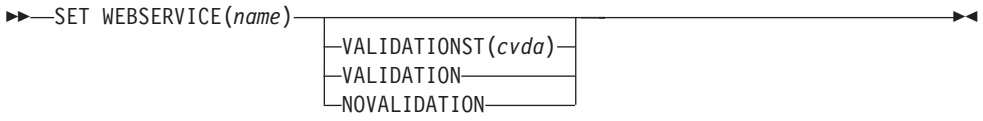
NOTAUTH
RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command

SET WEBSERVICE

Use the **SET WEBSERVICE** command to change the status of an installed WEBSERVICE.

SET WEBSERVICE



Conditions: INVREQ, NOTAUTH, NOTFND

Options

WEBSERVICE(*name*)
Specifies the name of the WEBSERVICE.

VALIDATIONST(*cvda*)
Specifies whether full validation is enabled for the WEBSERVICE or not. CVDA values are:

VALIDATION
Full validation is enabled.

NOVALIDATION
Full validation is not enabled.

Conditions

INVREQ
RESP2 values are:

9 VALIDATIONST cannot be changed because the WEBSERVICE is not INSERVICE.

NOTAUTH
RESP2 values are:

100 The user associated with the issuing task is not authorized to use this command.

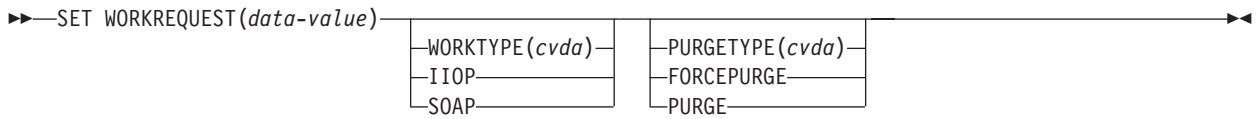
NOTFND
RESP2 values are:

3 The WEBSERVICE cannot be found.

SET WORKREQUEST

To Purge or Forcepurge a specific local task.

SET WORKREQUEST



Conditions: INVREQ, NOTAUTH, NOTFND

This command is threadsafe.

Description

The SET WORKREQUEST command allows you to purge a specific local IIOP task (terminate it abnormally) using the PURGE or FORCEPURGE option. These actions are not permitted for request receivers, any such attempts fail.

SET WORKREQUEST is only available for IIOP tasks.

Work Requests are identified by tokens. Each token is unique in the local system . It is expressed as an eight character field, where the characters are hexadecimal digits .

For additional background information about the SPI commands that handle Work Requests, see “INQUIRE WORKREQUEST” on page 440.

Options

WORKREQUEST(*data-value***)**
specifies an 8-character token to identify the work request. The token is generated by CICS. Normal usage begins with an INQUIRE WORKREQUEST BROWSE command, to identify the token which is of interest. Then the specific token can be used to issue INQUIRE and SET commands that relate to the task in question.

PURGETYPE(*cvda***)**
specifies that CICS is to purge the task, and indicates conditions for doing so.

Purging a task at the wrong time can result in a loss of data integrity or, in some circumstances, can cause CICS to abend. CICS always defers purging until the task reaches a state where the system itself does not appear to be at risk, but you can specify whether CICS also should wait until data integrity can be ensured.

If CICS accepts a purge request, it returns a NORMAL response to SET WORKREQUEST. You can tell whether execution has been deferred by inspecting the RESP2 value. If RESP2 is zero, the purge has been completed; if RESP2 is 6, it has been deferred. CVDA values are:

FORCEPURGE
The task is to be terminated as soon as it is consistent with system integrity and without regard to data integrity.

Note: CICS cannot always determine whether a forced purge is safe; it is possible to abend the system when you specify FORCEPURGE.

PURGE
The task is to be terminated as soon as both system and data integrity can be maintained.

Note: You cannot purge a task with this CVDA value if the definition of the TRANSACTION it is executing specifies SPURGE=NO.

WORKTYPE(*cvda***)**
specifies the type of work being performed:

IIOP Specifies that the work is being executed for an IIOP request.

SOAP Specifies that the work is being executed for a Web service request.

Conditions

INVREQ
RESP2 values:
2 The attempted purge or forcepurge action is not valid.
5 The attempt to purge or forcepurge a local task failed.
6 The attempt to purge or forcepurge a local task is deferred.
7 PURGE is not permitted because SPURGE=NO has been set to protect the task.
8 The task is protected by CICS and is not eligible for modification with this command.
9 An attempt to purge or forcepurge a request receiver failed. Such actions are not allowed for request receivers.

NOTAUTH
RESP2 values:
100 The user of the issuing task is not authorized to use this command.

NOTFND
RESP2 values:
3 The specified WORKREQUEST is not present in this system.

Appendix A. CICS-value data areas used by all commands

This lists the CICS-value data-area (CVDA) values and their numeric equivalents for all of the EXEC CICS commands. CVDAs are described beginning on page 8.

This appendix consists of three tables:
- one, in alphabetic sequence of the CVDA values;
- one, (beginning on page 652) in numeric sequence of the CVDA values;
- and one, (beginning on page 668) gives the CVDA values returned by the INQUIRE TERMINAL|NETNAME DEVICE command.

CVDAs and numeric values in alphabetic sequence

CVDA	Value
ABEND	900
ACQFAIL	515
ACQUIRED	69
ACQUIRING	71
ACTIVE	181
ACTIVITY	1002
ADD	291
ADDABLE	41
ADDFAIL	519
ADVANCE	265
AINIT	282
ALARM	501
ALLCONN	169
ALLOCATED	81
ALLQUERY	431
ALTERABLE	52
ALTERNATE	197
ALTPRTCOPY	446
ANALYZER	1126
AND	1005
ANY	158
APLKYBD	391
APLTEXT	393
APPC	124
APPCPARALLEL	374
APPCSINGLE	373
APPEND	1036
APPLICATION	559
APPLNAME	338
ASACTL	224
ASCII7	616
ASCII8	617
ASSEMBLER	150
ASSERTED	1104
ATI	75
ATTENTION	524
AUDALARM	395
AUTOACTIVE	630
AUTOARCH	262
AUTOAUTH	1095

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CVDA	Value
AUTOCONN	170
AUTOINACTIVE	631
AUTOINIT	284
AUTOINSTALL	1140
AUTOPAGEABLE	80
AUTOREGISTER	1094
AUTOSTART	618
AUTOTERMID	1120
AUXILIARY	247
AUXPAUSE	313
AUXSTART	312
AUXSTOP	314
AVAILABLE	95
BACKOUT	192
BACKTRANS	397
BACKUPNONBWO	800
BASE	10
BASEAPI	1052
BASESPACE	664
BASICAUTH	1092
BDAM	2
BEGINSESSION	510
BELOW	159
BGAM	63
BINARY	1038
BINIT	283
BIT	1020
BLK	47
BLOCKED	16
BOTH	1100
BROWSABLE	39
BSAM	61
BUSY	612
C	149
CACHE	791
CANCEL	526
CANCELLED	624
CANCELLING	1025
CD	491
CEDF	370
CERTIFICAUTH	1093
CFTABLE	833
CGROUP	902
CHANNEL	1047
CHAR	1019
CHUNKEND	737
CHUNKNO	735
CHUNKYES	736
CICS	660
CICSAPI	1052
CICSDATAKEY	379
CICSECURITY	195
CICSEXECKEY	381
CICSTABLE	101

CVDA	Value
CKOPEN	1055
CLASSCACHE	1075
CLEAR	640
CLICONVERT	743
CLIENT	1122
CLIENTAUTH	1032
CLIENTCERT	1087
CLOSE	741
CLOSED	19
CLOSEFAILED	349
CLOSELEAVE	261
CLOSEREQUEST	22
CLOSING	21
CMDPROT	673
CMDSECEXT	207
CMDSECNO	205
CMDSECYES	207
COBOL	151
COBOLII	375
COLD	788
COLDACQ	72
COLDQUERY	433
COLDSTART	266
COLOR	399
COMMAREA	1048
COMMIT	208
COMMITFAIL	792
COMPLETE	1026
COMPOSITE	1003
CONFFREE	82
CONFRECEIVE	83
CONFSEND	84
CONNECT	903
CONNECTED	690
CONNECTING	904
CONNECTION	755
CONSISTENT	723
CONSOLE	66
CONTENTION	836
CONTROLSHUT	623
CONVERSE	600
CONVIDLE	518
COORDINATOR	770
COPID	908
COPY	401
CORBA	1101
CORBASERVER	1141
CPLUSPLUS	148
CREATE	67
CRITICAL	11
CSIGN	905
CTERM	906
CTLGALL	632
CTLGMODIFY	633

CVDA	Value
CTLGNONE	634
CTRLABLE	56
CTX	907
CURRENT	260
CUSERID	909
DAE	684
DATA	508
DATASET	756
DATASETFULL	793
DATASTREAM	543
DB2CONN	1142
DB2ENTRY	1143
DEADLOCK	794
DEBUG	1082
DEC	46
DEFAULT	198
DEFRESP1	497
DEFRESP1OR2	528
DEFRESP2	498
DEFRESP3	499
DELAY	637
DELETABLE	43
DELETE	292
DELETEFAIL	520
DELEXITERROR	795
DEREGERROR	679
DEREGISTERED	678
DEST	235
DISABLED	24
DISABLEDHOST	1125
DISABLING	25
DISCARDFAIL	513
DISCARDING	1118
DISCONNING	910
DISCREQ	444
DISK1	252
DISK2	253
DISK2PAUSE	254
DISPATCHABLE	228
DISPATCHER	1144
DOCTEMPLATE	1145
DORMANT	1024
DPLSUBSET	383
DS3270	615
DUALCASE	403
DUMMY	781
DYNAMIC	178
EB	490
EBCDIC	1039
ECI	1098
EJB	1102
EMERGENCY	268
EMPTY	210
EMPTYREQ	31

CVDA	Value
ENABLED	23
# ENABLING	51
ENDAFFINITY	790
| ENQUEUE	1146
EQUAL	911
ESDS	5
EVENT	334
EVENTFAIL	1012
EVENTUAL	3
EXCEPT	332
EXCEPTRESP	523
EXCI	650
EXCTL	48
EXECENQ	751
EXECENQADDR	752
EXIT	912
EXITTRACE	362
| EXPECT	747
EXPIRED	1017
EXTENDEDDS	405
EXTRA	221
EXTSECURITY	194
FAILED	782
FAILEDBKOUT	357
FAILINGBKOUT	358
FCLOSE	273
FILE	238
FINALQUIESCE	183
FINPUT	270
FIRED	1001
FIRSTINIT	625
FIRSTQUIESCE	182
FIXED	12
FLUSH	783
FMH	502
FMHPARM	385
FOPEN	272
FORCE	342
FORCECANCEL	655
FORCECLOSE	351
FORCECLOSING	353
FORCED	1013
FORCEPURGE	237
FORCEUOW	342
FORMATEDF	606
FORMATTED	542
FORMFEED	407
FOUTPUT	271
FREE	85
FREEING	94
FULL	212
FULLAPI	384
FULLAUTO	1073
FWDRECOVABLE	354

CVDA	Value
GENERIC	651
GET	748
GMT	604
GOINGOUT	172
GROUP	913
GTFSTART	317
GTFSTOP	318
HEAD	750
HEURBACKOUT	758
HEURCOMMIT	757
HEX	45
HFORM	409
HFSFILE	1040
HIGH	914
HILIGHT	413
HOLD	163
HOME	1103
HTTP	1096
HTTPNO	1034
HTTPS	1029
HTTPYES	1033
IGNORE	1
IGNORED	1105
IGNORERR	816
IIOP	1097
IMMCLOSE	350
IMMCLOSING	352
IMMEDIATE	2
IMMQUIESCED	706
INACTIVE	378
INBOUND	547
INCOMPLETE	1014
INDEXRECFULL	796
INDIRECT	122
INDOUBT	620
INFLIGHT	621
INITCOMPLETE	628
INITIAL	789
INITING	1112
INOUT	532
INPUT	226
INSERVICE	73
INSTALLED	550
INSTALLFAIL	512
INTERNAL	1058
INTRA	222
INTSTART	310
INTSTOP	311
INVALID	359
IOERROR	797
IRC	121
ISOLATE	658
JAVA	147
JOURNALNAME	1147

	CVDA	Value
	JOURNALNUM	1148
	JVM	1080
	JVMPOOL	1149
	JVMPROFILE	1150
	JVMPROGRAM	1151
	KATAKANA	415
	KEEP	786
	KEYED	8
#	KILL	232
	KSDS	6
	LCKSTRUCFULL	832
	LEAVE	811
#	LENV	377
	LE370	377
	LIC	493
	LIGHTPEN	417
	LOAD	834
	LOCAL	605
	LOCKING	837
	LOG	54
	LOGICAL	216
	LOGTERM	269
	LOSE	544
	LOW	915
	LPA	165
	LSRPOOL	1152
	LUP	541
	LUSTAT	525
	LU61	125
	MAIN	248
	MAP	155
	MAPSET	155
	MCHCTL	241
	MDT	506
	MOD	813
	MODEANY	189
	MODEL	370
	MODE24	190
	MODE31	191
	MONITOR	1153
	MORE	492
	MSRCONTROL	419
	MVS	780
	MVSTCB	1154
	NEGATIVE	530
	NEW	28
	NEWCOPY	167
	NEWSESSION	485
	NOALARM	500
	NOALTPRTCOPY	447
	NOANALYZER	1127
	NOAPLKYBD	392
	NOAPLTEXT	394
	NOAPPEND	1037

CVDA	Value
NOAPPLNAME	339
NOATI	76
NOAUDALARM	396
NOAUTHENTIC	1091
NOAUTO	1071
NOAUTOARCH	263
NOBACKOUT	193
NOBACKTRANS	398
NOCEDF	371
NOCLASSCACHE	1076
NOCLEAR	641
NOCLICONVERT	744
NOCLOSE	742
NOCMDPROT	674
NOCOLOR	400
NOCONNECT	916
NOCONV	556
NOCONVERSE	601
NOCOPY	402
NOCREATE	68
NOCTL	223
NODAE	685
NODE	1155
NODEBUG	1083
NODISCREQ	445
NODUALCASE	404
NOEMPTYREQ	32
NOEVENT	335
NOEXCEPT	333
NOEXCTL	49
NOEXIT	917
NOEXITTRACE	363
NOEXTENDEDDS	406
NOFMH	503
NOFMHPARM	386
NOFORCE	1054
NOFORMATEDF	607
NOFORMFEED	408
NOHFORM	410
NOHILIGHT	414
NOHOLD	164
NOINCONVERT	745
NOISOLATE	657
NOJVM	1081
NOKATAKANA	416
NOLIGHTPEN	418
NOLOAD	835
NOLOG	55
NOLOSTLOCKS	710
NOMDT	507
NOMSGJRNL	531
NOMSRCONTROL	420
NONAUTOCONN	171
NONCICS	661

CVDA	Value
NONCRITICAL	1090
NONE	496
NONLE370	1084
NOOBFORMAT	422
NOOBOPERID	388
NOOUTCONVERT	746
NOOUTLINE	424
NOPARTITIONS	426
NOPERF	331
NOPHASEOUT	1110
NOPRESETSEC	243
NOPRINTADAPT	428
NOPROGSYMBOL	430
NOPRTCOPY	449
NOQUERY	432
NORECOVDATA	700
NOREENTPROT	681
NORELEASE	918
NORELREQ	443
NORESRCE	337
NORESYNC	934
NORETAINED	711
NOREUSE	294
NORMAL	1016
NORMALBKOUT	356
NORMALRESP	522
NORMI	775
NOROLLBACK	919
NOSECURITY	196
NOSHUTDOWN	289
NOSOSI	435
NOSPI	694
NOSRVCONVERT	739
NOSSL	1031
NOSTSN	487
NOSWITCH	285
NOSYNCPOINT	603
NOSYSCONNECT	654
NOSYSDUMP	185
NOSYSLOG	784
NOTADDABLE	42
NOTALTERABLE	53
NOTAPPLIC	1
NOTASKSTART	608
NOTBROWSABLE	40
NOTBUSY	613
NOTCDEB	495
NOTCONNECTED	691
NOTCTRLABLE	57
NOTDEFINED	659
NOTDELETABLE	44
NOTDYNAMIC	1021
NOTEMPTY	211
NOTERMINAL	214

CVDA	Value
NOTEXTKYBD	437
NOTEXTPRINT	439
NOTFIRED	1000
NOTFWDRCVBLE	361
NOTINBOUND	546
NOTINIT	376
NOTINSTALLED	551
NOTKEYED	9
NOTLPA	166
NOTPENDING	127
NOTPURGEABLE	161
NOTRANDUMP	187
NOTREADABLE	36
NOTREADY	259
NOTRECOVABLE	30
NOTREQUIRED	667
NOTRLS	721
NOTROUTABLE	1022
NOTSOS	669
NOTSUPPORTED	15
NOTSUSPENDED	1027
NOTTABLE	100
NOTTI	78
NOTUPDATABLE	38
NOTWAIT	920
NOUCTRAN	451
NOUSER	1011
NOVALIDATION	441
NOVFORM	412
NOWAIT	341
NOWRITE	275
NOZCPTRACE	365
NRS	774
N906	931
N906D	921
OBFORMAT	421
OBOPERID	387
OBTAINING	96
OFF	200
OK	274
OLD	26
OLDCOPY	162
OLDSESSION	486
ON	201
OPEN	18
OPENAPI	1053
OPENERROR	798
OPENING	20
OPENINPUT	256
OPENOUTPUT	257
OPID	933
# OPTIONS	759
OR	1006
OTS	1107

CVDA	Value
OTSCOORD	1108
OUTLINE	423
OUTPUT	227
OUTSERVICE	74
OWNER	753
PAGEABLE	79
PARTITIONS	425
PARTITIONSET	156
PATH	11
PDSMEMBER	1035
PENDBEGIN	558
PENDDATA	560
PENDFREE	86
PENDING	126
PENDINIT	1113
PENDPASS	565
PENDRECEIVE	87
PENDRELEASE	562
PENDRESOLVE	1114
PENDSTART	561
PENDSTSN	557
PENDUNSOL	564
PERF	330
PERMANENT	484
PIPELINE	1124
PHASEIN	168
PHASEOUT	1111
PHYSICAL	215
PIPELINE	1124
PLI	152
PL1	152
POOL	922
POSITIVE	529
POST	636
PRESETSEC	242
PRIMARY	110
PRINTADAPT	427
PRIVATE	174
PROCESS	1010
PROFILE	157
PROGAUTO	1072
PROGRAM	154
PROGSYMBOL	429
PROTECTED	504
PRTCOPY	448
PUBLISH	1085
PURGE	236
PURGEABLE	160
PUT	749
QR	1057
QUASIRENT	1050
QUEUE	814
QUIESCED	707
QUIESCING	708

CVDA	Value
READABLE	35
READBACK	209
READONLY	275
READY	258
REBUILD	923
RECEIVE	88
RECEIVER	1046
RECONNECT	924
RECOVDATA	701
RECOVERABLE	29
RECOVERED	277
RECOVERLOCKS	712
RECOVERY	1156
REENTPROT	680
REGERROR	677
REGISTERED	670
REJECT	815
RELATED	675
RELEASE	563
RELEASED	70
RELEASING	549
RELOAD	1078
RELOADING	1079
RELREQ	442
REMLOSTLOCKS	713
REMOTE	4
REMOVE	276
REMSESSION	740
REMTABLE	103
REPEATABLE	724
REQUESTMODEL	1157
REQUIRED	666
REREAD	812
RESET	290
RESETLOCKS	714
RESOLVING	1115
RESRCE	336
RESSECEXT	204
RESSECINT	203
RESSECNO	202
RESSECYES	204
RESPECTED	1109
RESYNC	702
RETAINED	715
RETRACT	1086
RETRY	716
REUSE	293
REVERTED	264
REWIND	811
RFC1123	646
RLS	720
RLSACTIVE	730
RLSGONE	799
RLSINACTIVE	731

	CVDA	Value
	RLSSERVER	761
	RMI	771
	ROLLBACK	89
	ROUTABLE	1023
	ROUTE	638
	RPG	153
	RRCOMMITFAIL	830
	RRDS	7
	RRINDOUBT	831
	RRMS	1063
	RTR	527
	RU	494
	RUNNING	229
#	SCAN	1088
	SCS	614
	SECONDINIT	626
	SEND	90
	SENDER	1045
	SERVER	1123
	SESSION	372
	SESSIONFAIL	517
	SESSIONLOST	516
	SETFAIL	514
	SHARE	27
	SHARED	173
	SHUNTED	762
	SHUTDISABLED	645
	SHUTDOWN	288
	SHUTENABLED	644
	SIGN	925
	SIGNEDOFF	245
	SIGNEDON	244
	SINGLEOFF	324
	SINGLEON	323
	SKIP	810
	SMF	255
	SNA	60
	SOAP	1044
	SOS	668
	SOSABOVE	683
	SOSBELOW	682
	SOSI	434
	SPECIFIC	652
	SPECTRACE	177
	SPI	693
	SPRSTRACE	175
	SQLCODE	926
	SRVCONVERT	738
	SSL	1030
	STANDBY	629
	STANTRACE	176
	START	635
	STARTED	609
	STARTING	772

CVDA	Value
STARTUP	180
STATIC	179
STATS	1158
STOPPED	610
STORAGE	1159
STREAMNAME	1160
STSN	509
STSNSET	488
STSNTEST	489
SUBORDINATE	773
SUBPOOL	1161
SUBSPACE	663
SUPPORTED	1106
SURROGATE	371
SUSPENDED	231
SWITCH	188
SWITCHALL	287
SWITCHING	225
SWITCHNEXT	286
SYNCFREE	91
SYNCPOINT	602
SYNCRECEIVE	92
SYNCSEND	93
SYSCONNECT	653
SYSDUMP	184
SYSDUMPCODE	1162
SYSLOG	785
SYSPLEX	662
SYSTEM	643
SYSTEMOFF	320
SYSTEMON	319
TABLEMGR	1163
TAKEOVER	111
TAPE1	250
TAPE2	251
TASK	233
TASKSUBPOOL	1164
TASKSTART	611
TCAM	64
TCAMSNA	65
TCEXITALL	366
TCEXITALLOFF	369
TCEXITNONE	368
TCEXITSYSTEM	367
TCLASS	239
TCPIP	1165
TCPIPSERVICE	1166
TDQ	767
TDQUEUE	1167
TEMPLATENAME	1168
TEMPORARY	483
TERM	234
TERMINAL	213
TERMINATE	1077

CVDA	Value
TEXTKYBD	436
TEXTPRINT	438
THIRDINIT	627
THREADSAFE	1051
TIME	240
TIMEOUT	511
TIMER	1004
TPOOL	932
TPS55M2	552
TPS55M3	553
TPS55M4	554
TPS55M5	555
# TRACE	760
| TRANCLASS	1169
TRANDUMP	186
| TRANDUMPCODE	1170
TRANIDONLY	452
| TRANSACTION	1171
TSQ	768
| TSQUEUE	1172
TTI	77
TWAIT	927
TX	929
TXID	928
T3278M2	533
T3278M3	534
T3278M4	535
T3278M5	536
T3279M2	537
T3279M3	538
T3279M4	539
T3279M5	540
UCTRAN	450
UKOPEN	1056
UNATTEMPTED	820
UNAVAILABLE	672
UNBLOCKED	17
UNCOMMITTED	722
UNCONNECTED	703
UNDEFINED	14
UNDETERMINED	355
UNENABLED	33
UNENABLING	34
UNEXPECTED	1015
UNEXPIRED	1018
UNKNOWN	774
UNPROTECTED	505
UNQUIESCED	709
UNREGISTERED	671
UNRESOLVED	1116
UNSOLDATA	521
UNUSABLE	1117
UOW	246
UPDATABLE	37

CVDA	Value
UPDATING	1049
URIMAP	1173
URMTERMID	1121
USER	642
USERDATAKEY	380
USEREXECKEY	382
USERID	930
USEROFF	322
USERON	321
USERTABLE	102
VALID	360
VALIDATION	440
VARIABLE	13
VERIFY	1099
VFORM	411
VRRDS	732
VSAM	3
VTAM	60
WAIT	340
WAITCOMMIT	763
WAITER	754
WAITFORGET	622
WAITING	765
WAITRMI	766
WARMSTART	267
WEBSERVICE	1174
WIN	545
XCF	665
XM	123
XNOTDONE	144
XPLINK	1068
XOK	143
ZCPTRACE	364

CVDAs and numeric values in numeric sequence

Value	CVDA
1	IGNORE
1	NOTAPPLIC
2	BDAM
2	IMMEDIATE
3	EVENTUAL
3	VSAM
4	REMOTE
5	ESDS
6	KSDS
7	RRDS
8	KEYED
9	NOTKEYED
10	BASE
11	CRITICAL
11	PATH
12	FIXED

Value	CVDA
13	VARIABLE
14	UNDEFINED
15	NOTSUPPORTED
16	BLOCKED
17	UNBLOCKED
18	OPEN
19	CLOSED
20	OPENING
21	CLOSING
22	CLOSEREQUEST
23	ENABLED
24	DISABLED
25	DISABLING
26	OLD
27	SHARE
28	NEW
29	RECOVERABLE
30	NOTRECOVABLE
31	EMPTYREQ
32	NOEMPTYREQ
33	UNENABLED
34	UNENABLING
35	READABLE
36	NOTREADABLE
37	UPDATABLE
38	NOTUPDATABLE
39	BROWSABLE
40	NOTBROWSABLE
41	ADDABLE
42	NOTADDABLE
43	DELETABLE
44	NOTDELETABLE
45	HEX
46	DEC
47	BLK
48	EXCTL
49	NOEXCTL
# 51	ENABLING
52	ALTERABLE
53	NOTALTERABLE
54	LOG
55	NOLOG
56	CTRLABLE
57	NOTCTRLABLE
60	SNA
60	VTAM
61	BSAM
63	BGAM
64	TCAM
65	TCAMSNA
66	CONSOLE
67	CREATE
68	NOCREATE
69	ACQUIRED

Value	CVDA
70	RELEASED
71	ACQUIRING
72	COLDACQ
73	INSERVICE
74	OUTSERVICE
75	ATI
76	NOATI
77	TTI
78	NOTTI
79	PAGEABLE
80	AUTOPAGEABLE
81	ALLOCATED
82	CONFFREE
83	CONFRECEIVE
84	CONFSEND
85	FREE
86	PENDFREE
87	PENDRECEIVE
88	RECEIVE
89	ROLLBACK
90	SEND
91	SYNCFREE
92	SYNCRECEIVE
93	SYNCSEND
94	FREEING
95	AVAILABLE
96	OBTAINING
100	NOTTABLE
101	CICSTABLE
102	USERTABLE
103	REMTABLE
110	PRIMARY
111	TAKEOVER
121	IRC
122	INDIRECT
123	XM
124	APPC
125	LU61
126	PENDING
127	NOTPENDING
143	XOK
144	XNOTDONE
147	JAVA
148	CPLUSPLUS
149	C
150	ASSEMBLER
151	COBOL
152	PLI
152	PL1
153	RPG
154	PROGRAM
155	MAP
155	MAPSET
156	PARTITIONSET

Value	CVDA
157	PROFILE
158	ANY
159	BELOW
160	PURGEABLE
161	NOTPURGEABLE
162	OLDCOPY
163	HOLD
164	NOHOLD
165	LPA
166	NOTLPA
167	NEWCOPY
168	PHASEIN
169	ALLCONN
170	AUTOCONN
171	NONAUTOCONN
172	GOINGOUT
173	SHARED
174	PRIVATE
175	SPRSTRACE
176	STANTRACE
177	SPECTRACE
178	DYNAMIC
179	STATIC
180	STARTUP
181	ACTIVE
182	FIRSTQUIESCE
183	FINALQUIESCE
184	SYSDUMP
185	NOSYSDUMP
186	TRANDUMP
187	NOTRANDUMP
188	SWITCH
189	MODEANY
190	MODE24
191	MODE31
192	BACKOUT
193	NOBACKOUT
194	EXTSECURITY
195	CICSECURITY
196	NOSECURITY
197	ALTERNATE
198	DEFAULT
200	OFF
201	ON
202	RESSECNO
203	RESSECINT
204	RESSECEXT
204	RESSECYES
205	CMDSECNO
207	CMDSECEXT
207	CMDSECYES
208	COMMIT
209	READBACK
210	EMPTY

Value	CVDA
211	NOTEMPTY
212	FULL
213	TERMINAL
214	NOTERMINAL
215	PHYSICAL
216	LOGICAL
221	EXTRA
222	INTRA
223	NOCTL
224	ASACTL
225	SWITCHING
226	INPUT
227	OUTPUT
228	DISPATCHABLE
229	RUNNING
231	SUSPENDED
# 232	KILL
233	TASK
234	TERM
235	DEST
236	PURGE
237	FORCEPURGE
238	FILE
239	TCLASS
240	TIME
241	MCHCTL
242	PRESETSEC
243	NOPRESETSEC
244	SIGNEDON
245	SIGNEDOFF
246	UOW
247	AUXILIARY
248	MAIN
250	TAPE1
251	TAPE2
252	DISK1
253	DISK2
254	DISK2PAUSE
255	SMF
256	OPENINPUT
257	OPENOUTPUT
258	READY
259	NOTREADY
260	CURRENT
261	CLOSELEAVE
262	AUTOARCH
263	NOAUTOARCH
264	REVERTED
265	ADVANCE
266	COLDSTART
267	WARMSTART
268	EMERGENCY
269	LOGTERM
270	FINPUT

Value	CVDA
271	FOUTPUT
272	FOPEN
273	FCLOSE
274	OK
275	NOWRITE
275	READONLY
276	REMOVE
277	RECOVERED
282	AINIT
283	BINIT
284	AUTOINIT
285	NOSWITCH
286	SWITCHNEXT
287	SWITCHALL
288	SHUTDOWN
289	NOSHUTDOWN
290	RESET
291	ADD
292	DELETE
293	REUSE
294	NOREUSE
310	INTSTART
311	INTSTOP
312	AUXSTART
313	AUXPAUSE
314	AUXSTOP
317	GTFSTART
318	GTFSTOP
319	SYSTEMON
320	SYSTEMOFF
321	USERON
322	USEROFF
323	SINGLEON
324	SINGLEOFF
330	PERF
331	NOPERF
332	EXCEPT
333	NOEXCEPT
334	EVENT
335	NOEVENT
336	RESRCE
337	NORESRCE
338	APPLNAME
339	NOAPPLNAME
340	WAIT
341	NOWAIT
342	FORCE
342	FORCEUOW
349	CLOSEFAILED
350	IMMCLOSE
351	FORCECLOSE
352	IMMCLOSING
353	FORCECLOSING
354	FWDRECOVABLE

Value	CVDA
355	UNDETERMINED
356	NORMALBKOUT
357	FAILEDBKOUT
358	FAILINGBKOUT
359	INVALID
360	VALID
361	NOTFWDRCVBLE
362	EXITTRACE
363	NOEXITTRACE
364	ZCPTRACE
365	NOZCPTRACE
366	TCEXITALL
367	TCEXITSYSTEM
368	TCEXITNONE
369	TCEXITALLOFF
370	CEDF
370	MODEL
371	NOCEDF
371	SURROGATE
372	SESSION
373	APPCSINGLE
374	APPCPARALLEL
375	COBOLII
376	NOTINIT
377	LENV
377	LE370
378	INACTIVE
379	CICSDATAKEY
380	USERDATAKEY
381	CICSEXECKEY
382	USEREXECKEY
383	DPLSUBSET
384	FULLAPI
385	FMHPARM
386	NOFMHPARM
387	OBOPERID
388	NOOBOPERID
391	APLKYBD
392	NOAPLKYBD
393	APLTEXT
394	NOAPLTEXT
395	AUDALARM
396	NOAUDALARM
397	BACKTRANS
398	NOBACKTRANS
399	COLOR
400	NOCOLOR
401	COPY
402	NOCOPY
403	DUALCASE
404	NODUALCASE
405	EXTENDEDDS
406	NOEXTENDEDDS
407	FORMFEED

Value	CVDA
408	NOFORMFEED
409	HFORM
410	NOHFORM
411	VFORM
412	NOVFORM
413	HILIGHT
414	NOHILIGHT
415	KATAKANA
416	NOKATAKANA
417	LIGHTPEN
418	NOLIGHTPEN
419	MSRCONTROL
420	NOMSRCONTROL
421	OBFORMAT
422	NOOBFORMAT
423	OUTLINE
424	NOOUTLINE
425	PARTITIONS
426	NOPARTITIONS
427	PRINTADAPT
428	NOPRINTADAPT
429	PROGSYMBOL
430	NOPROGSYMBOL
431	ALLQUERY
432	NOQUERY
433	COLDQUERY
434	SOSI
435	NOSOSI
436	TEXTKYBD
437	NOTEXTKYBD
438	TEXTPRINT
439	NOTEXTPRINT
440	VALIDATION
441	NOVALIDATION
442	RELREQ
443	NORELREQ
444	DISCREQ
445	NODISCREQ
446	ALTPRTCOPY
447	NOALTPRTCOPY
448	PRTCOPY
449	NOPRTCOPY
450	UCTRAN
451	NOUCTRAN
452	TRANIDONLY
483	TEMPORARY
484	PERMANENT
485	NEWSESSION
486	OLDSESSION
487	NOSTSN
488	STSNSET
489	STSNTEST
490	EB
491	CD

Value	CVDA
492	MORE
493	LIC
494	RU
495	NOTCDEB
496	NONE
497	DEFRESP1
498	DEFRESP2
499	DEFRESP3
500	NOALARM
501	ALARM
502	FMH
503	NOFMH
504	PROTECTED
505	UNPROTECTED
506	MDT
507	NOMDT
508	DATA
509	STSN
510	BEGINSESSION
511	TIMEOUT
512	INSTALLFAIL
513	DISCARDFAIL
514	SETFAIL
515	ACQFAIL
516	SESSIONLOST
517	SESSIONFAIL
518	CONVIDLE
519	ADDFAIL
520	DELETEFAIL
521	UNSOLDATA
522	NORMALRESP
523	EXCEPTRESP
524	ATTENTION
525	LUSTAT
526	CANCEL
527	RTR
528	DEFRESP1OR2
529	POSITIVE
530	NEGATIVE
531	NOMSGJRNL
532	INOUT
533	T3278M2
534	T3278M3
535	T3278M4
536	T3278M5
537	T3279M2
538	T3279M3
539	T3279M4
540	T3279M5
541	LUP
542	FORMATTED
543	DATASTREAM
544	LOSE
545	WIN

Value	CVDA
546	NOTINBOUND
547	INBOUND
549	RELEASING
550	INSTALLED
551	NOTINSTALLED
552	TPS55M2
553	TPS55M3
554	TPS55M4
555	TPS55M5
556	NOCONV
557	PENDSTSN
558	PENDBEGIN
559	APPLICATION
560	PENDDATA
561	PENDSTART
562	PENDRELEASE
563	RELEASE
564	PENDUNSOL
565	PENDPASS
600	CONVERSE
601	NOCONVERSE
602	SYNCPOINT
603	NOSYNCPOINT
604	GMT
605	LOCAL
606	FORMATEDF
607	NOFORMATEDF
608	NOTASKSTART
609	STARTED
610	STOPPED
611	TASKSTART
612	BUSY
613	NOTBUSY
614	SCS
615	DS3270
616	ASCII7
617	ASCII8
618	AUTOSTART
620	INDOUBT
621	INFLIGHT
622	WAITFORGET
623	CONTROLSHUT
624	CANCELLED
625	FIRSTINIT
626	SECONDINIT
627	THIRDINIT
628	INITCOMPLETE
629	STANDBY
630	AUTOACTIVE
631	AUTOINACTIVE
632	CTLGALL
633	CTLGMODIFY
634	CTLGNONE
635	START

Value	CVDA
636	POST
637	DELAY
638	ROUTE
640	CLEAR
641	NOCLEAR
642	USER
643	SYSTEM
644	SHUTENABLED
645	SHUTDISABLED
646	RFC1123
650	EXCI
651	GENERIC
652	SPECIFIC
653	SYSCONNECT
654	NOSYSCONNECT
655	FORCECANCEL
657	NOISOLATE
658	ISOLATE
659	NOTDEFINED
660	CICS
661	NONCICS
662	SYSPLEX
663	SUBSPACE
664	BASESPACE
665	XCF
666	REQUIRED
667	NOTREQUIRED
668	SOS
669	NOTSOS
670	REGISTERED
671	UNREGISTERED
672	UNAVAILABLE
673	CMDPROT
674	NOCMDPROT
675	RELATED
677	REGERROR
678	DEREGISTERED
679	DEREGERROR
680	REENTPROT
681	NOREENTPROT
682	SOSBELOW
683	SOSABOVE
684	DAE
685	NODAE
690	CONNECTED
691	NOTCONNECTED
693	SPI
694	NOSPI
700	NORECOVDATA
701	RECOVDATA
702	RESYNC
703	UNCONNECTED
706	IMMQUIESCED
707	QUIESCED

Value	CVDA
708	QUIESCING
709	UNQUIESCED
710	NOLOSTLOCKS
711	NORETAINED
712	RECOVERLOCKS
713	REMLOSTLOCKS
714	RESETLOCKS
715	RETAINED
716	RETRY
720	RLS
721	NOTRLS
722	UNCOMMITTED
723	CONSISTENT
724	REPEATABLE
730	RLSACTIVE
731	RLSINACTIVE
732	VRRDS
735	CHUNKNO
736	CHUNKYES
737	CHUNKEND
738	SRVCONVERT
739	NOSRVCONVERT
740	REMSESSION
741	CLOSE
742	NOCLOSE
743	CLICONVERT
744	NOCLICONVERT
745	NOINCONVERT
746	NOOUTCONVERT
747	EXPECT
748	GET
749	PUT
750	HEAD
751	EXECENQ
752	EXECENQADDR
753	OWNER
754	WAITER
755	CONNECTION
756	DATASET
757	HEURCOMMIT
758	HEURBACKOUT
759	OPTIONS
760	TRACE
761	RLSSERVER
762	SHUNTED
763	WAITCOMMIT
765	WAITING
766	WAITRMI
767	TDQ
768	TSQ
770	COORDINATOR
771	RMI
772	STARTING
773	SUBORDINATE

Value	CVDA
774	NRS
774	UNKNOWN
775	NORMI
780	MVS
781	DUMMY
782	FAILED
783	FLUSH
784	NOSYSLOG
785	SYSLOG
786	KEEP
788	COLD
789	INITIAL
790	ENDAFFINITY
791	CACHE
792	COMMITFAIL
793	DATASETFULL
794	DEADLOCK
795	DELEXITERROR
796	INDEXRECFULL
797	IOERROR
798	OPENERROR
799	RLSGONE
800	BACKUPNONBWO
810	SKIP
811	LEAVE
811	REWIND
812	REREAD
813	MOD
814	QUEUE
815	REJECT
816	IGNORERR
820	UNATTEMPTED
830	RRCOMMITFAIL
831	RRINDOUBT
832	LCKSTRUCFULL
833	CFTABLE
834	LOAD
835	NOLOAD
836	CONTENTION
837	LOCKING
900	ABEND
902	CGROUP
903	CONNECT
904	CONNECTING
905	CSIGN
906	CTERM
907	CTX
908	COPID
909	CUSERID
910	DISCONNING
911	EQUAL
912	EXIT
913	GROUP
914	HIGH

Value	CVDA
915	LOW
916	NOCONNECT
917	NOEXIT
918	NORELEASE
919	NOROLLBACK
920	NOTWAIT
921	N906D
922	POOL
923	REBUILD
924	RECONNECT
925	SIGN
926	SQLCODE
927	TWAIT
928	TXID
929	TX
930	USERID
931	N906
932	TPOOL
933	OPID
934	NORESYNC
1000	NOTFIRED
1001	FIRED
1002	ACTIVITY
1003	COMPOSITE
1004	TIMER
1005	AND
1006	OR
1010	PROCESS
1011	NOUSER
1012	EVENTFAIL
1013	FORCED
1014	INCOMPLETE
1015	UNEXPECTED
1016	NORMAL
1017	EXPIRED
1018	UNEXPIRED
1019	CHAR
1020	BIT
1021	NOTDYNAMIC
1022	NOTROUTABLE
1023	ROUTABLE
1024	DORMANT
1025	CANCELLING
1026	COMPLETE
1027	NOTSUSPENDED
1029	HTTPS
1030	SSL
1031	NOSSL
1032	CLIENTAUTH
1033	HTTPYES
1034	HTTPNO
1035	PDSMEMBER
1036	APPEND
1037	NOAPPEND

Value	CVDA
1038	BINARY
1039	EBCDIC
1040	HFSFILE
1044	SOAP
1045	SENDER
1046	RECEIVER
1047	CHANNEL
1048	COMMAREA
1049	UPDATING
1050	QUASIRENT
1051	THREADSAFE
1052	BASEAPI
1052	CICSAPI
1053	OPENAPI
1054	NOFORCE
1055	CKOPEN
1056	UKOPEN
1057	QR
1058	INTERNAL
1063	RRMS
1068	XPLINK
1071	NOAUTO
1072	PROGAUTO
1073	FULLAUTO
1075	CLASSCACHE
1076	NOCLASSCACHE
1077	TERMINATE
1078	RELOAD
1079	RELOADING
1080	JVM
1081	NOJVM
1082	DEBUG
1083	NODEBUG
1084	NONLE370
1085	PUBLISH
1086	RETRACT
1087	CLIENTCERT
1088	SCAN
1090	NONCRITICAL
1091	NOAUTHENTIC
1092	BASICAUTH
1093	CERTIFICAUTH
1094	AUTOREGISTER
1095	AUTOAUTH
1096	HTTP
1097	IIOP
1098	ECI
1099	VERIFY
1100	BOTH
1101	CORBA
1102	EJB
1103	HOME
1104	ASSERTED
1105	IGNORED

Value	CVDA
1106	SUPPORTED
1107	OTS
1108	OTSCOORD
1109	RESPECTED
1110	NOPHASEOUT
1111	PHASEOUT
1112	INITING
1113	PENDINIT
1114	PENDRESOLVE
1115	RESOLVING
1116	UNRESOLVED
1117	UNUSABLE
1118	DISCARDING
1120	AUTOTERMID
1121	URMTERMID
1122	CLIENT
1123	SERVER
1124	PIPELINE
1125	DISABLEDHOST
1126	ANALYZER
1127	NOANALYZER
1140	AUTOINSTALL
1141	CORBASERVER
1142	DB2CONN
1143	DB2ENTRY
1144	DISPATCHER
1145	DOCTEMPLATE
1146	ENQUEUE
1147	JOURNALNAME
1148	JOURNALNUM
1149	JVMPOOL
1150	JVMPROFILE
1151	JVMPROGRAM
1152	LSRPOOL
1153	MONITOR
1154	MVSTCB
1155	NODE
1156	RECOVERY
1157	REQUESTMODEL
1158	STATS
1159	STORAGE
1160	STREAMNAME
1161	SUBPOOL
1162	SYSDUMPCODE
1163	TABLEMGR
1164	TASKSUBPOOL
1165	TCPIP
1166	TCPIPSERVICE
1167	TDQUEUE
1168	TEMPLATENAME
1169	TRANCLASS
1170	TRANDUMPCODE
1171	TRANSACTION
1172	TSQUEUE

Value	CVDA
1173	URIMAP
1174	WEBSERVICE

CVDA values for the DEVICE option

CVDA sequence	
BATCHLU	191
BIPROG	160
BISYNCH	128
CDRDLPRT	24
CONTNLU	189
HARDCOPY	32
INTACTLU	190
ISCMMCONV	209
LUCMODGRP	210
LUCSESS	211
LUTYPE4	193
LUTYPE6	192
MAGTAPE	20
RESSYS	208
SDLC	176
SEQDISK	18
SYSTEM3	161
SYSTEM7	2
SYS370	164
SYS7BSCA	166
TCONSOLE	8
TELETYPE	34
TTCAM	80
TWX3335	33
T1050	36
T1053	74
T2260L	65
T2260R	72
T2265	76
T2740	40
T2741BCD	43
T2741COR	42
T2770	130
T2780	132
T2980	134
T3275R	146
T3277L	153
T3277R	145
T3284L	155
T3284R	147
T3286L	156
T3286R	148
T3600BI	138
T3601	177
T3614	178
T3650ATT	186
T3650PIPE	184

CVDA sequence

T3650USER	187
T3653HOST	185
T3735	136
T3740	137
T3780	133
T3790	180
T3790SCSP	182
T3790UP	181
T7770	1
VIDEOTERM	64

Numeric sequence

1	T7770
2	SYSTEM7
8	TCONSOLE
18	SEQDISK
20	MAGTAPE
24	CDRDLPRT
32	HARDCOPY
33	TWX3335
34	TELETYPE
36	T1050
40	T2740
42	T2741COR
43	T2741BCD
64	VIDEOTERM
65	T2260L
72	T2260R
74	T1053
76	T2265
80	TTCAM
128	BISYNCH
130	T2770
132	T2780
133	T3780
134	T2980
136	T3735
137	T3740
138	T3600BI
145	T3277R
146	T3275R
147	T3284R
148	T3286R
153	T3277L
155	T3284L
156	T3286L
160	BIPROG
161	SYSTEM3
164	SYS370
166	SYS7BSCA
176	SDLC
177	T3601
178	T3614
180	T3790

Numeric sequence

181 T3790UP
182 T3790SCSP
184 T3650PIPE
185 T3653HOST
186 T3650ATT
187 T3650USER
189 CONTNLU
190 INTACTLU
191 BATCHLU
192 LUTYPE6
193 LUTYPE4
208 RESSYS
209 ISCMMCONV
210 LUCMODGRP
211 LUCSESS

Appendix B. EXEC interface block (EIB) response and function codes

This appendix lists the response codes and the function codes of EXEC CICS commands.

Response codes of EXEC CICS commands

After the execution of an EXEC CICS command, fields EIBRESP and EIBRCODE are set to indicate whether the command executed successfully, or whether a CICS condition was raised.

Each possible value of EIBRESP relates directly to a specific condition, no matter which command caused the condition to be raised. This is not true for EIBRCODE values: both the value and the byte of EIBRCODE in which it is set depend on which command was issued.

The following sections list the conditions that are applicable to the EXEC CICS commands described in this book, their corresponding RESP values (decimal), the associated EIBRCODE values (hexadecimal), and the transaction abend codes (if any).

EXEC CICS DISCARD, INQUIRE, PERFORM, and SET commands

The first word of EIBRCODE for these commands is always set equal to the hexadecimal equivalent of the RESP value; the remaining bytes are set to X00.

Condition (Byte 3)	RESP Value code	EIBRCODE code	Abend
DSNNOTFOUND	93	5D	AEX1
DUPREC	14	0E	AEIN
END	83	53	AEXK
FILENOTFOUND	12	0C	AEIL
ILLOGIC	21	15	AEIU
INVREQ	16	10	AEIP
IOERR	17	11	AEIQ
JIDERR	43	2B	AEYG
LENGERR	22	16	AEIV
MODELIDERR	95	5F	AEX3
NOSPACE	18	12	AEIR
NOSTG	42	2A	—
NOTAUTH	70	46	AEY7
NOTFND	13	0D	AEIM
PARTNERIDERR	97	61	AEX5
PGMIDERR	27	1B	AEI0
PROFILEIDERR	98	62	AEX6
QIDERR	44	2C	AEYH
SYSBUSY	59	3B	—
SYSIDERR	53	35	AEYQ
TASKIDERR	91	5B	AEXX
TCIDERR	92	5C	AEX0
TERMIDERR	11	0B	AEIK
TRANSIDERR	28	1C	AEI1
UOWNOTFOUND	102	66	-
USERIDERR	69	45	AEYX

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Condition (Byte 3)	RESP Value code code	EIBRCODE	Abend
VOLIDERR	71	47	AEXV

EXEC CICS DISABLE, ENABLE, and EXTRACT EXIT commands

Conditions that can be raised by the DISABLE, ENABLE, and EXTRACT EXIT commands are INVEXITREQ and NOTAUTH. There are no conditions associated with the RESYNC command.

Condition	RESP Value	EIBRCODE	Abend
INVEXITREQ	63	80	AEY0
NOTAUTH	70	46	AEY7

Function codes of EXEC CICS commands

The function code (field EIBFN) is a hexadecimal value that identifies the command most recently issued by a task. The format of the EIBFN field is as follows:

```
ASM     CL2
COBOL   PIC X(2)
PL/I    CHAR (2)
C       CHAR variable name(2);
```

The function codes of the commands described in this book are listed below in command sequence, then in function code sequence. For information about other function codes, see the *CICS Application Programming Reference* manual.

Command	Code
ACQUIRE TERMINAL	86 02
COLLECT STATISTICS	70 08
CREATE CONNECTION	30 0E
CREATE CORBASERVER	30 32
CREATE DB2CONN	30 20
CREATE DB2ENTRY	30 22
CREATE DB2TRAN	30 24
CREATE DJAR	30 34
CREATE DOCTEMPLATE	30 2E
CREATE ENQMODEL	30 2A
CREATE FILE	30 14
CREATE JOURNALMODEL	30 1E
CREATE LSRPOOL	30 16
CREATE MAPSET	30 04
CREATE PARTITIONSET	30 06
CREATE PARTNER	30 18
# CREATE PIPELINE	30 38
CREATE PROCESSTYPE	30 26
CREATE PROFILE	30 0A
CREATE PROGRAM	30 02
CREATE REQUESTMODEL	30 2C
CREATE SESSIONS	30 12
CREATE TCPIPSERVICE	30 30
CREATE TDQUEUE	30 1C
CREATE TERMINAL	30 10
CREATE TRANCLASS	30 1A
CREATE TRANSACTION	30 08

	Command	Code
	CREATE TSMODEL	30 28
	CREATE TYPETERM	30 0C
#	CREATE URIMAP	30 36
#	CREATE WEBSERVICE	30 3A
	DISABLE PROGRAM	22 04
	DISCARD AUTINSTMODEL	42 10
	DISCARD CONNECTION	58 10
	DISCARD CORBASERVER	B2 10
	DISCARD DB2CONN	94 10
	DISCARD DB2ENTRY	94 30
	DISCARD DB2TRAN	94 50
	DISCARD DJAR	B2 30
	DISCARD DOCTEMPLATE	9E 10
	DISCARD ENQMODEL	90 90
	DISCARD FILE	4C 10
	DISCARD JOURNALMODEL	92 10
	DISCARD JOURNALNAME	60 10
	DISCARD PARTNER	44 10
#	DISCARD PIPELINE	BC 10
	DISCARD PROCESSTYPE	96 10
	DISCARD PROFILE	46 10
	DISCARD PROGRAM	4E 10
	DISCARD REQUESTMODEL	9A 10
	DISCARD TCPIPSERVICE	9C 10
	DISCARD TDQUEUE	5C 10
	DISCARD TERMINAL	52 10
	DISCARD TRANCLASS	5E 18
	DISCARD TRANSACTION	50 10
	DISCARD TSMODEL	80 30
#	DISCARD URIMAP	BE 10
#	DISCARD WEBSERVICE	BC 30
	ENABLE PROGRAM	22 02
	EXTRACT EXIT	22 06
I	EXTRACT STATISTICS	70 26
	INQUIRE AUTINSTMODEL	42 02
	INQUIRE AUTOINSTALL	68 12
	INQUIRE BEAN	B2 42
	INQUIRE BRFACILITY	B4 02
	INQUIRE CFDTPOOL	98 02
	INQUIRE CLASSCACHE	B0 22
	INQUIRE CONNECTION	58 02
	INQUIRE CORBASERVER	B2 02
	INQUIRE DB2CONN	94 02
	INQUIRE DB2ENTRY	94 22
	INQUIRE DB2TRAN	94 42
	INQUIRE DELETSHIPPED	68 22
	INQUIRE DISPATCHER	B6 02
	INQUIRE DJAR	B2 22
	INQUIRE DOCTEMPLATE	9E 02
	INQUIRE DSNAME	7A 02
	INQUIRE DUMPDS	66 02
	INQUIRE ENQ	90 22
	INQUIRE ENQMODEL	90 82
	INQUIRE EXCI	7C 02

	Command	Code
	INQUIRE EXITPROGRAM	88 02
	INQUIRE FILE	4C 02
#	INQUIRE HOST	BE 12
	INQUIRE IRC	6E 02
	INQUIRE JOURNALMODEL	92 02
	INQUIRE JOURNALNAME	60 12
	INQUIRE JOURNALNUM	60 02
	INQUIRE JVM	B0 32
	INQUIRE JVMPOOL	B0 02
	INQUIRE JVMPROFILE	B0 12
	INQUIRE MODENAME	5A 02
	INQUIRE MONITOR	70 12
	INQUIRE MVSTCB	B6 12
	INQUIRE NETNAME	52 16
	INQUIRE NETNAME	52 06
	INQUIRE PARTNER	44 02
#	INQUIRE PIPELINE	BC 02
	INQUIRE PROCESSTYPE	96 02
	INQUIRE PROFILE	46 02
	INQUIRE PROGRAM	4E 02
	INQUIRE REQID	8A 02
	INQUIRE REQUESTMODEL	9A 02
	INQUIRE RRMS	3A 02
	INQUIRE STATISTICS	70 02
	INQUIRE STORAGE	5E 08
	INQUIRE STREAMNAME	92 12
	INQUIRE SUBPOOL	5E 42
	INQUIRE SYSDUMPCODE	66 22
	INQUIRE SYSTEM	54 02
	INQUIRE TASK	5E 02
	INQUIRE TCLASS	5E 12
	INQUIRE TCPIP	9C 12
	INQUIRE TCPIPSERVICE	9C 02
	INQUIRE TDQUEUE	5C 02
	INQUIRE TERMINAL	52 02
	INQUIRE TERMINAL	52 12
	INQUIRE TRACEDEST	78 02
	INQUIRE TRACEFLAG	78 12
	INQUIRE TRACETYPE	78 22
	INQUIRE TRANCLASS	5E 1A
	INQUIRE TRANDUMPCODE	66 12
	INQUIRE TRANSACTION	50 02
	INQUIRE TSMODEL	80 22
	INQUIRE TSPOOL	80 1A
	INQUIRE TSQNAME	80 12
	INQUIRE TSQUEUE	80 02
	INQUIRE UOW	90 02
	INQUIRE UOWDSNFAIL	90 62
	INQUIRE UOWENQ	90 22
	INQUIRE UOWLINK	90 42
#	INQUIRE URIMAP	BE 02
	INQUIRE VOLUME	62 02
	INQUIRE VTAM	68 02
	INQUIRE WEB	9C 22

	Command	Code
#	INQUIRE WEBSERVICE	BC 22
	INQUIRE WORKREQUEST	B8 02
	PERFORM CLASSCACHE	B0 26
	PERFORM CORBASERVER	B2 06
	PERFORM DELETSHIPPED	68 26
	PERFORM DJAR	B2 24
	PERFORM DUMP	7E 04
	PERFORM ENDAFFINITY	58 06
#	PERFORM PIPELINE	BC 06
	PERFORM RESETTIME	72 02
	PERFORM SECURITY	64 02
	PERFORM SHUTDOWN	76 02
	PERFORM STATISTICS	70 06
	RESYNC ENTRYNAME	16 04
	SET AUTOINSTALL	68 14
	SET BRFACILITY	B4 04
	SET CLASSCACHE	B0 24
	SET CONNECTION	58 04
	SET CORBASERVER	B2 04
	SET DB2CONN	94 04
	SET DB2ENTRY	94 24
	SET DB2TRAN	94 44
	SET DELETSHIPPED	68 24
	SET DISPATCHER	B6 04
	SET DSNAME	7A 04
	SET DUMPDS	66 04
	SET ENQMODEL	90 84
	SET FILE	4C 04
#	SET HOST	BE 14
	SET IRC	6E 04
	SET JOURNALNAME	60 14
	SET JOURNALNUM	60 04
	SET JVMPOOL	B0 04
	SET MODENAME	5A 04
	SET MONITOR	70 14
	SET NETNAME	52 08
#	SET PIPELINE	BC 04
	SET PROCESSTYPE	96 04
	SET PROGRAM	4E 04
	SET STATISTICS	70 04
	SET SYSDUMPCODE	66 24
	SET SYSTEM	54 04
	SET TASK	5E 04
	SET TCLASS	5E 14
	SET TCPIP	9C 14
	SET TCPIPSERVICE	9C 04
	SET TDQUEUE	5C 04
	SET TERMINAL	52 04
	SET TERMINAL	52 14
	SET TRACEDEST	78 04
	SET TRACEFLAG	78 14
	SET TRACETYPE	78 24
	SET TRANCLASS	5E 1C
	SET TRANDUMPCODE	66 14

	Command	Code
	SET TRANSACTION	50 04
	SET TSQNAME	80 14
	SET TSQUEUE	80 04
	SET UOW	90 04
	SET UOWLINK	90 44
#	SET URIMAP	BE 04
	SET VOLUME	62 04
	SET VTAM	68 04
	SET WEB	9C 24
#	SET WEBSERVICE	BC 24
	SET WORKREQUEST	B8 04

	Code	Command
	16 04	RESYNC ENTRYNAME
	22 02	ENABLE PROGRAM
	22 04	DISABLE PROGRAM
	22 06	EXTRACT EXIT
	30 0A	CREATE PROFILE
	30 0C	CREATE TYPETERM
	30 0E	CREATE CONNECTION
	30 02	CREATE PROGRAM
	30 04	CREATE MAPSET
	30 06	CREATE PARTITIONSET
	30 08	CREATE TRANSACTION
	30 1A	CREATE TRANCLASS
	30 1C	CREATE TDQUEUE
	30 1E	CREATE JOURNALMODEL
	30 10	CREATE TERMINAL
	30 12	CREATE SESSIONS
	30 14	CREATE FILE
	30 16	CREATE LSRPOOL
	30 18	CREATE PARTNER
	30 20	CREATE DB2CONN
	30 22	CREATE DB2ENTRY
	30 24	CREATE DB2TRAN
	30 26	CREATE PROCESSTYPE
	30 28	CREATE TSMODEL
	30 2A	CREATE ENQMODEL
	30 2C	CREATE REQUESTMODEL
	30 2E	CREATE DOCTEMPLATE
	30 30	CREATE TCPIPSERVICE
	30 32	CREATE CORBASERVER
	30 34	CREATE DJAR
#	30 36	CREATE URIMAP
#	30 38	CREATE PIPELINE
#	30 3A	CREATE WEBSERVICE
	3A 02	INQUIRE RRMS
	42 02	INQUIRE AUTINSTMODEL
	42 10	DISCARD AUTINSTMODEL
	44 02	INQUIRE PARTNER
	44 10	DISCARD PARTNER
	46 02	INQUIRE PROFILE

Code	Command
46 10	DISCARD PROFILE
4C 02	INQUIRE FILE
4C 04	SET FILE
4C 10	DISCARD FILE
4E 02	INQUIRE PROGRAM
4E 04	SET PROGRAM
4E 10	DISCARD PROGRAM
50 02	INQUIRE TRANSACTION
50 04	SET TRANSACTION
50 10	DISCARD TRANSACTION
52 02	INQUIRE TERMINAL
52 04	SET TERMINAL
52 06	INQUIRE NETNAME
52 08	SET NETNAME
52 10	DISCARD TERMINAL
52 12	INQUIRE TERMINAL
52 14	SET TERMINAL
52 16	INQUIRE NETNAME
54 02	INQUIRE SYSTEM
54 04	SET SYSTEM
58 02	INQUIRE CONNECTION
58 04	SET CONNECTION
58 06	PERFORM ENDAFFINITY
58 10	DISCARD CONNECTION
5A 02	INQUIRE MODENAME
5A 04	SET MODENAME
5C 02	INQUIRE TDQUEUE
5C 04	SET TDQUEUE
5C 10	DISCARD TDQUEUE
5E 02	INQUIRE TASK
5E 04	SET TASK
5E 08	INQUIRE STORAGE
5E 1A	INQUIRE TRANCLASS
5E 1C	SET TRANCLASS
5E 12	INQUIRE TCLASS
5E 14	SET TCLASS
5E 18	DISCARD TRANCLASS
5E 42	INQUIRE SUBPOOOL
60 02	INQUIRE JOURNALNUM
60 04	SET JOURNALNUM
60 10	DISCARD JOURNALNAME
60 12	INQUIRE JOURNALNAME
60 14	SET JOURNALNAME
62 02	INQUIRE VOLUME
62 04	SET VOLUME
64 02	PERFORM SECURITY
66 02	INQUIRE DUMPDS
66 04	SET DUMPDS
66 12	INQUIRE TRANDUMPCODE
66 14	SET TRANDUMPCODE
66 22	INQUIRE SYSDUMPCODE
66 24	SET SYSDUMPCODE
68 02	INQUIRE VTAM
68 04	SET VTAM

Code	Command
68 12	INQUIRE AUTOINSTALL
68 14	SET AUTOINSTALL
68 22	INQUIRE DELETSHIPPED
68 24	SET DELETSHIPPED
68 26	PERFORM DELETSHIPPED
6E 02	INQUIRE IRC
6E 04	SET IRC
70 02	INQUIRE STATISTICS
70 04	SET STATISTICS
70 06	PERFORM STATISTICS
70 08	COLLECT STATISTICS
70 12	INQUIRE MONITOR
70 14	SET MONITOR
70 26	EXTRACT STATISTICS
72 02	PERFORM RESETTIME
76 02	PERFORM SHUTDOWN
78 02	INQUIRE TRACEDEST
78 04	SET TRACEDEST
78 12	INQUIRE TRACEFLAG
78 14	SET TRACEFLAG
78 22	INQUIRE TRACETYPE
78 24	SET TRACETYPE
7A 02	INQUIRE DSNAME
7A 04	SET DSNAME
7C 02	INQUIRE EXCI
7E 04	PERFORM DUMP
80 02	INQUIRE TSQUEUE
80 04	SET TSQUEUE
80 12	INQUIRE TSQNAME
80 14	SET TSQNAME
80 1A	INQUIRE TSPOOL
80 22	INQUIRE TSMODEL
80 30	DISCARD TSMODEL
86 02	ACQUIRE TERMINAL
88 02	INQUIRE EXITPROGRAM
8A 02	INQUIRE REQID
90 02	INQUIRE UOW
90 04	SET UOW
90 22	INQUIRE ENQ
90 22	INQUIRE UOWENQ
90 42	INQUIRE UOWLINK
90 44	SET UOWLINK
90 62	INQUIRE UOWDSNFAIL
90 82	INQUIRE ENQMODEL
90 84	SET ENQMODEL
90 90	DISCARD ENQMODEL
92 02	INQUIRE JOURNALMODEL
92 10	DISCARD JOURNALMODEL
92 12	INQUIRE STREAMNAME
94 02	INQUIRE DB2CONN
94 04	SET DB2CONN
94 10	DISCARD DB2CONN
94 22	INQUIRE DB2ENTRY
94 24	SET DB2ENTRY

Code	Command
94 30	DISCARD DB2ENTRY
94 42	INQUIRE DB2TRAN
94 44	SET DB2TRAN
94 50	DISCARD DB2TRAN
96 02	INQUIRE PROCESSTYPE
96 04	SET PROCESSTYPE
96 10	DISCARD PROCESSTYPE
98 02	INQUIRE CFDTPOOL
9A 02	INQUIRE REQUESTMODEL
9A 10	DISCARD REQUESTMODEL
9C 02	INQUIRE TCPIPSERVICE
9C 04	SET TCPIPSERVICE
9C 10	DISCARD TCPIPSERVICE
9C 12	INQUIRE TCPIP
9C 14	SET TCPIP
9C 22	INQUIRE WEB
9C 24	SET WEB
9E 02	INQUIRE DOCTEMPLATE
9E 10	DISCARD DOCTEMPLATE
B0 02	INQUIRE JVMPOOL
B0 04	SET JVMPOOL
B0 12	INQUIRE JVMPROFILE
B0 22	INQUIRE CLASSCACHE
B0 24	SET CLASSCACHE
B0 26	PERFORM CLASSCACHE
B0 32	INQUIRE JVM
B2 02	INQUIRE CORBASERVER
B2 04	SET CORBASERVER
B2 06	PERFORM CORBASERVER
B2 10	DISCARD CORBASERVER
B2 22	INQUIRE DJAR
B2 24	PERFORM DJAR
B2 30	DISCARD DJAR
B2 42	INQUIRE BEAN
B4 02	INQUIRE BRFACILITY
B4 04	SET BRFACILITY
B6 02	INQUIRE DISPATCHER
B6 04	SET DISPATCHER
B6 12	INQUIRE MVSTCB
B8 02	INQUIRE WORKREQUEST
B8 04	SET WORKREQUEST
# BC 02	INQUIRE PIPELINE
# BC 04	SET PIPELINE
# BC 06	PERFORM PIPELINE
# BC 10	DISCARD PIPELINE
# BC 22	INQUIRE WEBSERVICE
# BC 24	SET WEBSERVICE
# BC 30	DISCARD WEBSERVICE
# BE 02	INQUIRE URIMAP
# BE 04	SET URIMAP
# BE 10	DISCARD URIMAP
# BE 12	INQUIRE HOST
# BE 14	SET HOST

Appendix C. EXEC CICS CREATE RESP2 values

Most of the RESP2 values issued by the EXEC CICS CREATE command are associated with a message that is written to transient data queue CSMT. The RESP2 values and the corresponding message numbers are shown in Table 7 below. For this command, the fullword EIBRESP2 field is regarded as a structure containing two halfwords. The low-order halfword always contains an error number. The high-order halfword sometimes contains another number to help you to identify the error. Sometimes this number is the offset *n* in the ATTRIBUTES string at which the error was detected. Sometimes it is the keyword number *k* for which the error was detected. For a list of the keyword numbers, see Table 8 on page 688, Table 9 on page 689, Table 10 on page 690, Table 11 on page 692, Table 12 on page 693, and Table 13 on page 694.

Table 7. RESP2 values corresponding to messages

RESP2	Msgid	Description or message
		Codes caused by syntactical errors
n,400	DFHCA5211	A misplaced delimiter occurs in ATTRIBUTES. The invalid delimiter is at offset *n* in the ATTRIBUTES string.
n,401	DFHCA5204	A keyword specified within ATTRIBUTES is invalid. The invalid keyword is at offset *n* in the ATTRIBUTES string.
n,402	DFHCA5212, DFHCA5213	A keyword within ATTRIBUTES cannot be uniquely identified from its abbreviation. The invalid keyword is at offset *n* in the ATTRIBUTES string.
k,403	DFHCA5501	A required keyword is omitted. The omitted keyword has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13.
404	DFHCA5529	A required keyword is omitted. The omitted keyword must be selected from two mutually exclusive keywords, as specified in the associated message.
k,405	DFHCA5504	One specified keyword requires another one to be specified. The omitted keyword has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,406	DFHCA5206	A keyword occurs more than once within ATTRIBUTES. The duplicate keyword has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13.
k,407	DFHCA5503 DFHCA5506	Conflicting keywords are specified. The keyword causing the conflict has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,410	DFHCA5210 DFHCA5519 DFHCA5521 DFHCA5522 DFHCA5526 DFHCA5528 DFHCA5532 DFHCA5547	An invalid operand is supplied for a keyword within ATTRIBUTES. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,410	DFHCA5542	Length of Remoteprefix and length of Prefix must be the same The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,410	DFHCA5543	Generics must be in the same place in the Prefix and in the Remoteprefix. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,411	DFHCA5207	An operand is supplied for a keyword that does not need one. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13

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Table 7. RESP2 values corresponding to messages (continued)

RESP2	Msgid	Description or message
k,412	DFHCA5205	A required operand for a keyword within ATTRIBUTES is omitted. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,412	DFHCA5544	The value must be specified as generic because a previous value is generic. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13.
k,413	DFHCA5517	The operands of two or more keywords conflict with one another. The first conflicting keyword detected has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,414	DFHCA5507	The value of the operand of a keyword within ATTRIBUTES is too small. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,415	DFHCA5513	In the pair of values specified as the operand of a keyword within ATTRIBUTES, the second value must not exceed the first. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
k,416	DFHCA5509	An invalid operand is supplied for a keyword within ATTRIBUTES. The value of the operand must be different from the name of the resource. The keyword in error has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
417	DFHCA5523 DFHCA5535	The specified resource cannot be created with this command. The resource name is reserved for CICS use.
418	DFHCA5527	CICS internal programs (whose names begin with DFH) cannot be given attributes that specify remote execution.
k,419	DFHCA5217	A closing parenthesis has been omitted from a DESCRIPTION keyword within ATTRIBUTES. The keyword in error (DESCRIPTION) has code *k* in Table 8, Table 9, Table 10, Table 11, Table 12, orTable 13
420	DFHCA5508	PROTECTNUM must be less than or equal to THREADLIMIT, or COMTHREADLIM must be less than or equal to TCBLIMIT, or THREADLIMIT must be less than or equal to TCBLIMIT.
421	DFHCA5544	Value must be specified as generic because a previous value is generic.
422	DFHCA5546	Incorrect TYPE specified for REQUESTMODEL.
423	DFHCA5548	The option is invalid for a back level request model.
424	DFHCA5549	The values specified for the two attributes must not be the same.
425	DFHCA5551	*keyword1* cannot be specified as generic unless *keyword2* is also generic. See the associated message to determine which keywords are in error.
427	DFHCA5553	The specified attribute field cannot contain a character as shown.
		Codes caused by errors deleting existing resources
500	DFHAM4803 DFHAM4834 DFHAM4836 DFHAM4842 DFHAM4896 DFHZC5913	Install failed because the resource is currently in use.
500	DFHAM4834 DFHAM4838	Install failed because not disabled.
500	DFHAM4853	Another DB2TRAN is installed with the same transid, or failed to install implicit DB2TRAN because there is an existing DB2TRAN installed with the same transid.
500	DFHAM4874	install failed because the attribute already exists.
500	DFHAM4894	install failed because the resource is not disabled.

Table 7. RESP2 values corresponding to messages (continued)

RESP2	Msgid	Description or message
500	DFHAM4903	install failed because the service is open.
501	DFHAM4841	Install failed because definition of *restype resname* is in use by task no. *taskno* (transaction id. *tranid*).
501	DFHZC5980	Resource *resource* is in use by task *taskid* Transaction *tranid*.
502	DFHZC6304	Deletion of remote terminal *termid* failed because it is in use by another transaction.
503	DFHZC5915	Deletion of *restype id* failed. It needs to be set out of service.
504	DFHAM4899 DFHZC5998	Install specified a resource that cannot be replaced.
505	DFHZC5916	Deletion of terminal *termid* failed. It has pending DFHZCP activity.
505	DFHZC5918	Deletion of terminal *termid* Console *consname* failed. It has pending DFHZCP activity.
506	DFHZC5914	Deletion of terminal *termid* found another deletion of it in progress.
506	DFHZC5937	Deletion of modename *modename* found another deletion of it in progress.
507	DFHZC5902	Deletion of terminal *termid* failed. BMS Paging session still active.
508	DFHZC5917	Deletion of terminal *termid* failed. Error message writer still active.
509	DFHZC5904	Deletion of terminal *termid* failed. CEDF is still active.
510	DFHZC5941	Install for terminal *termid* failed. Console *consname* has a conversation outstanding.
511	DFHZC5907	Deletion of remote shipped terminal failed for connection *cccc*.
512	DFHZC5925	Deletion of connection *cccc* failed. Its AID-Chains are not empty.
513	DFHZC5929	Deletion of connection *cccc* failed. It is in use by *n* indirect connections.
514	DFHZC5938	Deletion of modename *modename* failed. Unable to delete sessions.
515	DFHZC5951	Deletion of connection *ssss* failed. Unable to delete sessions.
516	DFHZC5945	Deletion of sessions *ssss* failed. Connection *cccc* is defined to IRC.
517	DFHZC5952	Deletion of terminal *termid* failed. It needs to be SET RELEASED.
518	DFHZC5969	Deletion of dependent modenames failed for connection *modename*.
519	DFHZC5974	Deletion of pool *pppp* failed. Unable to delete pool entries.
520	DFHZC5979	Deletion of pool *pppp* failed. It still has session *termid*.
520	DFHZC5982	Deletion of pool *pppp* failed. Pool entry is in use for *termid*.
521	DFHZC5958	Install failed for *xxxx*. This is the name of the local system, which must not be replaced.
522	DFHZC5940	Install for terminal *termid* failed. Error console cannot be deleted.
523	DFHZC5989	Deletion of resource *resource* failed. Remote deletion in connection *cccc* failed.
524	DFHZC5943	MRO connection *conname* cannot be deleted because IRC is open.
		Codes caused by errors in installing the new resource
600	DFHTO6000	The definition for TERMINAL *termdef* refers to an undefined TYPETERM *termtype*.
600	DFHTO6001	The definition for pooled TERMINAL *termdef* refers to an undefined TYPETERM *termtype*.

Table 7. RESP2 values corresponding to messages (continued)

RESP2	Msgid	Description or message
601	DFHAM4910	The install failed because the member was not found in the partitioned data set.
601	DFHTO6002	The definition for SESSIONs *sesdef* refers to an undefined CONNECTION *condef*.
601	DFHZC5911	Install for resource *resource* failed. Connection *cccc* not found.
601	DFHZC5932	Install for modename *modename* failed. Connection *cccc* not found.
602	DFHZC5962	Install for resource *resource* failed. Modename parameter not found.
603	DFHZC5906	Install failed because *xxxx* is not a permitted value for a terminal or connection name.
604	DFHZC5933	Install for modename *modename* failed. Connection *cccc* is not valid here.
605	DFHAM4889	Install of resource failed because an *attribute* is invalid.
606	DFHAM4890	Install of TDQUEUE *tdqname* failed because the TYPE has not been specified.
607	DFHAM4870	Install failed for program *progname* - language RPG is not supported under MVS.
608	DFHAM4832	Unable to open TDQUEUE *tdqname* because the DFHINTRA data set is not open.
608	DFHAM4909	The install failed because the DDNAME was not found.
609	DFHAM4908	The installation failed because the templatename already exists.
610	DFHAM4905	The installation failed because the option is not available in this system.
611	DFHAM4901	The installation of a REQUESTMODEL definition failed because a duplicate pattern already exists.
612	DFHAM4920	The installation of a resource failed because it already exists.
613	DFHAM4921	The installation of a CORBASERVER or DJAR definition failed because an invalid JNDIPrefix, Shelf or Certificate value has been specified.
614	DFHAM4923	The installation of a DJAR definition failed because the specified CorbaServer does not exist.
615	DFHAM4926	The installation of a CORBASERVER or DJAR definition failed because the resource resolution transaction CEJR could not attach.
616	DFHAM4927	The installation of a DJAR definition failed because its HFSFILE is a duplicate of one that already exists.
617	DFHAM4926	The installation of a DJAR definition failed because the specified CORBASERVER is not in a valid state.
618	DFHAM4902	The installation of a CORBASERVER definition or of a REQUESTMODEL definition failed because it is not a valid definition for this CICS level.
619	DFHAM4925	The installation of a CORBASERVER failed because one of its associated TCPIPSERVICES was not installed.
620	DFHAM4912	The installation of the resource failed because the attribute specified is obsolete.
620	DFHZC5912	Install for terminal *termid* failed. It is incompatible with connection *cccc*.
620	DFHZC5949	Install for sessions *ssss* failed. It is incompatible with connection *cccc*.
621	DFHZC5900	System *sysid* has shipped definitions but connection *cccc* is not known to this system.
622	DFHZC5921	Install of terminal *termid* failed. VTAM support not loaded.

Table 7. RESP2 values corresponding to messages (continued)

RESP2	Msgid	Description or message
622	DFHZC5988	Install for resource *resource* failed. VTAM support not generated.
623	DFHZC5909	Install of resource *resource* failed. Call to DFHIRP *irp_function Return_code* did not succeed, See DFHIRSDS for return code.
624	DFHZC5931	Install for modename *modename* failed. Maximum number of APPC sessions would have been exceeded.
625	DFHAM4929	A resource was not installed because of conflicting attributes.
625	DFHZC5973	Install for sessions *ssss* failed. Max session-count reached for modename *modename*.
626	DFHAM4930	A URIMAP resource was not installed as it maps the same URI as an existing installed URIMAP.
626	DFHZC5955	SESNUMB greater than DLTHRED in the SIT (*nnnn*).
627	DFHAM4931	The installation of a WEBSERVICE failed because the associated WSBIND file or PIPELINE does not exist.
627	DFHZC5934	Install for modename *modename* failed. Single-session connection *cccc* is already in use.
628	DFHAM4932	The installation of a WEBSERVICE failed because: • the associated files in HFS are not correctly set up • *or* the associated PIPELINE is not correctly set up
628	DFHZC5936	Install for modename *modename* failed. Connection *cccc* has active modegroup *xxxx*.
629	DFHAM4933	The installation of a PIPELINE failed because the file specified in the WSDIR attribute was inaccessible.
629	DFHZC5939	Install for *name* failed. Duplicate session- or modegroup-name for connection *sysid*.
630	DFHZC5946	Install for sessions *ssss* failed. Connection *cccc* is defined to IRC.
630	DFHAM4934	Urimap install failed due to the specified HOSTCODEPAGE and CHARACTERSET combination being invalid.
631	DFHZC5948	Install for sessions *ssss* failed. Connection *cccc* is not suitable for IRC.
631	DFHAM4918	Install failed because all cipher codes were rejected.
632	DFHZC5954	Install for resource *resource* failed. Unable to install sessions component.
633	DFHZC5963	*operation* RUSIZE *xxxx* from terminal *termid* was greater than TYPETERM RUSIZE *yyyy*.
634	DFHZC5967	Install for modename *modename* failed. Unable to install sessions.
635	DFHZC5968	Unable to install LU Services Manager for modename *modename*.
636	DFHZC5981	Pool *pppp* not found.
637	DFHZC5985	Install for resource *resource* failed. Unable to install connection component.
638	DFHTO6003	TERMINAL *termdef* specifies CONSNAME but refers to TYPETERM *termtype* which does not specify DEVICE=CONSOLE.
639	DFHTO6004	TERMINAL *termdef* does not specify CONSNAME but refers to TYPETERM *termtype* which specifies DEVICE=CONSOLE.
640	DFHTO6005	PRINTER or ALTPRINTER for TERMINAL *termdef* is invalid for the DEVICE specified in TYPETERM *termtype*.
641	DFHTO6006	PRINTERCOPY or ALTPRINTERCOPY for TERMINAL *termdef* is invalid for the DEVICE specified in TYPETERM *termtype*.
642	DFHTO6007	AUTINSTMODEL YES|ONLY for TERMINAL *termdef* is invalid for the DEVICE specified in TYPETERM *termtype*.
643	DFHTO6008	

Table 7. RESP2 values corresponding to messages (continued)

RESP2	Msgid	Description or message
644	DFHTO6009	The definition for SESSIONs *sesdef* refers to CONNECTION *condef* which specifies a different PROTOCOL.
645	DFHTO6010	The definition for SESSIONs *sesdef* must specify PROTOCOL LU61 as it refers to an MRO CONNECTION *condef*.
646	DFHTO6011	SESSIONs *sesdef* must specify both SENDCOUNT and RECEIVECOUNT as it refers to an MRO CONNECTION *condef*.
647	DFHTO6013	No SESSIONs definition refers to CONNECTION *condef*.
648	DFHTO6014	POOL is required for TERMINAL *termdef* as it refers to TYPETERM *typedef* which specifies SESSIONTYPE=PIPELINE.
649	DFHTO6015	TRANSACTION for TERMINAL *termdef* is invalid for the DEVICE specified in TYPETERM *typedef*.
650	DFHTO6016	The MRO CONNECTION *condef* is referenced by more than one SESSIONs definition, including *sesdef*.
651	DFHTO6017	REMOTESYSTEM for TERMINAL *termid* is invalid for the DEVICE specified in TYPETERM *typeterm*.
652	DFHTO6018	TERMINAL *termid* refers to TYPETERM *typeterm* which has an invalid ALTSCREEN.
653	DFHTO6020	SESSIONS *sesdef* refers to single-session CONNECTION *condef* but has an invalid MAXIMUM option specified.
654	DFHTO6023	Connection definition @.BCH detected. Batch-shared database connections are not supported.
655	DFHTO6025	The definition for LU6.1 SESSIONs *sesdef* specifies a send or receive count with no prefix.
656	DFHZC6301	Install for *tttt* failed. Duplicate netname *netname* for resource *rrrr* found.
657	DFHZC6302	Install for connection *cccc* failed. Duplicate netname *netname* for resource *rrrr* found.
658	DFHZC6303	Install for *tttt* failed. Duplicate netname *netname* found.
659	DFHZC6334	Install for *tttt* failed. A session with the same name already exists.
660	DFHZC6331	Install for connection *tttt* failed. Non-VTAM terminal with same name already exists.
660	DFHZC6332	Install for terminal *tttt* failed. Non-VTAM terminal with same name already exists.
661	DFHZC5950	Install for terminal *termid* failed. Console *consname* already exists.
664	DFHZC6330	Install for *tttt* failed. LDCLIST parameter *ldclist* not found.
665	DFHZC6333	INSTALL for modename *modename* failed. Zero sessions specified.
666	DFHAM4833 DFHZC6361	Resource cannot be installed with specified userID because of a security error.
667	DFHZC6362	Install for terminal *portname* with userID *userid* failed because the preset userID has been revoked.
668	DFHZC6363	Install for terminal *portname* with userID *userid* failed because the preset userID's group access has been revoked.
669	DFHZC6364	Install for terminal *portname* with userID *userid* failed because the ESM returned an unrecognized response.
670	DFHZC6365	Install for terminal *portname* with userID *userid* failed because the external security manager is inactive.
671	DFHZC6366	Install for terminal *portname* with userID *userid* failed because the userID is not authorized to access this CICS system.
672	DFHZC6367	Install for terminal *termid* with userID *userid* failed because the SECLABEL check failed.

Table 7. RESP2 values corresponding to messages (continued)

RESP2	Msgid	Description or message
673	DFHZC6368	Install for terminal *portname* with userID *userid* failed because the external security manager is quiesced.
674	DFHZC6369	Install for terminal *portname* failed because national language *langcode* is invalid.
675	DFHZC6370	Install for terminal *portname* failed because national language *langcode* is unavailable.
676	DFHZC6371	Install for terminal *portname* with userID *userid* failed because the userID is not authorized to use this portname.
677	DFHZC5944	Install for *type*(*id*) has failed. It would make a loop of connection definitions.
679	DFHAM4837	Install of DB2ENTRY or DB2TRAN failed because DB2CONN not installed.
680	DFHAM4850	DB2TRAN not installed because refers to a DB2ENTRY that is not installed.
681	DFHAM4851	DB2CONN not installed because of a security error, or DB2ENTRY not installed because of a security error, or DB2TRAN not installed because of a security error.
682	DFHAM4895	The TST has not been assembled with the migrate option when defining CREATE TSMODEL.
		Codes caused by CICS internal logic errors
900	DFHTO6012	The catalog dataset is not available. RDO function is restricted.
901	DFHAM4872	Unable to connect to CICS catalog.
902	DFHAM4873	Unable to disconnect the CICS catalog.
903	DFHZC6209	Invalid ZC catalog request code *xxxx*.
904	DFHZC6212	Level mismatch with catalog record. DFHBS *xxx*.
905	DFHAM4898 DFHZC5901	Install failed because sufficient storage could not be obtained.
906	DFHZC6200	Could not obtain DWE storage.
907	DFHZC6203	Unable to obtain DWE action-list storage.
908	DFHZC6214	Unable to obtain recovery record storage.
950	DFHZC6202	Pattern *pattern* not valid for builder.
951	DFHZC6204	Illegal subpattern definition *pattern*.
952	DFHZC6205	Illegal subpattern definition *pattern*.
953	DFHZC6206	Pattern *pattern* not valid for destroy.
954	DFHZC6207	Catalog key too long or zero. Pattern *pattern*.
955	DFHZC6213	Recovery record abandoned. Key is *key*.
956	DFHZC6341	Loop or ABEND has been detected in *inmodule* by module *bymodule*.

Table 8. Keywords associated with keyword numbers. CREATE CONNECTION through CREATE DB2TRAN

No.	EXEC CICS CREATE command names				
	CONNECTION	**CORBASERVER**	**DB2CONN**	**DB2ENTRY**	**DB2TRAN**
1 1	CONNECTION	CORBASERVER	DB2CONN	DB2ENTRY	DB2TRAN
5	NETNAME	JNDIPREFIX			
6	INDSYS		DESCRIPTION	DESCRIPTION	DESCRIPTION
7	SECURITYNAME	SHELF	DB2ID		
8	(BINDPASSWORD)#	HOST	MSGQUEUE1	TRANSID	TRANSID
9		(PORT)#	MSGQUEUE2		ENTRY
10	REMOTESYSTEM	SESSBEANTIME(DAYS)	MSGQUEUE3		
11	REMOTENAME	SESSBEANTIME(HOURS)	PURGECYCLE		
12	DESCRIPTION	SESSBEANTIME(MINS)			
13	QUEUELIMIT	CERTIFICATE	STATSQUEUE	PROTECTNUM	
14	MAXQTIME	(SSLPORT)#	TCBLIMIT		
15		UNAUTH	THREADLIMIT	THREADLIMIT	
16			AUTHID	AUTHID	
17		CLIENTCERT	PLAN	PLAN	
18			PLANEXITNAME	PLANEXITNAME	
19			COMTHREADLIMIT		
20		SSLUNAUTH	COMAUTHID		
21		DJARDIR	SIGNID		
22		CIPHERS			
25			DB2GROUPID		
27	REMOTESYSNET				
91		(SSL)#			
97	INSERVICE				
98	AUTOCONNECT	AUTOPUBLISH	CONNECTERROR		
99	PROTOCOL		NONTERMREL		
100	ACCESSMETHOD		STANDBYMODE		
101	SINGLESESS		THREADERROR		
102	DATASTREAM		ACCOUNTREC	ACCOUNTREC	
103	RECORDFORMAT		AUTHTYPE	AUTHTYPE	
104	ATTACHSEC		DROLLBACK	DROLLBACK	
105	BINDSECURITY				
106	CONNTYPE		PRIORITY	PRIORITY	
107	PSRECOVERY		THREADWAIT	THREADWAIT	
108			COMAUTHTYPE		
110	USEDFLTUSER		RESYNCMEMBER		
111	XLNACTION				

Note:

1 Keyword number 1 always refers to the first operand of the CREATE command; that is, the resource being created.

Keywords in parentheses, such as (BINDPASSWORD), are obsolete but are retained for cross-release compatibility.

Table 9. Keywords associated with keyword numbers. CREATE DJAR through CREATE JOURNALMODEL..

No.	EXEC CICS CREATE command names				
	DJAR	**DOCTEMPLATE**	**ENQMODEL**	**FILE**	**JOURNALMODEL**
1 1	DJAR	DOCTEMPLATE	ENQMODEL	FILE	JOURNALMODEL
5	CORBASERVER			(RESSECNUM)#	
6		DESCRIPTION	DESCRIPTION	DSNAME	DESCRIPTION
7	HFSFILE	TEMPLATE	ENQSCOPE	RECORDSIZE	JOURNALNAME
8		FILE	ENQNAME	KEYLENGTH	STREAMNAME
9		TSQUEUE		JOURNAL	
10		TDQUEUE		REMOTESYSTEM	
11		PROGRAM		REMOTENAME	
12		EXITPGM		PASSWORD	
13		DDNAME		LSRPOOLID	
14		MEMBERNAME		STRINGS	
15				DATABUFFERS	
16				INDEXBUFFERS	
17		HFSFILE		FWDRECOVLOG	
18				DESCRIPTION	
19				NSRGROUP	
20				MAXNUMRECS	
21				CFDTPOOL	
22				TABLENAME	
97				STATUS	
98				RECOVERY	TYPE
99		APPENDCRLF	STATUS	OPENTIME	
100		TYPE		DISPOSITION	
101				ADD	
102				BROWSE	
103				DELETE	
104				READ	
105				UPDATE	
106				JNLSYNCREAD	
107				JNLSYNCWRITE	
108				JNLREAD	
109				JNLUPDATE	
110				JNLADD	
111				DSNSHARING	
112				RECORDFORMAT	
113				TABLE	
114				BACKUPTYPE	
115				RLSACCESS	
116				READINTEG	
117				LOAD	
118				UPDATEMODEL	

Note:

1 Keyword number 1 always refers to the first operand of the CREATE command; that is, the resource being created.

Keywords in parentheses, such as (BINDPASSWORD), are obsolete but are retained for cross-release compatibility.

Table 10. Keywords associated with keyword numbers. CREATE LSRPOOL through CREATE PIPELINE.

No.	EXEC CICS CREATE command names				
	LSRPOOL	**MAPSET**	**PARTITIONSET**	**PARTNER**	**PIPELINE**
1 1	LSRPOOL	MAPSET	PARTITIONSET	PARTNER	PIPELINE
5		(RSL)#	(RSL)#	NETNAME	CONFIGFILE
6	MAXKEYLENGTH	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
7	SHARELIMITE			NETWORK	
8	STRINGS			PROFILE	SHELF
9	DATA512			TPNAME	WSDIR
10	DATA1K			XTPNAME	
11	DATA2K				
12	DATA4K				
13	DATA8K				
14	DATA12K				
15	DATA16K				
16	DATA20K				
17	DATA24K				
18	DATA28K				
19	DATA32K				
20	LSRPOOLID				
21	DESCRIPTION				
22	INDEX512				
23	INDEX1K				
24	INDEX2K				
25	INDEX4K				
26	INDEX8K				
27	INDEX12K				
28	INDEX16K				
29	INDEX20K				
30	INDEX24K				
31	INDEX28K				
32	INDEX32K				
33	HSDATA4K				
34	HSDATA8K				
35	HSDATA12K				
36	HSDATA16K				
37	HSDATA20K				
38	HSDATA24K				
39	HSDATA28K				
40	HSDATA32K				
41	HSINDEX4K				
42	HSINDEX8K				
43	HSINDEX12K				
44	HSINDEX16K				
45	HSINDEX20K				
46	HSINDEX24K				
47	HSINDEX28K				
48	HSINDEX32K				
97		STATUS	STATUS		STATUS
98					
99					
100		RESIDENT	RESIDENT		
101		USAGE	USAGE		
102		USELPACOPY	USELPACOPY		

Note:

1 Keyword number 1 always refers to the first operand of the CREATE command; that is, the resource being created.

[#] Keywords in parentheses, such as (BINDPASSWORD), are obsolete but are retained for cross-release compatibility.

Table 11. Keywords associated with keyword numbers. CREATE PROCESSTYPE through CREATE SESSIONS.

No.	EXEC CICS CREATE command names				
	PROCESSTYPE	**PROFILE**	**PROGRAM**	**REQUESTMODEL**	**SESSIONS**
1 1	PROCESSTYPE	PROFILE	PROGRAM	REQUESTMODEL	SESSIONS
5	AUDITLOG	MODENAME	(RSL)#		CONNECTION
6	DESCRIPTION	JOURNAL	DESRIPTION	DESCRIPTION	SESSNAME
7	FILE	NEPCLASS	REMOTESYSTEM	(OMGMODULE)#	NETNAMEQ
8		RTIMOUT	REMOTENAME	(OMGINTERFACE)#	MODENAME
9		DESCRIPTION	TRANSID	(OMGOPERATION)#	MAXIMUM
10		FACILITYLIKE	JVMCLASS	TRANSID	
11				CORBASERVER	RECEIVEPFX
12				BEANNAME	RECEIVECOUNT
13				MODULE	SENDPFX
14				INTERFACE	SENDCOUNT
15				OPERATION	(OPERID)#
16					(OPERPRIORITY)#
17					(OPERRSL)#
18					(OPERSECURITY)#
19					USERID
20					SENDSIZE
21					RECEIVESIZE
22					(TRANSACTION)#
23					SESSPRIORITY
24					USERAREALEN
25					IOAREALEN
27					NEPCLASS
28					DESCRIPTION
33			JVMPROFILE		
97			STATUS	TYPE	(INSERVICE)#
98	STATUS	SCRNSIZE	LANGUAGE	INTFACETYPE	AUTOCONNECT
99	AUDITLEVEL	MSGJRNL	RELOAD		BUILDCHAIN
100	USERRECORDS	MSGINTEG	RESIDENT		PROTOCOL
101		ONEWTE	USAGE		RELREQ
102		(PROTECT)#	USELPACOPY		DISCREQ
103		DVSUPRT	CEDF		RECOVOPTION
104		INBFMH	DATALOCATION		(RECOVNOTIFY)#
105		RAQ	EXECKEY		
106		LOGREC			
107		PRINTERCOMP	EXECUTIONSET		
108		CHAINCONTROL	DYNAMIC		
109		UCTRAN	CONCURRENCY		
110			JVM		
111			(HOTPOOL)		
# 112			API		

Note:

1 Keyword number 1 always refers to the first operand of the CREATE command; that is, the resource being created.

Keywords in parentheses, such as (BINDPASSWORD), are obsolete but are retained for cross-release compatibility.

Table 12. Keywords associated with keyword numbers. CREATE TCPIPSERVICE through CREATE TRANSACTION.

No.	EXEC CICS CREATE command names				
	TCPIPSERVICE	**TDQUEUE**	**TERMINAL**	**TRANCLASS**	**TRANSACTION**
1 1	TCPIPSERVICE	TDQUEUE	TERMINAL	TRANCLASS	TRANSACTION
5				MAXACTIVE	(RSL)#
6	DESCRIPTION	DESCRIPTION	AUTINSTNAME	DESCRIPTION	PROGRAM
7		BLOCKSIZE	TYPETERM	PURGETHRESH	TWASIZE
8		DATABUFFERS	NETNAME		PROFILE
# 9		DDNAME	(CONSOLE)		PARTITIONSET
10		DSNAME	REMOTESYSTEM		REMOTESYSTEM
11		RECORDSIZE	REMOTENAME		REMOTENAME
12		FACILITYID	MODENAME		PRIORITY
13		TRANSID	PRINTER		(TCLASS)#
14	URM	TRIGGERLEVEL	ALTPRINTER		TASKREQ
15	PORTNUMBER	USERID	(OPERID)#		XTRANID
| 16	CIPHERS	INDIRECTNAME	(OPERPRIORITY)#		DTIMOUT
17	CERTIFICATE	REMOTENAME	(OPERRSL)#		(TRANSEC)#
18	TRANSACTION	REMOTESYSTEM	(OPERSECURITY)#		TRPROF
19	BACKLOG	SYSOUTCLASS	USERID		(PRIMEDSIZE)#
20		REMOTELENGTH	POOL		ALIAS
21			TASKLIMIT		DESCRIPTION
22	TSQPREFIX		TRANSACTION		TPNAME
23	IPADDRESS		TERMPRIORITY		XTPNAME
24	SOCKETCLOSE				TRANCLASS
25	DNSGROUP				RUNAWAY
26			SECURITYNAME		WAITTIME
| 27	MAXDATALEN		(BINDPASSWORD)#		
28			DESCRIPTION		
29			NATLANG		BREXIT
30			CONSNAME		
33			REMOTESYSNET		
97			INSERVICE		STATUS
98		TYPE	PRINTERCOPY		LOCALQ
99		DISPOSITION	ALTPRINCOPY		(INDOUBT)#
100		ERROROPTION	AUTINSTMODEL		RESTART
101		OPENTIME			SPURGE
102		RECORDFORMAT	ATTACHSEC		TPURGE
103		BLOCKFORMAT	BINDSECURITY		DUMP
104	STATUS	REWIND	USEDFLTUSER		(EXTSEC)#
105	SSL	TYPEFILE			RESSEC
106	PROTOCOL	ATIFACILITY			TRACE
107		RECOVSTATUS			DYNAMIC
108		WAITACTION			CMDSEC
109	AUTHENTICATE	PRINTCONTROL			TASKDATALOC
110	GRPCRITICAL	WAIT			TASKDATAKEY
111	ATTACHSEC				STORAGECLEAR
| 112	(PRIVACY)				SHUTDOWN
113					ISOLATE
114					CONFDATA
115					WAIT
116					ACTION
117					ROUTABLE

Note:

1 Keyword number 1 always refers to the first operand of the CREATE command; that is, the resource being created.

Keywords in parentheses, such as (BINDPASSWORD), are obsolete but are retained for cross-release compatibility.

Table 13. Keywords associated with keyword numbers. CREATE TSMODEL through CREATE WEBSERVICE.

No.	EXEC CICS CREATE command names			
	TSMODEL	**TYPETERM**	**URIMAP**	**WEBSERVICE**
1 1	TSMODEL	TYPETERM	URIMAP	WEBSERVICE
5		DEVICE		PIPELINE
6	DESCRIPTION	TERMMODEL		DESCRIPTION
7	PREFIX	SESSIONTYPE		WSBIND
8	POOLNAME			WSDLFILE
9	REMOTESYSTEM	LDCLIST		
10	REMOTEPREFIX	DEFSCREEN		
11	XPREFIX			
12	XREMOTEPFX	ALTSCREEN		
14		CGCSGID		
16		SENDSIZE	HOST	
17		RECEIVESIZE	PATH	
18		LOGMODE		
19		PAGESIZE		
21		ALTPAGE	TCPIPSERVICE	
23		ALTSUFFIX	TRANSACTION	
24		USERAREALEN	CONVERTER	
25		IOAREALEN	PROGRAM	
26			PIPELINE	
27		NEPCLASS	WEBSERVICE	
28		DESCRIPTION		
32			USERID	
33			CIPHERS	
34			CERTIFICATE	
35			MEDIATYPE	
36			CHARACTERSET	
37			HOSTCODEPAGE	
38			TEMPLATENAME	
39			HFSFILE	
40			LOCATION	
97			STATUS	VALIDATION
98		AUTOCONNECT	USAGE	
99	LOCATION	SHIPPABLE	SCHEME	
100	RECOVERY	APLKYBD		
101	SECURITY	APLTEXT		
102		AUDIBLEALARM		
103		COLOR		
104		COPY		
105		DUALCASEKYBD		
106		EXTENDEDDS	ANALYZER	
107		HILIGHT		
108		KATAKANA		
109		LIGHTPEN		
110		MSRCONTROL		
111		OBFORMAT		
112		PARTITIONS		
113		PRINTADAPTER		
114		PROGSYMBOLS		
115		VALIDATION		
116		FORMFEED		
117		HORIZFORM		
118		VERTICALFORM		
119		TEXTKYBD		
120		TEXTPRINT		
121		QUERY		
122		OUTLINE		
123		SOSI		
124		BACKTRANS		

Table 13. Keywords associated with keyword numbers (continued). CREATE TSMODEL through CREATE WEBSERVICE.

No.	EXEC CICS CREATE command names			
	TSMODEL	**TYPETERM**	**URIMAP**	**WEBSERVICE**
125		ASCII		
126		BRACKET		
127		FMHPARM		
128		OBOPERID		
129		AUTOPAGE		
130		ERRLASTLINE		
131		ERRINTENSIFY		
132		ERRCOLOR		
133		ERRHILIGHT		
134		ATI		
135		CREATESESS		
136		RELREQ		
137		DISCREQ		
138		SIGNOFF		
139		ROUTEDMSGS		
140		LOGONMSG		
141		BUILDCHAIN		
142		UCTRAN		
143		TTI		
144		RECOVOPTION		
145		RECOVNOTIFY		
146		(XRFSIGNOFF)#		
147		(LOGEMODECOM)#		
148		RSTSIGNOFF		

Note:

1 Keyword number 1 always refers to the first operand of the CREATE command; that is, the resource being created.

Keywords in parentheses, such as (BINDPASSWORD), are obsolete but are retained for cross-release compatibility.

Appendix D. Threadsafe SPI commands

Threadsafe SPI commands

DISCARD DB2CONN
DISCARD DB2ENTRY
DISCARD DB2TRAN
DISCARD DOCTEMPLATE
INQUIRE DB2CONN
INQUIRE DB2ENTRY
INQUIRE DB2TRAN
INQUIRE DOCTEMPLATE
INQUIRE EXITPROGRAM
INQUIRE TASK
INQUIRE WEB
INQUIRE WORKREQUEST
SET DB2CONN
SET DB2ENTRY
SET DB2TRAN
SET WEB
SET WORKREQUEST

For an introduction to the concept of threadsafe commands see “CICS threadsafe commands in the SPI” on page 29.

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Index

A

absolute expression 13
access to system information
  INQUIRE STORAGE command 307
ACCESSMETHOD option
  INQUIRE CONNECTION command 187
  INQUIRE DSNAME command 223
  INQUIRE FILE command 243
  INQUIRE TERMINAL command 361
ACQSTATUS option
  INQUIRE CONNECTION command 187
  INQUIRE TERMINAL command 362
  SET CONNECTION command 481
  SET MODENAME command 552
  SET TERMINAL command 594
ACQUIRE TERMINAL command 35
  conditions 36
ACTION option
  SET DSNAME command 517
  SET SYSDUMPCODE command 570
  SET TRANDUMPCODE command 613
  SET UOWLINK command 625
ACTIVE option
  INQUIRE MODENAME command 269
  INQUIRE TRANCLASS command 386
ACTIVITY option
  INQUIRE TASK command 330
ACTIVITYID option
  INQUIRE TASK command 330
ACTJVMTCBS option
  INQUIRE DISPATCHER command 214
ACTOPENTCBS option
  INQUIRE DISPATCHER command 214
  INQUIRE SYSTEM command 319
ACTSOCKETS option
  INQUIRE TCPIP command 342
ACTXPTCBS option
  INQUIRE DISPATCHER command 215
ADD option
  INQUIRE FILE command 244
  SET FILE command 532
ADDRESS option
  INQUIRE STORAGE command 308
AFFINITY option
  SET CONNECTION command 481
AFTER option
  INQUIRE REQID command 297
AGE option
  INQUIRE JVM command 263
  INQUIRE UOW command 408
AIBRIDGE option
  INQUIRE AUTOINSTALL command 171
  SET AUTOINSTALL command 474
AKP option
  INQUIRE SYSTEM command 319
  SET SYSTEM command 575
ALIGNED attribute
  PL/I 13
ALL option
  PERFORM STATISTICS command 467
ALLOCAGE option
  INQUIRE JVM command 263
ALTPAGEHT option
  INQUIRE TERMINAL command 362
ALTPAGEWD option
  INQUIRE TERMINAL command 362
ALTPRINTER option
  INQUIRE TERMINAL command 362
  SET TERMINAL command 594
ALTPRTCOPYST option
  INQUIRE TERMINAL command 362
  SET TERMINAL command 594
ALTSCRNHT option
  INQUIRE TERMINAL command 362
ALTSCRNWD option
  INQUIRE TERMINAL command 362
ALTSUFFIX option
  INQUIRE TERMINAL command 362
ANALYZERSTAT option
  INQUIRE URIMAP command 428
APIST option
  INQUIRE EXITPROGRAM command 237
  INQUIRE PROGRAM command 288
APLKYBDST option
  INQUIRE TERMINAL command 362
APLTEXTST option
  INQUIRE TERMINAL command 363
APPENDCRLF option
  INQUIRE DOCTEMPLATE command 219
APPLNAMEST option
  INQUIRE MONITOR command 273
argument lengths 14
argument values
  assembler language 13
  C/370 12
  COBOL 11
  PL/I 12
ASCII option
  INQUIRE TERMINAL command 363
assembler language
  argument values 13
ASSERTED option
  INQUIRE CORBASERVER command 194
AT option
  INQUIRE REQID command 297
ATIFACILITY option
  INQUIRE TDQUEUE command 351
  SET TDQUEUE command 589
ATISTATUS option
  INQUIRE TERMINAL command 363
  SET TERMINAL command 594
ATITERMID option
  INQUIRE TDQUEUE command 351
  SET TDQUEUE command 589

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ATITRANID option
INQUIRE TDQUEUE command 351
SET TDQUEUE command 590
ATIUSERID option
INQUIRE TDQUEUE command 352
SET TDQUEUE command 590
ATTACHSEC option
INQUIRE TCPIPSERVICE command 344
ATTACHTIME option
INQUIRE TASK command 330
ATTRIBUTES option
CREATE CONNECTION command 49
CREATE CORBASERVER command 52
CREATE DB2CONN command 56
CREATE DB2ENTRY command 59
CREATE DB2TRAN command 61
CREATE DJAR command 63
CREATE DOCTEMPLATE command 65
CREATE ENQMODEL command 68
CREATE FILE command 70
CREATE JOURNALMODEL command 72
CREATE LSRPOOL command 75
CREATE MAPSET command 77
CREATE PARTITIONSET command 79
CREATE PARTNER command 81
CREATE PIPELINE command 83
CREATE PROCESSTYPE command 85
CREATE PROFILE command 88
CREATE PROGRAM command 90
CREATE REQUESTMODEL command 93
CREATE SESSIONS command 95
CREATE TCPIPSERVICE command 98
CREATE TDQUEUE command 102
CREATE TERMINAL command 105
CREATE TRANCLASS command 107
CREATE TRANSACTION command 110
CREATE TSMODEL command 112
CREATE TYPETERM command 116
CREATE URIMAP command 119
CREATE WEBSERVICE command 121
ATTRLEN option
CREATE CONNECTION command 50
CREATE CORBASERVER command 53
CREATE DJAR command 63
CREATE DOCTEMPLATE command 66
CREATE ENQMODEL command 68
CREATE FILE command 71
CREATE JOURNALMODEL command 73
CREATE LSRPOOL command 75
CREATE MAPSET command 78
CREATE PARTITIONSET command 80
CREATE PARTNER command 81
CREATE PIPELINE command 84
CREATE PROCESSTYPE command 86
CREATE PROFILE command 88
CREATE PROGRAM command 90
CREATE REQUESTMODEL command 93
CREATE SESSIONS command 95
CREATE TCPIPSERVICE command 98
CREATE TDQUEUE command 102
CREATE TERMINAL command 106
ATTRLEN option *(continued)*
CREATE TRANCLASS command 107
CREATE TRANSACTION command 110
CREATE TSMODEL command 113
CREATE TYPETERM command 116
CREATE URIMAP command 119
CREATE WEBSERVICE command 122
AUDALARMST option
INQUIRE TERMINAL command 363
AUDITLEVEL option
INQUIRE PROCESSTYPE command 284, 559
AUDITLOG option
INQUIRE PROCESSTYPE command 284
AUTHENTICATE option
INQUIRE TCPIPSERVICE command 345
authorization failures 16
AUTINSTMODEL option
DISCARD AUTINSTMODEL command 127
INQUIRE AUTINSTMODEL command 170
AUTINSTMODEL, DISCARD command 127
AUTINSTMODEL, INQUIRE command 170
AUTOCONNECT option
INQUIRE CONNECTION command 187
INQUIRE MODENAME command 270
INQUIRE TERMINAL command 363
AUTOINSTALL option
COLLECT STATISTICS command 41
PERFORM STATISTICS command 467
AUTOINSTALL, INQUIRE command 171
AUTOINSTALL, SET command 474
automatic installation of terminals 171
AUTOPUBLISH option
INQUIRE CORBASERVER command 194
AUTOSTARTST option
INQUIRE CLASSCACHE command 180
PERFORM CLASSCACHE command 443
SET CLASSCACHE command 478
AUXSTATUS option
INQUIRE TRACEDEST command 378
SET TRACEDEST command 602
AVAILABILITY option
INQUIRE DSNAME 223
SET DSNAME 519
AVAILABLE option
INQUIRE MODENAME command 270
SET MODENAME command 552

B

BACKLOG option
INQUIRE TCPIPSERVICE command 345
SET TCPIPSERVICE command 585
BACKTRANSST option
INQUIRE TERMINAL command 364
BACKUPTYPE option
INQUIRE DSNAME command 223
BASEDSNAME option
INQUIRE DSNAME command 224
INQUIRE FILE command 244
batch backout utility 222

BEAN option
COLLECT STATISTICS command 42
INQUIRE BEAN command 173
PERFORM STATISTICS command 467
BEAN, INQUIRE command 173
BEANNAME option
INQUIRE REQUESTMODEL command 301
BINDING option
INQUIRE WEBSERVICE command 437
BLOCKFORMAT option
INQUIRE FILE command 244
INQUIRE TDQUEUE command 352
BLOCKKEYLEN option
INQUIRE FILE command 244
BLOCKSIZE option
INQUIRE FILE command 244
INQUIRE TDQUEUE command 352
BREXIT option
INQUIRE TRANSACTION command 392
BRFACILITY option
INQUIRE BRFACILITY command 175
INQUIRE TASK command 330
BRFACILITY, INQUIRE command 175
BRFACILITY, SET command 476
BRIDGE option
INQUIRE TASK command 331
BROWSE option
INQUIRE FILE command 244
SET FILE command 532
browsing
AUTINSTMODEL entries 170
BEAN entries 173
BRFACILITY entries 175
CFDTPOOL entries 178
CONNECTION entries 186
CORBASERVER entries 194
DB2ENTRY entries 205
DB2TRAN entries 210
DJAR entries 217
DOCTEMPLATE entries 219
FILE entries 243, 259, 310
JOURNALMODEL entries 257
JVM entries 262
JVM profiles 267
MODENAME entries 269
NETNAME entries 278
PARTNER entries 280
PIPELINEs 282
PROCESSTYPE entries 284
PROFILE entries 286
PROGRAM entries 288
REQUESTMODEL entries 301
TDQUEUE entries 351
TERMINAL entries 361
TRANCLASS entries 386
TRANDUMPCODE entries 389
TRANSACTION entries 392
UOWs 408, 418, 423
Workrequests 441
browsing resource definitions 21
browsing rules 23
BUSY option
SET FILE command 532

C

C/370 language
argument values 12
CACHEFREE option
INQUIRE CLASSCACHE command 180
CACHESIZE option
INQUIRE CLASSCACHE command 181
PERFORM CLASSCACHE command 444
CALLER option
PERFORM DUMP command 453
CALLERLENGTH option
PERFORM DUMP command 453
CANCEL option
SET CONNECTION command 483
CDSASIZE option
INQUIRE SYSTEM command 319
CECI transaction 1
CEDF transaction 1
CEDFSTATUS option
INQUIRE PROGRAM command 288
SET PROGRAM command 561
CEMT transaction
function provided by INQUIRE and SET commands 1
CERTIFICATE option
INQUIRE CORBASERVER command 195
INQUIRE TCPIPSERVICE command 346
INQUIRE URIMAP command 428
CETR transaction
function provided by INQUIRE and SET commands 1
CFDTPOOL option
INQUIRE CFDTPOOL command 178
INQUIRE FILE command 245
SET FILE command 533
CFDTPOOL, INQUIRE command 178
char-expr argument, CICS command format 6
CHARACTERSET option
INQUIRE URIMAP command 428
CICS value
INQUIRE TCPIP command 342
CICS-supplied security 2
CICS-value data area (CVDA) 8
CICSSTATUS option
INQUIRE SYSTEM command 319
CICSSYS option
INQUIRE SYSTEM command 320
CICSTSLEVEL option
INQUIRE SYSTEM command 320
CIPEHRS option
INQUIRE TCPIPSERVICE command 346
CIPHERS option
INQUIRE CORBASERVER command 195
INQUIRE URIMAP command 428
CLASSCACHE, INQUIRE command 180
CLASSCACHE, PERFORM command 443
CLASSCACHE, SET command 478

CLASSCACHEST option
INQUIRE JVM command 263
INQUIRE JVMPROFILE command 267
CLIENTAUTH value
INQUIRE TCPIPSERVICE command 348
CLIENTCERT option
INQUIRE CORBASERVER command 195
CLIENTIPADDR option
INQUIRE WORKREQUEST command 441
CLOSED value
INQUIRE TCPIP command 342
INQUIRE TCPIPSERVICE command 347
SET TCPIP command 584
SET TCPIPSERVICE command 586
CLOSETIMEOUT option
INQUIRE TCPIPSERVICE command 346
CLOSING value
INQUIRE TCPIP command 342
INQUIRE TCPIPSERVICE command 347
CMDPROTECT option
INQUIRE SYSTEM command 320
CMDSEC option
INQUIRE TASK command 331
INQUIRE TRANSACTION command 392
COBOL
argument values 11
COBOLTYPE option
INQUIRE PROGRAM command 289
COLDSTATUS option
INQUIRE SYSTEM command 320
COLLECT STATISTICS
conditions 46
COLLECT STATISTICS command 38
COLORST option
INQUIRE TERMINAL command 364
command interpreter transaction (CECI) 1
command security checking 16
command, CREATE FILE 69
commands
format, arguments 2
COMPID option
INQUIRE TRACETYPE command 383
SET TRACETYPE command 608
COMPLETE option
CREATE CONNECTION command 50
CREATE TERMINAL command 106
CONCURRENCY option
INQUIRE PROGRAM command 289
CONCURRENTST option
INQUIRE EXITPROGRAM command 237
conditions
ACQUIRE TERMINAL command 36
COLLECT STATISTICS command 46
CREATE CONNECTION command 50
CREATE CORBASERVER command 53
CREATE DB2ENTRY command 59
CREATE DB2TRAN command 62
CREATE DJAR command 64
CREATE DOCTEMPLATE command 66
CREATE ENQMODEL command 68
CREATE FILE command 71
conditions *(continued)*
CREATE JOURNALMODEL command 73
CREATE LSRPOOL command 75
CREATE MAPSET command 78
CREATE PARTITIONSET command 80
CREATE PARTNER command 82
CREATE PIPELINE command 84
CREATE PROCESSTYPE command 86
CREATE PROFILE command 88
CREATE PROGRAM command 90
CREATE REQUESTMODEL command 93
CREATE SESSIONS command 95
CREATE TCPIPSERVICE command 98
CREATE TDQUEUE command 102
CREATE TERMINAL command 106
CREATE TRANCLASS command 108
CREATE TRANSACTION command 110
CREATE TSMODEL command 113
CREATE TYPETERM command 116
CREATE URIMAP command 119
CREATE WEBSERVICE command 122
DB2CONN command 56
DISABLE PROGRAM command 125
DISCARD AUTINSTMODEL command 127
DISCARD CONNECTION command 129
DISCARD CORBASERVER command 130
DISCARD DB2ENTRY command 132
DISCARD DJAR command 134
DISCARD DOCTEMPLATE command 135
DISCARD ENQMODEL command 136
DISCARD FILE command 137
DISCARD JOURNALMODEL command 138
DISCARD JOURNALNAME command 140
DISCARD PARTNER command 141
DISCARD PIPELINE command 142
DISCARD PROCESSTYPE command 143
DISCARD PROFILE command 144
DISCARD PROGRAM command 145
DISCARD REQUESTMODEL command 146
DISCARD TCPIPSERVICE command 147
DISCARD TDQUEUE command 148
DISCARD TERMINAL command 150
DISCARD TRANCLASS command 152
DISCARD TRANSACTION command 153
DISCARD TSMODEL command 154
DISCARD URIMAP command 155
DISCARD WEBSERVICE command 156
ENABLE PROGRAM command 161
EXTRACT EXIT command 165
EXTRACT STATISTICS command 168
INQUIRE AUTINSTMODEL command 170
INQUIRE AUTOINSTALL command 172
INQUIRE BEAN command 173
INQUIRE BRFACILITY command 177
INQUIRE CFDTPOOL command 178
INQUIRE CLASSCACHE command 182
INQUIRE command 23
INQUIRE CONNECTION command 193
INQUIRE CORBASERVER command 196, 218
INQUIRE DB2CONN command 204
INQUIRE DB2ENTRY command 208

conditions *(continued)*
INQUIRE DB2TRAN command 211
INQUIRE DELETSHIPPED 213
INQUIRE DISPATCHER command 216
INQUIRE DOCTEMPLATE command 221
INQUIRE DSNAME command 227
INQUIRE DUMPDS command 230
INQUIRE ENQMODEL 233
INQUIRE EXCI command 234
INQUIRE EXITPROGRAM command 241
INQUIRE FILE command 252
INQUIRE HOST command 255
INQUIRE IRC command 256
INQUIRE JOURNALMODEL command 258
INQUIRE JOURNALNAME command 260
INQUIRE JVM command 264, 268
INQUIRE JVMPOOL command 266
INQUIRE MODENAME command 270, 311
INQUIRE MONITOR command 275
INQUIRE MVSTCB command 277
INQUIRE PARTNER command 281
INQUIRE PIPELINE command 283
INQUIRE PROCESSTYPE command 285, 560
INQUIRE PROFILE command 286
INQUIRE PROGRAM command 294
INQUIRE REQID command 299
INQUIRE REQUESTMODEL command 302
INQUIRE rrms command 303
INQUIRE STATISTICS command 306
INQUIRE STORAGE command 309
INQUIRE SUBPOOL 313
INQUIRE SYSDUMPCODE command 316
INQUIRE SYSTEM command 327
INQUIRE TASK command 338
INQUIRE TASK LIST command 340
INQUIRE TCLASS command 341
INQUIRE TCPIP command 343
INQUIRE TCPIPSERVICE command 348
INQUIRE TDQUEUE command 357
INQUIRE TERMINAL command 376
INQUIRE TRACEDEST command 380
INQUIRE TRACEFLAG command 382
INQUIRE TRACETYPE command 385
INQUIRE TRANCLASS command 387
INQUIRE TRANDUMPCODE command 390
INQUIRE TRANSACTION command 398
INQUIRE TSMODEL 400
INQUIRE TSPOOL 401
INQUIRE TSQNAME 405
INQUIRE TSQUEUE 405
INQUIRE UOW command 411
INQUIRE UOWDSNFAIL command 416
INQUIRE UOWENQ command 422
INQUIRE UOWLINK command 425
INQUIRE URIMAP command 430
INQUIRE VOLUME command 432
INQUIRE VTAM command 435
INQUIRE WEB command 436
INQUIRE WEBSERVICE command 439
INQUIRE WORKREQUEST 442
PERFORM CLASSCACHE command 445
conditions *(continued)*
PERFORM CORBASERVER command 448
PERFORM DJAR command 451
PERFORM DUMP command 454
PERFORM ENDAFFINITY command 456
PERFORM PIPELINE command 458
PERFORM RESETTIME command 460
PERFORM SECURITY REBUILD command 461
PERFORM SHUTDOWN command 464
PERFORM STATISTICS RECORD command 469
RESYNC ENTRYNAME command 473
SET AUTOINSTALL command 475
SET BRFACILITY 476
SET CLASSCACHE command 479
SET CONNECTION command 486
SET CORBASERVER command 490
SET DB2CONN command 499
SET DB2ENTRY command 506
SET DB2TRAN command 508
SET DELETSHIPPED command 511
SET DISPATCHER command 515
SET DSNAME command 521
SET DUMPDS command 526
SET ENQMODEL command 527
SET FILE command 538
SET HOST command 543
SET IRC command 544
SET JOURNALNAME command 547
SET JVMPOOL command 550
SET MODENAME command 552
SET MONITOR command 556
SET NETNAME command 557
SET PIPELINE command 558
SET PROGRAM command 564
SET STATISTICS command 568
SET SYSDUMPCODE command 572
SET SYSTEM command 578
SET TASK command 581
SET TCLASS command 582
SET TCPIP command 584
SET TCPIPSERVICE command 586
SET TDQUEUE command 591
SET TERMINAL command 600
SET TRACEDEST command 604
SET TRACEFLAG command 607
SET TRACETYPE command 610
SET TRANCLASS command 612
SET TRANDUMPCODE command 615
SET TRANSACTION command 619
SET TSQNAME command 621
SET TSQUEUE command 621
SET UOW command 623
SET UOWLINK command 625
SET URIMAP command 628
SET VOLUME command 629
SET VTAM command 632
SET WEBSERVICE command 634
SET WORKREQUEST command 636
CONNECTION
SET CONNECTION command 481

CONNECTION option
COLLECT STATISTICS command 42
CREATE CONNECTION command 50
INQUIRE CONNECTION command 188
INQUIRE MODENAME command 270
PERFORM STATISTICS command 467
SET MODENAME command 552
CONNECTION, CREATE command 48
CONNECTION, DISCARD command 128
CONNECTION, INQUIRE command 183
CONNECTION, SET command 480, 625
CONNECTIONS option
INQUIRE TCPIPSERVICE command 346
CONNECTST option
INQUIRE EXITPROGRAM command 237
CONNSTATUS option
INQUIRE CFDTPOOL command 178
INQUIRE CONNECTION command 188
INQUIRE TSPOOL command 401
SET CONNECTION command 481
CONNTYPE option
INQUIRE CONNECTION command 189
CONSOLE option
INQUIRE TERMINAL command 364
CONSOLES option
INQUIRE AUTOINSTALL command 171
SET AUTOINSTALL command 474
CONTAINER option
INQUIRE WEBSERVICE command 437
CONVERSEST option
INQUIRE MONITOR command 273
SET MONITOR command 554
CONVERTER option
INQUIRE URIMAP command 428
COPID
option of DSNCRCT macro 495
COPY option
INQUIRE PROGRAM command 290
SET PROGRAM command 561
COPYST option
INQUIRE TERMINAL command 364
CORBASERVER option
COLLECT STATISTICS command 42
CREATE CORBASERVER command 53
INQUIRE BEAN command 173
INQUIRE CORBASERVER command 195
INQUIRE REQUESTMODEL command 301
INQUIRE WORKREQUEST command 441
PERFORM CORBASERVER command 447
PERFORM STATISTICS command 467
CORBASERVER, CREATE command 52
CORBASERVER, DISCARD command 130
CORBASERVER, INQUIRE command 194
CORBASERVER, PERFORM 447
CORBASERVER, SET command 489
CORBSERVER option
INQUIRE DJAR command 217
PERFORM DJAR command 451
SET CORBASERVER command 489
CORRELID option
INQUIRE TERMINAL command 364
CREATE CONNECTION command 48
conditions 50
CREATE CORBASERVER command 52
conditions 53
CREATE DB2CONN command 55
CREATE DB2ENTRY command 58
conditions 59
CREATE DB2TRAN command 61
conditions 62
CREATE DJAR command 63
conditions 64
CREATE DOCTEMPLATE command 65
conditions 66
CREATE ENQMODEL command 67
conditions 68
CREATE FILE command 69
conditions 71
CREATE JOURNALMODEL command 72
conditions 73
CREATE LSRPOOL command 74
conditions 75
CREATE MAPSET command 77
conditions 78
CREATE PARTITIONSET command 79
conditions 80
CREATE PARTNER command 81
conditions 82
CREATE PIPELINE command 83
conditions 84
CREATE PROCESSTYPE command 85
conditions 86
CREATE PROFILE command 87
conditions 88
CREATE PROGRAM command 89
conditions 90
CREATE REQUESTMODEL command 92
conditions 93
CREATE SESSIONS command 94
conditions 95
CREATE TCPIPSERVICE command 97
conditions 98
CREATE TDQUEUE command 100
conditions 102
CREATE TERMINAL command 104
conditions 106
CREATE TRANCLASS command 107
conditions 108
CREATE TRANSACTION command 109
conditions 110
CREATE TSMODEL command 112
conditions 113
CREATE TYPETERM command 114
conditions 116
CREATE URIMAP command 118
conditions 119
CREATE WEBSERVICE command 121
conditions 122
CREATESESS option
INQUIRE TERMINAL command 364
SET TERMINAL command 595
creating resource definitions 24

CRITICAL value 346
CRLPROFILE option
  INQUIRE TCPIP command 342
CTERM option
  DSNCRCT macro 495
CTX option of DSNCRCT macro 495
CURAUXDS option
  INQUIRE TRACEDEST command 378
CURRENT option
  INQUIRE SYSDUMPCODE command 314
  INQUIRE TCLASS command 341
  INQUIRE TRANDUMPCODE command 389
CURRENTDDS option
  INQUIRE DUMPDS command 229
CURRENTPROG option
  INQUIRE TASK command 331
CURREQS option
  INQUIRE AUTOINSTALL command 172
CVDA (CICS-value data area)
  argument values 6
  command format 6
  example code 9
  listed in numerical and alphabetical order 637
  on INQUIRE commands 8
CVDA values
  CLIENT
    INQUIRE URIMAP command 430
  DISABLED
    INQUIRE HOST command 254
    INQUIRE URIMAP command 428, 429
    SET HOST command 542
    SET URIMAP command 627
  DISABLEDHOST
    INQUIRE URIMAP command 428
  ENABLED
    INQUIRE HOST command 254
    INQUIRE URIMAP command 428, 429
    SET HOST command 542
    SET URIMAP command 627
  NO
    INQUIRE URIMAP command 428
  NONE
    INQUIRE URIMAP command 430
    SET URIMAP command 628
  PERM
    INQUIRE URIMAP command 430
  PERMANENT
    SET URIMAP command 628
  PIPELINE
    INQUIRE URIMAP command 430
  SERVER
    INQUIRE URIMAP command 430
  TEMP
    INQUIRE URIMAP command 430
  TEMPORARY
    SET URIMAP command 628
  YES
    INQUIRE URIMAP command 428

D

DAEOPTION option
  INQUIRE SYSDUMPCODE command 315, 571
data table options
  MAXNUMRECS option on SET FILE command 535
  TABLE option on SET FILE command 537
data types 11
data-area argument
  CICS command format 6
data-areas 6
data-value argument
  CICS command format 6
data-values 6
DATABUFFERS option
  INQUIRE TDQUEUE command 352
DATALOCATION option
  INQUIRE PROGRAM command 290
DATASTREAM option
  INQUIRE TERMINAL command 365
DB2 option
  PERFORM STATISTICS command 467
DB2CONN command
  conditions 56
DB2CONN option
  COLLECT STATISTICS command 42
  DISCARD DB2CONN command 131
  INQUIRE SYSTEM command 320
DB2CONN, CREATE command 55
DB2CONN, DISCARD command 131
DB2CONN, INQUIRE command 197
DB2CONN, SET command 492
DB2ENTRY option
  COLLECT STATISTICS command 42
  DISCARD DB2ENTRY command 132
DB2ENTRY, CREATE command 58
DB2ENTRY, DISCARD command 132
DB2ENTRY, INQUIRE command 205
DB2ENTRY, SET command 502
DB2PLAN option
  INQUIRE TASK command 331
DB2TRAN option
  DISCARD DB2TRAN command 133
DB2TRAN, CREATE command 61
DB2TRAN, DISCARD command 133
DB2TRAN, INQUIRE command 210
DB2TRAN, SET command 508
DDNAME option
  INQUIRE DOCTEMPLATE command 220
  INQUIRE TDQUEUE command 352
DEBUGTOOL option
  INQUIRE SYSTEM command 320
  SET SYSTEM command 575
defining exits 28
DEFPAGEHT option
  INQUIRE TERMINAL command 365
DEFPAGEWD option
  INQUIRE TERMINAL command 365
DEFSCRNHT option
  INQUIRE TERMINAL command 365
DEFSCRNWD option
  INQUIRE TERMINAL command 365

DELETE option
INQUIRE FILE command 245
SET FILE command 533
DELETSHIPPED, INQUIRE command 212
DELETSHIPPED, PERFORM command 450
DELETSHIPPED, SET command 510
DEREGERROR value 346
DEREGISTERED option
SET VTAM command 630
DEREGISTERED value 346
DEVICE option
INQUIRE TERMINAL command 365
DFLTUSER option
INQUIRE SYSTEM command 321
DISABLE PROGRAM command 123
conditions 125
examples for global user exits 126
DISABLED CVDA value
INQUIRE AUTOINSTALL command 172
DISCARD AUTINSTMODEL command 127
conditions 127
DISCARD commands
CONNECTION 128
CORBASERVER 130
DJAR 134
PIPELINE 142
TERMINAL 150
WEBSERVICE 156
DISCARD CONNECTION command 128
conditions 129
DISCARD CORBASERVER command 130
conditions 130
DISCARD DB2CONN command 131
conditions 131
DISCARD DB2ENTRY command 132
conditions 132
DISCARD DB2TRAN command 133
conditions 133
DISCARD DJAR command 134
conditions 134
DISCARD DOCTEMPLATE command 135
conditions 135
DISCARD ENQMODEL command 136
conditions 136
DISCARD FILE command 137
conditions 137
DISCARD JOURNALMODEL command 138
conditions 138
DISCARD JOURNALNAME command 139
conditions 140
DISCARD option
CREATE CONNECTION command 50
CREATE TERMINAL command 106
DISCARD PARTNER command 141
conditions 141
DISCARD PIPELINE command 142
conditions 142
DISCARD PROCESSTYPE command 143
conditions 143
DISCARD PROFILE command 144
conditions 144
DISCARD PROGRAM command 145
conditions 145
DISCARD REQUESTMODEL command 146
conditions 146
DISCARD TCPIPSERVICE command 147
conditions 147
DISCARD TDQUEUE command 148
conditions 148
DISCARD TERMINAL command 150
conditions 150
DISCARD TRANCLASS command 152
conditions 152
DISCARD TRANSACTION command 153
conditions 153
DISCARD TSMODEL command 154
conditions 154
DISCARD URIMAP command 155
conditions 155
DISCARD WEBSERVICE command 156
conditions 156
discarding resources
resource definitions 27, 127
DISCREQST option
INQUIRE TERMINAL 595
INQUIRE TERMINAL command 365
DISPATCHABLE option
INQUIRE TASK LIST command 339
DISPATCHER option
COLLECT STATISTICS command 42
PERFORM STATISTICS command 467
DISPATCHER, INQUIRE command 214
DISPATCHER, SET command 513
DISPOSITION option
INQUIRE FILE command 245
INQUIRE TDQUEUE command 352
SET FILE command 533
DJAR option
CREATE DJAR command 63
DISCARD DJAR command 134
INQUIRE BEAN command 173
INQUIRE DJAR command 217
DJAR, CREATE command 63
DJAR, DISCARD command 134
DJAR, INQUIRE command 217
DJAR, PERFORM 451
DJARDIR option
INQUIRE CORBASERVER command 195
DNSGROUP option
INQUIRE TCPIPSERVICE command 346
DNSSTATUS option
INQUIRE TCPIPSERVICE command 346
SET TCPIPSERVICE command 585
DOCTEMPLATE option
INQUIRE DOCTEMPLATE command 220
DOCTEMPLATE, DISCARD command 135
DOCTEMPLATE, INQUIRE command 219
DSALIMIT option
INQUIRE SYSTEM command 321
SET SYSTEM command 575
DSANAME option
INQUIRE STORAGE command 308

DSANAME option *(continued)*
INQUIRE SUBPOOL command 312
DSNAME option
INQUIRE DOCTEMPLATE command 220
INQUIRE DSNAME command 224
INQUIRE FILE command 245
INQUIRE TDQUEUE command 353
SET DSNAME command 519
SET FILE command 533
DSNAME, INQUIRE command 222
DSNAME, SET command 516
DSRTPROGRAM option
INQUIRE SYSTEM command 321
SET SYSTEM command 575
DTIMEOUT option
INQUIRE TASK command 331
INQUIRE TRANSACTION command 392
DTRPROGRAM option
INQUIRE SYSTEM command 321
SET SYSTEM command 575
DUALCASEST option
INQUIRE TERMINAL command 365
dump data sets 229
DUMP option
PERFORM SHUTDOWN command 463
DUMP, PERFORM command 453
DUMPCODE option
PERFORM DUMP command 453
DUMPDS, INQUIRE command 229
DUMPDS, SET command 525
DUMPID option
PERFORM DUMP command 454
DUMPING option
INQUIRE SYSTEM command 321
INQUIRE TASK command 331
INQUIRE TRANSACTION command 392
SET SYSTEM command 575
SET TRANSACTION command 617
DUMPSCOPE option
INQUIRE SYSDUMPCODE command 315, 571
INQUIRE TRANDUMPCODE command 389
SET TRANDUMPCODE command 614
DURATION option
INQUIRE UOWENQ command 419
DYNAMSTATUS option
INQUIRE PROGRAM command 290

E

ECDSASIZE option
INQUIRE SYSTEM command 321
ECI value
INQUIRE TCPIPSERVICE command 347
EDSALIMIT option
INQUIRE SYSTEM command 321
SET SYSTEM command 576
EDSASIZE option
INQUIRE SYSTEM command 322
ELEMENT option
INQUIRE STORAGE command 308
ELEMENTLIST option
INQUIRE MVSTCB command 276
INQUIRE STORAGE command 308
EMPTY option
SET FILE command 534
EMPTYSTATUS option
INQUIRE FILE command 245
INQUIRE TDQUEUE command 353
SET FILE command 534
ENABLE PROGRAM command 157
conditions 161
examples for global user exits 162
examples for task-related user exits 163
ENABLED CVDA value
INQUIRE AUTOINSTALL command 172
ENABLESTATUS option
INQUIRE AUTOINSTALL command 172
INQUIRE CORBASERVER command 195
INQUIRE FILE command 245
INQUIRE HOST command 254
INQUIRE TDQUEUE command 353
INQUIRE URIMAP command 428
SET CORBASERVER command 489
SET FILE command 534
SET HOST command 542
SET TDQUEUE command 590
SET URIMAP command 627
END condition
INQUIRE HOST command 255
INQUIRE URIMAP command 430
ENDAFFINITY, PERFORM command 456
ENDOFDAY option
INQUIRE STATISTICS command 305
SET STATISTICS command 567
ENDOFDAYHRS option
INQUIRE STATISTICS command 305
SET STATISTICS command 567
ENDOFDAYMINS option
INQUIRE STATISTICS command 305
SET STATISTICS command 567
ENDOFDAYSECS option
INQUIRE STATISTICS command 305
SET STATISTICS command 567
ENDPOINT option
INQUIRE WEBSERVICE command 437
ENQ, INQUIRE command 231
ENQFAILS option
INQUIRE UOWENQ command 419
ENQMODEL option
CREATE ENQMODEL command 68
DISCARD ENQMODEL command 136
INQUIRE ENQMODEL command 232
ENQMODEL, DISCARD command 136
ENQMODEL, INQUIRE command 232
ENQNAME option
INQUIRE ENQMODEL command 232
ENQSCOPE option
INQUIRE ENQMODEL command 232
INQUIRE UOWENQ command 419
ENQUEUE option
COLLECT STATISTICS command 42

ENQUEUE option *(continued)*
PERFORM STATISTICS command 467
ENTRY option
ENABLE PROGRAM command 158
INQUIRE EXITPROGRAM command 238
ENTRYNAME option
DISABLE PROGRAM command 123
ENABLE PROGRAM command 158
EXTRACT EXIT command 164
INQUIRE EXITPROGRAM command 238
RESYNC command 472
ENTRYNAME, RESYNC command 471
ENTRYPOINT option
INQUIRE PROGRAM command 290
ERDSASIZE option
INQUIRE SYSTEM command 322
ERROROPTION option
INQUIRE TDQUEUE command 353
ESM (external security manager) 2
ESMRESP option
PERFORM SECURITY REBUILD command 461
EUDSASIZE option
INQUIRE SYSTEM command 322
Examples
using the INQUIRE BEAN command 174
using the SET PROGRAM command 565
EXCEPTCLASS option
INQUIRE MONITOR command 273
SET MONITOR command 554
EXCI option
INQUIRE EXCI command 234
EXCI, INQUIRE command 234
EXCLUSIVE option
INQUIRE FILE command 246
SET FILE command 535
EXEC CICS commands
format 2
Function codes 671
Response Codes 671
EXEC CICS CREATE
RESP2 values 681
EXEC CICS SPI commands
Threadsafe 697
EXECKEY option
INQUIRE JVM command 263
INQUIRE PROGRAM command 291
execution diagnostic facility transaction (CEDF) 1
EXECUTIONSET option
INQUIRE PROGRAM command 291
SET PROGRAM command 562
exit names 29
EXIT option
DISABLE PROGRAM command 124
ENABLE PROGRAM command 158
INQUIRE DOCTEMPLATE command 220
INQUIRE EXITPROGRAM command 238
exit-related commands 28
EXIT, EXTRACT command 164
EXITALL option
DISABLE PROGRAM command 124
EXITPGM option
INQUIRE DOCTEMPLATE command 220
EXITPROGRAM option
INQUIRE EXITPROGRAM command 238
EXITPROGRAM, INQUIRE command 236
exits
defining 28
EXITTRACING option
INQUIRE CONNECTION command 189
INQUIRE TERMINAL command 366
SET CONNECTION command 482
SET NETNAME command 557
SET TERMINAL command 595
EXTENDEDDSST option
INQUIRE TERMINAL command 366
external security manager (ESM) 2
EXTRACT EXIT command 164
conditions 165
EXTRACT STATISTICS
conditions 168
EXTRACT STATISTICS command 166

F

FACILITY option
INQUIRE TASK command 331
FACILITYLIKE option
INQUIRE TRANSACTION command 393
FACILITYTYPE option
INQUIRE TASK command 331
FEPI option
PERFORM STATISTICS command 467
FILE option
COLLECT STATISTICS command 42
CREATE FILE command 71
DISCARD FILE command 137
INQUIRE DOCTEMPLATE command 220
INQUIRE FILE command 246
INQUIRE PROCESSTYPE command 284
PERFORM STATISTICS command 467
SET FILE command 535
FILE, DISCARD command 137
FILE, INQUIRE command 242
FILE, SET command 529
FILECOUNT option
INQUIRE DSNAME command 224
FILELIMIT option
INQUIRE MONITOR command 273
filename argument, CICS command format 6
FLENGTH option
INQUIRE STORAGE command 308
INQUIRE TSQNAME command 404
INQUIRE TSQUEUE command 404
FMHPARMST option
INQUIRE TERMINAL command 366
FMHSTATUS option
INQUIRE REQID command 297
FORCECANCEL option
SET CONNECTION command 483
FORCEQR option
INQUIRE SYSTEM command 322

FORCEQR option *(continued)*
SET SYSTEM command 576
format rules 5
FORMATEDF option
DISABLE PROGRAM command 124
ENABLE PROGRAM command 158
FORMATEDFST option
INQUIRE EXITPROGRAM command 238
FORMFEEDST option
INQUIRE TERMINAL command 366
FREQUENCY option
INQUIRE MONITOR command 273
SET MONITOR command 555
FREQUENCYHRS option
INQUIRE MONITOR command 273
SET MONITOR command 555
FREQUENCYMIN option
INQUIRE MONITOR command 273
SET MONITOR command 555
FREQUENCYSEC option
INQUIRE MONITOR command 274
SET MONITOR command 555
Function codes
of EXEC CICS commands 671
function shipping, not available for SP commands 1
FWDRECOVLOG option
INQUIRE DSNAME 224
FWDRECOVLSN option
INQUIRE DSNAME 224
FWDRECSTATUS option
INQUIRE FILE command 246

G

GAENTRYNAME option
ENABLE PROGRAM command 158
INQUIRE EXITPROGRAM command 239
GALENGTH option
ENABLE PROGRAM command 159
EXTRACT EXIT command 164
INQUIRE EXITPROGRAM command 239
GARBAGEINT
CEMT INQUIRE WEB 436
SET WEB command 633
GASET option
EXTRACT EXIT command 164
GAUSECOUNT option
INQUIRE EXITPROGRAM command 239
GCHARS option
INQUIRE TERMINAL command 366
GCODES option
INQUIRE TERMINAL command 367
GMMLENGTH option
INQUIRE SYSTEM command 322
SET SYSTEM command 576
GMMTEXT option
INQUIRE SYSTEM command 322
SET SYSTEM command 576
GMMTRANID option
INQUIRE SYSTEM command 322
GRNAME option
INQUIRE CONNECTION command 189
INQUIRE VTAM command 433
GROUP option
DSNCRCT macro 503
GRPCRITICAL option
INQUIRE TCPIPSERVICE command 346
GRSTATUS option
INQUIRE VTAM command 433
GTFSTATUS option
INQUIRE TRACEDEST command 379
SET TRACEDEST command 603

H

HFORMST option
INQUIRE TERMINAL command 367
HFSFILE option
INQUIRE DOCTEMPLATE command 220
INQUIRE URIMAP command 428
HFSFILR option
INQUIRE DJAR command 217
HFSNAME option
INQUIRE JVMPROFILE command 267
HILIGHTST option
INQUIRE TERMINAL command 367
HOLDSTATUS option
INQUIRE PROGRAM command 291
HOST option
INQUIRE CORBASERVER command 196
INQUIRE HOST command 254, 542
INQUIRE UOWLINK command 424
INQUIRE URIMAP command 428
HOSTCODEPAGE option
INQUIRE URIMAP command 428
HOURS option
INQUIRE REQID command 298
HTTP value
INQUIRE TCPIPSERVICE command 347

I

IDENTIFIER option
INQUIRE TASK command 332
IDLIST option
RESYNC command 472
IDLISTLENGTH option
RESYNC command 472
IGNORE (null values) 14
IIOP value
INQUIRE TCPIPSERVICE command 347
ILLOGIC condition
INQUIRE HOST command 255
INQUIRE URIMAP command 430
IMMCLOSE value
SET TCPIP command 584
SET TCPIPSERVICE command 586
IMMCLOSING value
INQUIRE TCPIP command 342
INQUIRE TCPIPSERVICE command 347

IMMEDIATE option
PERFORM SHUTDOWN command 463
INDIRECTNAME option
INQUIRE TDQUEUE command 353
INDOUBT option
INQUIRE TASK command 332
INQUIRE TDQUEUE command 354
INQUIRE TRANSACTION command 393
INDOUBTMINS option
INQUIRE TASK command 332
INQUIRE TRANSACTION command 393
INDOUBTST option
INQUIRE EXITPROGRAM command 239
INDOUBTWAIT option
ENABLE PROGRAM command 159
INQUIRE TDQUEUE command 354
INQUIRE TRANSACTION command 332, 393
INITIALDDS option
INQUIRE DUMPDS command 229
SET DUMPDS command 525
INITIALIZE option
PERFORM CLASSCACHE command 444
INITSTATUS option
INQUIRE SYSTEM command 322
INQUIRE and SET commands
examples
Assembler 11
C 10
COBOL 10
PL/I 10
null values 14
INQUIRE AUTINSTMODEL command 170
conditions 170
INQUIRE AUTOINSTALL command 171
conditions 172
INQUIRE BEAN command 173
conditions 173
INQUIRE BRFACILITY command 175
conditions 177
INQUIRE CFDTPOOL command 178
INQUIRE CLASSCACHE command 180
conditions 182
INQUIRE command, browse
conditions 23
INQUIRE commands
AUTINSTMODEL 170
AUTOINSTALL 171
BEAN 173
BRFACILITY 175
CFDTPOOL 178
CLASSCACHE 180
CONNECTION 183
CORBASERVER 194
DB2CONN 197
DB2ENTRY 205
DB2TRAN 210
DELETSHIPPED 212
DISPATCHER 214
DJAR 217
DOCTEMPLATE 219
DSNAME 222
INQUIRE commands *(continued)*
DUMPDS 229
ENQ 231
ENQMODEL 232
EXCI 234
EXITPROGRAM 236
FILE 242
IRC 256
JOURNALNUM 261
JVM 262
JVMPOOL 265
JVMPROFILE 267
MODENAME 269
MONITOR 272
MVSTCB 276
NETNAME 278
PARTNER 280
PIPELINE 282
PROCESSTYPE 284, 559
PROFILE 286
PROGRAM 287
REQID 296
STATISTICS 304
STORAGE 307
SUBPOOL 312
SYSDUMPCODE 314
SYSTEM 317
TASK 328
TASK LIST 339
TCLASS 341
TCPIP 342
TCPIPSERVICE 344
TDQUEUE 350
TERMINAL 358
TRACEDEST 378
TRACEFLAG 381
TRACETYPE 383
TRANCLASS 386
TRANDUMPCODE 388
TRANSACTION 391
TSMODEL 399
TSPOOL 401
TSQUEUE 403
UOW 407
UOWDSNFAIL 412
UOWENQ 417
UOWLINK 423
VOLUME 432
VTAM 433
WEB 436
WORKREQUEST 440
INQUIRE CONNECTION command 183
conditions 193
INQUIRE CORBASERVER command 194
conditions 196, 218
INQUIRE DB2CONN command 197
conditions 204
INQUIRE DB2ENTRY command 205
conditions 208
INQUIRE DB2TRAN command 210
conditions 211

INQUIRE DELETSHIPPED command 212
conditions 213
INQUIRE DISPATCHER command 214
conditions 216
INQUIRE DJAR command 217
INQUIRE DOCTEMPLATE command 219
conditions 221
INQUIRE DSNAME command 222
conditions 227, 416
INQUIRE DUMPDS command 229
INQUIRE ENQ command 231
INQUIRE ENQMODEL command 232
conditions 233
INQUIRE EXCI command 234
conditions 234
INQUIRE EXITPROGRAM command 236
conditions 241
INQUIRE FILE command 242
INQUIRE HOST command 254
conditions 255
INQUIRE IRC command 256
conditions 256
INQUIRE JOURNALMODEL command 257
conditions 258
INQUIRE JOURNALNAME command 259
conditions 260
INQUIRE JOURNALNUM command 261
INQUIRE JVM command 262
conditions 264, 268
INQUIRE JVMPOOL command 265
conditions 266
INQUIRE JVMPROFILE command 267
INQUIRE MODENAME command 269
conditions 270, 311
INQUIRE MONITOR command 272
conditions 275
INQUIRE MVSTCB command 276
conditions 277
INQUIRE NETNAME command 278
INQUIRE PARTNER command 280
conditions 281
INQUIRE PIPELINE command 282
conditions 283
INQUIRE PROCESSTYPE command 284
conditions 285, 560
INQUIRE PROFILE command 286
conditions 286
PROFILE 286
INQUIRE PROGRAM command 287
conditions 294
INQUIRE REQID command 296
conditions 299
INQUIRE REQUESTMODEL command 301
conditions 302
INQUIRE rrms command
conditions 303
INQUIRE RRMS command 303
INQUIRE STATISTICS command 304
conditions 306
INQUIRE STORAGE command 307
conditions 309
INQUIRE STREAMNAME command 310
INQUIRE SUBPOOL command
conditions 313
SUBPOOL 312
INQUIRE SYSDUMPCODE command 314
conditions 316
INQUIRE SYSTEM command 317
conditions 327
INQUIRE TASK command 328
conditions 338
INQUIRE TASK LIST command 339
conditions 340
INQUIRE TCLASS command 341
conditions 341
INQUIRE TCPIP command 342
conditions 343
INQUIRE TCPIPSERVICE 346
INQUIRE TCPIPSERVICE command 344
conditions 348
INQUIRE TDQUEUE command 350
conditions 357
INQUIRE TERMINAL command 358
conditions 376
INQUIRE TRACEDEST command 378
conditions 380
INQUIRE TRACEFLAG command 381
conditions 382
INQUIRE TRACETYPE command 383
conditions 385
INQUIRE TRANCLASS command 386
conditions 387
INQUIRE TRANDUMPCODE command 388
conditions 390
INQUIRE TRANSACTION command 391
conditions 398
INQUIRE TSMODEL command 399
conditions 400
INQUIRE TSPOOL command 401
conditions 401
INQUIRE TSQNAME command 403
conditions 405
INQUIRE TSQUEUE command
conditions 405
TSQNAME 403
INQUIRE UOW command 407
conditions 411
INQUIRE UOWDSNFAIL command 412
INQUIRE UOWENQ command 417
conditions 422
INQUIRE UOWLINK command 423
conditions 425
INQUIRE URIMAP command 427
conditions 430
INQUIRE VOLUME command 432
conditions 432
INQUIRE VTAM command 433
conditions 435
INQUIRE WEB command
conditions 436
INQUIRE WEBSERVICE command 437
conditions 439

INQUIRE WORKREQUEST command
conditions 442
WORKREQUEST 440
inquiry commands 19
integer-expr argument, CICS command format 6
INTERFACE option
INQUIRE REQUESTMODEL command 301
INTERVAL option
INQUIRE REQID command 298
INQUIRE STATISTICS command 305
SET STATISTICS command 568
INTERVALHRS option
INQUIRE STATISTICS command 305
SET STATISTICS command 568
INTERVALMINS option
INQUIRE STATISTICS command 305
SET STATISTICS command 568
INTERVALSECS option
INQUIRE STATISTICS command 305
SET STATISTICS command 568
INTFACETYPE option
INQUIRE REQUESTMODEL command 301
INTSTATUS option
INQUIRE TRACEDEST command 379
SET TRACEDEST command 603
INVREQ condition
DISCARD URIMAP command 155
INQUIRE HOST command 255
SET URIMAP command 628
SET WEBSERVICE command 634
IOTYPE option
INQUIRE TDQUEUE command 354
IRC, INQUIRE command 256
IRC, SET command 544
ISOLATEST option
INQUIRE TASK command 333
INQUIRE TRANSACTION command 394

J

JNDIPREFIX option
INQUIRE CORBASERVER command 196
JOBNAME option
INQUIRE SYSTEM command 323
JOURNALMODEL option
CREATE JOURNALMODEL command 73
JOURNALMODEL, CREATE command 72
JOURNALMODEL, DISCARD command 138
JOURNALMODEL, INQUIRE command 257
JOURNALNAME option
COLLECT STATISTICS command 42
PERFORM STATISTICS command 467
JOURNALNAME, DISCARD command 139
JOURNALNAME, INQUIRE command 259
JOURNALNAME, SET command 546
JOURNALNUM option
COLLECT STATISTICS command 42
INQUIRE FILE command 246
PERFORM STATISTICS command 468
JOURNALNUM, INQUIRE command 261
JOURNALNUM, SET command 548
JVM, INQUIRE command 262
JVMCLASS option
INQUIRE PROGRAM command 291
SET PROGRAM command 562
JVMDEBUG option
INQUIRE PROGRAM command 291
JVMLVLnTRACE option
INQUIRE JVMPOOL command 265
SET JVMPOOL command 549
JVMPOOL option
COLLECT STATISTICS command 43
PERFORM STATISTICS command 468
JVMPOOL, INQUIRE command 265
JVMPOOL, SET command 549
JVMPROFILE option
COLLECT STATISTICS command 43
INQUIRE PROGRAM command 291
PERFORM STATISTICS command 468
SET PROGRAM command 562
JVMPROFILE, INQUIRE command 267
JVMPROGRAM option
COLLECT STATISTICS command 43
PERFORM STATISTICS command 468
JVMUSERTRACE option
INQUIRE JVMPOOL command 265
SET JVMPOOL command 549

K

KATAKANAST option
INQUIRE TERMINAL command 367
KEEPTIME option
INQUIRE BRFACILITY command 175
KEYLENGTH option
INQUIRE FILE command 247
SET FILE command 535
KEYPOSITION option
INQUIRE FILE command 247

L

label argument, CICS command format 6
LANGDEDUCED option
INQUIRE PROGRAM command 291
LANGUAGE option
INQUIRE PROGRAM command 292
LASTMODTIME option
INQUIRE DJAR command 217
INQUIRE WEBSERVICE command 438
LASTRESET option
COLLECT STATISTICS command 43
EXTRACT STATISTICS command 167
LASTRESETHRS option
COLLECT STATISTICS command 43
EXTRACT STATISTICS command 168
LASTRESETMIN option
COLLECT STATISTICS command 43
EXTRACT STATISTICS command 168
LASTRESETSEC option
COLLECT STATISTICS command 43
EXTRACT STATISTICS command 168

LASTUSEDINT option
INQUIRE TSQNAME command 404
INQUIRE TSQUEUE command 404
LENGTH option
default (PL/I) 11
INQUIRE PROGRAM command 292
INQUIRE REQID command 298
LENGTHLIST option
INQUIRE MVSTCB command 276
INQUIRE STORAGE command 308
LIGHTPENST option
INQUIRE TERMINAL command 367
LINK option
INQUIRE UOW command 408
INQUIRE UOWLINK command 424
LINKEDITMODE option
ENABLE PROGRAM command 159
LINKSYSNET option
INQUIRE BRFACILITY command 176
LINKSYSTEM option
INQUIRE BRFACILITY command 176
INQUIRE CONNECTION command 190
INQUIRE TERMINAL command 367
LISTENERPORT option
INQUIRE WORKREQUEST command 441
LISTSIZE option
INQUIRE TASK LIST command 339
literal constants 13
LOADPOINT option
INQUIRE PROGRAM command 292
LOADTYPE option
INQUIRE FILE command 247
SET FILE command 535
LOCATION option
INQUIRE TSQNAME command 404
INQUIRE TSQUEUE command 404
INQUIRE URIMAP command 429
SET URIMAP command 627
LOG CVDA value
CREATE CONNECTION command 50
CREATE CORBASERVER command 53
CREATE DB2CONN command 56
CREATE DB2ENTRY command 59
CREATE DB2TRAN command 62
CREATE DOCTEMLATE command 66
CREATE ENQMODEL command 68
CREATE FILE command 71
CREATE JOURNALMODEL command 73
CREATE LSRPOOL command 75
CREATE MAPSET command 78
CREATE PARTITIONSET command 80
CREATE PARTNER command 82
CREATE PROCESSTYPE command 86
CREATE PROFILE command 88
CREATE PROGRAM command 90
CREATE REQUESTMODEL command 93
CREATE SESSIONS command 95
CREATE TCPIPSERVICE command 98
CREATE TDQUEUE command 102
CREATE TERMINAL command 106
CREATE TRANCLASS command 108
LOG CVDA value *(continued)*
CREATE TRANSACTION command 110
CREATE TSMODEL command 113
CREATE TYPETERM command 116
CREATE URIMAP command 119
LOGDEFER option
INQUIRE SYSTEM command 323
SET SYSTEM command 576
LOSTLOCKS option
INQUIRE DSNAME 225
LPASTATUS option
INQUIRE PROGRAM command 293
LSRPOOL option
COLLECT STATISTICS command 43
CREATE LSRPOOL command 75
PERFORM STATISTICS command 468
LSRPOOL, CREATE command 74
LSRPOOLID option
INQUIRE FILE command 248
SET FILE command 535

M

MAPNAME option
INQUIRE TERMINAL command 367
SET TERMINAL command 595
MAPSET option
CREATE MAPSET command 78
MAPSET, CREATE command 77
MAPSETNAME option
INQUIRE TERMINAL command 368
SET TERMINAL command 595
MAXACTIVE option
INQUIRE TRANCLASS command 386
SET TRANCLASS command 611
MAXDATALEN option
INQUIRE TCPIPSERVICE command 347
SET TCPIPSERVICE command 586
MAXIMUM option
INQUIRE MODENAME command 270
INQUIRE SYSDUMPCODE command 315
INQUIRE TCLASS command 341
INQUIRE TRANDUMPCODE command 389
SET SYSDUMPCODE command 571
SET TCLASS command 582
SET TRANDUMPCODE command 614
MAXITEMLEN option
INQUIRE TSQNAME command 404
INQUIRE TSQUEUE command 404
MAXJVMTCBS option
INQUIRE DISPATCHER command 215
SET DISPATCHER command 513
MAXNUMRECS option
INQUIRE FILE command 248
SET FILE command 535
MAXOPENTCBS option
INQUIRE DISPATCHER command 215
INQUIRE SYSTEM command 323
SET DISPATCHER command 513
SET SYSTEM command 576

MAXREQS option
INQUIRE AUTOINSTALL command 172
SET AUTOINSTALL command 474
MAXSOCKETS option
INQUIRE TCPIP command 342
SET SYSTEM command 583
MAXSSLTCBS option
INQUIRE DISPATCHER command 215
SET DISPATCHER command 514
MAXTASKS option
INQUIRE SYSTEM command 323
SET SYSTEM command 577
MAXWINNERS option
INQUIRE MODENAME command 270
MAXXPTCBS option
INQUIRE DISPATCHER command 215
SET DISPATCHER command 514
MEDIATYPE option
INQUIRE URIMAP command 429
MEMBER option
INQUIRE DOCTEMPLATE command 220
INQUIRE TDQUEUE command 355
MEMBERNAME option
INQUIRE CONNECTION command 190
MINITEMLEN option
INQUIRE TSQNAME command 404
INQUIRE TSQUEUE command 404
MINUTES option
INQUIRE REQID command 298
MODENAME option
INQUIRE MODENAME command 270
INQUIRE TERMINAL command 368
SET MODENAME command 552
MODENAME, INQUIRE command 269
MODENAME, SET command 551
MODULE option
INQUIRE REQUESTMODEL command 302
MONITOR option
COLLECT STATISTICS command 43
PERFORM STATISTICS command 468
MONITOR, INQUIRE command 272
MONITOR, SET command 553
MROBATCH option
INQUIRE DISPATCHER command 216
INQUIRE SYSTEM command 323
SET DISPATCHER command 514
SET SYSTEM command 577
MSRCONTROLST option
INQUIRE TERMINAL command 368
MVSTCB option
INQUIRE MVSTCB command 276
MVSTCB, INQUIRE command 276

N

name argument, CICS command format 6
NAMESPACE option
INQUIRE BRFACILITY command 176
NATLANG option
INQUIRE TERMINAL command 368
NATURE option
INQUIRE TERMINAL command 368
NETID option
PERFORM ENDAFFINITY command 456
NETNAME option
INQUIRE BRFACILITY command 176
INQUIRE CONNECTION command 190
INQUIRE PARTNER command 280
INQUIRE TERMINAL command 369
INQUIRE UOW command 408
PERFORM ENDAFFINITY command 456
SET NETNAME command 557
NETNAME, INQUIRE command 278
NETNAME, SET command 557
NETUOWID option
INQUIRE UOW command 408
INQUIRE UOWENQ command 419
INQUIRE UOWLINK command 424
NETWORK option
INQUIRE PARTNER command 280
NEWMAXSOCKETS option
SET SYSTEM command 583
NEWMAXTASKS option
SET SYSTEM command 577
NEXTTIME option
INQUIRE STATISTICS command 305
NEXTTIMEHRS option
INQUIRE STATISTICS command 305
NEXTTIMEMINS option
INQUIRE STATISTICS command 305
NEXTTIMESECS option
INQUIRE STATISTICS command 306
NEXTTRANSID option
INQUIRE TERMINAL command 369
SET TERMINAL command 596
NODE TARGET option
COLLECT STATISTICS command 45
NOHANDLE
option 3, 15
NOLOG CVDA value
CREATE CONNECTION command 50
CREATE CORBASERVER command 53
CREATE DB2CONN command 56
CREATE DB2ENTRY command 59
CREATE DB2TRAN command 62
CREATE DOCTEMLATE command 66
CREATE ENQMODEL command 68
CREATE FILE command 71
CREATE JOURNALMODEL command 73
CREATE LSRPOOL command 75
CREATE MAPSET command 78
CREATE PARTITIONSET command 80
CREATE PARTNER command 82
CREATE PROCESSTYPE command 86
CREATE PROFILE command 88
CREATE PROGRAM command 90
CREATE REQUESTMODEL command 93
CREATE SESSIONS command 95
CREATE TCPIPSERVICE command 98
CREATE TDQUEUE command 102
CREATE TERMINAL command 106

NOLOG CVDA value *(continued)*
CREATE TRANCLASS command 108
CREATE TRANSACTION command 110
CREATE TSMODEL command 113
CREATE TYPETERM command 116
CREATE URIMAP command 119
NONCRITICAL value 346
NOQUEUE option
ACQUIRE TERMINAL command 36
NORESTART option
PERFORM SHUTDOWN command 463
NOSDTRAN option
PERFORM SHUTDOWN command 464
NOSSL value
INQUIRE TCPIPSERVICE command 348
NOTAPPLIC 14
NOTAPPLIC value 346
NOTAUTH condition 16
DISCARD URIMAP command 155
INQUIRE HOST command 255
INQUIRE URIMAP command 431
INQUIRE WEBSERVICE command 439
SET HOST command 543
SET URIMAP command 628
SET WEBSERVICE command 634
NOTFND condition
DISCARD URIMAP command 155
INQUIRE HOST command 255
INQUIRE URIMAP command 431
INQUIRE WEBSERVICE command 439
SET HOST command 543
SET URIMAP command 628
SET WEBSERVICE command 634
NOTSUPPORTED value
INQUIRE TCPIPSERVICE command 347
NQNAME option
INQUIRE CONNECTION command 190
INQUIRE TERMINAL command 369
null values 14
NUMCIPHER option
INQUIRE CORBASERVER command 196
INQUIRE TCPIPSERVICE command 347
NUMCIPHERS option
INQUIRE URIMAP command 429
NUMELEMENTS option
INQUIRE MVSTCB command 276
INQUIRE STORAGE command 308
NUMEXITS option
INQUIRE EXITPROGRAM command 239
NUMITEMS option
INQUIRE TDQUEUE command 355
INQUIRE TSQNAME command 405
INQUIRE TSQUEUE command 405

O

OAPPLID option
INQUIRE WORKREQUEST command 441
OBFORMATST option
INQUIRE TERMINAL 596
INQUIRE TERMINAL command 370
OBJECT option
INQUIRE DSNAME command 225
INQUIRE FILE command 248
OBOPERIDST option
INQUIRE TERMINAL command 370
OLDCACHES option
INQUIRE CLASSCACHE command 181
OPEN value
INQUIRE TCPIP command 342
INQUIRE TCPIPSERVICE command 347
SET TCPIP command 583
SET TCPIPSERVICE command 586
OPENSTATUS option
INQUIRE DUMPDS command 229
INQUIRE FILE command 248
INQUIRE IRC command 256
INQUIRE RRMS command 303
INQUIRE TCPIP command 342
INQUIRE TDQUEUE command 355
INQUIRE VTAM command 434
SET DUMPDS command 525
SET FILE command 536
SET IRC command 544
SET TCPIP command 583
SET TCPIPSERVICE command 586
SET TDQUEUE command 590
SET VTAM command 630
OPERATION option
INQUIRE REQUESTMODEL command 302
OPERID option
INQUIRE TERMINAL command 370
SET TERMINAL command 596
OPID
option of DSNCRCT macro 199, 504
OPREL option
INQUIRE SYSTEM command 323
OPSYS option
INQUIRE SYSTEM command 323
OSLEVEL
CEMT INQUIRE SYSTEM 323
OTASK option
INQUIRE WORKREQUEST command 441
OTRANSID option
INQUIRE WORKREQUEST command 441
OTSTID option
INQUIRE UOW command 408
OTSTIMEOUT option
INQUIRE TRANSACTION command 394, 618
OUTLINEST option
INQUIRE TERMINAL command 370
OUTPRIVACY option
INQUIRE CORBASERVER command 196

P

PAGEHT option
INQUIRE TERMINAL command 370
PAGESTATUS option
INQUIRE TERMINAL command 370
SET TERMINAL command 596

PAGEWD option
INQUIRE TERMINAL command 370
PARTIAL option
RESYNC command 472
PARTITIONSET option
CREATE PARTITIONSET command 80
PARTITIONSET, CREATE command 79
PARTITIONSST option
INQUIRE TERMINAL command 371
PARTNER option
CREATE PARTNER command 82
DISCARD PARTNER command 141
INQUIRE PARTNER command 280
PARTNER, CREATE command 81
PARTNER, DISCARD command 141
PARTNER, INQUIRE command 280
PATH option
INQUIRE URIMAP command 429
PDSMEMBER option
INQUIRE DOCTEMPLATE command 220
PENDSTATUS option
INQUIRE CONNECTION command 190
SET CONNECTION command 482
PERFCLASS option
INQUIRE MONITOR command 274
SET MONITOR command 555
PERFORM CLASSCACHE command 443
conditions 445
PERFORM commands
CLASSCACHE 443
DELETSHIPPED 450
DUMP 453
ENDAFFINITY 456
RESETTIME 460
SECURITY REBUILD 461
SHUTDOWN 463
STATISTICS RECORD 466
PERFORM CORBASERVER 447
PERFORM CORBASERVER command
conditions 448
PERFORM DELETSHIPPED command 450
PERFORM DJAR 451
PERFORM DJAR command
conditions 451
PERFORM DUMP command 453
conditions 454
PERFORM ENDAFFINITY command 456
conditions 456
PERFORM PIPELINE 458
PERFORM PIPELINE command
conditions 458
PERFORM RESETTIME command 460
conditions 460
PERFORM SECURITY REBUILD command 461
conditions 461
PERFORM SHUTDOWN command 463
conditions 464
PERFORM STATISTICS RECORD command 466
conditions 469
PGMINTERFACE option
INQUIRE WEBSERVICE command 438
PHASINGOUT option
INQUIRE CLASSCACHE command 181
INQUIRE JVMPOOL command 265
PHASINGOUTST option
INQUIRE JVM command 263
PIPELINE CVDA value
EXTRACT STATISTICS command 168
PIPELINE option
CREATE PIPELINE command 84
INQUIRE URIMAP command 429
INQUIRE WEBSERVICE command 438
PERFORM PIPELINE command 458
PERFORM STATISTICS command 468
PIPELINE, CREATE command 83
PIPELINE, DISCARD command 142
PIPELINE, INQUIRE command 282
PIPELINE, PERFORM 458
PIPELINE, SET command 558
PL/I language
argument values 12
LENGTH option default 11
PLT option
PERFORM SHUTDOWN command 464
pointer arguments 8
pointer-ref argument, CICS command format 6
pointer-value argument, CICS command format 6
POOL option
COLLECT STATISTICS command 44
POOL TARGET option
COLLECT STATISTICS command 44
POOLNAME option
INQUIRE TSQNAME command 405
INQUIRE TSQUEUE command 405
PORT option
INQUIRE TCPIPSERVICE command 347
PRINTADAPTST option
INQUIRE TERMINAL command 371
PRINTCONTROL option
INQUIRE TDQUEUE command 355
PRINTER option
INQUIRE TERMINAL command 371
SET TERMINAL command 596
PRIORITY option
INQUIRE TASK command 333
INQUIRE TRANSACTION command 394
SET TASK command 580
SET TRANSACTION command 618
PRIVACY option
INQUIRE TCPIPSERVICE command 347
PROCESS option
INQUIRE TASK command 333
PROCESSTYPE option
CREATE PROCESSTYPE command 86
INQUIRE PROCESSTYPE command 285, 560
INQUIRE TASK command 333
PROCESSTYPE, CREATE command 85
PROCESSTYPE, DISCARD command 143
PROCESSTYPE, INQUIRE command 284
PROCESSTYPE, SET command 559
PROFILE option
CREATE PROFILE command 88

PROFILE option *(continued)*
DISCARD PROFILE command 144
INQUIRE CLASSCACHE command 181
INQUIRE JVM command 263
INQUIRE PARTNER command 280
INQUIRE PROFILE command 286
INQUIRE TASK command 333
INQUIRE TRANSACTION command 394
PERFORM CLASSCACHE command 444
PROFILE, DISCARD command 144
PROFILE, INQUIRE command 286
PROGAUTO option
COLLECT STATISTICS command 44
PERFORM STATISTICS command 468
PROGAUTOCTLG option
INQUIRE SYSTEM command 324
SET SYSTEM command 577
PROGAUTOEXIT option
INQUIRE SYSTEM command 324
SET SYSTEM command 577
PROGAUTOINST option
INQUIRE SYSTEM command 324
SET SYSTEM command 578
PROGRAM option
COLLECT STATISTICS command 44
CREATE PROGRAM command 90
DISABLE PROGRAM command 124
DISCARD PROGRAM command 145
ENABLE PROGRAM command 160
EXTRACT EXIT command 165
INQUIRE AUTOINSTALL command 172
INQUIRE DOCTEMPLATE command 220
INQUIRE PROGRAM command 293
INQUIRE TASK command 333
INQUIRE TRANSACTION command 394
INQUIRE URIMAP command 429
INQUIRE WEBSERVICE command 438
PERFORM STATISTICS command 468
SET AUTOINSTALL command 475
SET PROGRAM command 563
PROGRAM, CREATE command 89
PROGRAM, DISABLE command 123
PROGRAM, DISCARD command 145
PROGRAM, ENABLE command 157
PROGRAM, INQUIRE command 287
PROGRAM, SET command 561
PROGSYMBOLST option
INQUIRE TERMINAL command 371
PROGTYPE option
INQUIRE PROGRAM command 293
PROTOCOL option
INQUIRE CONNECTION command 191
INQUIRE TCPIPSERVICE command 347
INQUIRE UOWLINK command 424
PRTCOPYST option
INQUIRE TERMINAL command 371
SET TERMINAL command 596
PRTYAGING option
INQUIRE DISPATCHER command 216
INQUIRE SYSTEM command 324
SET DISPATCHER command 514
PRTYAGING option *(continued)*
SET SYSTEM command 578
PSDINTERVAL option
INQUIRE VTAM command 434
SET VTAM 631
PSDINTHRS option
INQUIRE VTAM command 435
SET VTAM 631
PSDINTMINS option
INQUIRE VTAM command 435
SET VTAM 632
PSDINTSECS option
INQUIRE VTAM command 435
SET VTAM 632
PURGEABILITY option
INQUIRE TASK command 333
INQUIRE TRANSACTION command 394
SET TRANSACTION command 618
PURGEABLE option
DISABLE PROGRAM command 124
PURGEABLEST option
INQUIRE EXITPROGRAM command 239
PURGETHRESH option
INQUIRE TRANCLASS command 386
SET TRANCLASS command 611
PURGETYPE option
SET CONNECTION command 483
SET TASK command 580
SET TERMINAL command 597
SET WORKREQUEST command 635

Q

QALL option
ACQUIRE TERMINAL command 36
QNOTETAB option
ACQUIRE TERMINAL command 36
QSESSLIM option
ACQUIRE TERMINAL command 36
QUALIFIER option
INQUIRE EXITPROGRAM command 240
RESYNC command 473
QUALLEN option
INQUIRE UOWENQ command 420
QUERY SECURITY command 18
QUERYST option
INQUIRE TERMINAL command 371
QUEUE option
INQUIRE REQID command 298
QUEUED option
INQUIRE TRANCLASS command 386
QUIESCESTATE option
INQUIRE DSNAME 225

R

RACF (resource access control facility) 2
RDSASIZE option
INQUIRE SYSTEM command 324
READ option
INQUIRE FILE command 249

READ option *(continued)*
SET FILE command 536
READINTEG option
INQUIRE FILE command 249
SET FILE command 536
RECEIVECOUNT option
INQUIRE CONNECTION command 191
RECORDFORMAT option
INQUIRE FILE command 250
INQUIRE TDQUEUE command 355
RECORDING option
INQUIRE STATISTICS command 306
SET STATISTICS command 568
RECORDLENGTH option
INQUIRE TDQUEUE command 355
RECORDNOW option
SET STATISTICS command 568
RECORDSIZE option
INQUIRE FILE command 250
SET FILE command 537
RECOVERY option
PERFORM STATISTICS command 468
RECOVSTATUS option
INQUIRE CONNECTION command 191
INQUIRE DSNAME command 226
INQUIRE FILE command 250
INQUIRE TDQUEUE command 356
INQUIRE TSQNAME command 405
INQUIRE TSQUEUE command 405
SET CONNECTION command 484
REDIRECTTYPE option
INQUIRE URIMAP command 430
SET URIMAP command 627
REENTPROTECT option
INQUIRE SYSTEM command 324
REGERROR value 346
REGISTERED value 346
RELATION option
INQUIRE UOWENQ command 420
RELEASE option
INQUIRE SYSTEM command 325
RELOAD option
PERFORM CLASSCACHE command 444
relocatable expression 13
RELREQ option
ACQUIRE TERMINAL command 36
RELREQST option
INQUIRE TERMINAL command 372
SET TERMINAL command 597
RELTYPE option
INQUIRE FILE command 250
remote definition, not retrievable or updateable 1
REMOTENAME option
INQUIRE CONNECTION command 192
INQUIRE FILE command 251
INQUIRE PROGRAM command 293
INQUIRE TASK command 333
INQUIRE TDQUEUE command 356
INQUIRE TERMINAL command 372
INQUIRE TRANSACTION command 394
REMOTESYSNET option
INQUIRE BRFACILITY command 176
INQUIRE CONNECTION command 192
INQUIRE TERMINAL command 372
REMOTESYSTEM option
INQUIRE BRFACILITY command 176
INQUIRE CONNECTION command 192
INQUIRE FILE command 251
INQUIRE PROGRAM command 293
INQUIRE TASK command 334
INQUIRE TDQUEUE command 356
INQUIRE TERMINAL command 372
INQUIRE TRANSACTION command 395
REMOTETABLE option
INQUIRE FILE command 251
removing 517
REQID option
INQUIRE REQID command 298
REQID, INQUIRE command 296
REQTYPE option
INQUIRE REQID command 298
REQUESTID option
INQUIRE WORKREQUEST command 441
REQUESTMODEL option
CREATE REQUESTMODEL command 93
PERFORM STATISTICS command 468
REQUESTMODEL, CREATE command 92
REQUESTMODEL, DISCARD command 146
REQUESTMODEL, INQUIRE command 301
REQUIRED value
INQUIRE TCPIPSERVICE command 347
RESCOUNT option
INQUIRE PROGRAM command 293
RESETNOW option
PERFORM STATISTICS command 468
SET STATISTICS command 568
RESETTIME, PERFORM command 460
RESLEN option
INQUIRE UOWENQ command 420
RESNAME option
INQUIRE TASK command 334
resource access control facility (RACF) 2
RESOURCE option
INQUIRE UOWENQ command 420
resource security checking 17
resources
class (ESM) 16
RESP and RESP2 options
values returned 16
RESP options 15
RESP2
option 15
RESP2 options 15
RESP2 values
EXEC CICS CREATE 681
Response Codes
of EXEC CICS commands 671
RESRCECLASS option
INQUIRE MONITOR command 274
SET MONITOR command 555

RESSEC option
INQUIRE TASK command 334
INQUIRE TRANSACTION command 395
RESTYPE option
EXTRACT STATISTICS command 168
RESYNC command
ENTRYNAME 472
IDLIST 472
IDLISTLENGTH 472
PARTIAL 472
QUALIFIER 473
RESYNC ENTRYNAME command 471
conditions 473
RESYNCSTATUS option
INQUIRE UOWLINK command 424
RETLOCKS option
INQUIRE DSNAME 226
REUSEST option
INQUIRE CLASSCACHE command 181
INQUIRE JVM command 263, 268
REWIND option
INQUIRE TDQUEUE command 356
RLSACCESS option
INQUIRE FILE command 251
SET FILE command 537
RMIQFY option
INQUIRE UOWLINK command 425
RMIST option
INQUIRE MONITOR command 274
ROLE option
INQUIRE UOWLINK command 425
ROUTESTATUS option
INQUIRE TRANSACTION command 395
ROUTING option
INQUIRE TASK command 334
INQUIRE TRANSACTION command 395
RRMS, INQUIRE command 303
RTERMID option
INQUIRE REQID command 298
RTIMEOUT option
INQUIRE TASK command 334
INQUIRE TRANSACTION command 395
RTRANSID option
INQUIRE REQID command 298
rules for browsing 23
RUNAWAY option
INQUIRE DISPATCHER command 216
INQUIRE SYSTEM command 325
INQUIRE TASK command 335
INQUIRE TRANSACTION command 395
SET DISPATCHER command 514
SET SYSTEM command 578
SET TRANSACTION command 618
RUNAWAYTYPE option
INQUIRE TRANSACTION command 396
SET TRANSACTION command 618
RUNNING option
INQUIRE TASK LIST command 339
RUNSTATUS option
INQUIRE TASK command 335
RUNTIME option
INQUIRE PROGRAM command 293
SET PROGRAM command 563

S

SCANDELAY option
INQUIRE DISPATCHER command 216
INQUIRE SYSTEM command 325
SET DISPATCHER command 514
SET SYSTEM command 578
SCHEME option
INQUIRE URIMAP command 429
SCRNHT option
INQUIRE TERMINAL command 372
SCRNSIZE option
INQUIRE TASK command 335
INQUIRE TRANSACTION command 396
SCRNWD option
INQUIRE TERMINAL command 372
SDSASIZE option
INQUIRE SYSTEM command 325
SDTRAN option
INQUIRE SYSTEM command 325
PERFORM SHUTDOWN command 464
SECONDS option
INQUIRE REQID command 299
security 19
command 16
NOTAUTH condition 16
QUERY SECURITY command 18
resource security checking 16
security checking by ESM 16
security check failures 16
security checking
command 16
resource 17
surrogate 16
transaction 16
SECURITY option
INQUIRE TERMINAL command 372
SECURITY REBUILD, PERFORM command 461
SECURITYMGR option
INQUIRE SYSTEM command 325
SENDCOUNT option
INQUIRE CONNECTION command 192
SERVICE option
INQUIRE TCPIPSERVICE command 347
SERVSTATUS option
INQUIRE CONNECTION command 192
INQUIRE TERMINAL command 372
SET CONNECTION command 484
SET TERMINAL command 598
SESSBEANTIME option
INQUIRE CORBASERVER command 196
SET CORBASERVER command 490
SESSIONS option
CREATE SESSIONS command 95
SESSIONTYPE option
INQUIRE TERMINAL command 373
SET AUTOINSTALL command 474

SET AUTOINSTALL command *(continued)*
conditions 475
SET BRFACILITY command 476
conditions 476
SET CLASSCACHE command 478
conditions 479
SET commands 23
AUTOINSTALL 474
BRFACILITY 476
CLASSCACHE 478
CONNECTION 480
CORBASERVER 489
DB2CONN 492
DB2ENTRY 502
DB2TRAN 508
DELETSHIPPED 510
DISPATCHER 513
DSNAME 516
DUMPDS 525
FILE 529
IRC 544
JOURNALNUM 548
MODENAME 551
MONITOR 553
NETNAME 557
PIPELINE 558
PROGRAM 561
STATISTICS 566
SYSDUMPCODE 570
SYSTEM 574
TASK 580
TCLASS 582
TCPIP 583
TCPIPSERVICE 585
TDQUEUE 588
TERMINAL 593
TRACEDEST 602
TRACEFLAG 606
TRACETYPE 608
TRANCLASS 611
TRANDUMPCODE 613
TRANSACTION 617
UOWLINK 625
VOLUME 629
VTAM 630
SET CONNECTION command 480
conditions 486
SET CORBASERVER command 489
conditions 490
SET DB2CONN command 492
conditions 499
SET DB2ENTRY command 502
conditions 506
SET DB2TRAN command 508
conditions 508
SET DELETSHIPPED command 510
conditions 511
SET DISPATCHER command 513
conditions 515
SET DSNAME command 516
conditions 521
SET DUMPDS command 525
conditions 526
SET ENQMODEL command 527
conditions 527
SET FILE command 529
conditions 538
SET HOST command 542
conditions 543
SET IRC command 544
conditions 544
SET JOURNALNAME command 546
conditions 547
SET JOURNALNUM command 548
SET JVMPOOL command 549
conditions 550
SET MODENAME command 551
conditions 552
SET MONITOR command 553
conditions 556
SET NETNAME command 557
conditions 557
SET option
COLLECT STATISTICS command 44
EXTRACT STATISTICS command 168
INQUIRE REQID command 299
INQUIRE TASK LIST command 339
SET PIPELINE command 558
conditions 558
SET PROCESSTYPE command 559
SET PROGRAM command 561
conditions 564
SET STATISTICS command 566
conditions 568
SET SYSDUMPCODE command 570
conditions 572
SET SYSTEM command 574
conditions 578
SET TASK command 580
conditions 581
SET TCLASS command 582
conditions 582
SET TCPIP command 583
conditions 584
SET TCPIPSERVICE command 585
conditions 586
SET TDQUEUE command 588
conditions 591
SET TERMINAL command 593
conditions 600
SET TRACEDEST command 602
conditions 604
SET TRACEFLAG command 606
conditions 607
SET TRACETYPE command 608
conditions 610
SET TRANCLASS command 611
conditions 612
SET TRANDUMPCODE command 613
conditions 615
SET TRANSACTION command 617
conditions 619

SET TSQNAME command 621
conditions 621
SET TSQUEUE command 621
conditions 621
SET UOW command 623
conditions 623
SET UOWLINK command 625
conditions 625
SET URIMAP command 627
conditions 628
SET VOLUME command 629
conditions 629
SET VTAM command 630
conditions 632
SET WEBSERVICE command 634
conditions 634
SET WORKREQUEST command 635
conditions 636
SETTRANSID option
INQUIRE TASK LIST command 339
SHARESTATUS option
INQUIRE PROGRAM command 294
SET PROGRAM command 563
SHELF option
INQUIRE CORBASERVER command 196
SHUTDOWN option
DISABLE PROGRAM command 124
ENABLE PROGRAM command 160
INQUIRE TRANSACTION command 396
SET TRANSACTION command 618
SHUTDOWN, PERFORM command 463
SHUTDOWNST option
INQUIRE EXITPROGRAM command 240
SHUTOPTION option
INQUIRE SYSDUMPCODE command 315
INQUIRE TRANDUMPCODE command 389
SET SYSDUMPCODE command 571
SET TRANDUMPCODE command 614
SHUTSTATUS option
INQUIRE SYSTEM command 326
SIGNID option of DSNCRCT macro 200, 206
SIGNONSTATUS option
INQUIRE TERMINAL command 373
SINGLESTATUS option
INQUIRE TRACEFLAG command 381
SET TRACEFLAG command 606
SOCKETCLOSE option
INQUIRE TCPIPSERVICE command 348
SOSIST option
INQUIRE TERMINAL command 373
SOSSTATUS option
INQUIRE SYSTEM command 326
SPECIAL option
INQUIRE TRACETYPE command 385
SET TRACETYPE command 610
SPI option
DISABLE PROGRAM command 124
ENABLE PROGRAM command 160
SPIST option
INQUIRE EXITPROGRAM command 240
SSL option
PERFORM CORBASERVER command 447
PERFORM DJAR command 451
SSL value
INQUIRE TCPIPSERVICE command 348
SSLCACHE option
INQUIRE TCPIP command 342
SSLTYPE option
INQUIRE TCPIPSERVICE command 348
SSLUNAUTH option
INQUIRE CORBASERVER command 196
STACK option
INQUIRE WORKREQUEST command 441
STANDARD option
INQUIRE TRACETYPE command 385
SET TRACETYPE command 610
START option
ENABLE PROGRAM command 160
PERFORM CLASSCACHE command 444
STARTCODE option
INQUIRE TASK command 335
starting a browse 21
STARTSTATUS option
INQUIRE EXITPROGRAM command 240
STARTTIME option
INQUIRE CLASSCACHE command 181
STARTUP option
INQUIRE SYSTEM command 326
STARTUPDATE option
INQUIRE SYSTEM command 326
STATE option
INQUIRE DJAR command 218
INQUIRE UOWENQ command 420
INQUIRE WEBSERVICE command 438
STATISTICS RECORD, PERFORM command 466
STATISTICS, COLLECT command 38
STATISTICS, EXTRACT command 166
STATISTICS, INQUIRE command 304
STATISTICS, SET command 566
STATS option
COLLECT STATISTICS command 44
PERFORM STATISTICS command 468
STATUS option
INQUIRE CLASSCACHE command 181
INQUIRE ENQMODEL command 232
INQUIRE JVMPOOL command 265
INQUIRE MONITOR command 274
INQUIRE PROCESSTYPE command 285, 560
INQUIRE PROGRAM command 294
INQUIRE TCPIPSERVICE command 347
INQUIRE TRANSACTION command 396
SET JVMPOOL command 549
SET MONITOR command 556
SET PROGRAM command 563
SET TRANSACTION command 619
STOP option
DISABLE PROGRAM command 124
STORAGE option
COLLECT STATISTICS command 44
PERFORM STATISTICS command 468
STORAGE, INQUIRE command 307

STORAGECLEAR option
INQUIRE TASK command 336
INQUIRE TRANSACTION command 396
STOREPROTECT option
INQUIRE SYSTEM command 327
STREAMNAME option
PERFORM STATISTICS command 468
STREAMNAME, INQUIRE command 310
STRINGS option
INQUIRE FILE command 251
SET FILE command 537
SUBPOOL option
COLLECT STATISTICS command 44
INQUIRE SUBPOOL command 312
SUBPOOL, INQUIRE command 312
SUBPOOLLIST option
INQUIRE MVSTCB command 277
SUBSYSTEMID option
INQUIRE MONITOR command 274
SUBTASKS option
INQUIRE DISPATCHER command 216
SUPPORTED value
INQUIRE TCPIPSERVICE command 347
surrogate security checking 16
SUSPENDED option
INQUIRE TASK LIST command 340
SUSPENDTIME option
INQUIRE TASK command 336
SUSPENDTYPE option
INQUIRE TASK command 336
SUSPENDVALUE option
INQUIRE TASK command 336
SWITCHACTION option
SET TRACEDEST command 603
SWITCHSTATUS option
INQUIRE DUMPDS command 229
INQUIRE TRACEDEST command 379
SET DUMPDS command 526
SET TRACEDEST command 603
SYNCPOINTST option
INQUIRE MONITOR command 274
SET MONITOR command 556
syntax notation 3
SYSDUMP option
PERFORM STATISTICS command 468
SYSDUMPCODE option
COLLECT STATISTICS command 45
SET SYSDUMPCODE command 572
SYSDUMPCODE, INQUIRE command 314
SYSDUMPCODE, SET command 570
SYSDUMPING option
INQUIRE SYSDUMPCODE command 315
INQUIRE TRANDUMPCODE command 389
SET SYSDUMPCODE command 572
SET TRANDUMPCODE command 614
SYSEIB
option 3
SYSID option
INQUIRE TSQNAME command 405
INQUIRE TSQUEUE command 405
INQUIRE UOW command 409
SYSID option *(continued)*
INQUIRE UOWLINK command 425
SYSOUTCLASS option
INQUIRE TDQUEUE command 356
SYSPLEX value
INQUIRE TCPIP command 343
system connections 128, 142, 150, 156, 183
system programming commands 1
inquiry 19
SYSTEM, INQUIRE command 317
SYSTEM, SET command 574
systemname argument, CICS command format 6
SYSTEMSTATUS option
INQUIRE TRACEFLAG command 381
SET TRACEFLAG command 606

T

TABLE option
INQUIRE FILE command 251
SET FILE command 537
TABLEMGR option
COLLECT STATISTICS command 45
PERFORM STATISTICS command 469
TABLENAME option
INQUIRE FILE command 251
SET FILE command 538
TABLESIZE option
INQUIRE TRACEDEST command 380
SET TRACEDEST command 604
TAKEOVER option
PERFORM SHUTDOWN command 464
TALENGTH option
ENABLE PROGRAM command 161
INQUIRE EXITPROGRAM command 240
TARGET NODE option
COLLECT STATISTICS command 45
TASK LIST, INQUIRE command 339
TASK option
INQUIRE EXCI command 234
INQUIRE JVM command 264
INQUIRE STORAGE command 308
INQUIRE UOW command 409
INQUIRE WORKREQUEST command 441
SET TASK command 581
task-related user exits, restart resynchronization 471
TASK, INQUIRE command 328
TASK, SET command 580
TASKDATAKEY option
INQUIRE TASK command 336
INQUIRE TRANSACTION command 396
TASKDATALOC option
INQUIRE TASK command 337
INQUIRE TRANSACTION command 397
TASKID option
INQUIRE BRFACILITY command 176
INQUIRE TERMINAL command 373
INQUIRE UOWENQ command 420
TASKSTART option
DISABLE PROGRAM command 125
ENABLE PROGRAM command 161

TASKSTARTST option
INQUIRE EXITPROGRAM command 241
TASKSUBPOOL option
COLLECT STATISTICS command 45
TCAMCONTROL option
INQUIRE TERMINAL command 373
SET TERMINAL command 598
TCB option
INQUIRE TASK command 337
TCEXITSTATUS option
INQUIRE TRACEFLAG command 382
SET TRACEFLAG command 607
TCLASS option
COLLECT STATISTICS command 45
INQUIRE TASK command 337
INQUIRE TRANSACTION command 397
PERFORM STATISTICS command 469
SET TRANSACTION command 619
TCLASS, INQUIRE command 341
TCLASS, SET command 582
TCPIP option
COLLECT STATISTICS command 45
PERFORM STATISTICS command 469
TCPIP, INQUIRE command 342
TCPIP, SET command 583
TCPIPSERVICE option
COLLECT STATISTICS command 45
CREATE TCPIPSERVICE command 98
INQUIRE TCPIPSERVICE command 348
INQUIRE URIMAP command 255, 429
PERFORM STATISTICS command 469
TCPIPSERVICE, DISCARD command 147
TCPIPSERVICE, INQUIRE command 344
TCPIPSERVICE, SET command 585
TDQ option
INQUIRE DOCTEMPLATE command 220
TDQUEUE option
COLLECT STATISTICS command 45
CREATE TDQUEUE command 102
DISCARD TDQUEUE command 148
INQUIRE DOCTEMPLATE command 220
INQUIRE TDQUEUE command 356
PERFORM STATISTICS command 469
SET TDQUEUE command 590
TDQUEUE, DISCARD command 148
TDQUEUE, INQUIRE command 350
TDQUEUE, SET command 588
TEMPLATENAME option
INQUIRE DOCTEMPLATE command 220
INQUIRE URIMAP command 429
TEMPLATETYPE option
INQUIRE DOCTEMPLATE command 220
TERM option
DSNCRCT macro 200, 206, 494, 504
TERMID option
INQUIRE BRFACILITY command 176
INQUIRE REQID command 299
INQUIRE UOW command 409
TERMINAL option
ACQUIRE TERMINAL command 36
COLLECT STATISTICS command 45
TERMINAL option *(continued)*
CREATE TERMINAL command 106
INQUIRE TERMINAL command 374
PERFORM STATISTICS command 469
SET TERMINAL command 598
TERMINAL, ACQUIRE command 35
TERMINAL, CREATE command 104
TERMINAL, DISCARD command 150
TERMINAL, INQUIRE command 358
TERMINAL, SET command 593
TERMINATE option
PERFORM CLASSCACHE command 445
TERMINATION option
SET JVMPOOL command 549
TERMMODEL option
INQUIRE TERMINAL command 374
TERMPRIORITY option
INQUIRE TERMINAL command 374
SET TERMINAL command 598
TERMSTATUS option
INQUIRE BRFACILITY command 176
INQUIRE TERMINAL command 374
SET BRFACILITY command 476
SET TERMINAL command 598
TEXTKYBDST option
INQUIRE TERMINAL command 374
TEXTPRINTST option
INQUIRE TERMINAL command 374
Threadsafe
EXEC CICS SPI commands 697
TIME option
INQUIRE DISPATCHER command 216
INQUIRE MONITOR command 275
INQUIRE REQID command 299
INQUIRE SYSTEM command 327
SET DISPATCHER command 514
SET SYSTEM command 578
timeout delete mechanism 212
TIMEOUT value
INQUIRE TCPIPSERVICE command 348
TIMEOUTINT
CEMT INQUIRE WEB 436
SET WEB 633
TITLE option
PERFORM DUMP command 454
TITLELENGTH option
PERFORM DUMP command 454
TOTAL option
INQUIRE JVMPOOL command 266
TOTALJVMS option
INQUIRE CLASSCACHE command 182
TPNAME option
INQUIRE PARTNER command 280
TPNAMELEN option
INQUIRE PARTNER command 280
TRACEDEST, INQUIRE command 378
TRACEDEST, SET command 602
TRACEFLAG, INQUIRE command 381
TRACEFLAG, SET command 606
TRACETYPE, INQUIRE command 383
TRACETYPE, SET command 608

TRACING option
INQUIRE TASK command 337
INQUIRE TERMINAL command 374
INQUIRE TRANSACTION command 397
SET TERMINAL command 599
SET TRANSACTION command 619
TRANCLASS option
COLLECT STATISTICS command 45
CREATE TRANCLASS command 108
DISCARD TRANCLASS command 152
INQUIRE TASK command 338
INQUIRE TRANCLASS command 386
INQUIRE TRANSACTION command 397
PERFORM STATISTICS command 469
SET TRANCLASS command 612
SET TRANSACTION command 619
TRANCLASS, CREATE command 107
TRANCLASS, DISCARD command 152
TRANCLASS, INQUIRE command 386
TRANCLASS, SET command 611
TRANDUMP
PERFORM STATISTICS command 469
TRANDUMPCODE option
COLLECT STATISTICS command 45
INQUIRE TRANDUMPCODE command 390
SET TRANDUMPCODE command 615
TRANDUMPCODE, INQUIRE command 388
TRANDUMPCODE, SET command 613
TRANDUMPING option
INQUIRE TRANDUMPCODE command 390
SET TRANDUMPCODE command 615
TRANISOLATE option
INQUIRE SYSTEM command 327
TRANPRIORITY option
INQUIRE TASK command 338
TRANSACTION option
COLLECT STATISTICS command 45
CREATE TRANSACTION command 110
DISCARD TRANSACTION command 153
INQUIRE BRFACILITY command 177
INQUIRE TASK command 338
INQUIRE TERMINAL command 375
INQUIRE TRANSACTION command 397
INQUIRE URIMAP command 429
PERFORM STATISTICS command 469
SET TRANSACTION command 619
transaction security checking 16
TRANSACTION, DISCARD command 153
TRANSACTION, INQUIRE command 391
TRANSACTION, SET command 617
TRANSID option
INQUIRE PROGRAM command 294
INQUIRE REQID command 299
INQUIRE REQUESTMODEL command 302
INQUIRE TCPIPSERVICE command 348
INQUIRE TSQNAME command 405
INQUIRE TSQUEUE command 405
INQUIRE UOW command 409
INQUIRE UOWENQ command 420
INQUIRE WORKREQUEST command 441
translator 1
TRIGGERLEVEL option
INQUIRE TDQUEUE command 356
SET TDQUEUE command 590
TRPROF option
INQUIRE TASK command 338
INQUIRE TRANSACTION command 398
TSMODEL option
CREATE TSMODEL command 113
DISCARD TSMODEL command 154
TSMODEL, DISCARD command 154
TSMODEL, INQUIRE command 399
TSPOOL option
INQUIRE TSPOOL command 401
TSPOOL, INQUIRE command 401
TSQ option
INQUIRE DOCTEMPLATE command 220
TSQNAME
INQUIRE TSQNAME command 405
TSQNAME, INQUIRE command 403
TSQPREFIX option
INQUIRE TCPIPSERVICE command 348
TSQUEUE
INQUIRE TSQUEUE command 405
TSQUEUE option
COLLECT STATISTICS command 45
INQUIRE DOCTEMPLATE command 220
PERFORM STATISTICS command 469
TSQUEUE, INQUIRE command 403
TSQUEUELIMIT option
INQUIRE MONITOR command 275
TSYSTEM option
INQUIRE WORKREQUEST command 441
TTISTATUS option
INQUIRE TERMINAL command 375
SET TERMINAL command 599
TWAIT option of DSNCRCT macro
TYPE=ENTRY macro 499
TWASIZE option
INQUIRE TASK command 338
INQUIRE TRANSACTION command 398
TX
option of DSNCRCT macro 199
TX option of DSNCRCT macro 494
TXID option of DSNCRCT macro 200, 207, 504
TYPE option
INQUIRE DOCTEMPLATE command 221
INQUIRE FILE command 252
INQUIRE REQUESTMODEL command 302
INQUIRE TDQUEUE command 356
INQUIRE UOWENQ command 420
INQUIRE UOWLINK command 425
TYPETERM option
CREATE TYPETERM command 116
TYPETERM, CREATE command 114

U

UCTRANST option
INQUIRE TERMINAL command 375
SET TERMINAL command 599

UDSASIZE option
INQUIRE SYSTEM command 327
UNAUTH option
INQUIRE CORBASERVER command 196
UNAVAILABLE value 346
UNREGISTERED value 346
UOW option
INQUIRE TASK command 338
INQUIRE UOW command 409
INQUIRE UOWENQ command 422
INQUIRE UOWLINK command 425
UOW, INQUIRE command 407
UOWACTION option
SET CONNECTION command 485
UOWDSNFAIL, INQUIRE command 412
UOWENQ, INQUIRE command 417
UOWLINK option
INQUIRE UOWLINK command 425
SET UOWLINK command 625
UOWLINK, INQUIRE command 423
UOWSTATE option
INQUIRE UOW command 409
UPDATE option
INQUIRE FILE command 252
SET FILE command 538
UPDATEMODEL option
INQUIRE FILE command 252
SET FILE command 538
URID option
INQUIRE EXCI command 234
INQUIRE UOWLINK command 425
URIMAP CVDA value
EXTRACT STATISTICS command 168
URIMAP option
CREATE URIMAP command 119
DISCARD URIMAP command 155
INQUIRE URIMAP command 427
INQUIRE WEBSERVICE command 439
PERFORM STATISTICS command 469
URIMAP, CREATE command 118
URM option
INQUIRE TCPIPSERVICE command 348
SET TCPIPSERVICE command 586
USAGE option
INQUIRE URIMAP command 430
USECOUNT option
INQUIRE EXITPROGRAM command 241
INQUIRE PROGRAM command 294
USER
option of DSNCRCT macro 207
USER value
INQUIRE TCPIPSERVICE command 347
USERAREA option
INQUIRE TERMINAL command 375
USERAREALEN option
INQUIRE TERMINAL command 375
USERDATA option
ACQUIRE TERMINAL command 36
USERDATALEN option
ACQUIRE TERMINAL command 36
USERID
option of DSNCRCT macro 199
USERID option
INQUIRE BRFACILITY command 177
INQUIRE REQID command 299
INQUIRE TASK command 338
INQUIRE TERMINAL command 376
INQUIRE URIMAP command 430
USERID option of DSNCRCT macro 207, 504
USERNAME option
INQUIRE TERMINAL command 376
USERSTATUS option
INQUIRE TRACEFLAG command 382
SET TRACEFLAG command 607

V

VALIDATIONST option
INQUIRE TERMINAL command 376
INQUIRE WEBSERVICE command 439, 634
VALIDITY option
INQUIRE DSNAME command 227
VERSION option
SET PROGRAM command 563
VFORMST option
INQUIRE TERMINAL command 376
VOLUME, INQUIRE command 432
VOLUME, SET command 629
VTAM option
COLLECT STATISTICS command 45
PERFORM STATISTICS command 469
VTAM, INQUIRE command 433
VTAM, SET command 630

W

WAIT value
INQUIRE TCPIPSERVICE command 348
WAITCAUSE option
INQUIRE UOW command 409
WAITSTATE option
INQUIRE UOW command 410
Web support
INQUIRE transaction 436
SET command 633
WEB 633
WEBSERVICE CVDA value
EXTRACT STATISTICS command 168
WEBSERVICE option
CREATE WEBSERVICE command 122
INQUIRE URIMAP command 430
INQUIRE WEBSERVICE command 439, 634
PERFORM STATISTICS command 469
WEBSERVICE, CREATE command 121
WEBSERVICE, DISCARD command 156
where-clause, CICS command format 6
WORKREQUEST option
INQUIRE WORKREQUEST command 442
WORKREQUEST, INQUIRE command 440
WORKTYPE option
INQUIRE WORKREQUEST command 442

WORKTYPE option *(continued)*
SET WORKREQUEST command 636
WSBIND option
INQUIRE WEBSERVICE command 439
WSDLFILE option
INQUIRE WEBSERVICE command 439

X

XLNSTATUS option
INQUIRE CONNECTION command 192
XLT option
PERFORM SHUTDOWN command 464
XRFSTATUS option
INQUIRE SYSTEM command 327

Z

ZCPTRACING option
INQUIRE CONNECTION command 193
INQUIRE TERMINAL command 376
SET CONNECTION command 486
SET TERMINAL command 600

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