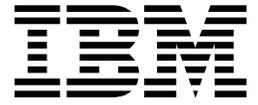Network Control Program
System Support Program
Emulation Program

IBM

Messages and Codes

Network Control Program
System Support Program
Emulation Program

Messages and Codes

IBM

> **Note**
>
> Before using this document, read the general information under "Notices" on page vii.

Nineth Edition (June 2001)

This revision is LOOKAT-enabled, and obsoletes, SC31-6222-07.

This edition applies to:

    Advanced Communications Function/Network Control Program (ACF/NCP) Version 8 Release 1 (program number 5648-063)

    Advanced Communications Function/System Support Programs (ACF/SSP) Version 4 Release 8 for MVS (program number 5655-041)

    Advanced Communications Function/System Support Programs (ACF/SSP) Version 4 Release 8 for VM (program number 5654-009)

    Advanced Communications Function/System Support Programs (ACF/SSP) Version 4 Release 8 for VSE (program number 5686-064)

    Emulation Program for IBM Communication Controllers Release 14 (program number 5735-XXB)

and to all subsequent releases and modifications until otherwise indicated in new editions or technical newsletters. See "What Is New in This Book" for the changes made to this manual. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change. Make sure you are using the correct edition for the level of the product.

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About This Book

This book documents messages and codes for Advanced Communications Function for Network Control Program (NCP), System Support Programs (SSP), and Emulation Program (EP). It contains the messages issued by the SSP utilities associated with NCP, the sense codes issued by NCP, and the abend codes issued by NCP, SSP, and the Controller Load and Dump program (CLDP). The only messages and codes you receive are those issued by the NCP, SSP, and EP releases that are installed in your communication controllers.

Who Should Use This Book

This book is for system programmers and program support personnel who are responsible for debugging problems in NCP, SSP, and EP for the IBM 3720, 3725, and 3745 Communication Controllers.

Before using this book, you should be familiar with the concepts and terminology contained in:

- *Planning for NetView, NCP, and VTAM*
- *NCP, SSP, and EP Resource Definition Guide* and
- *NCP, SSP, and EP Resource Definition Reference*.

How to Use This Book

This book is a reference volume of messages and abend codes issued by NCP, SSP, and EP.

See Chapter 1 to find out how to locate message codes and to understand formats used in message descriptions. Chapter 1 also lists all the messages issued by SSP utilities. The messages are listed in alphanumeric order.

See Chapter 2 for a table of NCP sense codes, which lists commands, causes, and issuing modules for each hexadecimal sense code.

See Chapter 3 to find the types of errors SSP detects and their corresponding abend codes.

Terms Used in This Book

The following descriptions explain how terms are used in the NCP, SSP, and EP library.

MVS, VM, and VSE

The term *MVS* means MVS/ESA or OS/390. The term *VM* means the VM/ESA system in the CMS environment. The term *VSE* means the VSE/ESA system. If information is applicable to only one system, the specific system name is used.

Virtual Telecommunications Access Method (VTAM)

The term *VTAM* means either VTAM or OS/390 SNA Services, in other words, any of the following:

- VTAM for MVS/ESA, VM/ESA, or VSE/ESA

- The SNA Services feature of eNetwork Communications Server for OS/390

- The SNA Services feature of SecureWay Communications Server for OS/390

Port and Channel with LPDA

In discussions concerning Link Problem Determination Aid (LPDA) for multiport and data multiplex mode (DMPX) modems, the terms *port* and *channel* are synonymous. Although *port* is the more commonly used term, *channel* can be used in sections describing LPDA.

IBM Special Products or User-Written Code

This book sometimes refers to *IBM special products or user-written code*. This phrase means IBM special products such as Network Terminal Option (NTO), Network Routing Facility (NRF), and X.25 NCP Packet Switching Interface (NPSI), or user-written code.

IBM 3745 Communication Controller Model Numbers

In this book, the term *IBM 3745 Communication Controller* refers to all IBM 3745 models. When particular models are discussed, the appropriate model numbers are specified. Model numbers include IBM 3745-130, 3745-150, 3745-160, 3745-170, 3745-17A, 3745-210, 3745-21A, 3745-310, 3745-31A, 3745-410, 3745-41A, 3745-610, and 3745-61A.

CSS, 37CS, and 3746 Model 900

The terms *connectivity subsystem (CSS)* and *37CS* refer to the 3746 Model 900 connectivity subsystem, an expansion frame that extends the connectivity and enhances the performance of the IBM 3745 Communication Controller.

Token Ring

NCP can connect to an IBM Token-Ring Network using the NCP/Token-Ring interconnection (NTRI) or the 3746 Model 900 connectivity subsystem attachment. This book uses the term *token ring* when referring to either type of connection.

Frame Relay

To support frame-relay networks, NCP can use a transmission subsystem (TSS) or high performance transmission subsystem (HPTSS) adapter on the 3745, or NCP can use a communication line processor (CLP) adapter on the 3746 Model 900 connectivity subsystem. Unless otherwise stated, this book uses the term *frame relay* when referring to a 3745 or a 3746 Model 900 connection.

What Is New in This Book

This edition contains messages and sense code supporting the new and enhanced functions of NCP V7R8 and SSP V4R8, as well as editorial and technical changes. A vertical bar (|) in the left margin identifies the new or changed technical information.

Where to Find More Information

A good place to start any task, or review the latest enhancements, is the *NCP V8R1, SSP V4R8, and EP R14 Library Directory*. The *Library Directory* presents an overview of NCP, SSP, EP, and related network products. It summarizes the NCP, SSP, EP library changes for the current release, and directs you to information on a variety of network tasks in the NCP and VTAM libraries. When using the online book, *hypertext links*[1] allow you to move directly from task and enhancement descriptions to the appropriate chapter of other books in the library.

---

[1] A *hypertext link* is a pointer from a location in an online book to another location in the same book or another book. By selecting highlighted information, such as a message number, you can move quickly to related information and, if desired, back again.

Information For NCP Tasks

The books in the NCP, SSP, and EP hardcopy library are listed below according to task, along with closely related books and tools you might find helpful. See "Bibliography" on page X-5 for a brief summary of each book in the NCP, SSP, and EP library and listings of related publications.

Table   0-1. Sources of Information by Task for NCP V7R8

Order No.	Title	Hardcopy	Softcopy
Planning			
SC31-8063	*Planning for NetView, NCP, and VTAM*		▪
SC31-8062	*Planning for Integrated Networks*		▪
SC30-4025	*NCP V8R1, SSP V4R8, and EP R14 Library Directory*	▪	▪
SC30-3470	*NCP Version 7 and X.25 NPSI Version 3 Planning and Installation*	▪	▪
Installation and Resource Definition			
SC31-6221	*NCP, SSP, and EP Generation and Loading Guide*	▪	▪
SC30-4024	*NCP V8R1 Migration Guide*	▪	▪
SC31-6223	*NCP, SSP, and EP Resource Definition Guide*	▪	▪
SC31-6224	*NCP, SSP, and EP Resource Definition Reference*	▪	▪
Customization			
LY43-0031	*NCP and SSP Customization Guide*		▪
LY43-0032	*NCP and SSP Customization Reference*	▪	▪
Operation			
SC31-6222	*NCP, SSP, and EP Messages and Codes*	▪	▪
Diagnosis			
LY43-0033	*NCP, SSP, and EP Diagnosis Guide*	▪	▪
LY43-0037	*NCP, SSP, and EP Trace Analysis Handbook*	▪	▪
LY43-0029	*NCP and EP Reference*	▪	▪
LY43-0030	*NCP and EP Reference Summary and Data Areas*	▪	▪
LY30-5610	*NCP Version 7 and X.25 NPSI Version 3 Diagnosis, Customization, and Tuning*	▪	▪
Monitoring and Tuning			
SC31-6266	*NTuneMON User's Guide*	▪	▪
LY43-0039	*NTuneNCP Feature Reference*	▪	▪

Those publications available as softcopy books have cross-document search and hypertext links for speedy, online information retrieval. These softcopy books are grouped together on an electronic bookshelf as part of the *ACF/NCP, ACF/SSP, EP, NPSI, and NTuneMON Softcopy Collection Kit*, LK2T-0414, on compact disc read-only memory (CD-ROM).

You can view and search these softcopy books by using BookManager READ products or by using the IBM Library Reader product included on the CD-ROM. For more information on CD-ROMs and softcopy books, see the *IBM Online Libraries: Softcopy Collection Kit User's Guide*, the BookManager READ documentation, or the BookManager home page at:

`http://booksrv2.raleigh.ibm.com`

You can also access unlicensed softcopy NCP publications in Acrobat or BookManager formats from the NCP home page at:

`http://www.networking.ibm.com/ncp`

Chapter 1. SSP Messages

This chapter contains the messages issued by System Support Programs (SSP) utilities associated with the Network Control Program (NCP). The messages are listed in alphabetical order.

The following table shows the prefixes of the messages documented in this chapter and the utilities that issue these messages:

Table 1-1. Message Prefixes and Issuing Utilities

Message Prefix	Issuing Utilities
BAL	X.25 NCP Packet-Switching Interface (NPSI) program. See *X.25 NCP Packet Switching Interface Planning and Installation*.
CWA, IFZ, IHR	The communication controller assembler program.
DSJ, F6	Trace analysis program (ACF/TAP). MVS and VM use the prefix DSJ for these messages. VSE uses the prefix F6. These messages are alphabetized under DSJ in this book.
ICN	NCP/EP definition facility (NDF).
IFL, IFU, IFW	The independent loader utility, provided as an NCP system service program under MVS and VM.
	The dynamic dump utility, provided as an NCP system service program under MVS and VSE (emulation mode only).
	The independent loader utility, provided as an NCP system service program under VSE.
	The independent dump utility, provided as an NCP system service program under MVS, VM, and VSE.
	The configuration report program utility, provided as an NCP system service program under MVS, VM, and VSE.
IFV	The dynamic dump utility, provided as an NCP system service program.

Message Formats

All messages in this chapter have the same general format, with the exception of the severity code sections. Table 1-2 shows the format used by each of the utilities to display or print a message.   Table 1-3 explains each part of the message. Each part is presented as it appears in the utility-generated reports.

Table 1-2. Message Formats

Utility	Message Format and Explanation
NDF	*zzz* ICN*nnnx ss* ----- text -----
IHR	IHRnnn ***zzz*** ----- text -----
All other utilities	DSJnnn ----- text -----

Table 1-3 (Page 1 of 2). Explanation of Message Components

Message Format	Explanation
zzz	Severity level. Indicates the degree of severity in words instead of numbers. Severity levels are *info*, *warning*, *error*, *ten*, *severe*, and *fatal*.
ICN, IHR, DSJ	Message prefix. Identifies the program generating the message.
nnn	Message number.

Table 1-3 (Page 2 of 2). Explanation of Message Components

Message Format	Explanation
x	Message type character.
	I indicates an information-only message. No response by the operator is required. However, a programmer response may be required.
	E indicates an error condition message. Operator response is probably required.
ss	Severity code. Indicates the seriousness of the error. See the explanation of severity codes under "Assembler Utility Severity Codes" on page 1-3 for the meaning of the various severity codes.
-----text-----	Message text explaining the error.

Message Descriptions

Each message description includes some or all of the following sections:

- Message Number and Text
- Issued By
- Explanation
- Trace Type
- System Action
- Programmer Response
- Operator Response
- Attention
- Severity Code.

Note: The abbreviations used in the message descriptions and their meanings can be found in "List of Abbreviations" on page X-1.

Message Number and Text

Only the message number and the major fixed portion of the message text are shown on your screen. Variable elements such as severity messages and severity codes are not included.

Variable information, such as offsets or procedure names, is included in the general form *aaa, bbb, xxxxxxx*, and so on.

Abend codes do not have any accompanying message text. The number is followed immediately by the explanation.

Most abbreviations in the message texts are spelled out in the message descriptions.

Gaps in message number sequences are caused by unused message numbers.

When all messages in a group contain the same description, each message includes a reference to the last message in the group, which contains the full description of the message. For example, messages DSJ050I through DSJ078I show only the message number and text, and refer to message DSJ079I, which contains the complete message description.

Issued By

This part of the message description gives the name of the routine that issues the message.

Explanation

This part of the message description explains the meaning of the message and gives more detail than the message text.

Trace Type

Some DSJ messages have different forms depending upon which trace type ACF/TAP was processing. Trace type indicates which type of trace uses a particular form of the message.

System Action

This part of the message description explains the result of the error and how the system or appropriate utility handles it.

Programmer Response

When possible, this part of the message description gives specific instructions for fixing the error. However, in many cases the problem has too many causes to allow specific instructions. In these cases, you are instructed to correct the error and, if necessary, rerun the job.

Operator Response

This part of the message is included when the error requires operator intervention. This part usually gives specific instructions on how to respond to the error.

Attention

This section describes an error in the table source code generated by NDF, and advises you to consult your IBM representative for further instructions.

Severity Code

The severity code indicates the seriousness of the error. The method of indicating severity codes differs between NDF and the other utilities. NDF uses severity messages, while the other utilities use numeric severity codes.

Assembler Utility Severity Codes

Code	Meaning
0	No errors were detected. This is an informational message only.
4	Minor errors were detected. Your program probably will run correctly.
8	Major errors were detected. Your program probably will not run.
12	Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.
16	Critical errors were detected. Notify your IBM representative for assistance.
20	An I/O error from which the system could not recover occurred during assembly, or data sets are missing.

Dumper Formatter Severity Codes

Code	Meaning
0	No errors were detected. Dump completed successfully.
4	DASD input/output error was detected. A partial dump is produced.
8	IBM 37xx input/output error was detected. A partial dump is produced.
12	Serious DASD input/output errors were detected. The dump is not usable.
16	Critical errors were detected. Notify your IBM representative for assistance.
20	An input/output error from which the system could not recover occurred; SYSOUT DD statement is missing.

CRP Severity Codes

Code	Meaning
4	A minor error was detected; processing continues.
8	An error was detected; processing does not continue.
16	There was a problem coding the *REPORT control statement.
255	An input/output error occurred; the processing abends.

NDF Severity Messages

Message	Code	Meaning
Info	0	This is an information-only message. No programmer response is required.
Warning	4	An error has occurred for which NDF has taken corrective action by assuming a default keyword value or by ignoring the value supplied. The generation process stops immediately after validation of the generation definition.
Error	8	A user error has occurred for which NDF cannot assume a value or ignore the value supplied. The generation process stops immediately after validation of the generation definition.
Ten	10	A fatal user error has been detected. The generation process stops immediately.
Severe	12	A system error has occurred. NDF produces a procedure traceback. The generation process stops immediately after validation of the generation definition.
Fatal	16	A fatal system error has occurred. A procedure traceback is printed and the generation process stops immediately.

NDF Overall Return Codes

NDF produces an overall return code for the NDF step. NDF prints this return code as part of the return code summary section of the NDF report and denotes the NDF phase where an error was encountered. For instance, a return code of 4 or greater for the generation validation phase would result in an overall return code of 1 (input validation error) for that NDF step. The following table lists the overall return code values and meanings. For more information see *NCP, SSP, and EP Generation and Loading Guide*.

Note: Leading zeros are suppressed.

Value	Meaning
1	Input validation error
10	Table 1 error
100	Table 2 error
1000	Printer file error

CWA Messages

CWA000   UNDEFINED ERROR CODE IFOxxx

Issued by: CWAX1A

Explanation: An error code has been generated by the assembler for which no message has been defined. This is caused by a logical error in the assembler.

System Action: Assembly continues.

Programmer Response: Save all input and output and notify your IBM representative.

Severity Code: 16. Critical errors were detected. Notify your IBM representative for assistance.

CWA001   SYSTEM VARIABLE SYMBOL xxxxxxxx USED AS SYMBOLIC PARAMETER IN MACRO PROTOTYPE

Issued by: CWAX1J

Explanation: A symbolic parameter on a macro prototype statement contains a variable symbol that has the same characters as a system variable symbol. The system variable symbols are:

```
    &SYSECT       &SYSPARM
    &SYSLIST      &SYSTIME
    &SYSNDX       &SYSDATE
```

System Action: Editing of the macro definition stops immediately. All statements in the macro definition are processed as comments.

Programmer Response: Redefine the parameter with a variable symbol other than &SYSECT, &SYSLIST, &SYSNDX, &SYSPARM, &SYSTIME, or &SYSDATE.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA002   SYMBOLIC PARAMETER xxxxxxxx IS DUPLICATED IN SAME MACRO PROTOTYPE

Issued by: CWAX1J

Explanation: The name field of a macro prototype statement contains duplicate symbolic parameters when there can only be one or none. The macro prototype statement defines the mnemonic operation code of the macro.

System Action: Editing of the macro definition stops immediately. All statements in the macro definition are processed as comments.

Programmer Response: Redefine one of the symbolic parameters with a variable symbol that is unique to that particular macro definition.

The correct form of the prototype statement is:

```
Symbolic  Mnemonic   Keyword
Parameter Op Code    Parameters

 &NAME       MOVE     &TO,&FROM   Example prototype statement
```

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA003   SYSTEM VARIABLE SYMBOL xxxxxxxx USED IN OPERAND OF GLOBAL OR LOCAL DECLARATION

Issued by: CWAX1J

Explanation: The operand of a global or local declaration contains a symbol that has the same characters as a system variable symbol. The system variable symbols are:

```
    &SYSECT       &SYSPARM
    &SYSLIST      &SYSTIME
    &SYSNDX       &SYSDATE
```

System Action: The declaration conflicting with the system variable symbol is ignored. All subsequent references to the variable symbol in error are treated as references to the system variable symbol.

Programmer Response: Redefine the variable symbol using character combinations other than those listed.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA004   GLOBAL OR LOCAL VARIABLE xxxxxxxx DUPLICATES A SYMBOLIC PARAMETER IN SAME MACRO DEFINITION

Issued by: CWAX1J

Explanation: The operand field of a global or local declaration contains a variable symbol that is identical to a symbolic parameter defined in the macro prototype earlier in the macro definition.

System Action: The declaration conflicting with the symbolic parameter is ignored. All of the following references to it are treated as references to the symbolic parameter that it duplicates.

Programmer Response: Redefine the global or local variable with a variable symbol that is unique to the macro definition.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA005   GLOBAL OR LOCAL VARIABLE SYMBOL xxxxxxxx DUPLICATES PREVIOUS DEFINITION

Issued by: CWAX1J

Explanation: A global or local variable symbol was declared twice in the same macro definition or in open code.

System Action: The second declaration of the variable symbol is ignored. All following references to it are treated as references to the first declaration.

Programmer Response: If the second declaration is LCLx, declare it again using a variable symbol unique to the macro definition or to open code. If the second declaration is GBLx, declare it again as for LCLx, but make sure that all declarations of that global variable elsewhere in the program are identical.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA006   UNDEFINED VARIABLE SYMBOL *xxxxxxxx*

Issued by: CWAX1J

Explanation: A variable symbol that is not a system variable symbol has been used incorrectly in one of the following ways:

- It has been referred to in this statement.
- It has not been defined within the macro definition as a symbolic parameter, a local variable, or a global variable.
- It has not been defined in open code as a local or global variable.

System Action: The statement is processed as a comment, unless the error occurs in a macro parameter. If the macro parameter contains an undefined variable symbol, the parameter is assigned the value of a null string.

Programmer Response: Define the variable symbol as a symbolic parameter, a local variable, or a global variable; or, if desired, refer to a previously defined variable symbol of the appropriate type. This message may be issued if an ampersand (&) erroneously appears as the first character of an ordinary symbol, and thus creates an unintended variable symbol.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CAW007   USAGE OF *xxxxxxxx* **IS INCONSISTENT WITH ITS DECLARATION**

Issued by: CWAX1J

Explanation: Either a global or local variable symbol was defined as dimensioned but was used without a subscript, or a global or local variable symbol was defined as undimensioned but was used with a subscript.

System Action: Editing of the statement that contains the inconsistent usage stops immediately, and the statement is processed as a comment.

Programmer Response: Make sure the usage of the global or local variable symbol is consistent with its global or local declaration, or make the declaration of the global or local variable symbol consistent with its usage.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA008   CIRCULAR OPSYN STATEMENTS

Issued by: CWAX1J

Explanation: The operand field of an OPSYN statement contains a synonym that is the same as the established mnemonic in the name field. This results in the mnemonic being its own synonym. For example:

```
ADD     OPSYN A
PLUS    OPSYN ADD
XYZ     OPSYN PLUS
ADD     OPSYN XYZ
```

The final OPSYN statement in the sequence is flagged.

System Action: The flagged OPSYN statement is processed as a comment.

Programmer Response: Remove any OPSYN statement that results in a circular definition, or change such an OPSYN statement by recoding the synonym or the mnemonic.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA009   EDIT DICTIONARY SPACE EXHAUSTED

Issued by: CWAX1J

Explanation: The work space available is not big enough to contain the dictionaries that are required to edit the macro definition or open code.

System Action: If a macro definition is being edited, the remaining statements up to the MEND statement are processed as comments, and editing resumes. If open code is being edited, the remaining statements up to the end of file are processed as comments.

Programmer Response: Increase the size of the region or partition that is allocated to assembly, or allocate more dictionary space through the BUFSIZE assembler option.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA010   SOURCE MACRO *xxxxxxxx* **HAS BEEN PREVIOUSLY DEFINED**

Issued by: CWAX1A

Explanation: The macro prototype in a source macro contains a mnemonic that duplicates a mnemonic already defined as a source macro.

System Action: All statements in this macro definition are processed as comments. All following references to the mnemonic are treated as references to the first definition associated with that operation code.

Programmer Response: Provide a unique mnemonic operation code for the flagged macro prototype.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA012   ICTL OR OPSYN STATEMENT APPEARS TOO LATE IN THE PROGRAM

Issued by: CWAX1A

Explanation: One of the following errors has occurred:

- The ICTL statement does not precede all other statements in the source module.
- The OPSYN statement does not appear before source macro definitions and open code statements. The only statements that can precede an OPSYN statement are ICTL, ISEQ, TITLE, PRINT, EJECT, SPACE, OPSYN, COPY (unless the member copied contains any statements other than those listed here), and comment statements.

System Action: The ICTL or OPSYN statement is processed as a comment.

Programmer Response: Place the ICTL or OPSYN statement at the beginning of your program as described in the explanation.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA013   OPSYN NAME FIELD NOT ORDINARY SYMBOL, OR OPSYN OPERAND FIELD NOT ORDINARY SYMBOL OR BLANK

Issued by: CWAX1A

Explanation: The name or operand field of an OPSYN instruction contains more than 8 alphanumeric characters or does not begin with an alphabetical character.

System Action: The OPSYN statement is processed as a comment.

Programmer Response: Correct the name field or operand field.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA014   INVALID OPCODE IN OPSYN OPERAND OR NAME FIELD

Issued by: CWAX1J

Explanation: One of the following errors has occurred:

- In an OPSYN instruction with a blank operand field, the name field does not specify a machine instruction operation code, an extended machine instruction operation code, or an assembler operation code.

- The operand field of an OPSYN instruction does not specify a machine instruction operation code, an extended machine instruction operation code, or an assembler operation code.

System Action: The OPSYN statement is treated as a comment.

Programmer Response: Make sure that the name field contains a valid operation code, or code a valid operation code on the operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA015   EXPRESSION VALUE EXCEEDS 4 194 303 NEAR OPERAND COLUMN *nn*

Issued by: CWAX5V

Explanation: An expression has been detected whose value exceeds 4 194 303, near column nn.

System Action: The statement is set to 0.

Programmer Response: Correct the expression so that its value will be equal to or less than 4 194 303.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA016   ILLEGAL OR INVALID NAME FIELD

Issued by: CWAX1A, CWAX3A

Explanation: One of the following errors has occurred:

- No name was found where one is required.
- A name was supplied where none is allowed.
- The character found in the name field was not valid.

System Action: The statement is processed as a comment, unless the error has occurred in the name field of a macro. If the macro name field parameter contains an error, the parameter is assigned the value of a null string.

Programmer Response: Supply a name if one is required, omit the name if one is not allowed, or correct the character that is not valid.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA017   .* COMMENT STATEMENT IS ILLEGAL OUTSIDE MACRO DEFINITION

Issued by: CWAX1A

Explanation: An internal macro comment statement (.*) appears outside macro definitions (in open code).

System Action: The statement is printed.

Programmer Response: Remove the .* comment statement. If you want a comment, put an asterisk (*) in the begin column and follow it with the comment.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA018   MORE THAN 5 ERRORS ON THIS STATEMENT, ERROR ANALYSIS OF THIS STATEMENT IS TERMINATED

Issued by: CWAX1A

Explanation: During editing, six errors were detected. The maximum number of error messages issued to each statement during editing is five.

System Action: The sixth error causes this message. Any additional errors for this statement will be detected in the next assembly.

Programmer Response: Correct the reported errors and reassemble your code.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA019   INVALID OPERAND ON ICTL OR ISEQ STATEMENT

Issued by: CWAX1A

Explanation: The problem is one of the following:

- In an ICTL statement, the value of one or more keywords is incorrect. The begin column must be within columns 1 to 40; the end column must be within columns 41 to 80, and at least five columns away from the begin column; and the continue column must be within columns 2 to 40.

- In an ISEQ statement, one of the following errors has occurred:

  - The operand has an illegal range. The operand value cannot fall between the begin and end columns, and the second operand must not be less than the first.

  - The operand field is not valid. The operand field must contain two valid decimal self-defining terms separated by a comma, or must be blank.

System Action: If the program contains an ICTL error, the whole program is processed as comments. If one of the ISEQ errors has occurred, no sequence checking is performed.

Programmer Response: Supply valid keywords or operands.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA020   INVALID BRANCH ADDRESS - DISPLACEMENT EXCEEDS 2046

Issued by: CWAX5M

Explanation: A branch instruction specifying a relocatable expression operand has a transfer address with a displacement greater than 2046 or less than −2046.

System Action: The instruction is set to 0.

Programmer Response: Make sure that the displacement (in respect to the address of the next sequential instruction after the branch instruction) is less than or equal to 2046 or greater than or equal to −2046.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA021   INVALID TERM IN OPERAND

Issued by: CWAX1A

Explanation: An invalid term has been used in an expression of the operand.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the operand is a character relation, an arithmetic relation, a SETx symbol, a symbolic parameter, or a decimal self-defining term.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA022   ICTL STATEMENT IS ILLEGAL IN COPY CODE

Issued by: CWAX1A

Explanation: An ICTL statement appears in code that is inserted in the program by a COPY instruction. If used, the ICTL instruction must always be the first instruction in your source module.

Programmer Response: No response is necessary.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA023   ILLEGAL MACRO, MEND, OR MEXIT STATEMENT - MAY APPEAR ONLY WITHIN MACRO DEFINITIONS

Issued by: CWAX1A

Explanation: One of the following has occurred:

- MACRO, MEND, or MEXIT statements were found in open code. These statements can be used only in macro definitions.

- An instruction other than ICTL, ISEQ, OPSYN, TITLE, PRINT, EJECT, SPACE, or COPY appears before one or more macro definitions in your program.

  If COPY is used to replace the instruction, it cannot copy any statements other than ISEQ, OPSYN, TITLE, PRINT EJECT, or SPACE.

- An undefined operation code appears before your macro definition.

System Action: The invalid MACRO, MEND, or MEXIT statement is processed as a comment.

Programmer Response: Remove the statement from open code or place it within a macro definition. Make sure that all your macro definitions are placed at the beginning before open code.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA024   UNPAIRED PARENS, OR BLANK FOUND INSIDE PAIRED PARENS

Issued by: CWAX1A

Explanation: One of the following has occurred:

- Unpaired parentheses appear in the operand field.

- The operand field of a macro contains blank inside paired parentheses. This may be an error in sublist structure.

- An arithmetic expression contains blank inside parentheses.

- A logical expression is missing a term.

System Action: The operand in error is ignored.

Programmer Response: Make sure that there is a right parenthesis for every left parenthesis. Remove blanks from inside paired parentheses.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA025   STATEMENT OUT OF SEQUENCE

Issued by: CWAX1A

Explanation: The flagged statement is out of sequence. This was determined by the input sequence checking specified by the ISEQ instruction.

System Action: The statement is flagged and assembled; however, the sequence number of the following statements will be checked relative to this statement and not relative to the sequence of previous statements.

Programmer Response: Put the statement in proper sequence.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA026 **CHARACTERS APPEAR BETWEEN THE BEGIN AND CONTINUE COLUMNS ON CONTINUATION CARD**

Issued by: CWAX1A

Explanation: On the continuation card, the begin column and all the columns between the begin column and the continue column (usually column 16) must be blank.

System Action: Characters appearing between the begin column and the continue column are ignored.

Programmer Response: Determine whether the operand started in the wrong continue column or the preceding card contained an erroneous continuation character in column 72.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA027 **ICTL, ISEQ, MACRO, OR OPSYN STATEMENT APPEARS IN MACRO DEFINITION**

Issued by: CWAX1A

Explanation: You cannot use the operations shown in the message within a macro definition.

System Action: The operation that is not allowed is ignored and the statement is processed as a comment.

Programmer Response: Remove all ICTL, ISEQ, MACRO, and OPSYN statements from within macro definitions. Make sure that your ICTL and OPSYN instructions precede your macro definitions and that each macro definition ends with a MEND statement.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA028 **ILLEGAL PROTOTYPE KEYWORD PARAMETER DEFAULT VALUE**

Issued by: CWAX1A

Explanation: A keyword parameter contains a variable symbol that is used as the default symbol.

System Action: The statement is ignored.

Programmer Response: Supply a valid default value for the keyword parameter.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA029 *xxxxxxxx* **IS AN ILLEGAL OPERAND IN A GLOBAL OR LOCAL DECLARATION**

Issued by: CWAX1A

Explanation: In a global (GBLx) or local (LCLx) SET symbol declaration, the indicated operand does not consist of one or more variable symbols that are separated by commas and ended with a blank.

System Action: The attempted global or local SET symbol declaration is processed as a comment. Recovery is made in certain circumstances and some valid variable symbols in the declaration are recognized and defined correctly.

Programmer Response: Supply the operand with valid variable symbols and delimiters. Check all global and local declarations.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA030 **DECLARED DIMENSION OF** *xxxxxxxx* **IS ILLEGAL**

Issued by: CWAX1A

Explanation: The declared dimension that appears in the error message must be a nonzero, unsigned decimal integer, not greater than 32 767, and enclosed in parentheses.

System Action: If the declared dimension was a decimal self-defining term greater than 32 767, a default dimension of 32 767 is assigned to the variable symbol. In all other cases, the variable symbol declaration is ignored.

Programmer Response: Supply a valid dimension.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA031 **SET STATEMENT NAME NOT A VARIABLE SYMBOL, OR SET STATEMENT NAME INCONSISTENT WITH DECLARED TYPE**

Issued by: CWAX1A

Explanation: One of the following has occurred:

- The name field of a SET statement does not consist of an ampersand followed by 1 to 7 alphanumeric characters, the first of which is alphabetical.

- The symbol does not match its previously declared type. For instance, the symbol might have been previously defined as LCLA, but the flagged statement may have tried to assign a SETC character string to it.

- The name field of a SETx instruction contains an invalid system variable symbol. The system variable symbols are:

```
        &SYSECT         &SYSPARM
        &SYSLIST        &SYSTIME
        &SYSNDX         &SYSDATE
```

System Action: The flagged statement is processed as a comment.

Programmer Response: Assign a valid variable symbol to the name field of the SET statement (the symbol must be previously defined as a global or local variable), or make sure that the usage of the symbol corresponds to its previously declared type.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA032 *xxxxxxxx* **APPEARS IMPROPERLY IN THE OPERAND OF THIS STATEMENT**

Issued by: CWAX1A

Explanation: The specified operand is not valid.

System Action: The statement is processed as a comment.

Programmer Response: Check the syntax required for the operand field of this statement, and supply a valid operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA033   *xxxxxxx* **IS AN INVALID LOGICAL OPERATOR**

Issued by: CWAX1A

Explanation: The specified character string was found where a logical operator (AND or OR) was expected.

System Action: The statement is processed as a comment.

Programmer Response: Use either AND or OR, as appropriate, for the logical operator.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA034   **INVALID BRANCH ADDRESS - DISPLACEMENT EXCEEDS 126**

Issued by: CWAX5M

Explanation: A branch instruction specifying a relocatable expression operand has a transfer address with a displacement greater than 126 or less than –126.

System Action: The machine instruction is set to 0.

Programmer Response: With respect to the address of the next sequential instruction after the branch instruction, make sure that the displacement is less than or equal to 126 or greater than or equal to –126.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA035   **QUOTES NOT PAIRED, OR ILLEGAL TERMINATION OF QUOTED STRING**

Issued by: CWAX1A, CWAX5D

Explanation: The operand field of this statement contains unpaired quotes or the quoted string is missing the ending quote.

System Action: The statement is processed as a comment.

Programmer Response: Supply any missing quotes.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA036   **ATTRIBUTE REFERENCE FOR** *xxxxxxxx* **IS INVALID**

Issued by: CWAX1A

Explanation: The flagged statement attempted to refer to an ordinary or variable symbol that is not valid. The attributes referred to were one or more of the following: type (T'), length (L'), scaling (S'), integer (I'), count (K'), and number (N').

System Action: Some or all of the following actions are taken:

- The attribute referred to is ignored.
- The statement is ignored.
- Default values for type, length, and scaling attributes are supplied.

Programmer Response: Determine if a clerical error was made in the code in either the reference to or definition of the symbol that appears in the message text; or supply a valid ordinary or variable symbol where necessary.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA037   *xxxxxxx* **IS AN ILLEGAL SUBSCRIPT**

Issued by: CWAX1A

Explanation: The subscript that appears in the message text either is not enclosed by paired parentheses or is not a valid subscript.

System Action: The statement that contains the invalid subscript is processed as a comment.

Programmer Response: Make sure the parentheses are paired and that a valid subscript appears inside them.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA038   *xxxxxxx* **IS AN INVALID VARIABLE SYMBOL**

Issued by: CWAX1A

Explanation: The specified symbol does not consist of an ampersand followed by 1 to 7 alphanumeric characters, the first of which is alphabetical.

System Action: The statement that contains the invalid variable symbol is processed as a comment. If the statement is a macro prototype statement, all statements in the macro definition are treated as comments.

Programmer Response: Supply a valid variable symbol, or make sure that a single ampersand is not used where a double ampersand is needed.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA040   **INVALID M-FIELD NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: The binary value of the 3-bit n-field in the branch-on-bit instruction (BB) did not specify bits 0 to 7.

System Action: The instruction is set to 0.

Programmer Response: Correct the m-field designator to indicate bits 0 to 7 only.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA041   **M-FIELD GREATER THAN 7 NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: The binary value of the 3-bit n-field in the branch-on-bit instruction (BB) is greater than 7.

System Action: The statement is set to 0.

Programmer Response: Correct the m-field designator to indicate bits 0 to 7 only.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA042   PARAMETER IN MACRO PROTOTYPE OR MACRO INSTRUCTION EXCEEDS 255 CHARACTERS

Issued by: CWAX1A

Explanation: A parameter value that appears in the operand fields of either a macro prototype or a macro exceeds 255 characters in length.

System Action: The first 255 characters of the parameter are deleted. The remaining characters are used as the parameter value.

Programmer Response: Limit the parameter to 255 characters, or separate it into two or more parameters.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA043   MACRO INSTRUCTION PROTOTYPE STATEMENT HAS INVALID OP CODE

Issued by: CWAX1A

Explanation: One of the following has occurred:

- The operation code of a macro prototype statement was previously defined as the operation code of a machine, assembler, or macro.

- The operation code of a macro prototype statement did not consist of 1 to 8 alphanumeric characters starting with an alphabetical character.

System Action: The entire macro definition is processed as comments.

Programmer Response: Supply a valid ordinary symbol that does not conflict with any machine, assembler, or macro operation code.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA046   STATEMENT COMPLEXITY EXCEEDED

Issued by: CWAX1A

Explanation: The expression evaluation work area has overflowed because the expression is too complex. The complexity of an expression is determined by the number of nested operators and levels of parentheses. Up to 35 operators and levels of parentheses are allowed. For logical expressions, this total allows 18 unary and binary operators, and 17 levels of parentheses. For arithmetic expressions in conditional assembly, the total allows 24 unary and binary operators, and 11 levels of parentheses.

System Action: The statement is processed as comments.

Programmer Response: Simplify the expression to the limits described.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA047   UNEXPECTED END OF FILE ON SYSTEM INPUT (SYSIN)

Issued by: CWAX1A

Explanation: One of the following has occurred:

- On SYSIN, an end of file occurred when a continuation record was expected. The source program ended.

- An end of file immediately follows a REPRO statement.

- An end of file occurs before an END card has been read.

System Action: An END statement is generated and assembly continues.

Programmer Response: Determine if any statements were omitted from the program.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA048   ICTL STATEMENT HAS NO OPERAND

Issued by: CWAX1A

Explanation: The ICTL statement requires an operand, but none is present.

System Action: The entire source module is processed as comments.

Programmer Response: Supply from 1 to 3 decimal self-defining terms to indicate the begin, end, and continue columns. If the ICTL statement is omitted, columns 1, 72, and 16, respectively, are the default values.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA049   COPY STATEMENT OPERAND NOT A VALID ORDINARY SYMBOL

Issued by: CWAX1A

Explanation: The operand of a COPY statement is not a symbol of 1 to 8 alphanumeric characters starting with an alphabetical character.

System Action: The COPY request is processed as a comment.

Programmer Response: Supply a valid ordinary symbol in the operand field.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA050   COPY STATEMENT DOES NOT HAVE AN OPERAND

Issued by: CWAX1A

Explanation: No operand was found on this COPY statement.

System Action: The statement is processed as a comment.

Programmer Response: Place the name of a member to be copied in the operand field, or remove the COPY statement.

Severity Code: 8. Major errors were detected. Your program probably will not run.

**CWA051   UNEXPECTED END OF DATA ON SYSTEM
LIBRARY (SYSLIB)**

Issued by: CWAX1A

Explanation: On the input from a system library, an
end of file occurred before a macro definition was
ended with a MEND statement.

System Action: The missing MEND statement is
generated.

Programmer Response: Determine if the MEND
statement was omitted from the library macro, or if the
library contains an otherwise incomplete macro defi-
nition, or if a macro call has been made to a non-
macro definition.

Severity Code: 4. Minor errors were detected. Your
program probably will run correctly.

CWA052   UNARY OPERATOR NOT A PLUS OR MINUS SIGN.

Issued by: CWAX1A

Explanation: Information is missing on the first card
of a continuation statement. The complete statement
name (if one is used) and the operation code, each fol-
lowed by a blank, do not appear before the continua-
tion indicator column.

System Action: The entire statement is processed as
a comment.

Programmer Response: Make sure that both the
name and operation code of the statement appear on
the first card. Check for syntax errors.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA053   OP CODE NOT FOUND ON FIRST OR ONLY CARD

Issued by: CWAX1A

Explanation: On the first card of a continuation state-
ment, the complete statement name (if one is used)
and the operation code, each followed by a blank, do
not appear before the continuation column.

System Action: The entire statement is processed as
a comment.

Programmer Response: Make sure that both the
name and operation code of the statement appear on
the first card. Check for syntax errors.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA054   INVALID OPERATION CODE

Issued by: CWAX1A

Explanation: One of the following occurred:

- The operation code specified is not a valid ordi-
  nary symbol.

- A variable symbol in the operation field is not
  valid.

- The resulting operation code after substitution with
  or without concatenation is not a valid ordinary
  symbol.

System Action: The statement is processed as a
comment.

Programmer Response: Make sure that ordinary or
variable symbols used in the operation field are valid.
If you use variable symbols with or without concat-
enation, make sure that the resulting symbol is a valid
ordinary symbol.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA055   MEND STATEMENT GENERATED

Issued by: CWAX1A

Explanation: On the input from the system input
device (SYSIN) or the system library (SYSLIB), an end
of file occurred before a macro definition was ended
with a MEND statement.

System Action: A MEND statement is generated.

Programmer Response: Supply a MEND statement
to end the macro definition.

Severity Code: 8. Major errors were detected. Your
program probably will run with errors.

**CWA057   DUPLICATION FACTOR *xxxxxxxx* IN SETC
EXPRESSION NOT TERMINATED BY A RIGHT
PARENTHESIS**

Issued by: CWAX1A

Explanation: A SETC operand either contains a
comma, period, or blank between the beginning and
ending parentheses, or a right parenthesis is missing.

System Action: The statement is processed as a
comment.

Programmer Response: Either remove the comma,
period, or blank between the parentheses, or supply a
right parenthesis.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA058   NO ENDING QUOTE ON SETC EXPRESSION

Issued by: CWAX1A

Explanation: The operand field of a SETC statement
contains a character expression that is not enclosed in
quotation marks. The statement ends before a delim-
iting quotation mark.

System Action: The statement is processed as a
comment.

Programmer Response: Supply any missing quota-
tion marks.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA059   INVALID TERM IN LOGICAL EXPRESSION

Issued by: CWAX1A

Explanation: The logical expression contains a term
that is not valid in the context.

System Action: The statement is processed as a
comment.

Programmer Response: Make sure that the terms in
the logical expression are valid.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA060   END STATEMENT GENERATED

Issued by: CWAX1A, CWAX3A, CWAX5A

Explanation: One of the following occurred:

- An end of file occurred on the system input device (SYSIN) before an END card was read.
- The ACTR limit for open code was exceeded.

System Action: An END statement is generated.

Programmer Response: Do one of the following:

- Supply a valid END statement.
- Either correct the conditional assembly loop in open code so that the ACTR limit is not exceeded, or set the ACTR limit in open code to a higher value.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA061   COPY NEST GREATER THAN FIVE

Issued by: CWAX1A

Explanation: The maximum limit of five nested levels of COPY statements was exceeded.

System Action: COPY processing stops immediately.

Programmer Response: Eliminate excessive levels of COPY statements.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA062   REQUIRED OPERAND FIELD MISSING

Issued by: CWAX1A, CWAX5D

Explanation: This statement requires an operand in the operand field and none is present.

System Action: The statement is processed as a comment.

Programmer Response: Supply the missing operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA063   VALUE OF EQU MUST BE POSITIVE - VALUE SET TO ZERO

Issued by: CWAX5A

Explanation: The expression to the EQU has the high-order bit turned on. The value of the EQU can only be 0 to $1\,048\,575$ ($2^{20}-1$).

System Action: The statement is processed as an EQU 0.

Programmer Response: Make the absolute value or the relocatable value of the expression positive.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA064   INTERLUDE DICTIONARY SPACE EXHAUSTED

Issued by: CWAX2A

Explanation: The work space available is not big enough to contain the dictionaries required to build either:

- The skeleton dictionary for a macro definition or all open code
- The ordinary symbol attribute reference dictionary.

This message is always logged against statement number 0.

System Action: If a macro is being processed, building of the skeleton dictionary for that macro definition is stopped and the macro will not be expanded. If open code is being processed, the building of the open code skeleton dictionary is stopped and the program is processed as comments. If space for the ordinary symbol attribute reference dictionary is exhausted, the building of it is abandoned.

Programmer Response: Within the partition, increase the size of the region that is allocated to assembly, or allocate more of the partition to dictionary space through the BUFSIZE assembler option.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA065   EXPRESSION 2 OF EQU SYMBOL *xxxxxxxx* NOT IN RANGE 0-65535

Issued by: CWAX2A

Explanation: The second operand of the EQU instruction contains an expression with a value that is not in the range of 0 to 65 535.

System Action: The length attribute of the symbol is set to 1.

Programmer Response: Make sure that the value of the second operand of the EQU instruction is in the range of 0 to 65 535, or delete the second operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA066   EXPRESSION 3 OF EQU SYMBOL *xxxxxxxx* NOT IN RANGE 0-255

Issued by: CWAX2A

Explanation: The value of the expression specified is not in the range of 0 to 255.

System Action: The type attribute of the symbol is set to U.

Programmer Response: Make sure that the value of the third operand of the EQU instruction is in the range of 0 to 255, or delete the third operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA067 **DECLARED DIMENSION FOR GLOBAL VARIABLE** *xxxxxxx* **IN** *xxxxxxx xxxxxxx* **IS INCONSISTENT**

Issued by: CWAX2A

Explanation: In a macro definition or in open code, the declared dimension of a global variable is not consistent with the declared dimension of the same global variable in another macro definition or in open code.: p.This message is always logged against statement number 0. The message text identifies the macro (or open code) where the error is found.

System Action: In the macro definition or in open code where the inconsistency was detected, all references to the global variable result in a null (0) value.

Programmer Response: Make sure that all definitions of a given global variable have the same declared dimension.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA068 **COPY MEMBER** *xxxxxxx* **NOT FOUND IN LIBRARY**

Issued by: CWAX1A

Explanation: The COPY member shown in the message text was not found in the library.

System Action: The COPY statement is processed as a comment.

Programmer Response: Determine whether the library member name is misspelled or whether an incorrect member name was referred to. Make sure that the proper macro library is assigned in your JCL statements.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA069 **TOO MANY CONTINUATION CARDS, TWO ALLOWED**

Issued by: CWAX1A

Explanation: Only two continuation cards are allowed for each statement, except for macro definition prototype and macro call statements.

System Action: Excess continuation cards are processed as comments.

Programmer Response: Restructure the statement so that it can be contained on a total of three cards. Extensive remarks can be recorded as comment statements by coding an asterisk in column 1 and eliminating the continuation indicators.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA070 **SUBSTRING NOTATION IS NOT DELIMITED BY COMMA OR RIGHT PARENTHESIS**

Issued by: CWAX1A

Explanation: Substring notation contains two SETA expressions that are not separated by a comma or enclosed in parentheses.

System Action: The statement is processed as a comment.

Programmer Response: Supply the missing delimiter, or check for other syntax errors that make this appear as substring notation.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA073 **AGO OR AIF OPERAND NOT A SEQUENCE SYMBOL**

Issued by: CWAX1A

Explanation: The operand field of an AIF or AGO statement contains a symbol that is not a period followed by 1 to 7 alphanumeric characters, the first being an alphabetical character.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid sequence symbol.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA074 **SEQUENCE SYMBOL** *xxxxxxx* **IS MULTIPLY DEFINED IN** *xxxxxxx*

Issued by: CWAX2A

Explanation: The sequence symbol in the name field has already been defined in the name field of a previous statement within the same macro definition or open code.

This message is always logged against statement number 0. The message text identifies the macro (or open code) where the error is found.

System Action: All definitions of the sequence symbol after the first one are ignored. All references to the sequence symbol are treated as references to the first definition.

Programmer Response: Provide unique sequence symbols for the macro definition or open code.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA076 **SEQUENCE SYMBOL** *xxxxxxx* **IS UNDEFINED IN** *xxxxxxx xxxxxxx*

Issued by: CWAX2A

Explanation: The operand of an AIF or AGO statement contains a sequence symbol that was not defined in the name field of another statement in the same macro definition or open code.

This message is always logged against statement number 0. The message text identifies the macro (or open code) where the error is found.

System Action: All statements which refer to the undefined sequence symbol are processed as comments.

Programmer Response: Define the sequence symbol at the appropriate point, or refer to a sequence symbol that is already defined.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA077   FOURTH OPERAND OF CWX NOT BETWEEN 0 AND X'FFFFF'

Issued by: CWAX5A

Explanation: In the fourth operand of a CWX instruction, the data address is outside the range of 0 to X'FFFFF'.

System Action: The low-order 3 bytes of the operand are used.

Programmer Response: Supply a correct term or expression for the fourth operand.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA078   UNDEFINED OP CODE

Issued by: CWAX3A

Explanation: In this statement, the mnemonic operation code does not correspond to any of the following:

- A machine instruction operation code
- An extended machine instruction operation code
- An assembler instruction operation code
- A macro operation code
- An operation code that has been defined by an OPSYN instruction.

This message is also issued for operation codes that have been deleted by OPSYN instructions.

System Action: The statement is treated as a comment. If the statement appears before open code, all statements following it are considered to belong to open code. This means that any macro definitions following the error are treated as errors.

Programmer Response: Either make sure that you use a valid mnemonic operation code, or make sure that the proper OPSYN instructions are included in your program.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA080   ATTRIBUTE REFERENCE TO UNDEFINED SYMBOL

Issued by: CWAX3A

Explanation: A length (L'), scaling (S'), or integer (I') attribute reference specifies a symbol that is an undefined symbol, a symbolic parameter, or a &SYSLIST specification representing an undefined symbol.

System Action: The length attribute, if specified, is set to 1. The integer or scaling attribute, if specified, is set to 0.

Programmer Response: Make sure that the symbol is defined.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA081   DECLARED TYPE FOR GLOBAL VARIABLE *xxxxxxx* **IN** *xxxxxxx xxxxxxx* **IS INCONSISTENT**

Issued by: CWAX2A

Explanation: The type (GBLA, GBLB, or GBLC) of a global variable declaration is inconsistent with a previous declaration of the same variable in another macro definition or in open code.

This message is always logged against statement number 0. The message text identifies the macro (or open code) where the error is found.

System Action: In the macro or open code, all references to the global variable result in a null (0) value.

Programmer Response: Make all declarations of the same global variable consistent.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA085   MACRO HEADER MISSING, MACRO NOT EXPANDABLE

Issued by: CWAX3A

Explanation: In a library macro definition, the first statement was not a MACRO statement.

System Action: The search for the macro definition stops immediately. The macro call is processed as a comment.

Programmer Response: Make sure that the library macro definition begins with a MACRO statement.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA087   INVALID MACRO DEFINITION PROTOTYPE, MACRO NOT EXPANDABLE

Issued by: CWAX1A, CWAX3A

Explanation: A comment statement appears immediately after a macro header (MACRO statement).

System Action: All the statements of the macro definition are processed as comments.

Programmer Response: Make sure that the statement immediately following the macro header is a macro prototype statement. No comments or any other statements are permitted between the macro header and prototype of a macro definition.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA088   LIBRARY MACRO PROTOTYPE DOES NOT MATCH MEMBER NAME - MACRO NOT EXPANDABLE

Issued by: CWAX3A

Explanation: The macro prototype in a library macro definition contains a mnemonic operation code that does not match the entry in the macro library.

System Action: The macro is processed as a comment.

Programmer Response: Enter the macro definition in the library under the same name as the mnemonic operation code that appears on the macro prototype.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA089   GENERATION-TIME DICTIONARY SPACE EXHAUSTED

Issued by: CWAX3N

Explanation: The workspace available is not big enough to contain the dictionaries required to expand the macro, to extend a SETC variable, or to contain the basic global dictionaries.

System Action: If the global dictionary workspace is insufficient, the text is processed as comments. If there is insufficient space to extend the SETC variable, expansion of the macro that contains the variable stops immediately. If the space for macro definition dictionaries is insufficient, calls to those macros are not expanded.

Programmer Response: Within the partition, increase the size of the region that is allocated to assembly, or allocate more of the partition to dictionary space through the BUFSIZE assembler option.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA090   UNDEFINED SEQUENCE SYMBOL ENCOUNTERED DURING CONDITIONAL ASSEMBLY

Issued by: CWAX3A

Explanation: The operand field of this statement refers to an undefined sequence symbol. The symbol is not defined in the macro definition or open code.

System Action: The statement is processed as a comment.

Programmer Response: Define the sequence symbol at an appropriate point, or refer to a sequence symbol that is already defined.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA091   KEYWORD PARAMETER *xxxxxxxx* IS DUPLICATED ON SAME MACRO CALL

Issued by: CWAX3N

Explanation: A keyword parameter has appeared more than once on the same macro.

System Action: The last value assigned to the parameter is used. Other values are ignored.

Programmer Response: Define only one value for each parameter.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA092   KEYWORD PARAMETER *xxxxxxxx* UNDEFINED IN MACRO DEFINITION

Issued by: CWAX3N

Explanation: In a macro call, one of the following has occurred:

- A keyword is used that is not defined.
- An equal sign that is not surrounded by quotation marks is in a positional parameter.

System Action: The extra keyword parameter in the macro is ignored.

Programmer Response: Do whichever of the following is appropriate:

- Delete the keyword parameter and its value from the macro.
- Make the keyword parameter in the macro call correspond to one of the keyword parameters in the macro prototype.
- Define the keyword parameter in the operand field of the macro prototype.
- If you want to include an equal sign in a positional parameter, enclose the parameter within single quotation marks.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA100   DICTIONARY SPACE EXHAUSTED, NO SKELETON DICTIONARY BUILT

Issued by: CWAX3A

Explanation: One of the following situations exists:

- If the message is given for a macro definition or for open code, no available space is left to build the skeleton dictionary after space has been used for the definition of global symbols.
- If the message is given for a macro, dictionary space was exhausted during the editing of a library macro.

System Action: The macro is not considered defined, and any calls to it are processed as comments. If the error occurs in open code, the entire assembly is processed as comments.

Programmer Response: Within the partition, increase the size of the region that is allocated to assembly, or allocate more of the partition to dictionary space through the BUFSIZE assembler option.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA101   GENERATED OP CODE INVALID OR UNDEFINED

Issued by: CWAX3A

Explanation: The operation code created by substitution is not a valid ordinary symbol or is not a valid machine, assembler, or macro, or is not defined by an OPSYN instruction.

System Action: The generated statement is treated as a comment.

Programmer Response: Make sure that substitution results in a valid ordinary symbol consisting of an alphabetical character followed by 1 to 7 alphanumeric characters. Also make sure that the resulting symbol is a defined operation code.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA102 GENERATED OP CODE IS BLANK

Issued by: CWAX3A

Explanation: The operation code created by substitution contains no characters, or from 1 to 8 blank characters.

System Action: The generated statement is processed as a comment.

Programmer Response: Make sure that substitution results in a valid ordinary symbol consisting of an alphabetical character followed by 1 to 7 alphanumeric characters.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA104 MORE THAN ONE TITLE STATEMENT NAMED

Issued by: CWAX3A

Explanation: This TITLE statement is at least the second that contains something other than a sequence symbol or blanks in the name field.

System Action: The name field is ignored.

Programmer Response: Make sure that the name fields of all but one TITLE statement contain only sequence symbols or blanks.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA105 GENERATED FIELD EXCEEDS 255 CHARACTERS

Issued by: CWAX3A

Explanation: Because of substitution, a character string that is longer than 255 characters has been generated.

System Action: The first 255 characters are used.

Programmer Response: Limit the generation of any character string to 255 characters, minus the number of nonsubstituted characters. Limit substitution to 8 characters in the name and operation fields and to 255 characters in the operand field.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA107 CHARACTER STRING USED AS AN ARITHMETIC TERM EXCEEDS 10 CHARACTERS

Issued by: CWAX3A

Explanation: A character string used in a SETA expression or in an arithmetic relation in a SETB expression is longer than 10 characters. Ten is the maximum number of characters permitted in a decimal self- defining term.

System Action: The character string is replaced by an arithmetic value of 0.

Programmer Response: Make sure that all character strings used in a SETA or SETB expression are from 1 to 10 decimal digits long with a value between 0 and 2 147 483 647. Also make sure that the values of all variables that contribute to the generation of the character string are valid for their type.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA108 CHARACTER STRING USED AS AN ARITHMETIC TERM CONTAINS NON-DECIMAL CHARACTERS

Issued by: CWAX3A

Explanation: A character string used in a SETA expression or in an arithmetic relation in a SETB expression contains characters other than 0 to 9.

System Action: The character string is replaced by an arithmetic value of 0.

Programmer Response: Make sure that all character strings used in a SETA or SETB expression are from 1 to 10 decimal digits long with a value between 0 and 2 147 483 647. Also, make sure that the values of all variables that contribute to the generation of the character string are valid for their type.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA109 CHARACTER STRING USED AS AN ARITHMETIC TERM IS A NULL STRING

Issued by: CWAX3A

Explanation: A character string used in a SETA expression or in an arithmetic relation in a SETB expression is 0 characters in length.

System Action: The character string is replaced by an arithmetic value of 0.

Programmer Response: Make sure that all character strings used in a SETA or SETB expression are from 1 to 10 decimal digits long, with a value between 0 and 2 147 483 647. Also make sure that the values of all variables that contribute to the generation of the character string are valid.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA110 ARITHMETIC OVERFLOW IN INTERMEDIATE RESULT OF SETA EXPRESSION

Issued by: CWAX3A

Explanation: During the evaluation of a SETA expression, an intermediate value was produced that was outside the range of -2^{31} to $2^{31}-1$.

System Action: The intermediate result is replaced by an arithmetic value of 0.

Programmer Response: Make sure that the values of all variables that contribute to the intermediate result are valid. Make sure that no expression ever attempts a value outside the range of -2^{31} to $2^{31}-1$. You can avoid overflow if you adjust the sequence of expression evaluation, or if you separate components of the expression and evaluate them individually (perhaps by additional SET statements) before combining them.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA111 SUBSCRIPT EXPRESSION HAS A ZERO OR NEGA-TIVE VALUE

Issued by: CWAX3A

Explanation: On a dimensioned global or local variable symbol, either a SETA expression used as the subscript or a term results in a 0 or negative value.

System Action: Any such reference to the dimensioned variable results in a null (0) value. Expressions that are used as subscripts must have a value in the range of 1 to the declared dimension of the global or local variable. A subscript of 0 is allowed only on the system variable &SYSLIST.

Programmer Response: Make sure that the values of all the variables that contribute to the subscript are valid.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA112 SUBSCRIPT EXPRESSION EXCEEDS DECLARED DIMENSION

Issued by: CWAX3A

Explanation: On a dimensioned global or local variable, a SETA expression used as the subscript or a term results in a value greater than the declared dimension of the variable.

System Action: Any such reference results in a null (0) value.

Programmer Response: Make sure that all terms and variables that contribute to the subscript have valid values. Make sure that a term or a SETA expression used as a subscript has a value in the range of 1 to the declared dimension of the global or local variable.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA113 ILLEGAL REFERENCE MADE TO A PARAMETER THAT IS A SUBLIST

Issued by: CWAX3A

Explanation: A SETA or SETB expression contains a reference to a parameter that is a sublist.

System Action: The reference to the parameter results in an arithmetic value of 0.

Programmer Response: Check to see that the proper parameter is being referred to. Make sure that an appropriate value is assigned to a parameter that is referred to in a SETA or SETB expression. Check for a missing subscript.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA114 NEGATIVE DUPLICATION FACTOR IN CHARACTER STRING

Issued by: CWAX3A

Explanation: A term or a SETA expression that is used as the duplication factor in a SETC operand results in a negative value.

System Action: The duplication factor is set to an arithmetic value of 0.

Programmer Response: Make sure that any term or expression used as a duplication factor has a positive value, and that the values of all variables that contribute to the duplication factor are valid.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA115 FIRST EXPRESSION IN SUBSTRING NOTATION HAS ZERO OR NEGATIVE VALUE

Issued by: CWAX3A

Explanation: A term or SETA expression that is used to specify the starting character for a substring operation has a 0 or negative value.

System Action: The assembler assigns the value of null to the substring.

Programmer Response: A term, a SETA expression, or a combination of variables used to produce the first expression in a substring notation must result in a positive, nonzero value, not exceeding the length of the character string.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA116 SECOND EXPRESSION IN SUBSTRING NOTATION HAS NEGATIVE VALUE

Issued by: CWAX3A

Explanation: A term or SETA expression that is used to specify the number of characters affected by a substring operation has a negative value.

System Action: The value of the second expression of the substring notation is set to null (0).

Programmer Response: A term, a SETA expression, or a combination of variables used to produce the second expression in a substring notation must result in a nonnegative value.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA117 FIRST EXPRESSION IN SUBSTRING NOTATION EXCEEDS THE LENGTH OF THE STRING

Issued by: CWAX3A

Explanation: A term or SETA expression that specifies the starting character for a substring operation specifies a character beyond the end of the string.

System Action: The assembler assigns the value of null to the substring.

Programmer Response: Make sure that the term, SETA expression, or combination of variables used to produce the first expression in a substring notation

results in a value in the range of 1 to the length of the character string.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA118   ACTR LIMIT HAS BEEN EXCEEDED

Issued by: CWAX3A

Explanation: The number of AIF and AGO branches within the text segment exceeds the value specified in the ACTR instruction or the conditional assembly loop counter default value.

System Action: If a macro is being expanded, the expansion stops immediately. If open code is processed, all remaining statements are processed as comments.

Programmer Response: Correct the conditional assembly loop that caused the ACTR limit to be exceeded, or set the ACTR value to a higher number.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA119   ILLEGAL TYPE ATTRIBUTE REFERENCE

Issued by: CWAX3A

Explanation: A type attribute reference refers to a symbol that is defined by an EQU instruction. The third operand of that EQU instruction is not valid.

System Action: The type attribute value is set to U.

Programmer Response: Correct the third operand on the EQU instruction. It must be a self-defining term in the range of 0 to 255.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA120   ILLEGAL LENGTH ATTRIBUTE REFERENCE

Issued by: CWAX3A, CWAX5U

Explanation: One of the following has occurred:

- A length attribute reference specifies a SETx symbol.
- A length attribute reference specifies a symbolic parameter (or a &SYSLIST representation) that does not represent an ordinary symbol.
- A length or integer attribute reference refers to an ordinary symbol defined by an EQU instruction. The second operand of that EQU instruction is not in the range of 0 to 65 535.
- A length or integer attribute reference refers to an ordinary symbol defined on a DC or DS instruction. That DC or DS instruction contains a length modifier that is not a self-defining term.

System Action: The length attribute is set to 1.

Programmer Response: Review the use of the length attribute and recode.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA121   ILLEGAL COUNT (K') ATTRIBUTE REFERENCE

Issued by: CWAX3A

Explanation: One of the following has occurred:

- The count attribute refers to a non-macro.
- The count attribute reference is not used in an arithmetic expression.

System Action: The count attribute is set to 0.

Programmer Response: Review the use of the count attribute and recode.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA122   ILLEGAL NUMBER (N') ATTRIBUTE REFERENCE

Issued by: CWAX3A

Explanation: One of the following has occurred:

- The number attribute refers to a non-macro operand.
- The number attribute is not used in an arithmetic expression.

System Action: The number attribute is set to 0.

Programmer Response: Review the use of the number attribute and recode.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA123   ILLEGAL SCALE ATTRIBUTE REFERENCE

Issued by: CWAX3A

Explanation: One of the following has occurred:

- A scaling attribute reference specifies a SETx symbol.
- A scaling attribute reference specifies a symbolic parameter (or a &SYSLIST representation) that does not represent an ordinary symbol.
- A scaling attribute reference is made to an ordinary symbol whose type attribute is not H, F, G, E, D, L, K, P, or Z.
- A scaling or integer attribute reference refers to an ordinary symbol defined in a DC or DS instruction. That DC or DS instruction contains a calling modifier that is not a self-defining term.

System Action: The scale attribute is set to 0.

Programmer Response: Review the use of the scale attribute and recode.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA124   ILLEGAL INTEGER ATTRIBUTE REFERENCE

Issued by: CWAX3A

Explanation: One of the following has occurred:

- An integer attribute reference specifies a SETx symbol.
- An integer attribute reference specifies a symbolic parameter (or a &SYSLIST representation) that does not represent an ordinary symbol.

- An integer attribute reference is made to an ordinary symbol whose type attribute is not H, F, G, or K.

System Action: The integer attribute is set to 0.

Programmer Response: Review the use of the integer attribute and recode.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA125   INVALID NAME - ILLEGAL EMBEDDED CHARACTER OF NON-ALPHABETIC FIRST CHARACTER

Issued by: CWAX3A

Explanation: One of the following has occurred:

- The symbol generated in the name field does not begin with an alphabetical character, or it contains a special character or an embedded blank after substitution.
- For the TITLE instruction, the name field contains a special character.

System Action: The name field is ignored.

Programmer Response: Make sure that the symbol generated in the name field conforms to the rules for forming valid ordinary symbols, or is a valid TITLE name field entry. Also check that the values of all variables that contribute to the generation of the symbol in the name field are valid.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA126   MORE THAN 5 ERRORS IN THIS STATEMENT, PROCESSING OF THE STATEMENT IS TERMINATED

Issued by: CWAX3A

Explanation: Six errors were detected in processing this statement. The maximum number of error messages issued by the processor to each statement is five.

System Action: The sixth error caused this message to be issued, and messages are not issued for any further errors in this statement. Any additional errors will be located in the next assembly.

Programmer Response: Correct the indicated errors and check carefully for errors beyond the point indicated by the fifth error message. Assemble again.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA127   VALUE OF CHARACTER STRING USED IN ARITHMETIC CONTEXT EXCEEDS 2 147 483 647 (2^{31}−1).

Issued by: CWAX3A

Explanation: A character string used in a SETA expression or in an arithmetic relation in a SETB expression exceeds a value of 2 147 483 647, which is the maximum value allowed for a decimal self-defining term.

System Action: The character string is replaced by an arithmetic value of 0.

Programmer Response: Make sure that all character strings used in an arithmetic context are from 1 to 10 decimal digits in length and have a value between 0 and 2 147 483 647. Make sure that the values of all variables that contribute to the generation of the character string are valid.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA128   GENERATED OP CODE EXCEEDS 8 CHARACTERS

Issued by: CWAX3A

Explanation: The syntax for mnemonic operation codes must follow the same rules as ordinary symbols; that is, they must be from 1 to 8 alphanumeric characters long and the first character must be alphabetical.

System Action: The statement that contains the operation code in error is processed as a comment. Only the first 8 characters of the generated operation code appear in the printed statement.

Programmer Response: Make sure that valid values are used for all variables contributing to the generation of the operation code. Make sure that no attempt is made to generate an operation code of more than 8 characters.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA129   GENERATED SYMBOL IN NAME FIELD EXCEEDS 8 CHARACTERS

Issued by: CWAX3A

Explanation: A generated symbol that appears in the name field exceeds 8 characters. It should be from 1 to 8 alphanumeric characters in length and the first character must be alphabetical.

System Action: The name field is ignored. Only the first 8 characters of the generated symbol appear in the printed statement.

Programmer Response: Make sure that valid values are used for all variables contributing to the generation of the symbol in the name field. Make sure that no attempt is made to generate a symbol of more than 8 characters.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA130   FIRST SUBSCRIPT OF &SYSLIST REFERENCE IS NEGATIVE

Issued by: CWAX3A

Explanation: A term or an arithmetic (SETA) expression that is used as the first subscript of a &SYSLIST reference has resulted in a negative value.

System Action: The parameter reference is treated as a reference to an omitted operand.

Programmer Response: Make sure that the values of all variables that contribute to the generation of the first subscript are valid.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA131   **INCONSISTENT GLOBAL VARIABLE DECLARA-**
            TION, SETx INSTRUCTION IGNORED

Issued by: CWAX3N

Explanation: Global variable declaration is incon-
sistent with a previous definition of the same variable
in another macro definition or in open code.

System Action: The value of the global variable
remains the same and the SETx instruction is ignored.

Programmer Response: Correct all inconsistencies
between global variable declarations regarding dimen-
sion and type.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA132   **REFERENCE TO INCONSISTENTLY DECLARED**
            GLOBAL VARIABLE RESULTS IN ZERO VALUE

Issued by: CWAX3N

Explanation: An attempt to get a value from a global
variable has been ignored because the declaration of
the global variable was inconsistent with a previous
declaration of the same variable in another macro defi-
nition or in open code. Either the dimension or the
type does not agree.

System Action: The reference to the global variable
is replaced by a null (0) value.

Programmer Response: Correct all inconsistencies
among declarations of the same global variable.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA133   **NO WORK SPACE FOR OPEN CODE SKELETON**
            DICTIONARY

Issued by: CWAX3N

Explanation: The allotted dictionary work space is
insufficient to build the skeleton dictionary for open
code. Since the generation process requires the open
code dictionary, generation stops immediately.

System Action: The entire assembly is processed as
comments.

Programmer Response: Within the partition,
increase the size of the region that is allocated to
assembly, or allocate more of the partition to dictionary
space through the BUFSIZE assembler option.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA134   **BRANCH ADDRESS LESS THAN 0**

Issued by: CWAX5M

Explanation: One of the following has occurred:

- An RT instruction contains a negative branch
  address that is outside the current CSECT.

- An RA instruction contains a negative branch
  address.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the
RT- or RA-type instructions and recode.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA136   **ABSOLUTE BRANCH ADDRESS NEAR OPERAND**
            COLUMN *nn*

Issued by: CWAX5M

Explanation: The T field of an RT instruction is not a
relocatable expression.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the
RT-type instruction and recode.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA137   **BRANCH ADDRESS OUTSIDE CURRENT CSECT**

Issued by: CWAX5M

Explanation: An RT instruction contains a branch
address that is outside the current CSECT.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the
RT-type instruction and recode.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA138   **M-FIELD FOR BBE GREATER THAN 15 NEAR**
            OPERAND COLUMN *nn*

Issued by: CWAX5M

Explanation: In the BBE instruction, the mask field M
can only contain a value between 0 and 15 because
the field is only 4 bits long.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the M
field in the BBE extended instruction and recode.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA149   **DISPLACEMENT GREATER THAN 127 NEAR**
            OPERAND COLUMN *nn*

Issued by: CWAX5M

Explanation: In an RS instruction (IC, STC) the dis-
placement was greater than 127 bytes.

System Action: The machine instruction is set to 0.

Programmer Response: Review the format of the IC
or STC instruction and recode.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA150   **DISPLACEMENT GREATER THAN 126 NEAR**
            OPERAND COLUMN *nn*

Issued by: CWAX5M

Explanation: In an RS instruction (LH, STH, STHZ),
the displacement was greater than 126 bytes.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the
LH, STH, or STHZ instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA151 DISPLACEMENT GREATER THAN 124 NEAR OPERAND COLUMN nn

Issued by: CWAX5M

Explanation: In an RS instruction (L, ST, BND, STZ), the displacement was greater than 124 bytes.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the L, ST, BND, or STZ instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA152 DISPLACEMENT IS NEGATIVE NEAR OPERAND COLUMN nn

Issued by: CWAX5M

Explanation: In an RS instruction, the displacement was found to be negative.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the failing RS-type instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA153 DISPLACEMENT IS NOT A MULTIPLE OF 2 NEAR OPERAND COLUMN nn

Issued by: CWAX5M

Explanation: In an RS instruction (LH, STH, STHZ), the displacement did not refer to a halfword boundary.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the failing RS-type instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA154 DISPLACEMENT IS NOT A MULTIPLE OF 4 NEAR OPERAND COLUMN nn

Issued by: CWAX5M

Explanation: In an RS instruction (L, ST, BND, STZ), the displacement did not refer to a fullword boundary.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the failing RS-type instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA155 BYTE DESIGNATOR IS NOT AN ABSOLUTE VALUE NEAR OPERAND COLUMN nn

Issued by: CWAX5M

Explanation: In an instruction that requires at least one of its operands to have the format R(N), the byte designator N was not an absolute value.

System Action: The machine instruction is set to 0.

Programmer Response: Review the format of the failing instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA157 DC OPERAND VALUE TOO LONG

Issued by: CWAX5D

Explanation: In a DC instruction, the operand's specified value is too long. The maximum length of a DC operand is 16 777 215 ($2^{24}-1$) bytes.

System Action: The specified value is ignored.

Programmer Response: Make the constant shorter, or break it into two constants.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA158 NAME OF STATEMENT IN DSECT USED IN RELO-CATABLE ADDRESS CONSTANT

Issued by: CWAX5A

Explanation: An A-type, R-type, or Y-type address constant contains a nonpaired relocatable term that is defined in a dummy section.

System Action: The constant is ignored.

Programmer Response: Make sure that the relocatable term is not defined in a dummy section. Make sure that the term defined in the dummy section is paired with another term (with the opposite sign) from the same dummy section.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA161 INVALID EQUR SYMBOLIC REGISTER EXPRESSION

Issued by: CWAX2A

Explanation: The EQUR assembler instruction has one of the following:

- An invalid format
- An invalid register R value
- An invalid byte N value.

System Action: The value of the EQUR instruction is set to 0.

Programmer Response: Correct the format and insert correct values for register and byte and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA163 MISSING OR INVALID SYMBOL IN NAME FIELD

Issued by: CWAX5A

Explanation: One of two errors has occurred:

- A symbol is missing in the name field where one is required.
- The symbol in the name field is invalid.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid name.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA164   **INVALID OR ILLEGAL START STATEMENT**

Issued by: CWAX5A

Explanation: The START statement did not appear at the beginning of the first control section in the assembly, or the operand on the START statement was not an absolute value.

System Action: The START statement is treated as a CSECT statement.

Programmer Response: Make sure that the START statement has an absolute operand and that it begins the first control section in the assembly.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA165   **NULL PUNCH OPERAND OR PUNCH OPERAND EXCEEDS 80 CHARACTERS**

Issued by: CWAX5A

Explanation: The operand of a PUNCH instruction specifies only a null string surrounded by quotes or that the operand is more than 80 characters long.

System Action: The PUNCH statement is processed as a comment.

Programmer Response: Make sure that the operand of a PUNCH statement consists of from 1 to 80 characters surrounded by single quotation marks or is a valid variable symbol.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA167   **SYMBOL FILE OUT OF STEP**

Issued by: CWAX5C

Explanation: The symbol file, which is an internal data file, is out of step with the rest of the assembly process because of error recovery on a user error.

System Action: A soft recovery is attempted by continuing the assembly. Results of the assembly after the point of error may not be valid.

Programmer Response: This message is always accompanied by user errors. Correct them and reassemble the program.

If the problem persists, do the following before notifying your IBM representative:

- Have your source program, macro definitions, and associated listing available.

- If a COPY statement was used, execute the IEBPTPCH utility to get a copy of the partitioned data set member specified in the COPY statement.

- Make sure that MSGLEVEL=(1,1) was specified in the JOB statement.

Severity Code: 16. Critical errors were detected. Notify your IBM representative for assistance.

CWA168   **AN ARITHMETIC EXPRESSION NOT USED IN CONDITIONAL ASSEMBLY CONTAINS MORE THAN 20 TERMS**

Issued by: CWAX5V

Explanation: In a macro definition or in open code, but not in a conditional assembly statement, an arithmetic expression contains more than 19 unary and binary operators and six levels of parentheses. The maximum number of terms this combination allows is 20.

System Action: The value of the expression is set to 0.

Programmer Response: Make sure that this arithmetic expression does not contain more than 19 operators (unary and binary) and six levels of parentheses. If greater complexity is necessary, use EQU statements to evaluate intermediate results.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA169   **INVALID SELF-DEFINING TERM NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5V

Explanation: An invalid self-defining term was specified.

System Action: The value of the term is set to 0.

Programmer Response: Check the syntax and correct the error.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA170   **TWO ADJACENT BINARY OPERATORS, OR BINARY OPERATOR EXPECTED BUT NOT FOUND NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A

Explanation: One of the following has occurred:

- Near the column specified in the message text, two binary operators appear consecutively. This applies only to "*" (multiply) and "/" (divide).

- Near the column specified in the message text, a binary operator was expected, but none was found. A single binary operator must occur between all terms of an expression.

System Action: The expression that contains the absent or incorrect operator is set to 0.

Programmer Response: Either eliminate one of the binary operators or provide a binary operator.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA171   **TITLE STATEMENT OPERAND EXCEEDS 100 CHARACTERS**

Issued by: CWAX5A

Explanation: The operand of a TITLE instruction contains more than 100 characters.

System Action: The character string in the operand is truncated to 100 characters.

Programmer Response: Make sure that the length of the character string in the operand of a TITLE statement does not exceed 100 characters.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA172   **VALUE OF ORG OPERAND IS LESS THAN THE CONTROL SECTION STARTING ADDRESS**

Issued by: CWAX5A

Explanation: The operand of an ORG statement results in a value less than the starting address of the control section.

System Action: The ORG statement is processed as a comment and has no effect on the value of the location counter.

Programmer Response: Make sure that the operand of the ORG statement is a positive relocatable expression, is greater than the starting address of the control section, or is blank.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA173   **ONE OR MORE SYMBOLS IN AN ORG OPERAND DO NOT BELONG TO THE CURRENT CSECT, DSECT, OR COM**

Issued by: CWAX5A

Explanation: The operand of an ORG statement contains one or more symbols that are not defined in the current control section (dummy, common, or ordinary).

System Action: The ORG statement is processed as a comment and the value of the location counter remains unchanged.

Programmer Response: Make sure that all symbols used in the operand field of an ORG statement belong to (are defined by appearing in the name field of a statement within) the current control section.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA174   **ORG OPERAND IS ABSOLUTE, MUST BE RELO-CATABLE**

Issued by: CWAX5A

Explanation: In the operand of an ORG statement, an absolute term or expression must be a relocatable term, a relocatable expression, or a blank.

System Action: The ORG instruction is processed as a comment and the value of the location counter remains unchanged.

Programmer Response: Make sure that the operand of an ORG statement is a relocatable term, a relocatable expression, or a blank. An ORG to an absolute

address is not possible because the assembler assumes that all location references are relocatable. A common error is an ORG to 0. Since the start of the program is not absolute machine location 0 but relocatable 0, replace the 0 with a symbol or expression that refers to the labeled program start.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA175   **OPERAND SHOULD BEGIN WITH A QUOTE**

Issued by: CWAX5A

Explanation: A character string in the operand field was expected to begin with a quotation mark but no quotation mark was found.

System Action: The invalid character string is ignored.

Programmer Response: Supply the missing quotation mark in the character string of the operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA176   **UNPAIRED AMPERSAND NEAR OPERAND COLUMN NN**

Issued by: CWAX5A, CWAX5D

Explanation: A quoted character string contains a single ampersand (&) followed by a blank. To have an ampersand as a character in a quoted character string, two ampersands must be coded. Ampersands must be either paired or part of a valid variable symbol.

System Action: The character string that contains the ampersand is ignored.

Programmer Response: Determine whether you wish to have the ampersand as a character in a quoted character string or as the beginning of a valid variable symbol, and correct the error.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA177   **MISSING OPERAND**

Issued by: CWAX5A

Explanation: This statement requires an operand, but none is found.

System Action: The statement that lacks the operand is processed as a comment.

Programmer Response: Supply a valid operand.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA178   **SYNTAX ERROR NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A, CWAX5D, CWAX5M

Explanation: The operand of this statement has a syntax error.

System Action: The statement that contains the invalid operand is processed as a comment.

Programmer Response: Correct the syntax of the operand. Many syntactic errors can produce this diagnostic. All of them require careful checking of the

syntax of the specific type of statement being proc-
essed. The error is logged at the point where the
syntax becomes ambiguous or unrecognizable, not
necessarily at the point where the actual error occurs.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA179   OPERAND SUBFIELD NEAR OPERAND COLUMN *nn*
MUST BE ABSOLUTE

Issued by: CWAX5A, CWAX5D, CWAX5M

Explanation: In the operand field of this statement,
all terms and expressions must result in an absolute
value.

System Action: The operand is processed as a
comment.

Programmer Response: Make sure that in the
operand field of this statement each term or expression
has an absolute value. No relocatable expressions are
allowed.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA180   OPERAND 2 OF CNOP MUST BE EITHER 4 OR 8

Issued by: CWAX5A

Explanation: In a CNOP statement, the second
operand must be either 4 or 8.

System Action: The CNOP statement is processed
as a comment and no alignment is performed.

Programmer Response: Make sure that the second
operand of a CNOP statement is either 4 or 8.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA181   OPERAND 1 OF CNOP MUST BE 0, 2, 4, OR 6

Issued by: CWAX5A

Explanation: The first operand of a CNOP statement
must be 0, 2, 4, or 6.

System Action: The CNOP statement is ignored and
no alignment is performed.

Programmer Response: Make sure that the first
operand of a CNOP statement is a 0, 2, 4, or 6.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA182   OPERAND 1 OF CNOP IS NOT LESS THAN
OPERAND 2

Issued by: CWAX5A

Explanation: The value of the first operand of a
CNOP statement must be less than the value of the
second operand.

System Action: The CNOP statement is processed
as a comment and no alignment is performed.

Programmer Response: Check the validity of each
operand of the CNOP statement to make sure that the

value of the second operand is greater than the value
of the first operand.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA183   MNOTE OPERAND EXCEEDS 255

Issued by: CWAX5A

Explanation: An operand used as an MNOTE has a
value exceeding 255.

System Action: The MNOTE is processed as a
comment.

Programmer Response: Check the validity of the
operand.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA184   INVALID COUNT ON CW NEAR OPERAND COLUMN
nn, **1023 IS MAXIMUM VALUE**

Issued by: CWAX5A

Explanation: The third operand of a define control
word has a value exceeding X'3FF' (1023 decimal).

System Action: Space is allocated for the CW, but
the value of the flagged operand is set to 0.

Programmer Response: Check the validity of the
third operand of the define control word.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA185   BLANK EXPECTED AS A DELIMITER NEAR
OPERAND COLUMN *nn*

Issued by: CWAX5A, CWAX5M

Explanation: A blank was expected as a delimiter but
none was found. Characters following have no syn-
tactic meaning, and the statement is ambiguous.

System Action: The statement that contains the
invalid delimiter is processed as a comment.

Programmer Response: Supply a blank delimiter.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA186   INVALID SYMBOL NEAR OPERAND COLUMN *nn* **OF**
ENTRY, EXTRN, OR WXTRN

Issued by: CWAX5A

Explanation: The operand field of an ENTRY,
EXTRN, or WXTRN statement contains an improperly
constructed symbol.

System Action: The statement that contains the
invalid symbol is processed as a comment.

Programmer Response: Make sure that the symbol
in the operand field of EXTRN, WXTRN, or ENTRY
statements contains an alphabetical character followed
by 1 to 7 alphanumeric characters.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA187 SYMBOL LONGER THAN 8 CHARACTERS NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A, CWAX5D, CWAX5V

Explanation: The operand field of this statement contains a symbol that is more than 8 characters in length.

System Action: The invalid symbol in the operand field is replaced by a 0.

Programmer Response: Make sure that symbols do not exceed 8 characters in length. A missing or misplaced delimiter or operator may cause a symbol to appear longer than intended.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA188 *xxxxxxxx* **IS AN UNDEFINED SYMBOL**

Issued by: CWAX5B

Explanation: The symbol that appears in the message text has not appeared in the name field of another statement, or as an operand of an EXTRN or WXTRN statement.

System Action: Reference to the undefined symbol results in a 0 value.

Programmer Response: Define the symbol in the program.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA189 INVALID ENTRY OPERAND, LINKAGE CANNOT BE PERFORMED

Issued by: CWAX5A

Explanation: The operand field of an ENTRY statement contains a symbol that is invalid because it is either undefined or improperly defined.

System Action: The invalid symbol in the operand field is processed as a comment, and no linkage is provided if another program refers to it.

Programmer Response: Define the symbol at an appropriate place in this program, or correct it. A valid symbol consists of an alphabetical character followed by 1 to 7 alphanumeric characters.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA190 OPERAND OF PUSH STATEMENT IS NOT USING OR PRINT NEAR OPERAND COLUMN nn

Issued by: CWAX5A

Explanation: In the operand field of a PUSH statement, the only symbols allowed are PRINT and USING, in any order, separated by commas.

System Action: The PUSH instruction is processed as a comment.

Programmer Response: Make sure the operand of the PUSH statement is either PRINT or USING or both.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA191 PUSH LEVELS EXCEEDS 4 NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A

Explanation: More than four levels of PUSH and POP statements were attempted for either PRINT or USING.

System Action: The PUSH instruction is processed as a comment.

Programmer Response: Rework the program logic to require no more than four levels of PUSH and POP for USING and no more than four levels for PRINT.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA192 OPERAND OF POP STATEMENT IS NOT USING OR PRINT NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A

Explanation: In the operand of a POP statement, the only symbols allowed are USING and PRINT, in any order, separated by commas.

System Action: The POP instruction is processed as a comment.

Programmer Response: Make sure the operand of the POP statement is either PRINT or USING or both.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA193 POP REQUEST NOT BALANCED BY PREVIOUS PUSH

Issued by: CWAX5A

Explanation: No PUSH request was issued before this POP request, or more POP statements have been issued than PUSH statements. A POP statement restores the USING or PRINT status saved by the most recent PUSH statement on a one-for-one basis.

System Action: The POP instruction is processed as a comment.

Programmer Response: Check for errors in balancing PUSH and POP statements, or reword the program logic to request balanced PUSH and POP statements. Repetition of a given operand (USING or PRINT) on a single PUSH or POP statement is treated as multiple statements, and could cause unbalanced PUSH and POP statements.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA194 INVALID OPTION IN PRINT STATEMENT NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A

Explanation: An option appears in the operand field of a PRINT statement that is not one of the following: ON, OFF, GEN, NOGEN, DATA, and NODATA.

System Action: The invalid operand is ignored.

Programmer Response: Make sure that only the options listed in the explanation appear in the operand field of a PRINT statement.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA195 **INVALID USING OR DROP STATEMENT NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A

Explanation: One of the following errors has occurred:

- Register 0 is specified for other than the second operand of a USING statement.
- A register number outside the range of 0 to 7 has been used.
- A DROP statement has been issued for a register that was never assigned for use by a USING statement.

System Action: The invalid register specification is set to 0.

Programmer Response: The second and following operand of a USING or DROP instruction must be decimal terms 0 to 7. Register 0 can be specified only as the second operand of a USING statement.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA196 *xxxxxxxx* **HAS BEEN PREVIOUSLY DEFINED**

Issued by: CWAX5A, CWAX5C

Explanation: The specified symbol has previously appeared in the name field of a statement or in the operand field of an EXTRN or WXTRN instruction.

System Action: All references to the symbol are interpreted as references to the first definition of the symbol.

Programmer Response: A given symbol must be defined only once. Determine which occurrence of the symbol you want to use, and change all others.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA197 *****MNOTE*****

Issued by: CWAX5A

Explanation: An MNOTE statement has been found during the generation of a macro or open code. The text of the MNOTE message appears in-line in the listing at the point where it is encountered.

Programmer Response: Investigate the reason for the MNOTE. Errors flagged by MNOTE will often cause unsuccessful execution of the program, depending on the severity code.

See *MVS-DMVS-VM/370 Assembler Language* for a description of the MNOTE instruction.

Severity Code: An MNOTE is assigned a severity code of 0 to 255 by the writer of the MNOTE statement.

CWA198 **INVALID TYPE DECLARED ON DC/DS/DXD CONSTANT NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5D

Explanation: Operand subfield 2 is not a valid type for a DC, DS, or DXD statement. Valid types are A, B, C, F, H, Q, R, V, X, and Y.

System Action: The statement that contains the invalid type declaration is processed as a comment.

Programmer Response: Supply a valid type in operand subfield 2.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA199 **INVALID LENGTH MODIFIER NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5D

Explanation: Operand subfield 3 of this statement contains an invalid length modifier. The length attribute of a symbol is not allowed as a term in the length modifier expression for the first operand of the DC, DS, or DXD statement in which the symbol is defined. For example, `SYM DC CL(L'SYM')'AA'` is invalid.

System Action: The statement that contains the invalid length modifier is processed as a comment.

Programmer Response: Supply a valid length modifier, or eliminate the explicit length modifier.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA200 **INVALID SCALE MODIFIER NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5D

Explanation: Operand subfield 3 of a DC, DS, or DXD statement contains an invalid scale modifier. The scale modifier should be either a decimal value or an absolute expression enclosed in parentheses.

System Action: The statement that contains the invalid scale modifier is processed as a comment.

Programmer Response: Supply a valid scale modifier for the type of constant used.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA201 **ILLEGAL OR INVALID EXPONENT MODIFIER IN DC/DS/DXD CONSTANT NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5D

Explanation: A DC, DS, or DXD constant either contains an exponent modifier that is not a decimal self-defining term or an absolute expression enclosed in parentheses, or it produces a value outside the range allowed for that constant type.

System Action: The invalid operand is ignored.

Programmer Response: Make sure that the exponent modifier used conforms to the rules for exponent modifiers for each type of DC, DS, or DXD constant.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA202   **ILLEGAL USE OF SYMBOLIC REGISTER IN EXPRESSION NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A, CWAX5D, CWAX5M, CWAX5V

Explanation: An expression contained an invalid value that was in symbolic register notation R(N).

System Action: The machine instruction is set to 0.

Programmer Response: Review the expression causing the error and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA203   **F-, H-, R-, OR Y-TYPE CONSTANT TRUNCATED, HIGH ORDER DIGITS LOST NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5D

Explanation: The high order digits of an F-, H-, R-, or Y-type constant were lost because the designated field was too small to contain the whole constant.

System Action: Processing continues using the truncated constant.

Programmer Response: Modify the explicit or implicit length of the constant, so that the value may be contained within the designated area. The maximum value that can be assembled is 2^7-1.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA204   **RELOCATABLE EXPRESSION IN A-, R-, OR Y-TYPE ADDRESS CONSTANT WITH BIT LENGTH SPECIFICATION NOT ALLOWED**

Issued by: CWAX5D

Explanation: A relocatable expression is used to specify a constant for which bit length specification is used. This is not allowed.

System Action: The value of the operand is set to 0, and no entry for this constant is made in the relocation dictionary.

Programmer Response: Convert the operand to an absolute expression, or use a length of 3 or 4 bytes for A-type, or use a length of 2 bytes for Y-type and R-type constants.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA206   **DUPLICATION FACTOR ERROR**

Issued by: CWAX5D

Explanation: The duplication factor in a DC, DS, or DXD statement is negative.

System Action: No storage is reserved for the operand, but alignment is carried out as required by the type of constant used.

Programmer Response: Supply a nonnegative duplication factor.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA207   **OPERAND OF Q-TYPE CONSTANT DOES NOT NAME A DSECT OR DXD**

Issued by: CWAX5D

Explanation: The operand field of a Q-type constant must contain a symbol that has been previously defined as the name of a DSECT or DXD section.

System Action: The value of the constant is set to 0.

Programmer Response: Define the symbol as the name of a DSECT or DXD section. The symbol must be defined before being used in the constant.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA209   **ADDRESSABILITY ERROR - BASE AND DISPLACEMENT CANNOT BE RESOLVED AND ARE SET TO 0**

Issued by: CWAX5M

Explanation: No USING registers are available so the assembler cannot resolve either the address of this statement or the address referred to by this statement.

System Action: The base and displacement fields of the instruction are set to 0.

Programmer Response: Make sure you have correctly set up base registers with the USING instruction. Make sure the referenced address can be specified by the value in a USING register plus a displacement between 0 and 127.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA210   **TOO FEW OPERANDS**

Issued by: CWAX5A, CWAX5M

Explanation: More operands are required for this statement, but they were not found.

System Action: The value of any missing operand is set to 0.

Programmer Response: Supply the necessary operands.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA211   **TOO MANY OPERANDS**

Issued by: CWAX5A

Explanation: There are more than 255 operands on a DC, DS, or DXD instruction.

System Action: The extra operands are ignored.

Programmer Response: Delete the extra operands.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA213   COMPLEXLY RELOCATABLE EXPRESSION NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A, CWAX5M

Explanation: The indicated operand contains a complexly relocatable expression. The expression should be absolute or simply relocatable.

System Action: The value of the complexly relocatable expression is set to 0.

Programmer Response: Make sure that only absolute and simply relocatable expressions are used in the operand field of this statement.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA214   COMMA EXPECTED AS DELIMITER NEAR OPERAND COLUMN *nn*

Issued by: CWAX5M

Explanation: The instruction either did not have a comma separating two suboperands, or had one operand when two suboperands were expected.

System Action: The value of the instruction is set to 0.

Programmer Response: Review the format of the failing instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA215   ILLEGAL DELIMITER, RIGHT PARENTHESIS EXPECTED NEAR OPERAND COLUMN *nn*

Issued by: CWAX5M

Explanation: A right parenthesis was expected as a delimiter, but none was found.

System Action: The value of the operand that is lacking a right parenthesis is set to 0.

Programmer Response: Supply a right parenthesis.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA216   ILLEGAL OPERAND FORMAT NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A, CWAX5M

Explanation: The operand of this statement is illegally constructed.

System Action: The value of the operand is set to 0.

Programmer Response: Supply a valid operand.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA217   RELOCATABILITY ERROR NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A, CWAX5M, CWAX5V

Explanation: One of the following fields contains a relocatable value. All values in these fields must be absolute.

- Immediate field in a RI instruction
- Mask field
- Register specification
- Length modifier.

System Action: If any of the fields listed contains a relocatable value, the value of the field is set to 0.

Programmer Response: Make sure that the field contains an absolute value.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA218   INVALID REGISTER SPECIFICATION - ODD NUMBERED REGISTER REQUIRED

Issued by: CWAX5A

Explanation: An even-numbered register was specified in a context that requires an odd-numbered register.

System Action: The invalid operand is set to 0.

Programmer Response: Specify an available odd-numbered register.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA219   REGISTER OR IMMEDIATE FIELD OVERFLOW NEAR OPERAND COLUMN *nn*

Issued by: CWAX5M

Explanation: One of the following has occurred:

- The immediate field used in an RI instruction has a value greater than 255.
- A register number was specified that was greater than 7.

System Action: The value of the field where the overflow occurred is set to 0.

Programmer Response: Make sure the value of an immediate field does not exceed 255 and that no register number greater than 7 is specified.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA220   ALIGNMENT ERROR NEAR OPERAND COLUMN *nn*

Issued by: CWAX5A

Explanation: The operand of this instruction refers to a main storage location that is not on the boundary required by the instruction.

System Action: The faulty alignment is unchanged.

Programmer Response: Align the main storage location referred to in the operand field.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA221   **REGISTER NUMBER 0 NOT ALLOWED NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: Specification of register 0 is not allowed at this point in the operand.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the invalid instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA222   **REGISTER NUMBER LESS THAN 0 NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: A register was given a negative value.

System Action: The instruction is set to 0.

Programmer Response: Review the invalid instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA223   **EXTERNAL REGISTER GREATER THAN 127**

Issued by: CWAX5M

Explanation: An RE-type instruction has a register specified that is not within the range of 0 to 127.

System Action: The machine instruction is set to 0.

Programmer Response: Review the format of the RE-type instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA224   **LENGTH ERROR NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5D

Explanation: One of the following has occurred:

- The length modifier of a constant is invalid for that type of constant.
- A constant of type C, X, or B is too long.
- A relocatable address constant has an invalid length.

System Action: The operand in error and any following operands of the DC, DS, or DXD statement are processed as comments. An address constant with an invalid length is truncated.

Programmer Response: Supply a valid length modifier or decrease the length of the operand.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA226   **BASE REGISTER OF MACHINE INSTRUCTION NOT ABSOLUTE NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: An explicit base register has been specified as a relocatable value. An absolute term or expression is required.

System Action: The operand in error (base and displacement) is set to 0.

Programmer Response: Use an absolute term or expression to specify the base register.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA228   **RELOCATABLE DISPLACEMENT IN MACHINE INSTRUCTION NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: In an instruction that has an explicit base register specification, the specification for the displacement field is relocatable. As this would imply a second base register, the combination is invalid.

System Action: The displacement field of the instruction is assembled to 0.

Programmer Response: Either specify the displacement as an absolute term or expression, or delete the explicit base register.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA229   **POSSIBLE REENTERABILITY ERROR**

Issued by: CWAX5M

Explanation: This instruction could store data in a control section or command area that is not dynamically acquired. This message is produced only when the RENT assembler option is specified in the PARM field of the EXEC statement.

System Action: The statement is assembled as written.

Programmer Response: If you want reentrant code, correct the instruction so that it refers to a DSECT or other dynamically acquired space. Otherwise you can suppress reentrant checking by specifying the NORENT assembler option.

Note: Absence of this message does not guarantee reentrant code, as the assembler has no control over addresses actually loaded into base and index registers at program execution time.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

**CWA230   BASE REGISTER NUMBER GREATER THAN 7
            NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A, CWAX5M

Explanation: An explicit base register in a machine
instruction is greater than 7.

System Action: The base register field of the instruc-
tion is assembled to 0.

Programmer Response: Specify the base register in
the range of 0 to 7.

Severity Code: 12. Serious errors were detected.
Your program will not run correctly. Notify your IBM
representative for assistance.

CWA231   SYMBOL NOT PREVIOUSLY DEFINED - *xxxxxxxx*

Issued by: CWAX5D, CWAX5V

Explanation: A symbol in this statement is used in a
way that requires the symbol to be defined previously.
The symbol has not been defined. For example, in a
DC statement, a symbol in a duplication factor
expression must be defined previously.

System Action: The value of the symbol or the
expression that contains it is set to 0.

Programmer Response: Define the symbol earlier in
the program. Add a defining statement if it does not
exist, or place the existing defining statement ahead of
the statement that refers to it.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

**CWA233   MORE THAN 6 LEVELS OF PARENTHESES NEAR
            OPERAND COLUMN** *nn*

Issued by: CWAX5V

Explanation: In this statement, an expression con-
tains more than six nested levels of parentheses.

System Action: The value of the expression is set
to 0.

Programmer Response: Rewrite the expression to
reduce the number of levels of parentheses, or use a
preliminary statement (such as an EQU) to partially
evaluate the expression.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

**CWA234   PREMATURE END OF EXPRESSION NEAR
            OPERAND COLUMN** *nn*

Issued by: CWAX5V

Explanation: In this statement, an expression ended
prematurely because of one of the following errors:

- Unpaired parenthesis
- Invalid character
- Invalid operator
- Operator not followed by a term.

System Action: The value of the expression is set
to 0.

Programmer Response: Check the expression for
omitted or mistyped characters or terms.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

**CWA235   ARITHMETIC OVERFLOW NEAR OPERAND
            COLUMN** *nn*

Issued by: CWAX5V

Explanation: The intermediate value of a term or an
expression is not in the range of -2^{31} to $2^{31}-1$.

System Action: The value of the expression is set
to 0.

Programmer Response: Rewrite the expression or
term, or perform arithmetic operations in a different
sequence to avoid overflow. The assembler computes
all values using fixed-point fullword arithmetic.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

**CWA236   ILLEGAL CHARACTER IN EXPRESSION NEAR
            OPERAND COLUMN** *nn*

Issued by: CWAX5A, CWAX5V

Explanation: An expression contains a character that
has no syntactic meaning in the context used. The
assembler cannot determine if it is a symbol, an oper-
ator, or a delimiter. The 51 characters recognized by
the assembler are:

>   Letters: A–Z and $, #, @
>   Digits: 0–9
>   Special characters: + - , = . * () ' / &
>   Blank

System Action: The value of the expression is set
to 0.

Programmer Response: Check the expression for
unpaired parentheses, an invalid delimiter, an invalid
operator, or a character (possibly unprintable) that is
not recognized by the assembler.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA237   CIRCULAR DEFINITION

Issued by: CWAX5A

Explanation: In the operand field of an EQU state-
ment, the first expression has a value that is
dependent on the value of the symbol being defined in
the name field.

System Action: The value of the expression defaults
to the current location counter value.

Programmer Response: Remove the circularity in
the definition.

Severity Code: 8. Major errors were detected. Your
program probably will not run.

CWA238   **ILLEGAL AMPERSAND IN SELF-DEFINING TERM NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5V

Explanation: An ampersand (&) in a self-defining term is unpaired or not part of a quoted character string.

System Action: The value of the expression containing the self-defining term is set to 0.

Programmer Response: Make sure that in the term all ampersands are paired and part of a quoted character string. (The only valid use of a single ampersand is as the first character of a variable symbol.)

Note: Ampersands produced by substitution must also be paired.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA240   **CHARACTER STRING OR SELF-DEFINING TERM TERMINATED BEFORE ENDING QUOTE FOUND.**

Issued by: CWAX5A, CWAX5V

Explanation: The assembler has found what appears to be a quoted character string or a self-defining term, but the closing quotation mark is missing.

System Action: The term or expression is ignored.

Programmer Response: Supply the missing quotation mark or check for other syntax errors.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA241   **FOURTH OPERAND OF CW NOT BETWEEN 0 AND X'3FFFF'.**

Issued by: CWAX5A

Explanation: The fourth operand of a CW instruction, specifying the data address, is outside the range of 0 to X'3FFFF'.

System Action: The low-order 3 bytes of the operand are used.

Programmer Response: Supply a correct term or expression for the second operand.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA242   **SPACE OPERAND NOT A SINGLE POSITIVE DECIMAL SELF-DEFINING TERM**

Issued by: CWAX5A

Explanation: The operand of a SPACE instruction is not a 0 or positive decimal self-defining term.

System Action: The SPACE statement is processed as a comment.

Programmer Response: Use a single decimal self-defining term with a 0 or positive value.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA243   **CW OPERAND SUBFIELD NEAR OPERAND COLUMN** *nn* **IS MISSING**

Issued by: CWAX5A

Explanation: The CW operand is missing one of the required subfields.

System Action: The value of the CW instruction is set to 0.

Programmer Response: Review the format of the CW instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA244   **INVALID BRANCH ADDRESS - NOT HALF WORD ALIGNED**

Issued by: CWAX5M

Explanation: An RA or RT instruction has a branch address that was not on a halfword boundary.

System Action: The value of the instruction is set to 0.

Programmer Response: Review the format of the failing RA or RT instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA245   **CW OPERAND VALUE EXCEEDS 3 NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A

Explanation: One of the following has occurred:

- The first subfield of the CW operand (Command Code) is not in the range of 0 to 3.
- The second subfield of the CW operand (Flags) is not in the range of 0 to 3.

System Action: The instruction is set to 0.

Programmer Response: Review the format of the failing CW instruction and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA246   **LOCATION COUNTER OVERFLOW**

Issued by: CWAX5A, CWAX5M

Explanation: The location counter is greater than X'FFFFF' ($2^{20}-1$).

System Action: The location counter is 4 bytes long. The overflow is carried into the high-order byte and the assembly continues. However, the resulting code will probably not execute correctly.

Programmer Response: The probable cause of the error is a high ORG statement value or a high START statement value. Correct the value or split up the control section.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA247 **INVALID LOCATION FOR RELOCATABLE R-TYPE CONSTANT**

Issued by: CWAX5D

Explanation: A relocatable R-type constant was found within the first 2 bytes of a control section.

Programmer Response: Review the description and use of the R-type constant and recode.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA248 **INVALID EQUR OPERAND FORMAT**

Issued by: CWAX5A

Explanation: An EQUR expression was found that did not have the format R(N).

System Action: The value of the EQUR expression is set to 0.

Programmer Response: Review the format of the EQUR expression and recode.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA249 **REGISTER/BYTE DESIGNATOR OF EQUR EXPRESSION IS NOT AN ABSOLUTE VALUE**

Issued by: CWAX5A

Explanation: An EQUR instruction was detected where either the register value or the byte designator was not absolute.

System Action: The value of the EQUR expression is set to 0.

Programmer Response: Review the format of the EQUR expression and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA250 **REGISTER DESIGNATOR IS NOT AN ABSOLUTE VALUE NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5M

Explanation: In the operand subfield, an instruction using the format R(n) specified an *R* that did not have an absolute value.

System Action: The value of the instruction is set to 0.

Programmer Response: Review the format of the incorrect instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA251 **BYTE DESIGNATOR IS A SYMBOLIC REGISTER EXPRESSION NEAR OPERAND COLUMN** *nn*

Issued by: CWAX5A, CWAX5M

Explanation: An instruction that uses the format R(n) in its operand was found to have a nonabsolute value for n.

System Action: The value of the instruction is set to 0.

Programmer Response: Review the incorrect instruction and recode.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA253 **RELOCATABLE R-TYPE ADDRESS CONSTANT IN THIS ASSEMBLY.**

Issued by: CWAX6B

Explanation: This is an information-only message indicating that at least one relocatable R-type address constant exists in this assembly.

Programmer Response: Review the requirements for an R-type address constant.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA254 **ILLEGAL FORMAT OF SECOND OPERAND OF END STATEMENT**

Issued by: CWAX5A

Explanation: Second operand of END instruction is inconsistent with the format required.

System Action: Second operand is ignored.

Programmer Response: Correct the operand.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA255 **FIXED-POINT EXPRESSION ERROR NEAR OPERAND COLUMN NN**

Issued by: CWAX5D

Explanation: An error occurred during conversion of a decimal number into a fixed-point number.

System Action: The number is assembled as zeros.

Programmer Response: Check the scale and exponent modifier of the number for validity.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA256 **SYSGO DD CARD MISSING - NOOBJECT OPTION USED**

Issued by: CWAX6B

Explanation: A DD statement for the SYSGO data set normally receives the object module output of the assembler when it is to be used as input to the linkage editor or loader, executed in the same job.

System Action: The program is assembled using the NOOBJECT option. No output is written on SYSGO. If the DECK option is specified, the object module will be written on the device specified in the SYSPUNCH DD statement.

Programmer Response: Optional. If the assembly is error free and the object module has been produced on SYSPUNCH, you can execute without reassembling. Otherwise, reassemble the program and include a SYSGO DD statement in the JCL or use a cataloged procedure that includes it.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA257 **SYSPUNCH DD CARD MISSING - NODECK OPTION USED**

Issued by: CWAX6B

Explanation: A DD statement for the SYSPUNCH data set is not included in the JCL for this assembly. The SYSPUNCH data set is normally used when the object module of the assembly is directed to the card punch.

System Action: The program is assembled using the NODECK option. No deck is punched on SYSPUNCH. If the OBJECT option has been specified, the object module will be written on the device specified in the SYSGO DD statement.

Programmer Response: Optional. The object module can be link-edited and executed from SYSGO instead of SYSPUNCH by adjusting JCL. Otherwise, if you want a punch data set, reassemble the program with a SYSPUNCH DD statement.

Severity Code: 16. Critical errors were detected. Notify your IBM representative for assistance.

CWA258 **INVALID ASSEMBLER OPTION ON EXEC CARD - OPTION IGNORED**

Issued by: CWAX6B

Explanation: The PARM field of the EXEC statement specifies one or more invalid assembler options. The error might be caused by use of the wrong option, a misspelled option, or syntax errors in coding the options.

System Action: Invalid options are ignored. The assembly is carried out using the valid options.

Programmer Response: Check the spelling of the options, the length of the option list (100 characters maximum), and the syntax of the option list. The options must be separated by commas, and paren-theses in the option list (including SYSPARM) must be paired. Two quotation marks or ampersands are needed to represent a single quotation mark or amper-sand in a SYSPARM character string.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA259 **RELOCATABLE Y-TYPE ADCON OR DC FAILURE SEE APAR IR13680 FOR DETAILS**

Issued by: CWAX6B

Explanation: This message can indicate that one of two conditions has occurred:

1. At least one relocatable Y-type address constant is present. This is a rare occurrence because communication controller products, as distributed, do not use the Y-type address constant. In this instance, the message is for your information.

2. A trap in the assembler has detected a define con-stant (DC) failure.

Programmer Response: Do the following:

1. Review the code being assembled. If you are using a Y-type address constant, verify that you require a Y-type address constant. If you are not using a Y-type address constant, your assembly might be incorrect.

2. Check the printed output, which indicates the error immediately following the failing DC. The trap within the assembler monitors the output for errors that cannot be corrected in the assembler.

The error occurs on a Define Constant instruction for an address length of 1 (DC AL1( )). The assembler does not produce the expected data and does not increment the location counter. After the failure, the assembler shifts any data that it generates one byte, until it encounters another alignment instruction, such as DS 0H.

For this failure to occur, many conditions must simultaneously occur. In many cases, you can resolve the condition quite easily. Sometimes, rerunning the job eliminates the problem. You can also try to rearrange the input to the assembler. For example, you can move blocks of code or macro calls in the input. Some other techniques are using a text adjustment program to correct the output definition, or using a "superzap" type of program after the text is link-edited.

If, after checking the output, you cannot find a problem, then a false detection has occurred. Ignore the message and the return code.

Note: This assembler is designed primarily for the assembly of machine-level source code and should not be used for any other purposes. If you are using this assembler to generate NCP and the responses listed are unsuccessful, notify your IBM representative for assistance.

Severity Code: 8. Major errors were detected. Your program probably will not run.

CWA260 **ASSEMBLY TERMINATED - DD CARD MISSING FOR SYSxxx**

Issued by: CWAX0D, CWAX0I

Explanation: This assembler job step cannot be exe-cuted because a DD statement is missing for one of the following assembler data sets: SYSUT1 SYSUT2, SYSUT3, or SYSIN. The missing DD statement is indicated in the message text.

System Action: The assembly ends before any statements are assembled. No assembler listing is produced, so this message is printed on the system output unit following the JCL statements for the assembly job step and on the operator's console.

Programmer Response: Supply the missing DD statement and reassemble the program. The cata-loged procedures supplied by IBM contain all the required statements.

If the problem recurs, do the following before notifying your IBM representative:

- Have your source program, macro definitions, and associated listings available.

- If a COPY statement was used, execute the IEBPTPCH utility to get a copy of the partitioned data set member specified in the COPY state-ment.

- Make sure that MSGLEVEL=(1,1) was specified in the JOB statement.

- If possible, supply the missing DD statement in the JCL statements for the assembly and run the job again.

Severity Code: 20. An I/O error from which the system could not recover occurred during assembly, or data sets are missing. Assembly stops immediately.

CWA261 **ASSEMBLY TERMINATED - PERM INPUT/OUTPUT ERROR—***jobname***,** *stepname, unit address, device type, ddname, operation attempted, error description*

Issued by: CWAX0C, CWAX0E, CWAX0G, CWAX0I

Explanation: A permanent I/O error occurred on the assembler data set indicated in the message text. This message, produced by a SYNADAF macro, also contains more detailed information about the cause of the error and where it occurred.

System Action: The assembly stops immediately. Depending on where the error occurred, the assembly listing up to the point of the I/O error may be produced. If the listing is produced, this message appears on it. If the listing is not produced, this message appears on the operator's console and on the system output unit following the JCL statements for the assembler job step.

Programmer Response: If the I/O error is on SYSIN or SYSLIB, you may have concatenated the input or library data sets incorrectly. Make sure that the DD statement for the data set with the largest block size (BLKSIZE) is placed in the JCL before the DD statements of the data sets concatenated to it. Also, make sure that all input or library data sets have the same device class (all DASD or all tape).

In any case, reassemble the program; it may assemble correctly. If the problem recurs, do the following before notifying your IBM representative:

- Have your source program, macro definitions, and associated listing available.
- If a COPY statement was used, execute the IEBPTPCH utility to get a copy of the partitioned data set member specified in the COPY statement.
- If the I/O error is on SYSUT1, SYSUT2, or SYSUT3, allocate the data set to a different volume and rerun the job. If the I/O error is on tape, check the tape for errors.
- Make sure that MSGLEVEL=(1,1) was specified in the JOB statement.

Severity Code: 20. An I/O error from which the system could not recover occurred during assembly, or data sets are missing. Assembly stops immediately.

CWA262 **ASSEMBLY TERMINATED - INSUFFICIENT MEMORY**

Issued by: CWAX0B, CWAX0I

Explanation: The assembler was unable to get at least 32KB of main storage for working storage, utility file buffers, and assembler tables and constants.

System Action: The assembly ends before any statements are assembled. No assembler listing is

produced, so this message is printed on the system output device following the JCL statements for the assembler job step and on the operator's console.

Programmer Response: Increase the size of the region or partition allocated to the assembler. Reassemble the program. If the problem recurs, do the following before notifying your IBM representative:

- Have your source program, macro definitions, and associated listing available.
- Make sure that MSGLEVEL=(1,1) was specified in the JOB statement.
- Increase the size of the region allocated on the JOB card or on the EXEC card for the assembler job step and rerun the job.
- Run the job in a larger partition.

Severity Code: 20. An I/O error from which the system could not recover occurred during assembly, or data sets are missing. Assembly stops immediately.

CWA263 **ASSEMBLY TERMINATED - PROGRAM LOGIC ERROR**

Issued by: CWAX0I

Explanation: The assembly has been abnormally ended because of a logic error within the assembler.

System Action: Abnormal termination. No assembler listing is produced. The assembler prints this message on the system output device following the JCL statements for the assembler job step.

Programmer Response: Do the following before notifying your IBM representative:

- Have your source program, macro definitions, and associated listing available.
- If a COPY statement was used, execute the IEBPTPCH utility program to get a copy of the partitioned data set member specified in the operand field of the COPY statement.

Severity Code: 20. An I/O error from which the system could not recover occurred during assembly, or data sets are missing. Assembly stops immediately.

CWA264 **TOO MANY ESD ENTRIES**

Issued by: CWAX6B

Explanation: The external symbol dictionary contains more that 799 entries. Entries in the external symbol dictionary are made for the following: control sections, dummy sections, external references (EXTRN and WXTRN), ENTRY symbols, and external dummy sections.

System Action: Entries over the 799 limit are not added to the dictionary and linkage is not provided for them.

Programmer Response: Subdivide your program and reassemble each section individually. Make sure that there are no more than 799 ESD entries in each assembly.

Severity Code: 12. Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

CWA265   SYMBOL RESOLUTION DATA AREA HAS BEEN EXHAUSTED

Issued by: CWAX6B

Explanation: One of the following has occurred:

- Too many literals have been found since a LTORG statement was encountered, and the assembler has filled available work space with literals.

- The assembler has filled available work space with ESD entries.

System Action: No assembly is performed.

Programmer Response: Do one of the following:

- Insert more LTORG statements in the source definition or allocate more working storage to the assembler.

- If there are more than 799 ESD entries in your source module, segment it into several modules.

Severity Code: 16. Critical errors were detected. Notify your IBM representative for assistance.

CWA266   LAST ASSEMBLER PHASE LOADED WAS *xxxxxxxx*

Issued by: CWAX0I

Explanation: This message is issued by the abort routine when the assembly abnormally ends.

System Action: Abnormal termination.

Programmer Response: Correct problems indicated by other error messages and reassemble.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA267   SYSPRINT DD CARD MISSING - NOLIST OPTION USED

Issued by: CWAX6B

Explanation: The LIST option is specified, but the DD statement for the SYSPRINT data set is not included in the JCL for this assembly. The SYSPRINT data set holds the object module output of the assembly normally directed to the printer.

System Action: The program is assembled using the NOLIST option.   The message is printed on the system output device following the JCL statements for the assembler job step and on the operator's console.

Programmer Response: Do one of the following:

- If you want a listing, reassemble the program with a SYSPRINT DD statement. Otherwise, do not specify the LIST option.

- Supply, if possible, a SYSPRINT DD card for the assembler job step and rerun the job.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA268   SYSTERM DD CARD MISSING - NOTERMINAL OPTION USED

Issued by: CWAX6B

Explanation: The TERMINAL option is specified, but the DD statement for the SYSTERM data set is not included in the JCL statements for this assembly. The SYSTERM data set contains diagnostic information output of the assembly, normally directed to a remote terminal.

Programmer Response: Do one of the following:

- If you want a SYSTERM listing, reassemble the program with a SYSTERM DD statement. Otherwise, do not specify the TERMINAL option.

- If possible, supply a SYSTERM DD card for the assembly step and rerun the job.

Severity Code: 4. Minor errors were detected. Your program probably will run correctly.

CWA269   SYSLIB DD CARD MISSING

Explanation: One of the following has occurred:

- A COPY instruction appears in the assembly, but no SYSLIB DD statement is included in the JCL statements.

- An operation code that is not a machine, assembler, or source macro operation code appears in the assembly, but no SYSLIB DD statement is included in the JCL statements. The assembler assumed the operation code was a library macro operation code.

System Action: One of the following will occur:

- The COPY instruction is ignored.
- The operation code is treated as an undefined operation code.

Programmer Response: Supply the missing DD statement or correct the operation code.

Severity Code: 16. Critical errors were detected. Notify your IBM representative for assistance.

DSJ Messages

DSJ000I
F600I   ACFTAP INTERNAL ERROR - CODE: *xxxxxxxx* RET: *yyyyyyyy*

Issued by: DSJCEPRT on behalf of "unknown" to SYSPRINT or console.

Explanation: An undefined error code (*xxxxxxxx* in decimal) was supplied to the error print routine. The return code in hexadecimal is *yyyyyyyy*.

System Action: Processing continues.

Programmer Response: No response is necessary.

ACFTAP EXECUTION BEGINS

Issued by: DSJCEPRT on behalf of DSJCETAP to console.

Explanation: This message is issued as the first action to occur when the main routine (DSJCETAP) is entered.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ002I
F602I   SYSTRACE/SYS008 INPUT FILE OPENED

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: This message is issued after the successful open of the trace input file.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ003I
F603I   SYSTRACE/SYS008 INPUT FILE CLOSED

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: This message is issued after the successful close of the trace input file.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ004I
F604I   TRACE FILE PROCESSING BEGINS.....

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: This message is issued prior to the first input operation performed on the trace input file.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ005I
F605I   TRACE FILE END OF FILE

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: This message is issued after an end-of-file condition on the trace input file.

System Action: The trace file is closed with a rewind option, permitting reprocessing of the file if desired. Either you are prompted for additional ACF/TAP parameters if the last parameter was from the system console, or additional parameters are read from the parameter input file if the last parameter was from the file.

Programmer Response: Enter additional ACF/TAP parameters, as required, or enter QUIT to stop processing.

DSJ006I
F606I   INPUT SELECTION LIMIT(S) ACHIEVED

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: This message is issued when the input selection limits of time, count, or both are reached.

System Action: The trace file is closed with a rewind option, permitting reprocessing of the file if desired. Either you are prompted for additional ACF/TAP parameters if the last parameter was from the system console, or additional parameters are read from the parameter input file if the last parameter was from the file.

Programmer Response: Examine the time and count input selection limits, correct the error condition, and rerun the job.

DSJ007I
F607I   TRACE FILE PROCESSING COMPLETE WITH INPUT/OUTPUT ERROR(S)

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: An input operation on the trace input file was not successfully completed. The input record was skipped.

System Action: DSJCETAP closes all files and stops immediately. This message is issued after the end-of-file condition occurs and is issued in place of DSJ005I or DSJ006I.

Programmer Response: Examine SYNAD information, correct the error condition, and rerun the job. SYNAD information, preceded by message DSJ008I, is written to the system log by means of the WTL macro for the MVS and VM versions of ACF/TAP. (See DSJ231I.)

DSJ008I   **Message text**

Issued by: DSJCEIOF on behalf of DSJCEIOF to SYSPRINT.

Explanation: The message text contains SYNAD information (byte 41 to byte 119) returned by the host system by means of the SYNADAF macro instruction. This message is issued only by the MVS and VM versions of ACF/TAP.

System Action: Parameter file processing continues (see DSJ025I). Trace file processing continues (see DSJ007I and DSJ231I). Output file processing stops immediately by means of the EROPT=ABE DCB option.

Programmer Response: Examine the SYNAD error fields, correct the error condition, and rerun the job.

For further information about the SYNAD error field, see *MVS Data Management Macro Instructions*.

DSJ010I   **UNABLE TO OPEN SYSPRINT/SYSLST**

Issued by: DSJCEPRT on behalf of DSJCETAP to console.

Explanation: The SYSPRINT data set cannot be opened. This message is issued only by the MVS and VM versions of ACF/TAP. No check for the successful open of the data set is made by the VSE version of ACF/TAP.

System Action: Processing is stopped immediately by the main routine.

Programmer Response: Check for a missing JCL or FILEDEF statement.

DSJ011I
F611I   **UNABLE TO OPEN SYSSSPRT/SYS002**

Explanation: Refer to DSJ016I.

DSJ012I
F612I   **UNABLE TO OPEN SYSLSPRT/SYS003**

Explanation: Refer to DSJ016I.

DSJ013I
F613I   **UNABLE TO OPEN SYSNEPRT/SYS004**

Explanation: Refer to DSJ016I.

DSJ014I
F614I   **UNABLE TO OPEN SYSDTPRT/SYS005**

Explanation: Refer to DSJ016I.

DSJ015I
F615I   **UNABLE TO OPEN SYSSDPRT/SYS006**

Explanation: Refer to DSJ016I.

DSJ016I
F616I   **UNABLE TO OPEN SYSLDPRT/SYS007**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: The named output print file could not be opened (MVS or VM) or the trace output file was assigned IGN (VSE).

System Action: Processing continues until all other output print files are opened. You are then prompted for additional parameters.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter QUIT to stop processing immediately, or *xxxxx*=NO to ignore the data sets that could not be opened (*xxxxx* is SSPRT, SDPRT, LSPRT, LDPRT, NEPRT, GSPRT, or DTPRT).
- Check for a missing JCL or FILEDEF statement.

DSJ017I
F617I   **UNABLE TO OPEN SYSTRACE/SYS008**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: Either the trace input file could not be opened (MVS and VM), or the trace input file was assigned IGN (VSE).

System Action: The main routine stops immediately after closing the files that have been opened.

Programmer Response: Check for a missing JCL or FILEDEF statement.

DSJ018I
F618I   **UNABLE TO OPEN SYSIN/SYSIPT**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The parameter input file cannot be opened either initially or in response to a READ command issued to DSJCETAP from the console. In MVS, the OPEN failed in response to a READ command from the console. In VM, either the parameter input file does not exist, or the parameter file was assigned IGN (VSE).

System Action: Processing continues, and you are prompted for parameters.

Programmer Response: Do one of the following:

- Enter ACF/TAP parameters as required.
- Check for a missing JCL or FILEDEF statement.

System Action: The main routine stops immediately after closing the files that have been opened.

DSJ019I   **UNABLE TO OPEN SYSVTPRT/SYS011**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: Either the trace output file could not be opened (MVS and VM), or the trace output file was assigned IGN (VSE).

System Action: Processing continues until all other output print files are opened. You are then prompted for additional parameters.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter QUIT to stop processing immediately, or VTPRT=NO to ignore the data set that could not be opened.

- Check for a missing JCL or FILEDEF statement.

DSJ020A
F620A   ENTER ACFTAP PARAMETERS OR READ, QUIT, LIST, GO, RESET

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: You are prompted to enter input parameters or the commands READ, QUIT, LIST, GO, or RESET.

System Action: Program waits for input from the console.

Programmer Response: Enter input parameters or one of the following commands:

- READ to have parameters read from the parameter input file

- QUIT to stop the execution of ACF/TAP immediately

- LIST to get a console listing of all parameters and their current values

- GO to cause the input trace file to be processed by ACF/TAP

- RESET to reset all parameters to their default values.

See the *NCP, SSP, and EP Trace Analysis Handbook* for more information about the ACF/TAP commands.

DSJ021I
F621I   PARAMETERS ARE RESET TO DEFAULT STATUS

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: One of the following has occurred:

- The parameter input routine has been entered.
- The RESET command has been entered.

System Action: Processing continues.

Programmer Response: No response is necessary.

SYSIN/SYSIPT PARAMETER INPUT FILE OPENED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The parameter input file has been successfully opened.

System Action: Processing continues, and the following parameters are read from the parameter input file until a command is read:

- LIST is ignored.

- READ is ignored.

- RESET causes the parameters to be reset to their default values.

- GO starts the processing of the trace input file.

- QUIT causes the execution of ACF/TAP to stop immediately.

- PROMPT causes the program to stop reading from the parameter input file and prompts you for additional input from the console.

Programmer Response: No response is necessary.

DSJ023I   PARAMETER FILE INPUT COMPLETE

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: An end-of-file condition occurred on the parameter input file.

System Action: Processing continues, and you are prompted for additional parameter input.

Programmer Response: Enter additional ACF/TAP parameters or commands from the console.

DSJ024I
F624I   PARAMETER FILE ALREADY ACCESSED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: A READ command was entered after either an error condition or an end of file occurred on the parameter input file.

System Action: Processing continues, and the READ command is ignored.

Programmer Response: Enter additional ACF/TAP parameters or commands. Do not enter the READ command.

DSJ025I   PERMANENT ERROR ON PARAMETER INPUT FILE

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: An input operation from the parameter input file was not successfully completed.

System Action: Processing continues, and you are prompted for additional ACF/TAP parameters or commands.

Programmer Response: Do one of the following:

- Enter additional ACF/TAP parameters or commands.

- Examine the SYNAD information, correct the error condition, and rerun the job.

Note: This message is issued only by the MVS and VM versions of ACF/TAP. SYNAD information, preceded by message DSJ008I, is sent to the system log by means of the WTL macro.

DSJ026I
F626I   INVALID SYNTAX - REMAINDER OF RECORD IGNORED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: A syntax error occurred in the parameter record currently being processed.

System Action: Processing continues and the remainder of the record is ignored. A prompt for cor-

rections is made if the input is from the parameter input file.

Programmer Response: Enter correct ACF/TAP parameters or commands when prompted.

Note: This message is followed by two additional messages: either DSJ029I if the input was from the console or DSJ089I if the input was from the parameter input file, and DSJ028I showing the approximate position where the syntax error occurred.

DSJ027I **UNABLE TO OPEN SYSGSPRT/SYS010**

Explanation: Refer to DSJ016I.

DSJ028I
F628I **l**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message is always preceded by either message DSJ029I or DSJ089I. The vertical indicator (l) points to the approximate location in the message text of DSJ029I or DSJ089I where scanning of the input parameter stopped because of a syntax error.

System Action: Processing continues and the current input parameter is ignored.

Programmer Response: Enter the correct parameter when prompted.

DSJ029I
F629I **Message text**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The message text shows the current input parameter value from the console.

System Action: Processing continues.

Note: This message is sent to SYSPRINT for every input parameter from the console and is followed by message DSJ028I if an error is detected in the input.

Programmer Response: No response is necessary.

DSJ030I
F630I *yyyyyyyy* **INCORRECT FOR** *xxxxxxxx*

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The parameter value *yyyyyyyy* is not valid for the keyword *xxxxxxxx*. (*xxxxxxxx*=*yyyyyyyy* is not correct.)

System Action: Processing continues.

Programmer Response: Enter correct parameter when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ031I
F631I **INVALID KEYWORD:** *xxxxxxxx*

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The keyword *xxxxxxxx* is not recognized.

System Action: Processing continues.

Programmer Response: Enter correct parameter when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ032I
F632I **INVALID PARAMETER:** *xxxxxxxx*

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The parameter value *xxxxxxxx* is not recognized.

System Action: Processing continues.

Programmer Response: Enter correct parameter when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ033I
F633I **INVALID TIME LIMITS - IGNORED**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The starting time (STIME) is greater than the ending time (ETIME) and the starting date (SDATE) is equal to the ending date (EDATE).

System Action: Processing continues.

Programmer Response: Enter correct time limits when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for more information about either ACF/TAP parameters or the interactions and default values for the SDATE, EDATE, STIME, and ETIME parameters.

DSJ034I
F634I **INVALID COUNT LIMITS - IGNORED**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: For the selection of trace records, the starting count (START) is greater than the ending count (END).

System Action: Processing continues.

Programmer Response: Enter the correct count limits when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ035I

F635I   INVALID TIMEOUT LIMIT (0 To 255 ONLY)

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The time-out limit (TIMEOUT) exceeded a value of 255 (25.5 seconds).

System Action: The input is ignored, and the time-out limit is reset to the default value of 010 (1 second).

Programmer Response: Enter correct time-out value when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ036I

F636I   UNABLE TO OPEN SYSIXPRT/SYS012

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: The named output print file could not be opened (MVS and VM) or the trace output file was assigned IGN (VSE).

System Action: Processing continues until all other output print or sort/work files are opened. You are then prompted for additional parameters.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter QUIT to stop processing immediately, or *xxxxx*=NO to ignore the data sets that could not be opened.

- Check for a missing JCL or FILEDEF statement.

DSJ037I

F637I   INVALID MAXSUBA (3, 7, 15, 31, 63, 127, 255 ONLY)

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The specified MAXSUBA is not one of the seven valid values.

System Action: Processing continues and the MAXSUBA value is reset to the default of 15.

Programmer Response: Enter correct MAXSUBA when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ038I

F638I   *xxxx* = (*sss*,*eeeee*) INVALID - IGNORED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The SSCP or CDRM (*xxxx*) subarea and element combination is invalid because of one of the following conditions:

- The subarea (*sss*) is equal to 0 or greater than 255.

- The element (*eeeee*) is greater than 16381.

- The element (*eeeee*) is greater than the maximum number of elements possible with the specified MAXSUBA keyword value.

System Action: Processing continues, and the address is not reset.

Programmer Response: If the address is incorrect, enter the correct subarea and element for the SSCP or CDRM (see the SSCP and CDRM parameters in *NCP, SSP, and EP Diagnosis Guide*).

If the MAXSUBA value was incorrect, enter the correct MAXSUBA value (see the MAXSUBA parameter in *NCP, SSP, and EP Diagnosis Guide*). After correcting MAXSUBA, the subarea and element address can be corrected.

To eliminate an SSCP or CDRM entry for a particular subarea (*sss*), enter SSCP=*sss* or CDRM=*sss*.

Note: SSCP and CDRM addresses must be supplied to ACF/TAP so it can recognize and decode network services commands and responses (ACTLINK or SETCV). Network addresses for SSCP and CDRM components can be found in one of the following places:

- For VTAM the network can be found in the network definition member of the partitioned data set SYS.VTAMLST.

- For TCAM, the network can be found in the terminal table layout.

- For VSE, the trace output file was assigned IGN.

DSJ039I

F639I   INVALID LINECOUNT - IGNORED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The LINECNT limit was less than 25 lines per page.

System Action: The input is ignored and the LINECNT parameter is reset to 60.

Programmer Response: Enter correct LINECNT when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for information about ACF/TAP parameters.

DSJ040I

F640I   INPUT IGNORED - MAX NUMBER OF INDEX PARAMETERS EXCEEDED (20)

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: More index parameters were specified than ACF/TAP can process.

System Action: Only the first 20 index parameters specified are used. ACF/TAP ignores the remainder of the index parameters that were specified.

Programmer Response: Run ACF/TAP a second time specifying the parameters that were ignored during the first run to obtain processing for all of the parameters that were originally specified.

DSJ041I
F641I UNABLE TO OPEN SYSNTPRT/SYS015

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: One of the following occurred:

- For MVS and VM, the named output print file could not be opened.
- For VSE, the trace output file was assigned IGN.

System Action: Processing continues until all other output print or sort and work files are opened. You are then prompted for additional parameters.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter either QUIT to stop processing immediately, or *xxxxx*=NO to ignore the data sets that could not be opened.
- Check for a missing JCL or FILEDEF statement.

DSJ042I
F642I UNABLE TO OPEN SYSNPPRT/SYS016

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: The named output print file could not be opened (MVS and VM) or the trace output file was assigned IGN (VSE).

System Action: Processing continues until all other output print or sort and work files are opened. You are then prompted for additional parameters.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter either QUIT to stop processing immediately, or *xxxxx*=NO to ignore the data sets that could not be opened.
- Check for a missing JCL or FILEDEF statement.

DSJ043I
F642I UNABLE TO OPEN SORTIN/SYSW1PRT/SYS013

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: The named sort and work file could not be opened.

System Action: The main routine stops immediately after closing the files that were opened.

Programmer Response: Check for a missing JCL or FILEDEF statement.

Note: Make sure that the sort and work files are defined in the JCL.

DSJ044I
F642I UNABLE TO OPEN SORTOUT/SYSW2PRT/SYS014

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: The named sort and work file could not be opened.

System Action: The main routine stops immediately after closing the files that were opened.

Programmer Response: Check for a missing JCL or FILEDEF statement.

Note: Make sure that the sort and work files are defined in the JCL.

DSJ045I UNABLE TO OPEN SYSLUPRT/SYS017

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: One of the following occurred:

- For MVS and VM, the trace output file could not be opened.
- For VSE, the trace output file was assigned IGN.

System Action: Processing continues until all other output print files are opened. You are then prompted for additional parameters.

Programmer Response: Check for a missing JCL or FILEDEF statement.

DSJ046I
F633I INVALID DATE PARAMETERS - IGNORED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The starting date (SDATE) is greater than the ending date (EDATE).

System Action: Processing continues.

Programmer Response: Enter correct date limits when prompted for additional ACF/TAP parameters or commands.

See the *NCP, SSP, and EP Trace Analysis Handbook* for more information about either ACF/TAP parameters or interactions and default values for the SDATE and EDATE parameters.

DSJ047I WRAP = *x* Y=YES N=NO I=IGNORE (WRAPPED DATA SET)

Explanation: Refer to DSJ079I.

DSJ048I
F633I NODE DEFAULTED ON GPT INPUT - TO SPECIFY NODES USE GPTNODE

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The node parameter is invalid for INPUT=GPT. The parameter GPTNODE has been added to allow for node processing for GPT input.

System Action: Processing continues.

Programmer Response: Enter a node using GPTNODE or enter INPUT=ALL.

See the *NCP, SSP, and EP Trace Analysis Handbook* for more information about either the GPTNODE parameter or ACF/TAP parameters.

DSJ049I NCPNAME IS ONLY VALID WHEN INPUT=GPT OR INPUT=ALL

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The NCPNAME parameter may be used only when INPUT=GPT or INPUT=ALL is specified.

System Action: Processing continues.

Programmer Response: Either reenter the command with an INPUT parameter of GPT or ALL, or do not use the NCPNAME parameter.

See the *NCP, SSP, and EP Trace Analysis Handbook* for more information about the NCPNAME and INPUT parameters.

DSJ050I
F650I ACFTAP PARAMETERS

Explanation: Refer to DSJ079I.

DSJ051I
F651I INPUT = *x* S=SCAN L=LINE B=BUFFER(PIU) I=IO(RNIO) A=ALL G=GPT N=NETCTLR V=VIT

Explanation: Refer to DSJ079I.

DSJ052I
F652I SOURCE = *x* F=GTF D=DOS C=COMWRITE A=APPN

Explanation: Refer to DSJ079I.

DSJ053I
F653I LDPRT = *x* Y=YES N=NO E=ERROR I=IP S=SNA (LINE TRACE DETAIL)

Explanation: Refer to DSJ079I.

DSJ054I
F654I LSPRT = *x* Y=YES N=NO I=IP S=SNA (LINE TRACE SUMMARY)

Explanation: Refer to DSJ079I.

DSJ055I
F655I SDPRT = *x* Y=YES N=NO (SNA DETAIL)

Explanation: Refer to DSJ079I.

DSJ056I
F656I SSPRT = *x* Y=YES N=NO (SNA SUMMARY)

Explanation: Refer to DSJ079I.

DSJ057I
F657I DTPRT = *x* Y=YES N=NO (NETWORK DATA TRAFFIC)

Explanation: Refer to DSJ079I.

DSJ058I
F658I NEPRT = *x* Y=YES N=NO (NETWORK ERROR)

Explanation: Refer to DSJ079I.

DSJ059I
F659I SUMMARY = *x* Y=YES N=NO A=ALL E=EVERY (INPUT SUMMARY)

Explanation: Refer to DSJ079I.

DSJ060I
F660I DUMP = *x* Y=YES N=NO (TRACE RECORD DUMP)

Explanation: Refer to DSJ079I.

DSJ061I
F661I START = *nnnnnnnn* (SELECT START COUNT)

Explanation: Refer to DSJ079I.

DSJ062I
F662I END = *nnnnnnnn* (SELECT END COUNT)

Explanation: Refer to DSJ079I.

DSJ063I
F663I STIME = *hh:mm:ss:000000* (SELECT START TIME)

Explanation: Refer to DSJ079I.

DSJ064I
F664I ETIME = *hh:mm:ss:000000* (SELECT END TIME)

Explanation: Refer to DSJ079I.

DSJ065I
F665I NODE = (REFLECTS USER SELECTION)

Explanation: Refer to DSJ079I.

DSJ066I
F666I MAXSUBA = *nnn* (3, 7, 15, 31, 63, 127, 255)

Explanation: Refer to DSJ079I.

DSJ067I
F667I SSCP = (*xxx,xxxxx*)

Explanation: Refer to DSJ079I.

DSJ068I
F668I CDRM = (*xxx,xxxxx*)

Explanation: Refer to DSJ079I.

DSJ069I
F669I LINECNT = *nnnnnnnn* (25 To 99999999)

Explanation: Refer to DSJ079I.

DSJ070I
F670I RRSUP = *x* P=PAIR N=NO Y=YES

Explanation: Refer to DSJ079I.

DSJ071I
F671I TIMEOUT = *nnn* (0 To 255)

Explanation: Refer to DSJ079I.

DSJ072I
F672I UNIT = *uuuu* (TAPE DISK)

Explanation: Refer to DSJ079I.

DSJ073I
F673I   PRINT = *x* N=NO Y=YES (TRACE DATA TO SYSPRINT/SYSLST)

Explanation: Refer to DSJ079I.

DSJ074I   VTPRT = *x* Y=YES N=NO (VIT REPORT)

Explanation: Refer to DSJ079I.

DSJ075I   NCPNAME = (SELECT NCPNAME OR FIRST NAME)

Explanation: Refer to DSJ079I.

DSJ076I   GSPRT = *x* Y=YES N=NO (GPT SUMMARY)

Explanation: Refer to DSJ079I.

DSJ077I   VITTYPE = *xxxxxxxx*

Explanation: Refer to DSJ079I.

DSJ078I   VITSTR = (c'character string'/x'hex string')

Explanation: Refer to DSJ079I.

DSJ079I   VNAME = (VTAM *jobname*/ASCB *address*)

Issued by: DSJCEPRT on behalf of DSJPARM to SYSPRINT or console.

Explanation: This message is issued to the console, along with message DSJ047I, messages DSJ090I to DSJ098I, messages DSJ275I to DSJ279I, and message DSJ290I. It is issued in response to either the LIST command entered at the console, or to SYSPRINT in response to the GO command issued from either the console or the parameter input file. When output is to SYSPRINT, the only messages printed are those whose default values were used, or those whose values were specified by the user and used during the processing of the trace file.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ080I
F680I   PARAMETERS IN INPUT IN ERROR

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: If parameters are entered incorrectly, you can correct the error. This message is issued to indicate the reason why additional parameters are being requested.

System Action: Processing continues and you are prompted for additional input from the console.

Programmer Response: Enter additional ACF/TAP parameters or commands.

DSJ081I
F681I   PROMPT COMMAND ISSUED FROM SYSIN/SYSIPT

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The PROMPT command was issued from the parameter input file.

System Action: Processing continues and you are prompted for additional input from the console.

Programmer Response: Enter additional ACF/TAP parameters or commands.

DSJ082I
F682I   GO COMMAND ISSUED FROM SYSIN/SYSIPT

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The GO command was issued from the parameter input file.

System Action: Parameter input stops immediately, and trace file processing begins.

Programmer Response: No response is necessary.

DSJ083I
F683I   QUIT COMMAND ISSUED FROM SYSIN/SYSIPT

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message informs you that the QUIT command was issued from the parameter input file.

System Action: Parameter input and program execution stop immediately.

Programmer Response: No response is necessary.

DSJ084I
F684I   LIST COMMAND FROM SYSIN/SYSIPT IGNORED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The LIST command was issued from the parameter input file.

System Action: The LIST command from the parameter input file is ignored.

Programmer Response: No response is necessary.

DSJ085I
F685I   READ COMMAND FROM SYSIN/SYSIPT IGNORED

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The READ command was issued from the parameter input file.

System Action: The READ command from the parameter input file is ignored.

Programmer Response: No response is necessary.

DSJ086I
F686I   RESET COMMAND ISSUED FROM SYSIN/SYSIPT

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The RESET command was issued from the parameter input file.

System Action: All ACF/TAP parameters are reset to their default values.

Programmer Response: No response is necessary.

DSJ087I **UNRECOGNIZABLE RECORD FORMAT**

Issued by: DSJCEPRT on behalf of DSJCTBLK to SYSPRINT or console.

Explanation: The record has an unrecognizable TCAM COMWRITE header.

System Action: The bad record is printed in dump format and processing continues.

Note: This message is issued for MVS and VM only.

Programmer Response: No response is necessary.

DSJ088I
F688I **INDEX   = INDEX(   ) OAF/DAF(   )**

Explanation: Refer to DSJ098I.

DSJ089I
F689I *message text*

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The message text shows the current parameter value read from the parameter input file.

System Action: Processing continues.

Note: This message is output to SYSPRINT for every parameter read from the parameter input file and is followed by DSJ028I if a syntax error is detected in the input.

Programmer Response: No response is necessary.

DSJ090I **NTPRT = *x* Y=YES N=NO F=FRTR I=IP N=NTRI (NTRI REPORT)**

Explanation: Refer to DSJ098I.

DSJ091I **LLN = (LOGICAL LINE NUMBER)**

Explanation: Refer to DSJ098I.

DSJ092I
F692I **NPPRT = *x* Y=YES N=NO (X.25 REPORT)**

Explanation: Refer to DSJ098I.

DSJ093I
F693I **LCN = (LOGICAL CHANNEL NUMBER)**

Explanation: Refer to DSJ098I.

DSJ094I
F694I **IXPRT = *x* Y=YES N=NO (INDEX REPORT)**

Explanation: Refer to DSJ098I.

DSJ095I **LUPRT = *x* Y=YES N=NO (LUNAME-NETADDRESS XREF)**

Explanation: Refer to DSJ098I.

DSJ096I **LONGPIU = *x* Y=YES N=NO (MAXIMUM DATA LENGTH Y=4092 N=252)**

Explanation: Refer to DSJ098I.

DSJ097I **SDATE = *mm.dd.yy* (SELECT START DATE)**

Explanation: Refer to DSJ098I.

DSJ098I **EDATE = *mm.dd.yy* (SELECT END DATE)**

Issued by: DSJCEPRT on behalf of DSJPARM to SYSPRINT or console.

Explanation: This message is issued to the console, along with message DSJ047I, messages DSJ050I to DSJ079I, messages DSJ275I to DSJ279I, and message DSJ290I. It is issued in response to either the LIST command entered at the console or to SYSPRINT in response to the GO command issued from either the console or the parameter input file. When output is to SYSPRINT, the only messages printed are those whose default values were used, or those whose values were specified by the user and used during the processing of the trace file.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ099I
F699I **ACFTAP TERMINATES**

Issued by: DSJCEPRT on behalf of DSJCETAP to console.

Explanation: This message is issued as the last action to occur when the main routine (DSJCETAP) has completely executed.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ100I **MESSAGE *xxxxxxx* ACFTAP INTERNAL ERROR CODE: *yyyyyyyy* RET: *zzzzzzzz***

Issued by: DSJYEMIT on behalf of "unknown" to SYSPRINT and SYSNEPRT.

Explanation: An undefined error code (*yyyyyyyy* in decimal) was supplied to the network error print routine. *xxxxxxx* is the ACF/TAP-assigned message number, and *zzzzzzzz* is the return code in hexadecimal.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ101I **MESSAGE *xxxxxxx* INCOMPLETE BASIC LINK UNIT**

Issued by: DSJYEMIT on behalf of DSJRSDLC to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the SDLC frame (address, control and BCC) bytes. *xxxxxxx* is the ACF/TAP-assigned message number.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ102I   This message number can have one of three messages. See Explanation for the possible messages.

Issued by: DSJYEMIT on behalf of DSJRASCM to SYSPRINT and SYSNEPRT.

Explanation: One of the following messages will appear for this message number:

- **MESSAGE/ELEMENT** *xxxxxxx* **SDLC REJ - FRAME REJECT**

- **MESSAGE** *xxxxxxx* **SDLC REJ - FRAME REJECT**

   Line trace for type 1 or 2 scanner.

- **ELEMENT** *xxxxxxx* **SDLC REJ - FRAME REJECT**

   Line trace for type 3 scanner.

The occurrence of the SDLC reject command (REJ) is noted. *xxxxxxx* is the ACF/TAP-assigned message or element number.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ104I   This message number can have one of three messages. See Explanation for the possible messages.

Issued by: DSJYEMIT on behalf of DSJRASCM to SYSPRINT and SYSNEPRT.

Explanation: One of the following messages will appear for this message number:

- **MESSAGE/ELEMENT** *xxxxxxx* **SDLC CMDR - COMMAND REJECT**

- **MESSAGE** *xxxxxxx* **SDLC CMDR - COMMAND REJECT**

   Line trace for type 1 or 2 scanner.

- **ELEMENT** *xxxxxxx* **SDLC CMDR - COMMAND REJECT**

   Line trace for type 3 scanner.

The occurrence of the SDLC command reject (CMDR) is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: Examine trace data to determine the cause of the error condition.

DSJ105I   This message number can have one of three messages. See Explanation for the possible messages.

Issued by: DSJYEMIT on behalf of DSJRASCM to SYSPRINT and SYSNEPRT.

Explanation: One of the following messages will appear for this message number:

- **MESSAGE/ELEMENT** *xxxxxxx* **INVALID SDLC SUPERVISORY FRAME**

- **MESSAGE** *xxxxxxx* **INVALID SDLC SUPERVISORY FRAME**

   Line trace for type 1 or 2 scanner.

- **ELEMENT** *xxxxxxx* **INVALID SDLC SUPERVISORY FRAME**

   Line trace for type 3 scanner.

The SDLC supervisory frame command is not defined. *xxxxxxx* is the ACF/TAP-assigned message or element number.

System Action: No further processing is performed on the message or element.

Programmer Response: Examine the trace data to determine the cause of the error condition.

For form 2 messages, see the type 3 scanner status element in the Line Trace Summary Report or the Line Trace Detail Report.

DSJ106I   This message number can have one of three messages. See Explanation for the possible messages.

Issued by: DSJYEMIT on behalf of DSJRASCM to SYSPRINT and SYSNEPRT.

Explanation: One of the following messages will appear for this message number.

- **MESSAGE** *xxxxxxx* **INVALID SDLC NONSEQUENCED FRAME**

- **MESSAGE** *xxxxxxx* **INVALID SDLC NONSEQUENCED FRAME**

   Line trace for type 1 or 2 scanner.

- **ELEMENT** *xxxxxxx* **INVALID SDLC NONSEQUENCED FRAME**

   Line trace for type 3 scanner.

The SDLC nonsequenced frame command is invalid. *xxxxxxx* is the ACF/TAP-assigned message or element number.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ110I   **MESSAGE** *xxxxxxx* **INCOMPLETE TRANSMISSION HEADER**

Issued by: DSJYEMIT on behalf of DSJRANTH to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the transmission header. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ111I   **MESSAGE** *xxxxxxx* **INVALID TRANSMISSION HEADER FIELD**

Issued by: DSJYEMIT on behalf of DSJRANTH to SYSPRINT and SYSNEPRT.

Explanation: The transmission header format identifier is not 0, 1, 2, 3, or 4. *xxxxxxx* is the ACF/TAP-assigned message number.

System Action: No further processing is performed on the message.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ112I   **ELEMENT** *xxxxxxx* **TRUNCATED NTRI ENTRY TYPE**

Issued by: DSJYEMIT on behalf of DSJNTITR to SYSPRINT and SYSNEPRT.

Explanation: ACF/TAP detected a truncated entry type in the NTRI line trace element being processed. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: No further processing is performed on the element.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ113I   **ELEMENT** *xxxxxxx* **TRUNCATED NTRI FRAME**

Issued by: DSJYEMIT on behalf of DSJNTITR to SYSPRINT and SYSNEPRT.

Explanation: In the NTRI line trace element being processed, ACF/TAP detected a truncated LLC frame. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: No further processing is performed on the element.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ114I   **ELEMENT** *xxxxxxx* **LLC REJECT**

Issued by: DSJYEMIT on behalf of DSJLNCTL to SYSNEPRT.

Explanation: In the NTRI line trace element being processed, ACF/TAP detected an LLC frame reject. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: Processing continues.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ115I   **ELEMENT** *xxxxxxx* **INVALID LLC NONSEQUENCED FRAME**

Issued by: DSJYEMIT on behalf of DSJLNCTL to SYSNEPRT.

Explanation: In the NTRI line trace element being processed, ACF/TAP detected an invalid LLC nonsequenced frame. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: No further processing is performed on the element.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ116I   **ELEMENT** *xxxxxxx* **LLC CMDR - COMMAND REJECT**

Issued by: DSJYEMIT on behalf of DSJLCTL to SYSNEPRT.

Explanation: In the NTRI line trace element being processed, ACF/TAP detected an LLC command reject. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: Processing continues.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ117I   **ELEMENT** *xxxxxxx* **PACKET CMDR - COMMAND REJECT**

Issued by: DSJYEMIT on behalf of DSJLNCTL to SYSPRINT and SYSNEPRT.

Explanation: In the X.25 packet header being processed, ACF/TAP detected a packet command reject. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: Processing continues.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ118I   **ELEMENT** *xxxxxxx* **INVALID LLC SUPERVISORY FRAME**

Issued by: DSJYEMIT on behalf of DSJLNCTL to SYSNEPRT.

Explanation: In the NTRI line trace element being processed, ACF/TAP detected an invalid LLC supervisory frame. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: No further processing is performed on the element.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ119I   **ELEMENT** *xxxxxxx* **INVALID PACKET HEADER COMMAND**

Issued by: DSJYEMIT on behalf of DSJLNCTL to SYSPRINT and SYSNEPRT.

Explanation: In the X.25 packet header being processed, ACF/TAP detected an invalid packet header command. *xxxxxxx* is the ACF/TAP-assigned element number of the trace entry being processed.

System Action: No further processing is performed on the element.

Programmer Response: Trace data should be examined to determine the cause of the error condition.

DSJ120I MESSAGE *xxxxxxx* INCOMPLETE REQUEST HEADER

Issued by: DSJYEMIT on behalf of DSJRANRH to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the request header (RH). The ACF/TAP-assigned sequence number is *xxxxxxx*.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ121I MESSAGE *xxxxxxx* INVALID REQUEST HEADER FIELD

Issued by: DSJYEMIT on behalf of DSJRANRH to SYSPRINT and SYSNEPRT.

Explanation: No check is made of the reserved/restricted bits in the request header.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ122I MESSAGE *xxxxxxx* INCOMPLETE NETWORK CONTROL/SC/DFC COMMAND

Issued by: DSJYEMIT on behalf of DSJRANRU to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the session control, network control, or data flow control (DFC) command byte. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ123I MESSAGE *xxxxxxx* INCOMPLETE NETWORK SERVICES RESPONSE UNIT

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the header bytes of the network services formatted FM data to or from an SSCP or CDRM. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ124I MESSAGE *xxxxxxx* UNDEFINED SESSION CONTROL/NETWORK CONTROL/DFC COMMAND

Issued by: DSJYEMIT on behalf of DSJRANRU to SYSPRINT and SYSNEPRT.

Explanation: The session control, network control, or data flow control (DFC) command is not defined to DSJCETAP. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ125I MESSAGE *xxxxxxx* UNDEFINED NETWORK SERVICES COMMAND

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The network services command is not defined in DSJCETAP. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ126I MESSAGE *xxxxxxx* SENSE DATA FIELD PRESENT *sssssssseeee....eeee*

Issued by: DSJYEMIT on behalf of DSJRSENS to SYSPRINT and SYSNEPRT.

Explanation: The presence of channel sense data (*ssssssss*) in the trace entry is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed. *eeee* is the English translation of the sense code.

System Action: Processing of the trace entry continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *NCP and EP Reference Summary and Data Areas*, Volume 2, for information about channel sense data.

DSJ127I MESSAGE *xxxxxxx* INVALID OAF/DAF ADDRESS

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: A formatted function management (FM) data path information unit (PIU) contained an OAF/DAF address for subarea 0 with a nonzero element address. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: Processing of the trace data continues.

Programmer Response: Verify that the correct MAXSUBA parameter has been specified, because

making an incorrect specification or allowing the default can cause this message to be issued.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ128I   **MESSAGE** *xxxxxxx* **INCOMPLETE SENSE DATA FIELD**

Issued by: DSJYEMIT on behalf of DSJRANRH to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the sense data bytes. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

DSJ129I   **MESSAGE** *xxxxxxx* **UNDEFINED SENSE DATA FIELD**

Issued by: DSJYEMIT on behalf of DSJRSENS to SYSPRINT and SYSNEPRT.

Explanation: The sense bytes are not defined to DSJCETAP. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: No further processing is performed on this message.

Programmer Response: See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ130I   **MESSAGE** *xxxxxxx* **INCOMPLETE FID0 BTU CMD/MODIFIER**

Issued by: DSJYEMIT on behalf of DSJRABTU to SYSPRINT and SYSNEPRT.

Explanation: Insufficient data remains in the current trace entry to permit processing of the FID0 basic transmission unit (BTU) bytes. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

This message appears only if the SNA detail report is run.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ131I   **MESSAGE** *xxxxxxx* **INVALID FID0 BTU CMD/MODIFIER**

Issued by: DSJYEMIT on behalf of DSJRPBTU to SYSPRINT and SYSNEPRT.

Explanation: The basic transmission unit command or response is not defined to DSJCETAP. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

This message appears only if the SNA detail report is run.

System Action: No further processing is performed on the message.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ140I   **MESSAGE** *xxxxxxx* **NETWORK SERVICES PROCEDURE ERROR**

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the NSPE network services request unit is noted.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ141I   **MESSAGE** *xxxxxxx* **BIND FAILURE**

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the BINDF network services request unit is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry being processed.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ142I   **MESSAGE** *xxxxxxx* **UNBIND FAILURE**

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the UNBINDF network services request unit is noted.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ143I   MESSAGE *xxxxxxx* INOPERATIVE

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the INOP network services request is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ144I   MESSAGE *xxxxxxx* LOST PATH

Issued by: DSJYEMIT on behalf of DSJRANRU to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the LOSTPATH network control command is noted.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ145I   MESSAGE *xxxxxxx* LOST SUBAREA

Issued by: DSJYEMIT on behalf of DSJRANRU to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the lost subarea network control command is noted.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ146I   MESSAGE *xxxxxxx* REQUEST RECOVERY (RQR)

Issued by: DSJYEMIT on behalf of DSJRANRU to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the RQR session control command is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ147I   MESSAGE *xxxxxxx* X-DOMAIN SESSION SETUP FAILURE

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the CDSESSF network services request unit is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ148I   MESSAGE *xxxxxxx* X-DOMAIN SESSION TAKEDOWN FAIL

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of the CDSESSTF network services request unit is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry currently being processed.

System Action: Processing of the trace data continues.

Programmer Response: Examine the trace data to determine the cause of the error condition.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ149I   MESSAGE *xxxxxxx* NETWORK MANAGEMENT VECTOR TRANSPORT

Issued by: DSJYEMIT on behalf of DSJRAFMH to SYSPRINT and SYSNEPRT.

Explanation: The occurrence of a network management vector transport RU is noted. *xxxxxxx* is the ACF/TAP-assigned message number of the trace entry containing the NMVT. The major vector key is examined and the type of NMVT is identified on the different reports.

System Action: Processing of the trace data continues.

Programmer Response: Examine the NMVT for further information.

See *Systems Network Architecture Format and Protocol Reference Manual: Management Services* for more information.

DSJ199I   MESSAGE *xxxxxxx* TRACE DATA MAY BE DISCONTINUOUS

Issued by: DSJYEMIT on behalf of DSJRDRVR to SYSPRINT and SYSNEPRT.

Explanation: A continuity error condition was detected in the input data. This message reflects the continuity error to the analysis portion of ACF/TAP.

Note: This message prints with message DSJ230I

and one of these messages: DSJ241I, DSJ242I, DSJ243I, DSJ244I, DSJ245I, DSJ248I, or DSJ249I.

System Action: ACF/TAP internal buffers are reset to avoid merging unrelated pieces of data. Suppression of receive ready (RR) pairs in SDLC line trace is reset.

Programmer Response: When analyzing trace data, be aware of the continuity situation.

DSJ201I **GTF RECORD** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddddd***) AID(***aa***) FID(***ff***) EID(***eeee***)** *tttttttttttttt*

Issued by: DSJCEPRT on behalf of DSJTDRVR to SYSPRINT.

Explanation: This message describes the contents of the GTF header portion of GTF trace records. The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned input record number
lllll	Input record length
mm:dd:yy	Time-stamp date field from the input record or from the last GTF time-stamp control record
hh:mm:ss:dddddd	Time-stamp time field from the input record or from the last GTF time-stamp control record
aa	GTF AID (action identifier) field
ff	GTF FID (format identifier) field
eeee	GTF EID (event identifier) field
tttttttttttttt	Literal describing recognized records: (VTAM RNIO IN, VTAM RNIO OUT, VTAM BUFFER, USER BUFFER, and NCP TRACE, NETCTLR TRACE, or VIT TRACE)

Note: In certain situations, the contents of the GTF trace record headers, in conjunction with non-VTAM GTF trace records, can be valuable in problem determination.

System Action: Processing continues.

Programmer Response: Information about GTF can be found in *MVS/Extended Architecture System Programming Library Service Aids*.

DSJ202I **DOS BLOCK** *nnnnnnn* **LENG(***lllll***) LRC(***vvvvv***) ID(***iiiii***) SEQ(***sssss***) COUNT(***ccccc***)**

Issued by: DSJCEPRT on behalf of DSJTDRVR to SYSPRINT.

Explanation: This message describes the contents of the DOS/VTAM trace block header. The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned input record number
lllll	Block length from the block header
vvvvv	Lost trace block count
iiiii	Trace block identifier, normally "TRACE"
sssss	Trace block sequence number
ccccc	Count of the VTAM trace records in the trace block

System Action: Processing continues.

Programmer Response: You can find detailed information relating to DOS/VTAM trace file contents in *VTAM Network Implementation Guide*.

DSJ203I **This message number can have one of three messages. See Explanation for the possible messages.**

Issued by: DSJCEPRT on behalf of DSJTDRVR to SYSPRINT.

Explanation: One of the following messages will appear for this message number:

- **VTAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddddd***) LRC(***ii/oo***)** *tttttttttttttt* **dir** *eeeeeee* **S(***nnnnnnnn.ssssssss***) D(***aaaaaaaa.dddddddd***)**

- **VTAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddddd***) LRC(***ii/oo***)** *tttttttttttttt* **dir** *eeeeeee* **S(***nnnnnnnn.ssssssss***) D(***aaaaaaaa.dddddddd***) SEGMENT(***ggggggggg***)**

- **VTAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddddd***)** *tttttttttttttt* **dir** *eeeeeee* **IP ORIGIN(***o.oo.oo.ooo***) IP DESTINATION(***i.ii.ii.iii***) ORIGIN PORT(***ppppp***) DESTINATION PORT(***rrrrr***)**

These messages describe the contents of the VTAM record from the VTAM record header. The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned VTAM record number
lllll	VTAM record length from the VTAM record header
mm:dd:yy	Converted time-stamp date field from the trace record header
hh:mm:ss:dddddd	Converted time-of-day time-stamp time field from the trace record header
ii	Hexadecimal inbound lost record count from the trace record header
oo	Hexadecimal outbound lost record count from the trace record header
tttttttttttttt	Literal describing processable records (VTAM IO/RNIO, VTAM PBUFFER, USER BUFFER, USER PBUFFER, USER FBUFFER, VTAM FBUFFER, SNIP TRACE and NCP TRACE)
dir	Trace direction with respect to the host access method
eeeeeee	Next element count to be assigned by ACF/TAP to a line trace element.
nnnnnnnn.ssssssss	Network source address and source NODENAME, or line name of the line being traced
aaaaaaaa.dddddddd	Network destination address and destination NODENAME. (Blank if line trace.)
o.oo.oo.ooo	Remote Internet (IP) address
i.ii.ii.iii	Local Internet (IP) address
ppppp	Local port number
rrrrr	Remote port number
ggggggggg	Shows the full buffer trace status as either COMPLETE, FIRST, MIDDLE, or LAST. If the segment is FIRST, MIDDLE, or LAST, then the sequence number is also given.

System Action: Processing continues.

Programmer Response: Information about VTAM trace file contents can be found in the appropriate VTAM installation manual.

DSJ204I **This message number can have one of two messages. See Explanation for the possible messages.**

Issued by: DSJCEPRT on behalf of DSJTDRVR to SYSPRINT.

Explanation: One of the following messages will appear for this message number:

- **LINE TRACE** *nnnnnnn* **TYPE(***tt***) LINE(***llll***)** *dddd* **DUPLEX** *bbbbb* **]***ssssssss*[*llllllll* **TIME(***mm***) EP(***ee***) STATUS(***ss***)** *wwwwwwww eeeeeee*

    Trace Type: Line trace header.

- **GPIU TRACE** *nnnnnnn* **TYPE(***tt***) NCPADDR(***aaaa***) STATUS(***ss***)**

    Trace Type: Generalized PIU trace header.

Both of these messages describe the contents of the record trace header information returned by NCP to the host access method as part of the line trace or generalized PIU trace data. The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned input record number
tt	RU1WT byte returned as part of the record line trace or generalized PIU trace header
llll	Hexadecimal network address of the line that is being traced
dddd	HALF or FULL duplex
bbbbb	CSB-3 if the line trace is being performed on a line attached to a type 3 scanner
ssssssss	SECONDARY, PRIMARY, LIM, or COUPLER
	SECONDARY or PRIMARY, depending upon whether the link is traced as the secondary or primary SDLC station
	LIM or COUPLER, CSS trace point indication for the link level trace (LLT).
llllllll	TRANSMIT or RECEIVE if the line is a duplex line, otherwise, blank. This field indicates which leg of the link (inbound or outbound) is represented by the trace data.
mm	RU1TH (25.5 second timer) returned as part of the record line trace header
ee	RU1SCA byte returned as part of the record line trace header
ss	RU1RTT byte returned as part of the record line trace or generalized PIU trace header
wwwwwwww	SLOWDOWN if the slowdown indicator is on in the record line trace header
eeeeeee	Next element count to be assigned by ACF/TAP to a line trace element
aaaa	Address of NCP

System Action: Processing continues.

Programmer Response: Information about DOS/VTAM trace file contents can be found in *VTAM Network Implementation Guide.*

DSJ205I **This message number can have one of six messages. See Explanation for the possible messages.**

Issued by: DSJCEPRT on behalf of DSJTDRVR to SYSPRINT.

Explanation: The message describes the contents of TCAM trace records.

One of the following messages will appear for this message number:

- **TCAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddd00***) SEQ(***qqqqqqqq***)** *tttt*

    Trace Type: TCAM trace other than LINE, LIN3, or PIU.

- **TCAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddd00***) SEQ(***qqqqqqqq***)** *tttt* **LINE(***iiiiiiii***) LENG(***vvvvv***)** *mmmmmmm*

    Trace Type: The first TCAM LINE or LIN3 trace entry in a trace record.

- **TCAM TRACE** *nnnnnnn* **LINE(***ssssssss***) LENG(***vvvvv***)** *mmmmmmm*

    Trace Type: The remaining TCAM LINE or LIN3 entries in a trace record.

- **TCAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddd00***) SEQ(***qqqqqqqq***)** *tttt* **S(***ssss....***) D(***dddd....***)** *mmmmmmm*

    Trace Type: The first TCAM PIU trace entry in a trace record.

- **TCAM TRACE** *nnnnnnn tttt* **S(***ssss....***) D(***dddd....***)** *mmmmmmm*

    Trace Type: The remaining TCAM PIU trace entries in a trace record.

- **TCAM TRACE** *nnnnnnn* **LENG(***lllll***) D(***mm:dd:yy***) T(***hh:mm:ss:dddd00***) SEQ(***qqqqqqqq***) LINC NCPNAME(***pppppppppppp***)**

    Trace Type: The first TCAM GPT entry in a trace record.

The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned input record number
lllll	Input record length
mm:dd:yy	Time-stamp date field from the input trace record header
hh:mm:ss:dddd00	Time-stamp time field from the input trace record header
qqqqqqqq	Sequence number from the input trace record header
tttt	Record type indicator from the input trace record header
iiiiiiii	Name of the line from which the trace data is received
vvvvv	Length of the line trace entry in the line trace record
mmmmmmm	Next message count to be assigned to a message
ssss	Hexadecimal origin address field (OAF) of the traced PIU
dddd	Hexadecimal destination address field (DAF) of the traced PIU
pppppppppppp	NCP name

System Action: Processing continues.

Programmer Response: If you want additional information about the MVS TCAM trace file contents, see *TCAM Base Installation Guide.*

DSJ206I RECORD *nnnnnnn* ELEMENT *eeeeee* LINK(*llll*) CLUSTER(*cccc*) RESOURCE(*rrrr*) RESOURCE TYPE(*tttttttttttt*) STATUS DATA(*ss*)

Issued by: DSJCEPRT on behalf of DSJTDRVR to SYSPRINT.

Explanation: This message explains the contents of the generalized PIU trace entry. The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned input record number
eeeeee	Element number (within the record)
llll	Link address
cccc	Cluster address
rrrr	Resource address
tttttttttttt	Resource type
ss	Status byte

Interpret the GPT status byte as follows:

Bit	Meaning
Bit 0 on	GPT was started or stopped for all resources on the specified link.
Bit 1 on	GPT was started for the given resources.
Bit 2 on	GPT was stopped for the given resources.
Bit 3 on	Data was lost because GPT tried to trace a resource whose address was unresolved.
Bit 4 on	Data was lost because the virtual route for the SSCP-NCP session that GPT flowed on became inoperative.
Bit 5 on	The resource for which this status record was generated is dynamically reallocatable.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ207I RECORD *nnnnnnn* ELEMENT *eeeeee* OSAF-OEF *oooooooo-ffff* DSAF-DEF *dddddddd-gggg* PCID *pppppppppppppppp* CPNAME *cccccccccccccccccc*

Issued by: DSJCEPRT on behalf of DSJGPTTR to SYSPRINT.

Explanation: This message explains the contents of the generalized PIU trace entry. The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	ACF/TAP-assigned input record number
eeeeee	Element number (within the record)
oooooooo	Origination subarea address field
ffff	Origination element field
dddddddd	Destination subarea address field
gggg	Destination element field
pppppppppppppppp	Procedure-correlation identifier
cccccccccccccccccc	Fully qualified CP name

System Action: Processing continues.

Messages DSJ220I to DSJ229I describe the state of the GTF trace file as determined by the bit settings in

the first time-stamp control record encountered in the file.

Programmer Response: No response is necessary.

DSJ208I GTF RECORD *nnnnnnn* CONSISTS OF *aaaaaa* SEGMENT OF VTAM RECORD *ooooooo* WITH (*xxxxx*) BYTES OF (*yyyyy*) TOTAL

Issued by: DSJCEPRT on behalf of DSJCGBLK.

Explanation: The contents of the VTAM record from the GTF record header are provided.

The variable fields in the message text mean:

Variable	Meaning
nnnnnnn	GTF record count
aaaaaa	FIRST, MIDDLE, or LAST
ooooooo	VTAM record count
xxxxx	GTF record length
yyyyy	The value in the GTF Total Length field.

System Action: Processing continues.

Programmer Response: Information about GTF can be found in *MVS/Extended Architecture System Programming Library Service Aids.*

DSJ209I APPN HEADER RECORD *rrrrrrr* LENG (*llllllllll*) D (*mm.dd.yyyy*) T (*hh.mm.ss*)

Issued by: DSJCABLK

Explanation: This message describes the following fields of the 3746 Model 950 trace header.

Variable	Meaning
rrrrrrr	APPN header record number. This number gets incremented for new APPN headers only.
llllllllll	Trace record length. The trace record can be up to 6KB long, not including the 176 byte header.
mm.dd.yyyy	Date: month.day.year
hh.mm.ss	Time: hours.minutes.seconds

System Action: Processing continues.

Programmer Response: For information about the 3746 Model 950 trace file contents see the 3746 Model 950 trace formats in the *NCP, SSP, and EP Trace Analysis Handbook.*

DSJ210I APPN RECORD *eeeeee* LENG (*ggggg*) UNIT ADDR (*uuuuuuuu*) LINE ADDR (*aaaa*)

Issued by: DSJCABLK

Explanation: This message describes the following fields of the 3746 Model 950 trace header.

Variable	Meaning
eeeeee	APPN trace record number.
ggggg	Trace record length, usually 176 bytes
uuuuuuuu	Unit address
aaaa	Lines address

System Action: Processing continues.

Programmer Response: For information about the 3746 Model 950 trace file contents see the 3746 Model 950 trace formats in the *NCP, SSP, and EP Trace Analysis Handbook.*

DSJ211I   **STOP CAUSE (***cc***) PROCESSOR NAME (***pppppppp pppppppp pppppppp pppppppp***)**

Issued by: DSJCABLK

Explanation: This message describes the following fields of the 3746 Model 950 trace header.

Variable	Meaning
cc	Stop cause
pppppppp pppppppp pppppppp pppppppp	Processor name

System Action: Processing continues.

Programmer Response: For information about the 3746 Model 950 trace file contents see the 3746 Model 950 trace formats in the *NCP, SSP, and EP Trace Analysis Handbook*.

DSJ212I   **COMMENT (***xxxxxxxx xxxxxxx....***)**

Issued by: DSJCABLK

Explanation: This message describes the following fields of the 3746 Model 950 trace header.

Variable	Meaning
xxxxxxxx xxxxxxxx....	Up to 128 bytes of comments

System Action: Processing continues.

Programmer Response: For information about the 3746 Model 950 trace file contents see the 3746 Model 950 trace formats in the *NCP, SSP, and EP Trace Analysis Handbook*.

DSJ213I   **APPN RECORD rrrrr LEN (lllll) FULL DUPLEX CSA 950 APPN TRACE**

Issued by: DSJCABLK

Explanation: This message describes the contents of the 3746 Model 950 trace record and will appear with each 176 bytes of data.

Variable	Meaning
rrrrr	APPN trace record number
lllll	Length of each APPN data record

System Action: Processing continues.

Programmer Response: For information about the 3746 Model 950 trace file contents see the 3746 Model 950 trace formats in the *NCP, SSP, and EP Trace Analysis Handbook*.

DSJ220I   **TRACE FILE RECORDED BY MVS GTF**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The trace file was recorded by MVS GTF. GTF trace record formats differ between VS1 or SVS GTF and VS2(MVS). The host system is determined by searching for a time-stamp control record, normally the first record in each trace block. The time-stamp identifiers are unique as follows:

```
AID(00)  FID(04)    VS1  (SVS/VS1)
AID(00)  FID(01)    VS2  (MVS/VS2)
```

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ221I   **TRACE FILE RECORDED BY VS1 OR SVS GTF**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The trace file was recorded by VS1 or SVS GTF. GTF trace record formats differ between VS1 or SVS GTF and VS2(MVS). The host system is determined by searching for a time-stamp control record, normally the first record in each trace block. The time-stamp identifiers are unique as follows:

```
AID(00)  FID(04)    VS1  (SVS/VS1)
AID(00)  FID(01)    VS2  (MVS/VS2)
```

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ222I   **GTF MINIMAL TRACE RECORDING MODE**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF trace recording mode to be set to minimal. The recording mode can be set to minimal or comprehensive.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ223I   **GTF COMPREHENSIVE TRACE RECORDING MODE**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF trace recording mode to be set to comprehensive. The recording mode can be set to minimal or comprehensive. DSJCETAP does not print the JOBNAME or address space identifier, which is included in GTF trace records in comprehensive recording mode.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ224I   **GTF TRACE RECORDS ARE TIMESTAMPED**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF time/notice time-stamp option to be set to time stamp individual GTF trace records. If individual records are time stamped, they are shown as having the same time that GTF recorded the record.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ225I **GTF TRACE RECORDS ARE NOT TIMESTAMPED**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF time/notice time-stamp option to be set to not time stamp individual GTF trace records. If individual trace records are not time stamped, they are shown as having the same time as the last time-stamp control record.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ226I **GTF RNIO OPTION IN EFFECT**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF RNIO option to be set.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ227I **GTF RNIO OPTION NEEDED FOR VTAM TRACE TYPE=RNIO**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF RNIO option to be turned off.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ228I **GTF USR OPTION IN EFFECT**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF USR option to be set.

Note: Detailed information about GTF can be found the service aids manual for your operating system.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ229I **GTF USR OPTION NEEDED FOR VTAM TRACE TYPE=LINE AND TYPE=BUF**

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT or console.

Explanation: The first time-stamp record encountered caused the GTF USR option to be turned off.

Note: Detailed information about GTF can be found in the service aids manual for your operating system.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ230I **TRACE BUFFERS RESET DUE TO CONTINUITY ERROR**

Issued by: DSJCEPRT on behalf of DSJTRGET to SYSPRINT.

This message also prints with message DSJ199I and one of the following messages: DSJ241I, DSJ242I, DSJ243I, DSJ244I, DSJ245I, DSJ248I, or DSJ249I.

Explanation: Trace buffers are reinitialized to prevent erroneous analysis of trace data.

System Action: Processing of the trace record continues.

Programmer Response: No response is necessary.

DSJ231I **INPUT ERROR ON TRACE FILE**

Issued by: DSJCETRP on behalf of DSJTRGET to SYSPRINT

Explanation: For the MVS and VM versions of ACF/TAP, information preceded by message DSJ008I is sent as output to the system log by means of the WTL macro.

System Action: The input trace record is skipped. Processing continues with the next trace record.

Programmer Response: See DSJ007I and DSJ008I.

DSJ233I **NO SESSION/CONVERSATION INDEX DATA TO SORT**

Issued by: DSJCEPRT on behalf of DSJGSORT to SYSPRINT.

Explanation: No trace records marking parallel sessions or conversations were found in the GPT trace data.

System Action: ACF/TAP ends normally.

Programmer Response: Start GPT on the desired logical unit before the session is started so that the parallel session or conversation-unique data or both can be captured.

DSJ234I **CMS FILE ERROR (*xxx*) READING SORT IN**

Issued by: DSJCEPRT on behalf of DSJGSORT or DSJLSORT to SYSPRINT.

Explanation: A CMS file system error occurred while reading an ACF/TAP work file. The CMS file system error code is *xxx*.

System Action: ACF/TAP ends.

Programmer Response: Use the CMS file system error code to determine the cause of the error.

DSJ235I **SORTIN AND SORTOUT HAVE IDENTICAL FILEIDS**

Issued by: DSJCEPRT on behalf of DSJGSORT or DSJLSORT to SYSPRINT.

Explanation: The user-supplied FILEDEFS for SORTIN and SORTOUT specify the same FILEID. The sort program that ACF/TAP uses cannot sort a file in place.

System Action: ACF/TAP ends.

Programmer Response: Change SORTIN and SORTOUT FILEDEFS so they specify different FILEIDS.

DSJ236I   CMS FILE ERROR (*xxx*) WRITING SORTOUT

Issued by: DSJCEPRT on behalf of DSJGSORT or DSJLSORT to SYSPRINT.

Explanation: A CMS file system error occurred while writing an ACF/TAP work file. The CMS file system error code is *xxx*.

System Action: ACF/TAP ends.

Programmer Response: Use the CMS file system error code to determine the cause of the error.

DSJ237I   CMS GETMAIN FOR (*xxxxxxxx*) BYTES FAILED

Issued by: DSJCEPRT on behalf of DSJGSORT or DSJLSORT to SYSPRINT.

Explanation: A GETMAIN for *xxxxxxxx* bytes of storage failed.

System Action: ACF/TAP ends.

Programmer Response: Either increase your virtual storage to allow for the successful operation of the GETMAIN, or limit the amount of GPT data to be formatted by using the SDATE, EDATE, STIME, ETIME selection parameters.

DSJ238I   NUMBER OF PROCESSABLE PARALLEL SESSIONS EXCEEDED

Issued by: DSJCEPRT on behalf of DSJINDEX to SYSPRINT.

Explanation: ACF/TAP can process only a limited number of parallel sessions during each run.

System Action: Processing of the trace file continues.

Programmer Response: USE the SDATE, EDATE, STIME, and ETIME parameters to limit the amount of GPT data formatted.

DSJ239I   PCID'S COULD NOT BE DETERMINED FOR ONE (OR MORE) FMH5(S)

Issued by: DSJGSORT to SYSIXPRT, and DSJCEPRT on behalf of DSJGSORT to SYSPRINT.

Explanation: ACF/TAP could not determine the sessions on which the subsequent FMH5 allocates flowed. This message may be accompanied by message DSJ238I on the SYSPRINT report.

System Action: Processing of GPT session data continues.

Programmer Response: If message DSJ238I appears on the SYSPRINT report, see the "Programmer Response" for DSJ238I. If message

DSJ238I does not appear, there is no corrective action that can be taken.

DSJ240I   RECORD *xxxxxxx* IGNORED VS1(SVS) / VS2 GTF INDETERMINATE

Issued by: DSJCEPRT on behalf of DSJCGBLK to SYSPRINT.

Explanation: GTF records cannot be processed until ACF/TAP determines if the trace file was recorded by VS1-GTF or VS2-GTF. The determination is made by searching the file for time-stamp control records that are system unique. All trace records are ignored until a time-stamp control record is found. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: Processing of the trace file continues.

Programmer Response: No response is necessary.

DSJ241I   RECORD *xxxxxxx* CONTINUITY ERROR - LOST RECORD INDICATOR

Issued by: DSJCEPRT on behalf of DSJCDBLK, DSJCGBLK, or DSJCVBLK to SYSPRINT.

Explanation: One of the following has occurred:

- A GTF lost-event record was encountered in the input file.
- A nonzero lost-event record indicator was encountered in a DOS VTAM trace block header.
- A nonzero inbound or outbound lost-record indicator was encountered in a VTAM trace record header.

This message prints with messages DSJ199I and DSJ230I.

System Action: Processing of the trace record continues.

Programmer Response: No response is necessary.

DSJ242I   RECORD *xxxxxxx* CONTINUITY ERROR - TIMESTAMP WRAPAROUND

Issued by: DSJCEPRT on behalf of DSJCDBLK, DSJCGBLK, or DSJCTBLK to SYSPRINT.

Explanation: The time-stamp in the current GTF, VTAM, or TCAM trace record header contains a time value that is earlier than a previously encountered time. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

This message prints with messages DSJ199I and DSJ230I.

System Action: Processing of the trace record continues.

Programmer Response: No response is necessary.

DSJ243I RECORD *xxxxxxx* CONTINUITY ERROR -
SEQUENCE NUMBER WRAPAROUND

Issued by: DSJCEPRT on behalf of DSJCDBLK, or
DSJCTBLK to SYSPRINT.

Explanation: The sequence number in the current
DOS/VTAM or TCAM trace record header contains a
sequence value that is earlier than a previously
encountered sequence. *xxxxxxx* is the
ACF/TAP-assigned record number of the current input
record.

This message prints with messages DSJ199I and
DSJ230I.

System Action: Processing of the trace record con-
tinues.

Programmer Response: No response is necessary.

DSJ244I RECORD *xxxxxxx* CONTINUITY ERROR - LOST
SEQUENCE NUMBER

Issued by: DSJCEPRT on behalf of DSJCDBLK or
DSJCTBLK to SYSPRINT.

Explanation: The sequence number in the current
DOS/VTAM or TCAM trace record header contains a
sequence value that is not one greater than the pre-
vious sequence number. *xxxxxxx* is the
ACF/TAP-assigned record number of the current input
record.

This message prints with messages DSJ199I and
DSJ230I.

System Action: Processing of the trace record con-
tinues.

Programmer Response: No response is necessary.

DSJ245I RECORD *xxxxxxx* CONTINUITY ERROR - DATA
TRUNCATED

Issued by: DSJCEPRT on behalf of DSJCTBLK to
SYSPRINT.

Explanation: Line trace data has been truncated at
the end of a COMWRITE trace segment. *xxxxxxx* is
the ACF/TAP-assigned record number of the current
input record.

This message prints with messages DSJ199I and
DSJ230I.

System Action: Processing of the trace record con-
tinues.

Programmer Response: No response is necessary.

DSJ246I RECORD *xxxxxxx* SUPPRESSED -
CONFIDENTIAL/ENCRYPTED TEXT INDICATED

Issued by: DSJCEPRT on behalf of DSJCVBLK to
SYSPRINT.

Explanation: The VTAM trace header indicates that
confidential or encrypted text is included. *xxxxxxx* is
the ACF/TAP-assigned record number of the current
input record.

System Action: Trace data in the trace record is
blanked. No trace data is analyzed.

Programmer Response: No response is necessary.

DSJ247I RECORD *xxxxxxx* REMAINING DATA IGNORED -
LINE TRACE DATA ERROR

Issued by: DSJCEPRT on behalf of DSJLDRVR or
DSJTLGET to SYSPRINT.

Explanation: The input line trace data is incorrectly
formed. The last line trace element in the trace record
is incomplete, or it extends beyond the remaining
record length.

System Action: Processing continues with the next
trace record.

Programmer Response: Examine the input data to
determine the cause of the error condition.

DSJ248I RECORD *xxxxxxx* CONTINUITY - LINE TRACE TER-
MINATED

Issued by: DSJCEPRT on behalf of DSJCLNTR to
SYSPRINT.

Explanation: The last-record indicator was on in the
record line trace header returned by the NCP with line
trace data. *xxxxxxx* is the ACF/TAP-assigned
sequence number of the current input record. The last
record indicator is set when a DEACTIVATE TRACE
has been received. Therefore, it is normal for
ACF/TAP to issue this message for the last record or
records of a trace data set.

System Action: Processing of the trace record con-
tinues.

Programmer Response: No response is necessary.

DSJ249I RECORD *xxxxxxx* CONTINUITY - LINE TRACE TER-
MINATED (SLOWDOWN or HARDWARE ERROR)

Issued by: DSJCEPRT on behalf of DSJCLNTR to
SYSPRINT.

Explanation: The last-record indicator was set in the
record line trace header returned by the NCP with line
trace data. The NCP line trace stopped immediately
due to NCP slowdown or a hardware error. *xxxxxxx* is
the ACF/TAP-assigned sequence number of the
current input record.

This message prints with messages DSJ199I and
DSJ230I.

System Action: Processing of the trace record con-
tinues.

Programmer Response: No response is necessary.

DSJ250I REMAINING DATA LENGTH CANNOT CONTAIN
HEADER

Issued by: DSJCEPRT on behalf of DSJCVBLK to
SYSPRINT.

Explanation: The input record was too short to
contain a complete VTAM trace header.

System Action: The record is ignored, and trace file
processing continues.

Programmer Response: No response is necessary.

DSJ251I   **RECORD** *xxxxxxx* **- GTF AND VTAM TRACE HEADERS INCONGRUENT**

Issued by: DSJCEPRT on behalf of DSJCVBLK to SYSPRINT.

Explanation: The type or direction flags in the VTAM trace record header did not correspond to the equivalent flags in the GTF trace record header. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: Processing of the trace record continues. The VTAM flags take precedence over the GTF flags.

Programmer Response: No response is necessary.

DSJ252I   **RECORD** *xxxxxxx* **REMAINING DATA SUPPRESSED - CONFIDENTIAL/ENCRYPTED TEXT INDICATED**

Issued by: DSJCEPRT on behalf of DSJCVBLK to SYSPRINT.

Explanation: The VTAM trace header indicates confidential or encrypted text is included. *xxxxxxx* is the ACF/TAP assigned record number or the current input record.

System Action: Confidential or encrypted trace data in the trace record is blanked. Only header information is analzyed. No trace data is analyzed.

Programmer Response: No response is necessary.

DSJ253I   **RECORD** *xxxxxxx* **IGNORED - TOO SHORT TO CONTAIN BLOCK HEADER**

Issued by: DSJCEPRT on behalf of DSJCTBLK to SYSPRINT.

Explanation: The input record is not large enough to contain a complete TCAM trace block header. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The trace record is ignored.

Programmer Response: No response is necessary.

DSJ257I   **RECORD** *xxxxxxx* **- SEQUENCE NUMBER UNCHANGED**

Issued by: DSJCEPRT on behalf of DSJCDBLK or DSJCTBLK to SYSPRINT.

Explanation: The sequence number in the current DOS/VTAM or TCAM trace record header contains a sequence value that is equal to the previous sequence number. *xxxxxxx* is the ACF/TAP-assigned record number of the current sequence number.

System Action: Processing of the record continues.

Programmer Response: No response is necessary.

DSJ258I   **RECORD** *xxxxxxx* **IGNORED - BLOCK IDENTIFIER NOT TRACE**

Issued by: DSJCEPRT on behalf of DSJCDBLK to SYSPRINT.

Explanation: The block identifier in the DOS VTAM trace block header is not TRACE. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The trace block is ignored.

Programmer Response: No response is necessary.

DSJ260I   **RECORD** *xxxxxxx* **LENGTH ERROR - LAST PIU ENTRY NOT 32 BYTES**

Issued by: DSJCEPRT on behalf of DSJCTBLK to SYSPRINT.

Explanation: The last PIU-trace entry in the TCAM PIU trace segment is not 32 bytes in length. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The remainder of the record is ignored.

Programmer Response: Examine the remaining data in the trace block to make sure that it does not contain useful trace information.

DSJ261I   **RECORD** *xxxxxxx* **LENGTH ERROR - INCOMPLETE LINE TRACE HEADER**

Issued by: DSJCEPRT on behalf of DSJCLNTR to SYSPRINT.

Explanation: The line trace data remaining after record header processing is too short to contain a complete RLTRU header. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The line trace entry is ignored.

Programmer Response: No response is necessary.

DSJ262I   **RECORD** *xxxxxxx* **IGNORED - LINE TRACE NOT INDICATED IN HEADER**

Issued by: DSJCEPRT on behalf of DSJCLNTR to SYSPRINT.

Explanation: The status byte of the record line trace header returned by NCP with line trace data did not indicate line trace. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The trace record is ignored.

Programmer Response: No response is necessary.

DSJ263I   **RECORD** *xxxxxxx* **IGNORED - TOO SHORT TO CONTAIN LENGTH FIELD**

Issued by: DSJCEPRT on behalf of DSJCTBLK to SYSPRINT.

Explanation: Insufficient data remains in the TCAM trace record to contain a line trace entry length field. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The trace record is ignored.

Programmer Response: No response is necessary.

DSJ264I **RECORD** *xxxxxxx* **IGNORED - LINE TRACE STATUS LENGTH ERROR**

Issued by: DSJCEPRT on behalf of DSJLPNQL to SYSPRINT.

Explanation: The line trace element was detected as status but was found to be invalid. The length of the status element is not divisible by 8. *xxxxxxx* is the ACF/TAP-assigned record number of the current input record.

System Action: The trace record is ignored.

Programmer Response: No response is necessary.

DSJ265I **RECORD** *xxxxxxxx* **IGNORED - CONTINUITY ERROR DUE TO SPANNED RECORD**

Issued by: DSJCEPRT on behalf of DSJCHMTR to SYSPRINT or SYSLIST.

Explanation: The current record that ACF/TAP is processing (record *xxxxxxxx*) should not be a spanned record. However, the spanned record indicator in the VTAM header is on, indicating a spanned record. Since ACF/TAP has no information about the previous records, the spanned record must be ignored to prevent erroneous results.

System Action: ACF/TAP ignores the record and continues processing.

Programmer Response: When analyzing the trace data, be aware that the data is not continuous.

DSJ266I **RECORD** *xxxxxxxx* **RECTRD ENDED -** *aaa* **HARDWARE ERROR FOR A** *xxx*

Issued by: DSJCEPRT on behalf of DSJCLNTR to SYSPRINT.

Explanation: This is the last record in the trace data because of a CSP or CSS hardware error for a SIT or TIC trace.

System Action: Processing continues.

Programmer Response: Notify your IBM representative for assistance.

DSJ267I **RECORD** *xxxxxxxx* **RECTRD ENDED -** *aaa* **RESOURCE UNAVAILABLE FOR A** *xxx*

Issued by: DSJCEPRT on behalf of DSJCLNTR to SYSPRINT.

Explanation: This is the last record in the SIT or TIC trace data because a CSP or CSS resource is unavailable.

System Action: Processing continues.

Programmer Response: Notify your IBM representative for assistance.

DSJ271I **ELEMENT** *xxxxxxx* **IGNORED - INVALID LINE TRACE ELEMENT identifier**

Issued by: DSJCEPRT on behalf of DSJLNCSP to SYSPRINT.

Explanation: The element identifier on the line trace is invalid.

System Action: Processing continues.

Programmer Response: Examine the trace data to determine the cause of the error.

DSJ273I **Message** *xxxxxxx* **INVALID MESSAGE LENGTH OF ZERO**

Issued by: DSJCEPRT on behalf of DSJNTITR to SYSNEPRT

Explanation: A program other than ACF/TAP has sent a record with a length element of zero. This error indicates a problem with the program sending the element.

xxxxxxx is the message number.

System Action: The remainder of the record is ignored to prevent erroneous results.

Programmer Response: Examine the trace data to determine which program produced the error.

DSJ274I **Message** *xxxxxxx* **INVALID MESSAGE IDENTIFIER**

Issued by: DSJCEPRT on behalf of DSJNTITR to SYSNEPRT

Explanation: A program other than ACF/TAP has sent a record with an invalid element ID. This error indicates a problem with the program that has sent the element.

xxxxxxx is the message number.

System Action: The remainder of the record is ignored to prevent erroneous results.

Programmer Response: Examine the trace data to determine which program produced the error.

DSJ275I **LINENODE=***user selection criteria*

Explanation: Refer to DSJ279I.

DSJ276I **GPTNODE=***user selection criteria*

Explanation: Refer to DSJ279I.

DSJ277I **BFFRNODE=***user selection criteria*

Explanation: Refer to DSJ279I.

DSJ278I **RNIONODE=***user selection criteria*

Explanation: Refer to DSJ279I.

DSJ279I **CTLRNODE=**_user selection criteria_

Issued by: DSJCEPRT on behalf of DSJPARM to SYSPRINT or console.

Explanation: Messages DSJ275I–DSJ279I and DSJ290I are issued either to the console in response to the LIST command entered at the console, or to SYSPRINT in response to the GO command issued from either the console or the parameter input file. When output is to the console, all of the messages listed are produced. When output is to SYSPRINT, the only messages printed are those whose default values were used, or those whose values were specified by the user and used during the processing of the trace file.

System Action: Processing continues.

Programmer Response: For information on the setting of the parameters, see the _NCP, SSP, and EP Trace Analysis Handbook_.

DSJ282I **NO CORRELATED FULL DUPLEX DATA FOUND. SEE SYSPRINT, LDPRT FOR LINE DATA**

Issued by: DSJTDRVR

Explanation: The Line Trace Summary Report was requested. LSPRT is produced for controllers that contain scanner 3 or 3x, or for correlated duplex SDLC and X.25 data. No data of these types was found.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ283I **DATA ELEMENT** _xxxxxx_ **HAS LENGTH OF ZERO - POSSIBLE LOST DATA**

Issued by: DSJCEPRT on behalf of DSJLNCSP or DSJETNET.

Explanation: Line trace data element number _xxxxxx_ was encountered with a length field of zero. There may be a problem with NCP in that it may not have traced some data.

System Action: Processing continues.

Programmer Response: Examine the trace data to determine the cause of the error.

DSJ284I **LOGADDR =** _nnnn....nnnn_ **(LOGICAL LINE ADDRESS)**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message lists the logical line addresses selected for the Connectivity Subsystem Line Trace Report (CSPRT). _nnnn....nnnn_ will contain one of the following:

- A list of logical line addresses (_nnnn,nnnn,..._)
- A range of logical line addresses (_nnnn-nnnn_)
- ALL for all logical lines selected.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ285I **UNABLE TO OPEN SYSCSPRT/SYS018**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: Refer to DSJ016I for more information.

System Action: The main routine terminates after closing the files that were opened.

Programmer Response: Refer to DSJ016I for more information.

DSJ286I **UNABLE TO OPEN SYSTEMP1/SYS019**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: Refer to DSJ016I for more information.

System Action: The main routine terminates after closing the files that were opened.

Programmer Response: Refer to DSJ016I for more information.

DSJ287I **UNABLE TO OPEN SYSTEMP2/SYS020**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: Refer to DSJ016I for more information.

System Action: The main routine terminates after closing the files that were opened.

Programmer Response: Refer to DSJ016I for more information.

DSJ288I **CAPRT =** _x_ **Y=YES N=NO**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message indicates whether the Connectivity Subsystem Adapter Trace Report (CAPRT) was selected or not.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ289I **CSATYPE = ALL**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message indicates the selection of trace types for the CAPRT. See the _NCP, SSP, and EP Trace Analysis Handbook_ for all valid values of this parameter. ALL is the default and will cause all CSA trace elements to appear on the CAPRT.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ290I **DLCI=**_user selection criteria_ **(DATA LINK CON-NECTION IDENTIFIER)**

Explanation: Refer to DSJ279I.

DSJ291I   **UNABLE TO OPEN SYSCAPRT/SYS021:**

Issued by: DSJCEPRT on behalf of DSJCETAP to SYSPRINT or console.

Explanation: The named output print file could not be opened (MVS or VM), or the trace output file was assigned IGN (VSE).

System Action: The main routine terminates after closing the files that were opened.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter QUIT to stop processing immediately, or *xxxxx*=NO to ignore the data sets that could not be opened (*xxxxx* is SSPRT, SDPRT, LSPRT, LDPRT, NEPRT, GSPRT, or DTPRT).

- Check for a missing JCL or FILEDEF statement.

DSJ292I   **CSPRT = *x* Y=YES N=NO**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message indicates whether the Connectivity Subsystem Line Trace Report (CSPRT) was selected or not.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ293I   **TOSUP = *x* Y = YES N = NO (TIMEOUT SUP-PRESSION)**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message indicates whether TIMEOUT messages will be suppressed in the Line Trace Detail Report (LDPRT) or the Line Trace Summary Report (LSPRT).

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ304I   **FRPRT = *x* Y=YES N=NO**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: This message indicates whether the frame-relay logical line trace summary report (FRPRT) was selected.

System Action: Processing continues.

Programmer Response: No response is necessary.

DSJ305I   **UNABLE TO OPEN SYSFRPRT/SYS022**

Issued by: DSJCEPRT on behalf of DSJCPARM to SYSPRINT or console.

Explanation: The named output print file could not be opened (MVS or VM), or the trace output file was assigned IGN (VSE).

System Action: Processing continues until all other output print files are opened. You are then prompted for additional parameters.

Programmer Response: Do one of the following:

- When prompted for additional parameters, enter QUIT to stop processing immediately, or FRPRT=NO to ignore the data set that could not be opened.

- Check for a missing JCL or FILEDEF statement.

ICN Messages

ICN001I *aaa[(x)]=bbb* **INVALID,** **variable**

Explanation: The value *bbb* is not a valid specification for the keyword *aaa*. If *(x)* is present, it shows the suboperand position within the keyword *aaa*.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for keyword *aaa[(x)]*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc*.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

  The generation process does not require the keyword *aaa*, so the value *bbb* is ignored.

- GEN PROCESSING IS DISCONTINUED

  The error is serious enough to require correction before the generation can continue.

System Action: The generation process is either discontinued, or ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN002I *yyy* **INVALID STATEMENT SYMBOL, EXCEEDS 8 CHARACTERS, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: In the statement symbol field of the statement, the statement symbol *yyy* exceeds 8 characters.

System Action: The statement symbol is not required and is ignored. The generation process is either discontinued, or ends after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN003I *yyy* **INVALID STATEMENT SYMBOL, FIRST CHARACTER NOT ALPHABETIC, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The first character of the statement symbol *yyy* is not alphabetical.

System Action: The statement symbol is not required and is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN004I **STATEMENT SYMBOL OMITTED, REQUIRED**

Explanation: In the statement symbol field of the statement, no symbol was specified; a statement symbol is required.

System Action: A statement symbol is required. The generation process ends after validation of the generation definition.

Programmer Response: Correct the statement symbol and resubmit the job.

ICN005I *bbb* **- INVALID SUBOPERAND,** **variable**

Explanation: The value *bbb* is invalid for this suboperand.

variable can be one of the following:

- REQUIRED

  The generation process requires the suboperand *bbb*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc* for the suboperand.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

  The generation process does not require the suboperand *bbb*, so it is ignored.

System Action: The generation process ends following validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN006I **SEQUENCE ERROR -** *mmm,...NOT* **DEFINED, [***explanation***]**

Explanation: The statement or statements *mmm* do not appear in NCP generation input statements, or they appear in incorrect sequence. The statement or statements specified must precede the statement being processed (that is, the statement for which this message appears). The *explanation*, if any, describes the conditions that require the statement or statements.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Insert the statement or statements *mmm* in the correct sequence in the generation definition and resubmit the job.

ICN007I   **SEQUENCE ERROR -** *mmm1* **PRECEDES** *mmm2*

Explanation: Statement *mmm2* does not precede statement *mmm1* in the input statements for the NCP generation.

System Action: The generation process ends after validation of the generation.

Programmer Response: Correct the sequence of definition statements *mmm1* and *mmm2* and resubmit the job.

ICN008I   **TERM=***bbb***, NON-SUPPORTED TERMINAL TYPE**

Explanation: The type of terminal indicated by *bbb* is not a type supported by NCP.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the value *bbb* and resubmit the job.

For a list of terminal types, see the LINE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN009I   *aaa=bbb* **INVALID, NOT WITHIN RANGE,** **variable**

Explanation: The value *bbb* specified for the keyword *aaa* is not within the valid range of values.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for keyword *aaa*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc*.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

  The generation process does not require the keyword *aaa*, so the value *bbb* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN010I   **NO VALID BH EXECUTION POINTS, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: One or more of the block handler execution points were specified in the BHEXEC keyword, but none were valid.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the execution point specifications on the BHEXEC keyword.

For more information, see "Block Handlers" in *NCP, SSP, and EP Resource Definition Guide*, and the STARTBH definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN011I   *bbb* **PREVIOUSLY SPECIFIED** **variable**

Explanation: The suboperand value *bbb* was specified more than once for the keyword being processed.

variable can be one of the following:

- REQUIRED

  The generation process requires a value for *bbb*.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

  The generation process does not require a value for *bbb*. The duplicate value is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN012I   *yyy* **INVALID, $ CANNOT BE FIRST CHARACTER IN A STATEMENT SYMBOL, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The symbol *yyy* specified in the statement symbol field begins with a *$* character. Symbols beginning with *$* are reserved for use by the program generation process.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the statement symbol and resubmit the job.

ICN013I   **PARAMETERS CONFLICT,** *explanation*

Explanation: There is a conflict between one or more of the parameters specified. The *explanation* defines the conflicting parameters.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: For more information on specifying NDF parameters, see *NCP, SSP, and EP Resource Definition Guide* and *NCP, SSP, and EP Resource Definition Reference*.

Correct the error and resubmit the job.

ICN014I   *bbb* **BPS-NON STANDARD**

Explanation: The value *bbb* specified as one of the data transmission rates (bits per second) for the CSB definition statement being processed is not one of the standard data rates for a communication scanner.

System Action: The data rate *bbb* is accepted as valid.

Programmer Response: Make sure that the value specified for the SPEED keyword of the CSB definition statement is one of the valid speeds.

For a list of valid speeds, see the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release. For general information, see the chapter on defining communication controllers in the *NCP, SSP, and EP Resource Definition Guide* for your NCP release.

ICN015I   *aaa* **INVALID ON CONTINUATION - IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The keyword *aaa* is specified on a continuation statement of the statement being processed. This keyword, if specified, must appear on the first statement, not on a continuation statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN016I   *bbb* **INVALID ENTRY, IDENTIFIED AND UNIDENTIFIED ENTRIES MAY NOT BE MIXED**

Explanation: The IDSEQ keyword on this IDLIST definition statement (or a continuation) contains entries of both forms *(chars)* and *(chars,term statement symbol)*. The two different forms are not permissible within the same IDLIST statement (or continuation).

System Action: The generation process ends after the validation of the generation definition.

Programmer Response: Correct the IDLIST definition statement or statements and resubmit the job.

For more information about the IDSEQ keyword on the IDLIST definition statement, see the IDLIST definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN017I   **BLOCK HANDLER NOT GENERATED**

Explanation: The block handler specified is not generated because there was an error in the block handling routine function statements.

System Action: The block handler is not generated. The generation process is ended after validation of the generation definition.

Programmer Response: Correct the block handling routine function statements and resubmit the job.

ICN018I   **PREVIOUS BLOCK HANDLER IS INCOMPLETE**

Explanation: The generation process found two STARTBH definition statements without an ENDBH definition statement between the two. The block handler defined by the first STARTBH definition statement is incomplete.

System Action: The block handler beginning with the first STARTBH definition statement is generated as though an ENDBH definition statement appeared in the input statements preceding the second STARTBH definition statement. The generation process ends after validation of the generation definition.

Programmer Response: Examine the definition statements following the first STARTBH definition statement. Supply the missing definition statements and resubmit the job.

For more information, see the STARTBH definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN019I   *bbb* **INVALID ENTRY, ID CHARACTERS TRUNCATED TO 40 HEXADECIMAL CHARACTERS**

Explanation: Entry *bbb* in the IDLIST definition statement has more than the allowable maximum of 40 hexadecimal characters.

System Action: Entry *bbb* is truncated to the first 40 hexadecimal characters. The truncated entry is used as the ID sequence. The generation process ends after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

For more information, see the IDLIST definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN020I   **SEQUENCE ERROR -** *mmm* **MUST BE CONSECUTIVE, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The statement *mmm* is not in the proper sequence. All *mmm* statements must be coded in sequence.

System Action: This statement is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Place the *mmm* statement in proper sequence and resubmit the job.

ICN021I   *aaa* **[(***x***)]=***bbb* **INVALID,** *explanation, *variable**

Explanation: The value *bbb* specified for the keyword *aaa* is not valid. If *(x)* is present, it shows the suboperand position of *bbb* within the keyword *aaa*. The explanation in the message explains why *bbb* is not valid.

**variable* can be one of the following:

- REQUIRED

    The generation process requires a valid value for keyword *aaa[(x)]*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

    The generation process assumes the default value *ccc*.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

    The generation process does not require the keyword *aaa*, so the value *bbb* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN022I   *aaa=bbb* **INVALID, EXCEEDS** *n* **CHARACTERS,** **variable**

Explanation: The value *bbb* is specified in the keyword *aaa*. The number of characters in *bbb* exceeds the maximum number of characters, *n*, allowed for the keyword.

variable can be one of the following:

- REQUIRED

  The generation process requires a value for keyword *aaa*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc* for the keyword *aaa*.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

  The generation process does not require the keyword *aaa*, so it is ignored by NDF during generation process.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN023I   **IDLIST HAS NO VALID ENTRIES, REQUIRED**

Explanation: The IDSEQ keyword on this IDLIST definition statement specifies no valid entries.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the IDLIST definition statement and resubmit the job.

For more information, see the IDLIST definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN024I   *mmm* **EXCEEDS MAXIMUM NUMBER ALLOWED IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: Definition statement or keyword *mmm* specifies a value exceeding the maximum allowable value. The maximum allowable values are:

Statement or Keyword	Maximum Value
MTALCST definition statement	63 LCST entries
UBHR definition statement	65 unique user routines
BHSET definition statement	255 BH sets
LCST keyword	10 LCST entries
LCTYPE keyword	64 entries
MONLINK or XMONLNK keyword	255 entries

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the definition statement or keyword and resubmit the job.

ICN025I   *aaa=bbb* **INVALID, $ CANNOT BE FIRST CHARACTER IN A SYMBOL,** **variable**

Explanation: The symbol *bbb* is specified in the keyword *aaa*. The symbol *bbb* begins with the *$* character; statement symbols beginning with this character are reserved for use by the program generation process.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for keyword *aaa*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc* for the keyword *aaa*.

- IGNORED FOR STATEMENT KEYWORD VALIDATION

  The generation process does not require the keyword *aaa*, so the value *bbb* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN026I   **ADDR=***aaa* **PREVIOUSLY DEFINED FOR OTHER PU ON THIS LINE**

Explanation: ADDR=*aaa* is specified on another PU statement belonging to this LINE definition statement.

System Action: Depending on the severity of the error, the generation process either continues to completion or ends after validation of the generation definition.

Programmer Response: If duplicate ADDRs are not acceptable, correct the error and resubmit the job.

ICN027I   *aaa* **NOT SPECIFIED, REQUIRED FOR** *explanation*

Explanation: The keyword *aaa* is not specified. This keyword is required for the reason given in the explanation part of the message.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Supply the missing keyword and resubmit the job.

ICN028I   *aaa=bbb* **INVALID, EXCEEDS** *n* **CHARACTERS,** **variable**

Explanation: The value *bbb* is specified in the keyword *aaa*. The number of characters in *bbb* exceeds the maximum number of characters, *n*, allowed for the keyword.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for keyword *aaa*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

The generation process assumes the default value *ccc* for the keyword *aaa*.

- IGNORED FOR STATEMENT KEYWORD VALI-DATION

  The generation process does not require the keyword *aaa*, so the value *bbb* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN029I   *aaa=bbb* **INVALID, FIRST CHARACTER NOT ALPHA-BETIC,** **variable**

Explanation: The symbol *bbb* is specified as a symbol in the keyword *aaa*. The first character of *bbb* is not alphabetical.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for keyword *aaa*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc* for the keyword *aaa*.

- IGNORED FOR STATEMENT KEYWORD VALI-DATION

  The generation process does not require the variable *aaa*, so the value *bbb* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN030I   *aaa* **NOT SPECIFIED, REQUIRED**

Explanation: The keyword *aaa* is not specified. The generation process requires a value for that keyword.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Supply keyword *aaa* and resubmit the job.

ICN031I   *aaa=bbb* **INVALID, TIMEOUT TABLE IS FULL,** *ccc* **IS ASSUMED FOR STATEMENT KEYWORD VALI-DATION**

Explanation: The time-out value *bbb* is specified for the keyword *aaa*. Sixteen time-out values have previously been specified, and no new ones can be specified.

System Action: The default value *ccc* is assumed. The generation process ends after validation of the generation definition.

Programmer Response: Respecify time-outs in program source statements so that no more than 16 different time values are specified; then resubmit the job.

For more information, see the BUILD definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN032I   *mmm* **HAS PREVIOUSLY BEEN ENTERED - IGNORED FOR STATEMENT KEYWORD VALI-DATION**

Explanation: Statement *mmm* is specified more than once in the input statements for NCP generation. This statement can be specified only once.

System Action: The repeated statement is ignored. The generation process is ended after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN033I   **NO** **variable** **DEFINED IN THIS GENERATION**

Explanation: **variable** can be either GROUPS or LINES. The program source statements do not contain any GROUP or LINE definition statements.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Add to the program source statements the GROUP and LINE definition statements required to define the network, and resubmit the job.

For more information, see the GROUP and LINE definition statements in *NCP, SSP, and EP Resource Definition Reference*, and see "How You Define Resources to NCP" in *NCP, SSP, and EP Resource Definition Guide*.

ICN034I   **CUTYPE=***bbb*, **NON-SUPPORTED CONTROL UNIT TYPE,** **variable**

Explanation: The CUTYPE keyword on the CLUSTER definition statement specifies a type of control unit that is not supported by NCP.

variable can be one of the following:

- 3271 IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value 3271.

- IGNORED FOR STATEMENT KEYWORD VALI-DATION.

  The keyword CUTYPE is not required and is ignored by NDF.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the CUTYPE keyword and resubmit the job.

For more information, see the CLUSTER definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN035I **CSB MOD=**bbb **SPECIFIED, ALL LOWER CSB'S REQUIRED**

Explanation: MOD=bbb is specified in the CSB definition statement, but one or more CSB definition statements specifying a lower value for MOD are missing.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Preceding the CSB definition statement in which MOD=bbb is specified, insert in the input statements for NCP one or more CSB definition statements having lower values for the MOD keyword. Then resubmit the job.

For more information, see the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release, and the chapter on defining communication controllers in the *NCP, SSP, and EP Resource Definition Guide* for your NCP release.

ICN036I **SPEED=**bbb **INVALID, EXCEEDS MAXIMUM SPEED FOR TYPE 1 CSB, REQUIRED**

Explanation: The value bbb is specified as the line speed; this speed exceeds the maximum speed (7200 bps) at which a line attached to a type-1 communication scanner can operate.

System Action: The generation process ends after the validation of the generation definition.

Programmer Response: Correct the specified speed and resubmit the job.

For more information, see the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release, and the chapter on defining communication controllers in the *NCP, SSP, and EP Resource Definition Guide* for your NCP release.

ICN037I **CSB** *variable* **NOT DEFINED**

Explanation: *variable* can be one of the following:

- BASE MODULE
- EXPANSION MODULE 1
- EXPANSION MODULE 2
- EXPANSION MODULE 3.

No CSB definition statement for the module indicated appears in NCP generation input statements.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: In NCP generation input statement, insert a CSB definition statement for the indicated module and resubmit the job.

ICN038I **SPEED=**bbb **INVALID, CSB OSCILLATOR SPEED LESS THAN ONE HALF THE LINE SPEED NOT FOUND, REQUIRED FOR EXTERNAL CLOCKING**

Explanation: SPEED=bbb is specified for this line, which has external clocking. No speed less than one-half bbb was defined for the communication scanner to which this line is attached.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct one of the following and resubmit the job:

- If the line is attached to the wrong scanner, recode the ADDRESS keyword on the LINE definition statement. See the LINE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

- If the CSB definition statement specifies the wrong oscillator bit rates, recode the CSB definition statement. See the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release.

- If bbb is incorrect, recode the SPEED keyword. See the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release.

See also the chapter on NCP and link-attached devices in the *NCP, SSP, and EP Resource Definition Guide* for your NCP release.

ICN039I **SPEED=**bbb **NOT CHECKED FOR OSCILLATOR ASSOCIATION,** *explanation*

Explanation: The value bbb is specified as the speed for this line, but it cannot be checked for validity against the communication scanner oscillator rates because of the reason shown in *explanation*.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the errors shown in *explanation* and resubmit the job.

See the LINE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN040I **SPEED=**bbb **INVALID, CSB SPEED EQUAL LINE SPEED NOT FOUND, REQUIRED FOR INTERNAL CLOCKING**

Explanation: SPEED=bbb is specified for this line, which has internal clocking. No speed equal to bbb was defined for the scanner to which this line is attached.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct one of the following and resubmit the job:

- If the line is attached to the wrong scanner, recode the ADDRESS keyword on the LINE definition statement. See the LINE definition statement in the *NCP, SSP, and EP Resource Definition Reference*.

- If the CSB definition statement specifies the wrong oscillator bit rates, recode the CSB definition statement. See the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release.

- If bbb is incorrect, recode SPEED.

See also the chapter on NCP and link-attached devices in the *NCP, SSP, and EP Resource Definition Guide* for your NCP release.

ICN041I   *aaa=bbb* **INVALID, REQUIRED FOR** *explanation*

Explanation: The value *bbb* is not a valid specification for the keyword *aaa* and is required for the reason shown in the *explanation*.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify an acceptable value for the keyword *aaa* and resubmit the job.

ICN042I   *aaa* **INVALID STATEMENT SYMBOL,** *explanation*, **IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The statement symbol *aaa* is not valid for the reason shown in the *explanation*.

System Action: The statement symbol is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Correct the statement symbol or omit the statement symbol if it is not required.

ICN043I   *yyy* **INVALID STATEMENT SYMBOL, NOT INCLUDED IN SERVICE ORDER TABLE,** **variable**

Explanation: In the ORDER keyword on the SERVICE definition statement for this multipoint line, the statement symbol *yyy* specified in the statement symbol field is not specified.

variable can be one of the following:

- REQUIRED IF DIAL=NO
- REQUIRED IF DIAL=NO AND POLLED=YES
- REQUIRED IF DIAL=NO AND POLLED=YES AND GPOLL IS SPECIFIED.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Do one of the following:

- Correct the SERVICE definition statement so that it contains the statement symbol *yyy* as an entry.
- Let the ORDER keyword default.
- Specify the correct statement symbol for the PU, CLUSTER, TERMINAL, or COMP definition statement for this device.
- Resubmit the job.

For more information, see the SERVICE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN044I   **PREVIOUS** **variable** **HAS NO DEVICES**

Explanation: **variable** can be either CLUSTER or LINE. The previous CLUSTER definition statement or LINE definition statement for a nonswitched line is not followed by any CLUSTER, TERMINAL, or COMP definition statement representing a device. At least one must be specified.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify one or more devices following the CLUSTER or LINE definition statement and resubmit the job.

For more information, see the entries for the CLUSTER and LINE definition statements in *NCP, SSP, and EP Resource Definition Reference*.

ICN045I   **TERM=3275 INVALID, ONLY ONE TERMINAL CAN BE ON A 3275 CLUSTER**

Explanation: A second TERMINAL definition statement with TYPE=3275 was specified following a CLUSTER with CUTYPE=3275 added. Only one TERMINAL definition statement can follow the CLUSTER definition statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Remove the TERMINAL definition statement in error and resubmit the job.

For more information, see the TERMINAL definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN046I   **THIS RESOURCE AND ALL THOSE DEFINED FOLLOWING IT IN THIS NETWORK CAN COMMUNICATE ONLY WITH RESOURCES WHICH SUPPORT EXTENDED NETWORK ADDRESSING.**

Explanation: The network address is too large to fit in a non-extended network addressing control block and therefore can only be addressed by an ENA-capable node.

System Action: Processing continues.

Programmer Response: No response is necessary.

ICN047I   **CRITICAL SITUATION MESSAGE [HEADER] NOT AN EVEN NUMBER OF HEXADECIMAL DIGITS, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The total number of digits specified by either the CSMSG and CSMSGC or CSMHDR and CSMHDRC keywords is not an even number.

System Action: The keyword is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Recode the CSMHDR and CSMHDRC keywords and resubmit the job.

For more information, see the BUILD definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN048I   **CRITICAL SITUATION MESSAGE HEADER PLUS TEXT EXCEEDS LIMIT OF 476 HEXADECIMAL DIGITS, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The total number of hexadecimal digits specified in the CSMSG, CSMSGC, CSMHDR, and CSMHDRC keywords exceeds the maximum of 476.

System Action: The CSMSG, CSMSGC, CSMHDR, and CSMHDRC keywords are ignored. The generation process ends after validation of the generation definition.

Programmer Response: Recode the CSMSG, CSMSGC, CSMHDR, and CSMHDRC keywords so that the total number of hexadecimal digits does not exceed 476. Resubmit the job.

For more information, see the BUILD definition statement in *NCP, SSP, and EP Resource Definition Reference.*

ICN049I **NO VALID BLOCK HANDLER SPECIFIED FOR BHSET, REQUIRED**

Explanation: No valid block handlers were specified by the PT1, PT2, and PT3 keywords of the BHSET definition statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If this block handler set is required, specify the name of a valid block handler and resubmit the job; otherwise, delete the incorrect BHSET definition statement and resubmit the job.

For more information, see the BHSET definition statement in *NCP, SSP, and EP Resource Definition Reference.*

ICN050I **SEQUENCE ERROR - PREVIOUS GROUP HAS NO [NCP *or* PEP] LINES, REQUIRED FOR** *explanation*

Explanation: Two GROUP definition statements were found with no intervening statements. At least one intervening LINE definition statement must be specified unless DIAL=YES and TERM=1050, 2740-1, or TWX are coded in the previous GROUP definition statement. The *explanation* defines the specific reason for requiring a LINE definition statement following the previous GROUP definition statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Take either of the following actions and resubmit the job:

- Correct the errors indicated by the *explanation*.
- Specify the LINE definition statement or statements belonging in the group represented by the previous GROUP definition statement.

ICN051I **LINE CONFLICT - SPEED GT** *speed* **AT** *address1-address2* **AND LINE AT** *address3-address4*

Explanation: During the automatic resolution of the scan limits, a line with speed greater than *speed* was found in the range of addresses *address1 to address2* and another was found in the range of addresses *address3 to address4*. This is an incorrect configuration, and no valid scan limit can be set.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Take either of the following actions and resubmit the job:

- If the configuration is incorrect, recode the SPEED, ADDRESS, or AUTO keyword of the definition statement that defines this line.

- Override the automatic scan limit processing by specifying the SCANCTL keyword on the GENEND definition statement.

For more information, see the appropriate definition statement in *NCP, SSP, and EP Resource Definition Reference.*

ICN052I **LINE** *address1,* **CONFLICTS WITH** *address2, . . .*

Explanation: Line address *address1* requires the use of address substitution. If address substitution is performed, any of the lines *address2, . . .* that are defined will be disabled.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Take either of the following actions and resubmit the job:

- Correct the configuration of lines to remove the conflict.

- Override the automatic substitution processing by specifying the SCANCTL keyword on the GENEND definition statement.

ICN053I **THE NUMBER OF RESOURCES DEFINED EXCEEDS** *n,* **THE MAXIMUM AVAILABLE FOR THIS NETWORK**

Explanation: The number of resources defined in the generation input stream exceeds *n*, the maximum that can be specified. These resources were defined through BUILD, PUDRPOOL, LUDRPOOL, LINE, PU, CLUSTER, TERMINAL, COMP, and LU definition statements—plus one resource if monitor mode is used in the generation.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Either reduce the number specified in the MAXSUBA keyword to a value that allows the program to accommodate the specified number of resources, or remove some of the resource definitions from the definition. Then resubmit the job.

For more information, see the BUILD and NETWORK definition statements in *NCP, SSP, and EP Resource Definition Reference.* See also *NCP, SSP, and EP Resource Definition Guide* for a discussion of the relationship between NCP and the access method.

ICN054I **SUBAREA=n PREVIOUSLY DEFINED, REQUIRED**

Explanation: Subarea address *n* has been specified in an earlier SUBAREA keyword.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Change one of the duplicate subarea addresses and resubmit the job.

For more information on the access method and NCP subareas see *NCP, SSP, and EP Resource Definition Guide.*

ICN055I   *mmm1* **HAS PREVIOUSLY BEEN ENTERED -** *mmm2* **IGNORED FOR STATEMENT KEYWORD VALI-DATION**

Explanation: Statement *mmm2* cannot be specified if statement *mmm1* is specified. (For example, both the HOST and the PATH definition statements cannot be specified if TYPGEN=NCP-R is specified.)

System Action: Statement *mmm2* is ignored. The generation process is ended after validation of the generation definition.

Programmer Response: Take either of the following actions and resubmit the job:

- If the appearance of statement *mmm1* is correct, remove statement *mmm2* from the input definition.

- If the appearance of statement *mmm2* is correct, remove statement *mmm1* from the input definition.

ICN056I   *aaa* **SUBOPERAND** *bbb* **OMITTED,** **variable**

Explanation: The value for suboperand position *bbb* is omitted from keyword *aaa*.

variable can be one of the following:

- REQUIRED

  The generation process requires a value.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc* for suboperand position *xx*.

- IGNORED FOR STATEMENT KEYWORD VALI-DATION

  The generation process does not require the keyword *aaa*, so the omission of the suboperand is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the value and resubmit the job.

ICN057I   *aaa=bbb* **IS AN INVALID HARDWARE CONFIGURA-TION, REQUIRED**

Explanation: For keyword *aaa*, value *bbb* represents a hardware configuration that is not supported.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: See the explanation of keyword *aaa* for the supported configuration.

Correct the value for the keyword *aaa* and resubmit the job.

ICN058I   **PREVIOUS LINE HAS NO PUTYPE 4 PHYSICAL UNITS DEFINED, REQUIRED FOR PRIMARY MULTI-POINT SUBAREA NODE LINES**

Explanation: The previous LINE definition statement has no type 4 physical unit resources defined for it. One of the following conditions exists:

- For a peripheral node line, the MODE=PRIMARY keyword is coded incorrectly on the GROUP definition statement. This keyword should be omitted.

- For primary multipoint subarea node lines, at least one type 4 physical unit resource must be coded for the LINE definition statement.

System Action: The generation process is ended after validation of the generation definition.

Programmer Response: Correct your generation definition and resubmit the job.

ICN059I   *aaa=bbb* **INVALID, OTHER THAN FIRST CHAR-ACTER INVALID,** **variable**

Explanation: The value *bbb* contains an invalid character in some character position other than the first.

variable can be one of the following:

- REQUIRED

  The generation process requires a value for the keyword *aaa*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes a value *ccc* for the keyword *aaa*.

- IGNORED FOR STATEMENT KEYWORD VALI-DATION

  The generation process does not require the keyword *aaa*, so value *bbb* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN060I   *aaa* **INVALID, SUBOPERAND** *nnn* **IS OMITTED,** **variable**

Explanation: The keyword *aaa* is not a valid specification because the suboperand at position *nnn* is omitted.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for the suboperand at position *nnn*.

- *ccc* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

  The generation process assumes the default value *ccc*.

- IGNORED FOR STATEMENT KEYWORD VALI-DATION

  The generation process does not require the keyword *aaa*, so the keyword *aaa* is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: If a value is required or the value assumed is not acceptable, correct the value and resubmit the job.

ICN061I [OPERAND | SUBOPERAND] *aaa* (*mmm* STATE-MENT) IS NOT SUPPORTED (*explanation*), *variable*

Explanation: The keyword or suboperand *aaa* on statement *mmm* is not supported by the current release, or not supported under certain conditions shown in the *explanation*.

variable can be one of the following:

- IGNORED

  The keyword or suboperand *aaa* is ignored, and the generation process continues.

- REMOVED

  The keyword or suboperand *aaa* is removed from the generation definition and the generation process continues.

System Action: The keyword *aaa* is ignored or removed. The generation process continues.

Programmer Response: You can remove these keywords from your generation definition.

ICN062I TWO SUBOPERANDS ON *aaa* ARE NO LONGER SUPPORTED, THE SECOND VALUE IS USED

Explanation: Two suboperands are specified for the keyword *aaa*, but are not supported by SSP V3R3. Only the second value specified will be used.

System Action: The first value specified for the keyword *aaa* is ignored. The generation process continues.

Programmer Response: Specify only one value for the keyword *aaa*.

ICN063I SYSIN DATA CONTAINS NO VALID INPUT STATE-MENTS

Explanation: No valid input statements were found in the generation definition or the generation input was undefined.

Programmer Response: Correct the error in either the JCL input or the generation definition and resubmit the job.

ICN064I AUTOGEN=*nn* WOULD CAUSE NUMBER OF *variable*, AUTOGEN WILL NOT BE PERFORMED

Explanation: The value *nn* is specified for AUTOGEN. AUTOGEN is coded for more than 25 NTRI logical groups, or the value specified makes the total number of NTRI logical resources defined greater than MXVLINE.

variable can be one of the following:

- AUTOGEN GROUPS TO EXCEED ALLOWED MAXIMUM OF 25
- LOGICAL NTRI RESOURCES TO EXCEED MXVLINE.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify a valid value for AUTOGEN and resubmit the job.

ICN065I *variable* LINES WERE PROCESSED, REQUIRED

Explanation: *variable* can be one of the following:

- MXRLINE=*bbb* ON THE BUILD STATEMENT AND *nn* NTRI PHYSICAL
- MXVLINE=*bbb* ON THE BUILD STATEMENT AND *nn* NTRI LOGICAL.

The value *bbb* is specified for the MXRLINE or MXVLINE keyword. The value *nn* is the number of NTRI lines defined. The value specified for MXRLINE does not equal the number of NTRI physical lines specified, or the value specified for MXVLINE does not equal the number of NTRI logical lines defined.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify the correct values for MXRLINE and MXVLINE and resubmit the job.

ICN066I ADDRESS=*nn* INVALID, *variable* LINES DEFINED IN ADDRESS RANGE *yyy* REQUIRED

Explanation: Value *nn* is specified for ADDRESS.

variable can be one of the following:

- NTRI LINE CANNOT BE SPECIFIED IN ADDRESS RANGE *xxx*
- WITH NON-NTRI
- NON-NTRI LINE CANNOT BE SPECIFIED IN ADDRESS RANGE *xxx*
- WITH NTRI.

A NTRI line and a non-NTRI line cannot be specified in the same address range.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify NTRI and non-NTRI lines at valid addresses and resubmit the job.

See the ADDRESS keyword on the LINE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN067I SUBAREA ON THE BUILD STATEMENT *variable a*, A LABEL PREFIX OF J0001 IS ASSUMED FOR *variable b*

Explanation: *variable a* can be either IS NOT CODED or IS INVALID. *variable b* can be either NTRI RESOURCE STATEMENTS GENERATED WITH AUTOGEN or NTRI SERVICE STATEMENTS.

The subarea keyword is either invalid or was not coded. NDF uses a label prefix of J0001 when forming labels for NTRI resource and service statements.

Programmer Response: Specify a correct value for the subarea and resubmit the job.

ICN068I USGTIER=*bbb* INVALID, EXCEEDS USAGE TIER INSTALLED, REQUIRED

Explanation: The value *bbb* exceeds the highest usage tier installed in NCP.

System Action: The generation process ends after validation of the generation definition. No line addresses are checked for usage tier compatibility.

Programmer Response: Install the licensed usage tier desired with NCP. Code a USGTIER value less than or equal to the usage tier installed.

ICN069I NUMBER OF TGBS FOR THIS NCP EXCEEDED MAXIMUM OF 65534 BY *xxx* WHILE PROCESSING PREVIOUS NETWORK STATEMENT, IGNORED.

Issued by: ICNXXTRA

Explanation: The total number of transmission group control blocks allowed for NCP (65 534) is exceeded. The total is a cumulative total that is updated during (1) PATH definition statement processing as each unique adjacent subarea-TGN pair is encountered, and (2) BUILD and NETWORK definition statement processing of the TGBXTRA keyword. The value specified on the TGBXTRA keyword on the previous NETWORK definition statement has caused the sum of the TGBs to exceed 65 534 by *xxx*.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Limit the total number of TGBs to 65 534 and resubmit the job.

For more information, see the TGBXTRA keyword on the BUILD and NETWORK definition statements in *NCP, SSP, and EP Resource Definition Reference*.

ICN070I NOT ENOUGH VIRTUAL STORAGE AVAILABLE FOR VALIDITY CHECKING, CHECKING IS SUSPENDED.

Issued by: ICNX0STG, ICNX0VLC, ICNXOVIP

Explanation: A request was made to get virtual memory that is subsequently used for validity checking, but the request could not be fulfilled.

System Action: Validity checking is not done, and certain error conditions such as duplicate specifications or required specifications will go undetected.

Programmer Response: Increase the virtual region size and resubmit the job.

ICN071I *aaa* [(*x*)]=*bbb* INVALID, [*explanation*] *ccc* IS ASSUMED

Explanation: The value *bbb* specified for the keyword *aaa* is not valid. If *(x)* is present, it shows the suboperand position of *bbb* within keyword *aaa*. *explanation* in the message explains why *bbb* is not valid.

System Action: The keyword value is corrected, and processing continues.

Programmer Response: Correct the keyword value in your generation definition.

ICN072I SUM OF NUMHSAS VALUES EXCEEDED MAXIMUM OF 65534 BY *xxx* WHILE PROCESSING PREVIOUS NETWORK STATEMENT, NUMHSAS=*yyy* IS ASSUMED FOR STATEMENT KEYWORD VALIDATION

Issued by: ICNXNUMH

Explanation: The maximum allowable sum of NUMHSAS keyword values (65 534) is exceeded. The total is a cumulative total that is updated as NDF processes the NUMHSAS keyword on the BUILD and NETWORK definition statements. The value specified for the NUMHSAS keyword on the previous NETWORK definition statement has caused the sum to exceed 65 534 by xxx.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Limit the sum of all the NUMHSAS values to 65 534 and resubmit the job.

For more information, see the TGBXTRA keyword on the BUILD and NETWORK definition statements in *NCP, SSP, and EP Resource Definition Reference*.

ICN073I PREVIOUS ERROR PREVENTS {AUTOLINE|AUTOCOPY} REPLICATION FROM BEING PERFORMED

Explanation: For a description of the errors, see the previous error messages in the generation report.

System Action: The generation process stopped the automatic resource definition that was initiated by the AUTOLINE or AUTOCOPY keyword on the LINE definition statement. The generation process ends after validation of the generation definition.

Programmer Response: Correct the errors described by the previous error messages and resubmit the job.

ICN074I ADDRESS NOT INCORPORATED IN STATEMENT SYMBOL, AUTOLINE REPLICATION NOT DONE

Explanation: The AUTOLINE function requires that the line address, specified on the ADDRESS keyword, must appear in the label of each definition statement in the line structure. That is, TERMINAL and COMP definition statements must appear for BSC and start-stop lines and LINE, PU, and LU definition statements must appear for SDLC lines.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Inspect the line structure and make sure that the line address is part of the label of each definition statement. Resubmit the job.

ICN075I LENGTH OF STATEMENT SYMBOL *aaaaaaa* EXCEEDS 8 CHARACTERS, {AUTOLINE|AUTOCOPY} REPLICATION CANNOT BE PERFORMED

Explanation: In the process of incrementing from 99 to 100 or 999 to 1000 during automatic resource definition, the length of the statement label has exceeded 8 characters, which is the maximum valid label length.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Reduce the length of any statement label with the potential of reaching an invalid length during AUTOLINE or AUTOCOPY replication, and resubmit the job.

ICN076I   STORAGE REQUIRED FOR DYNAMIC CREATION OF CONTROL BLOCKS = xxxxx BYTES (HEXADECIMAL)

Explanation: This message indicates the approximate amount of communication controller storage required for NCP control blocks built during the NCP initialization phase. Add this value to the NCP load module size (found in the Linkage Editor output) to determine how much controller storage will be taken up before NCP builds the buffer pool.

Note: See "NCP Buffer and Load Module Size" in the *NCP, SSP, and EP Generation and Loading Guide* for the procedure to determine the amout of storage available for the NCP buffer pool.

System Action: The generation process continues to completion if no errors are found.

Programmer Response: If you determine that the storage demand is excessive, consider reducing the storage requirement by specifying smaller values on keywords that affect storage.

The descriptions of these keywords in *NCP, SSP, and EP Resource Definition Reference* help you identify those that have the greatest effect on storage. Some of them are listed as follows:

BUILD	LUDRPOOL	PUDRPOOL	GWNAU	NETWORK
ADDSESS	NUMILU	NUMBER	NUMADDR	TGBXTRA
AUXADDR	NUMTYP1		NUMSESS	PATHEXT
BACKUP				
ERLIMIT	NUMTYP2			
HSBPOOL				
PATHEXT				
SALIMIT				
TGBXTRA				
VRPOOL				

ICN077I   INITIALIZATION STORAGE REQUIREMENT EXCEEDS MAXIMUM INSTALLABLE STORAGE SIZE OF THE IBM 37xx (y MEGABYTES)

Explanation: The amount of storage required for NCP initialization exceeds the maximum storage available for the indicated IBM communication controller model.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Because the initialization requirement by itself exceeds the communication controller's storage capacity, significant reductions in the storage demand imposed by your generation definition must be made. You can reduce the storage demand by specifying smaller values on keywords that affect storage.

The descriptions of these keywords in *NCP, SSP, and EP Resource Definition Reference* help you identify those that have the greatest effect on storage. Some of them are listed as follows:

BUILD	LUDRPOOL	PUDRPOOL	GWNAU	NETWORK
ADDSESS	NUMILU	NUMBER	NUMADDR	TGBXTRA
AUXADDR	NUMTYP1		NUMSESS	PATHEXT
BACKUP				
ERLIMIT	NUMTYP2			
HSBPOOL				
PATHEXT				
SALIMIT				
TGBXTRA				
VRPOOL				

ICN078I   AUTOGEN=nn WOULD CAUSE NUMBER OF LOGICAL NTRI RESOURCES TO EXCEED ALLOWED MAXIMUM OF 9999, AUTOGEN WILL NOT BE PERFORMED

Explanation: The value *nn* is specified for AUTOGEN. Either AUTOGEN is coded for more than 25 NTRI logical groups or the value specified results in more than 9999 NTRI logical resources being defined.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify a valid value for AUTOGEN and resubmit the job.

ICN079I   *variable* LINES WERE PROCESSED, REQUIRED

Explanation: *variable* can be one of the following:

- *nn* NTRI LOGICAL LINES AND NO NTRI PHYSICAL
- *nn* NTRI PHYSICAL LINES AND NO NTRI LOGICAL.

The value *nn* is the number of NTRI lines defined. Either physical or logical lines were not defined.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify the correct number of physical and logical lines and resubmit the job.

ICN080I   INBFRS IS NOT USED WITH CA={TYPE7|TYPE7-TPS}

Issued by: ICNN3INB, ICNN4INB

Explanation: The INBFRS keyword on the LINE definition statement is ignored for a type 7 channel adapter.

System Action: The keyword is ignored and the generation process continues to completion.

Programmer Response: If the channel adapter is a BCCA (type 7), remove the INBFRS keyword.

ICN081I   THE CALCULATED VALUE FOR THE NSC POOL IS nnnnn, WHICH EXCEEDS THE MAXIMUM OF 65535. 65535 IS USED. NSC POOL DEPLETION IS POSSIBLE.

Issued by: ICNS0N5E

Explanation: The sum of the values for GWSESAC(3) and SESSACC(3) exceeds 65 535. This situation occurs only when the default value is used for GWSESAC(3).

System Action: The NSC pool is allocated at 65 535. The generation process continues to completion.

Programmer Response: To make sure the NSC pool is not depleted, code a value smaller than the default for GWSESAC(3).

ICN082I   *aaa{=bbb}* **WAS SPECIFIED ON THE PREVIOUS {GROUP|LINE} STATEMENT BUT NO TYPE 4 PU WAS INCLUDED IN THE {GROUP|LINE},** *aaa{=bbb}* **IS IGNORED.**

Issued by: ICN03PRO

Explanation: Keyword *aaa*, or the value *bbb* specified for keyword *aaa*, applies only to type 4 physical units. There was no type 4 physical unit specified for the previous GROUP or LINE definition statement.

System Action: The generation process continues to completion.

Programmer Response: Delete *aaa* or *aaa=bbb* from the previous GROUP or LINE definition statement or check to see if you want a type 4 physical unit.

ICN083I   **254 NON-NATIVE NETWORKS DEFINED, NETWORK STATEMENT WITH COPIES IS NOT LAST, REQUIRED**

Issued by: ICNS0N5E

Explanation: The COPIES keyword is coded on a NETWORK definition statement other than the last, so only non-native networks can be defined. When the COPIES keyword is coded on a NETWORK definition statement, a dynamically available network is produced and 254 non-native networks can be defined.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Make the NETWORK definition statement with COPIES coded the last definition statement.

ICN084I   *aaa[=bbb]* **WAS {ADDED|CHANGED|DELETED}[TO** *aaa=ccc*] **[-** *text*]

Issued by: ICNUSMIG

Explanation: In order to allow NDF to process the generation definition at the target configuration level, the NCP generation migration aid function did one of the following:

- Added keyword *aaa* with value *bbb*
- Changed keyword specification *aaa=bbb* to *aaa=ccc*
- Deleted keyword *aaa*.

text gives additional information.

System Action: The generation process continues to completion.

Programmer Response: Verify that the action taken by NDF is appropriate for your target configuration.

ICN085I   *aaa[=bbb]* **MUST BE {SPECIFIED|RESPECIFIED }TO MATCH YOUR NEW NCP'S CONFIGURATION [-** *text*]

Issued by: ICNUSMIG

Explanation: The NCP generation migration aid function determined that either the keyword *aaa* must be specified because it is required, or that value *bbb* must be respecified for keyword *aaa* for one of the following reasons:

- The keyword is hardware-specific and SAVEADDR=NO was specified.
- The keyword is hardware-specific and its value is invalid for the target NCP configuration.
- The keyword has a different meaning for the target NCP version or communication controller than for the input version or controller.

System Action: The generation process stops after validation of the generation definition.

Programmer Response: Specify an appropriate value for the keyword and rerun the generation. If *text* is included in this message, use it as a guide. It is repeated in the NEWDEFN file in the comment block above the definition statement on which *aaa* is specified.

ICN086I   **THERE {IS|ARE}** *aaa* **MORE** **variable** **SPECIFIED IN THIS GENERATION DEFINITION THAN THE IBM 37xx [,OPERATED AT USAGE TIER** *ccc*,] **CAN SUPPORT**

Explanation: For the IBM 37xx controller at usage tier *ccc*, the NCP generation migration aid function determined that the number of resources specified by **variable** exceeds by *aaa* the maximum number supported. **variable** can be one of the following:

- LINE NUMBERS

  Low-medium speed line numbers

- HISPEED=YES PORTS

  Low-medium speed line numbers for which HISPEED=YES is specified (IBM 3720 only)

- NTRI PHYSICAL LINES

  NTRI physical lines (NCP V5R3.1 and earlier)

- TOKEN-RING ADAPTERS

  Token-ring adapters (NCP V5R4)

- TRA/ESS ADAPTERS

  Token-ring or Ethernet-type subsystem (ESS) adapters (NCP V6R1 and later)

- HSS LINES

- CHANNELS.

If the usage tier phrase does not appear in the message, the usage tier specified in the generation definition offers the maximum number of connections available; the only solution is to reduce the number of definitions of the type indicated by the message.

System Action: The NCP generation migration aid function converts the last *aaa* line or channel definitions to comments in the output NEWDEFN file. The generation process stops after validation of the generation definition.

Programmer Response: Do one of the following:

- Reduce the number of line or channel definitions to the number allowed by your communication controller and usage tier.

- Specify a higher usage tier if your controller is so equipped.

Rerun the generation.

ICN087I **THE MAXIMUM NUMBER OF** *variable* **ALLOWABLE FOR THIS COMBINATION OF MODEL AND USAGE TIER HAVE ALREADY BEEN DEFINED. THIS DEFINITION AND ALL ITS STATEMENTS ARE CONVERTED INTO NEWDEFN COMMENTS**

Explanation: For the maximum number supported by the target usage tier or communication controller, the NCP generation migration aid function determined that the number of resources specified by *variable* was reached. *variable* can be one of the following:

- LINE NUMBERS

  Low-medium speed line numbers

- HISPEED=YES PORTS

  Low-medium speed line numbers for which HISPEED=YES is specified (IBM 3720 only)

- NTRI PHYSICAL LINES

  NTRI physical lines (NCP V5R3.1 and earlier)

- TOKEN-RING ADAPTERS

  Token-ring adapters (NCP V5R4)

- TRA/ESS ADAPTERS

  Token-ring or Ethernet-type subsystem (ESS) adapters (NCP V6R1 and later)

- HSS LINES

- CHANNELS.

This message appears on the LINE definition statement where the maximum was reached, and on all subsequent definition statements of that type.

System Action: The NCP generation migration aid function converts the extra line or channel definitions to comments in the output NEWDEFN file. The generation process stops after validation of the generation definition.

Programmer Response: Do one of the following:

- Reduce the number of line or channel definitions to the number allowed by your communication controller and usage tier.

- Specify a higher usage tier if your controller is so equipped.

Rerun the generation.

ICN088I **THIS LOGICAL GROUP POINTS TO A PHYSICAL LINE FOR WHICH THERE WAS NO ROOM ON THIS CONTROLLER. IT AND ALL ITS STATEMENTS ARE CONVERTED INTO NEWDEFN COMMENTS**

Explanation: A logical line group (for example, a NTRI logical line) pointed to a physical line; that physical line was converted into a comment in the NEWDEFN file. The logical line group was also converted into a comment.

System Action: The NCP generation migration aid function converts the logical group to comments in the output NEWDEFN file. The generation process stops after validation of the generation definition.

Programmer Response: Either remove the line group, or change the line group to point to a valid physical line. Rerun the generation.

ICN089I **THIS NTRI LINE AND ITS SUBORDINATE LINES ARE NOT ALLOWED, BECAUSE ONE OR MORE NON-NTRI LINES ARE OCCUPYING ADDRESS RANGE 16-27**

Explanation: IBM 3720 only. Since there are non-NTRI lines assigned to address range 16 to 27, there can be no NTRI lines defined on the communication controller.

System Action: The NCP generation migration aid function converts all NTRI definitions to comments in the output NEWDEFN file. The generation process stops after validation of the generation definition.

Programmer Response: Delete either the NTRI definitions or the non-NTRI definitions. Rerun the generation.

ICN090I **THIS LINE BRINGS THE NUMBER OF [TOKEN-RING | TOKEN-RING/ETHERNET] ADAPTERS TO** *aa***, WHICH EXCEEDS BY** *bb* **THE NUMBER ALLOWED BY {IBM 37XX | USAGE TIER** *cc***}. [A MINIMUM USAGE TIER** *dd* **IS REQUIRED IN ORDER TO SUPPORT** *aa* **[TOKEN-RING| TOKEN-RING/ETHERNET] ADAPTERS]**

Explanation: IBM 3745 only. You have coded either more token-ring adapters (NCP V5R4) or token-ring and Ethernet-type subsystem (ESS) adapters (NCP V6R1 and later) than are supported by the communication controller or by the current usage tier.

System Action: The generation process stops after validation of the generation definition.

Programmer Response: Either decrease the number of token-ring or Ethernet-type subsystem (ESS) adapters, or code a higher usage tier. When the usage tier level and number of adapters are compatible, rerun the generation.

ICN091I **THIS LINE BRINGS THE TOTAL NUMBER OF CCU** *aa* **{CHANNEL LINKS | TRA | ESS ADAPTERS} TO** *bb***, WHICH EXCEEDS THE MAXIMUM OF** *cc* **PER CCU ALLOWED BY USGTIER=***dd***. USGTIER=3-S OR 3-TS OR A USAGE TIER OF 4 OR HIGHER IS REQUIRED IN ORDER TO SUPPORT** *bb* **CCU** *aa* **{CHANNEL LINKS | TRA | ESS ADAPTERS}**

Explanation: IBM 3745 in twin-in-dual or twin-in-backup mode only. You have coded either more than four channel links per CCU, or more than two token-ring and Ethernet-type subsystem (ESS) adapters per CCU, and they are not supported by the current USGTIER specification.

System Action: The generation process stops after validation of the generation definition.

Programmer Response: Either decrease the number of channel links or adapters to the specified maximum per CCU, or specify twin-in-standby,

USGTIER=3-S or 3-TS, or a higher usage tier. When the USGTIER specification and the number of channel links per CCU or adapters per CCU are compatible, rerun the generation.

ICN092I THIS LINE BRINGS THE TOTAL NUMBER OF CHANNEL LINKS TO *aa* WHICH EXCEEDS BY *bb* THE NUMBER ALLOWED BY {THE IBM 37XX|USAGE TIER *cc*}. {A MINIMUM USAGE TIER OF *dd* IS REQUIRED IN ORDER TO SUPPORT *aa* CHANNEL LINKS}

Explanation: IBM 3745 only. You have coded more channel links than are supported by the communication controller or by the current usage tier.

System Action: Either decrease the number of channel links or code a higher usage tier.

Programmer Response: Rerun the generation.

ICN094I *aaa* IGNORED BECAUSE *explanation*

Explanation: The keyword *aaa* is ignored. The reason is given in the variable *explanation*.

System Action: The generation process continues.

Programmer Response: You might want to remove this keyword from your generation definition.

ICN095I NDF CANNOT CHECK LOCADD UNIQUENESS BECAUSE ADDRESS IS INVALID, ENSURE LOCADD IS UNIQUE FOR ALL ETHERNET LINES

Explanation: Because the ADDRESS value for this Ethernet-type LAN line is invalid or omitted, NDF cannot validate that the LOCADD value specified is unique for all Ethernet-type LAN lines in the generation definition.

System Action: The LOCADD value is ignored.

Programmer Response: Make sure all LOCADD values are unique for all Ethernet-type LAN lines.

ICN100I *xxx* NOT REQUIRED FOR {VSE | DOS}, IGNORED FOR STATEMENT KEYWORD VALIDATION

Explanation: Parameter *xxx* was specified, but is not used in a VSE (DOS) generation.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the error and resubmit the job.

ICN101I *aaa=address* INVALID, *explanation, *variable**

Explanation: The specified internet address violated one of the following conditions:

- The internet address must be one of the three classes of network addresses:

  Class A Is identified by B'0' in the high-order bit and has a 1-byte network address.

  Class B Is identified by a B'10' in the high-order bits and has a 2-byte network address.

  Class C Is identified by B'110' in the high-order bits and has a 3-byte network address.

- The internet address must be specified in one of the following notations:

  Dotted Decimal Four decimal numbers separated by periods, where each decimal number can be a number from 0 to 255, for example, 125.11.0.255

  Hexadecimal Eight hexadecimal digits, for example, 7D0B00FF.

- The internet address cannot be specified as a broadcast address.

variable can be one of the following:

- REQUIRED

  The generation process requires a valid value for *aaa*.

- IGNORED FOR STATEMENT VALIDATION

  The generation process does not require the keyword *aaa* and is ignored.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the internet address and resubmit the generation.

For further information, see the section on internet network resources in *NCP, SSP, and EP Resource Definition Guide*.

ICN102I *variable* DUE TO GENILU=NO ON BUILD

Explanation: *variable* can be either LU IGNORED or *aaa* INCREASED TO *xxx*. This informational message indicates that GENILU=NO on BUILD caused (1) an independent logical unit to be ignored and the element address and control blocks for the logical unit not to be produced, or (2) the value of aaa to be increased to *xxx*.

System Action: The generation continues to completion if no errors are found.

Programmer Response: No response is necessary.

ICN103I {*aaa* | THE SUM OF *aaa*, *bbb* AND *ccc*} HAS REACHED THE MAXIMUM OF *xxx*, *aaa* WILL NOT BE INCREMENTED

Explanation: This informational message indicates that for each ignored independent logical unit processed, either NUMILU is incremented by 1 or the RESSCB value is added to ADDSESS on the BUILD definition statement. However, once ADDSESS and NUMILU reach their maximum, they will not be increased.

System Action: The generation continues to completion if no errors are found.

Programmer Response: No response is necessary.

ICN104I THE NCPTRACE FUNCTION INCLUDES THE NTRISNAP FUNCTION. NTRISNAP SHOULD BE {REMOVED FROM | REPLACED BY NCPTRACE IN} THE GENERATION DEFINITION.

Explanation: The function provided by NCPTRACE includes the function provided by NTRISNAP. You are encouraged to migrate to NCPTRACE.

System Action: The generation continues to completion if no errors are found.

Programmer Response: Replace NTRISNAP with NCPTRACE.

ICN105I TERM=*bbb* INVALID, SHOULD BE CODED AS CUTYPE=*bbb*, IGNORED FOR STATEMENT KEYWORD VALIDATION

Explanation: Terminal type *bbb* is not a supported terminal type but is a valid control unit type (CUTYPE).

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify *bbb* as a control unit (CUTYPE) on the CLUSTER or LINE definition statement and resubmit the job.

For more information, see the CLUSTER or LINE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN106I WRAPLN=*bbb* NOT CHECKED FOR MOD ASSOCIATION, DUE TO ERROR IN MOD OR TYPE

Explanation: Address *bbb* is specified, but it cannot be checked for validity because of an error in the MOD or TYPE keyword specification.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the error shown in the explanation and resubmit the job.

For more information, see the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release.

ICN107I SPEED=*bbb* INVALID, EXCEEDS MAXIMUM OF 2400 FOR INTERNAL CLOCKING, REQUIRED

Explanation: The value *bbb* is specified as the speed for this line. Because internal clocking is specified, the maximum allowed is 2400.

System Action: The speed process ends after validation of the generation definition.

Programmer Response: Specify the correct speed and resubmit the job.

For a table of correct speeds, see the CSB definition statement in the *NCP, SSP, and EP Resource Definition Reference* for your NCP release.

ICN108I THIS *variable* STATEMENT IS CONVERTED INTO A NEWDEFN COMMENT, *explanation*

Explanation: The migration aid determined that this definition statement was not needed in the new NCP configuration, and commented it out when writing the new NCP generation definition to the NEWDEFN file.

System Action: The generation process stopped after validation of the generation definition.

Programmer Response: Remove the definition statement and rerun the generation.

ICN109I AUTOCOPY REPLICATION GENERATED ADDR=*xx*, WHICH EXCEEDS THE MAXIMUM, *yy*

Explanation: AUTOCOPY for a frame-relay logical physical unit generated an ADDR value that exceeds the maximum value allowed for the ADDR keyword.

System Action: The generation process stopped the automatic resource definition that was initiated by the LINE definition statement's AUTOCOPY keyword. The generation process ends after validation of the generation definition.

Programmer Response: Begin with a lower value for the ADDR keyword or make fewer copies or remove some previously defined frame-relay logical resources. Resubmit the job.

ICN110I FEATURE=*fff* IS STANDARD FOR TERMINAL TYPE *bbb*

Explanation: The FEATURE keyword need not be specified. Feature *ffff* is standard when terminal type *bbb* is specified in the LINE definition statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Remove the feature specification and resubmit the job.

For more information, see the LINE definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN111I SEQUENCE ERROR, PREVIOUS GROUP HAS NO LINES

Explanation: No LINE definition statements follow the preceding GROUP definition statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the sequence of definition statements so at least one LINE definition statement follows the preceding GROUP definition statement, or remove the GROUP definition statement. If this definition statement should be a standalone GROUP definition statement for an SDLCST definition statement, check the SDLCST and GROUP definition statements for compatibility. Resubmit the job.

For more information, see the GROUP and LINE definition statements in *NCP, SSP, and EP Resource Definition Reference*. For information on using the SDLCST definition statement with the GROUP definition statement, see *NCP, SSP, and EP Resource Definition Guide*.

ICN112I **[HICHAN|LOCHAN]=**aa **IS NOT COMPATIBLE WITH THE PLUGGABLE HARDWARE SUBCHANNELS**

Explanation: One of the following has occurred:

- For the IBM 3725, LOCHAN address aa is not a subchannel equal to 16n where, n>1. When subchannels are installed in the communication controller, the lowest subchannel installed will have a subchannel number equal to 16n.

- For the IBM 3725, HICHAN address aa is not a subchannel equal to 4n–1, where n>1. When subchannels are installed in the communication controller, the highest subchannel installed will have a subchannel number equal to 4n–1.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the HICHAN or LOCHAN value on the BUILD definition statement so that the highest or lowest subchannel specified is consistent with the subchannels installed. Unpredictable results are produced when a subchannel is installed in the communication controller and used by the host processor, but is not specified to the program in the program source statements. Resubmit the job.

For more information, see the BUILD definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN114I **NUMBER OF LUPOOL STATEMENTS EXCEEDS MAXIMUM OF 20, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: The maximum number of LUPOOL definition statements is 20.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Limit the number of LUPOOL definition statements to 20 and resubmit the job.

For more information, see the LUPOOL definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN115I **STATEMENT INVALID,** *variable*, **IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: One of the following has occurred:

- More than one LU or PU definition statement is specified for a NTRI group.

- The value specified for the MXRLINE keyword is not equal to the number of NTRI physical lines defined.

- The number of NTRI logical lines specified does not equal the value specified for the MXVLINE keyword.

variable can be one of the following :

- ONLY ONE PU ALLOWED WHEN ECLTYPE IS SPECIFIED

- ONLY ONE LU ALLOWED WHEN ECLTYPE=PHYSICAL

- NUMBER OF LINES WITH ECLTYPE=PHYSICAL

- EXCEEDS MXRLINE ON THE BUILD STATEMENT

- NUMBER OF LINES WITH ECLTYPE=LOGICAL

- EXCEEDS MXVLINE ON THE BUILD STATEMENT.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify the correct number of NTRI LINE, PU, and LU definition statements and resubmit the job.

ICN116I **NUMBER OF TRT ROWS FOR THE PREVIOUS NETWORK EXCEEDED MAXIMUM OF** xxx **ALLOWED PER NETWORK BY** yyy, xxx **IS ASSUMED**

Explanation: The maximum number of transit routing table (TRT) rows that were specified on the previous BUILD or NETWORK definition statement caused the total to exceed xxx, the maximum allowable per network.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Reduce the number of TRT rows specified on the previous BUILD or NETWORK definition statement by yyy.

For more information, see the PATHEXT keyword on the NETWORK definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN117I **MAXIMUM NUMBER OF TRT ROWS OF** xxx **EXCEEDED WHILE PROCESSING PREVIOUS NETWORK STATEMENT, IGNORED**

Explanation: The maximum number of transit routing table (TRT) rows allowed for the NCP (xxx) is exceeded. This total is cumulative, derived by adding the total TRT rows specified for both the BUILD definition statement and each NETWORK definition statement as they are processed. The number specified for the BUILD definition statement and for each NETWORK definition statement may be correct (see message ICN116I). As the individual totals for each of the statements is accumulated during the generation process, the processing of the previous NETWORK definition statement has caused the sum of the TRT rows specified to exceed xxx, which is the maximum number of TRT rows that can be specified within an NCP.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Limit the number of TRT rows for the NCP to xxx and resubmit the job.

For more information, see the PATHEXT keyword on the NETWORK definition statement in *NCP, SSP, and EP Resource Definition Reference*.

ICN118I **AT LEAST ONE OF THE KEYWORDS ER0-ERn MUST BE SPECIFIED ON THIS PATH STATEMENT, REQUIRED**

Explanation: On the PATH definition statement in question, no ERn keywords were specified. The value of n is either 7 or 15, depending on the value of the ERLIMIT keyword on the BUILD definition statement.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify at least one of the ERn keywords and resubmit the job.

ICN119I **STATEMENT INVALID,** *variable* **IGNORED FOR STATEMENT KEYWORD VALIDATION**

Explanation: *variable* can be one of the following:

- NUMBER OF LINES WITH ECLTYPE=PHYSICAL EXCEEDS ALLOWED MAXIMUM OF n
- NUMBER OF LINES WITH ECLTYPE=LOGICAL EXCEEDS ALLOWED MAXIMUM OF 9999.

The value n is the maximum value allowed. The value n is 2 for the IBM 3720 and 8 for the IBM 3745 Communication Controller.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Specify the correct number of NTRI LINE, PU, and LU definition statements and resubmit the job.

ICN120I **VERSION=**bbbbF **INVALID, THE V**xR**y FEATURE IS NOT INSTALLED, REQUIRED**

Explanation: The value bbbbF indicates the VxRy feature, but this feature is not installed.

System Action: The generation process is ended after validation of the generation definition.

Programmer Response: Install the VxRy feature and resubmit the job.

ICN121I **KEYWORD1 AND KEYWORD2 ARE NOT THE SAME**
KEYWORD1 AND KEYWORD2 ARE NOT IN THE SAME NETWORK
KEYWORD1 AND KEYWORD2 ARE NOT IN THE SAME SUBNETWORK

Explanation: This informational message is issued when the following occurs:

When Keyword 1 and Keyword 2 Are Not the Same	This Condition Occurs
1. NEXTADDR on IPROUTE 2. P2PDEST on IPLOCAL	The same INTFACE value is defined on the IPROUTE and IPLOCAL definition statements for an NCST interface and the NEXTADDR value is nonzero.

This informational message is also issued when the following occurs:

When Keyword 1 and Keyword 2 Are Not in the Same Network or Subnetwork	This Condition Occurs
1. P2PDEST on IPLOCAL 2. LADDR on IPLOCAL	The P2PDEST and LADDR values are defined on the same IPLOCAL definition statement for an NCST interface.
1. NEXTADDR on IPROUTE 2. LADDR on IPLOCAL	The same INTFACE value is defined on the IPROUTE and IPLOCAL definition statements and the NEXTADDR value is nonzero.
1. DESTADDR on IPROUTE 2. LADDR on IPLOCAL	The same INTFACE value is defined on the IPROUTE and IPLOCAL definition statements and the NEXTADDR value is zero on the IPROUTE definition statement.

System Action: The generation process is ended after validation of the generation definition.

Programmer Response: If you determine that the keyword values are correct, ignore the message. If you determine that the keyword values are not correct, change the values and resubmit the job.

ICN122I **THE IPOWNER STATEMENT WAS NOT CODED, SO NCPROUTE SUPPORT IS NOT INCLUDED IN THIS NCP**

Explanation: Indicates the omission (possibly intentional) of the IPOWNER statement from the NCP generation definition. When IPOWNER is omitted, NCPROUTE support is not added to the NCP.

System Action: The generation process continues to completion if no errors are found.

Programmer Response: If you desire NCPROUTE support, add the IPOWNER statement to your NCP generation definition.

ICN123I **This NCP will build approximately xxxx buffers in a xx megabyte IBM 3745 controller**

Explanation: Specifies the approximate number of buffers that the NCP will build in an IBM 3745 controller with the indicated amount of storage.

System Action: The ICNSIZE program continues to completion.

Programmer Response: If the number of buffers is inadequate, consider a controller memory upgrade. The IBM 3745 communications controller supports up to 16MB of memory.

ICN124I **Reached end of output and did not find $BUFPOOL**

Explanation: The ICNSIZE program searched through the binder or linkage editor output and did not find the $BUFPOOL symbol.

System Action: The ICNSIZE program continues to completion, but does not print the ICN123I message.

Programmer Response: Verify that you coded a DD or FILEDEF statement that references DDNAME LINKEDT.

ICN125I **The size of this NCP load module is xxxxxx bytes (hexadecimal)**

Explanation: Specifies the hexadecimal size of the NCP load module.

System Action: The ICNSIZE program continues to completion.

Programmer Response: Use this value if you are saving the NCP load module to the controllers hard disk, to determine if there is enough room on the hard disk to accomodate the load module.

ICN126I **The size of this NCP exceeds 1.2 megabytes**

Explanation: MINILOAD=YES was specified on the BUILD statement of the NCP generation definition, and the size of the NCP exceeds 1.2 megabytes, meaning that it is too large to fit on an IBM Communication Controller diskette.

System Action: The ICNSIZE program continues to completion.

Programmer Response: Delete from the NCP generation definition any resources that are not needed for the remote load and activation, and resubmit the job.

ICN520I **STATEMENT SYMBOL** *aaa* **HAS NOT BEEN POSTED**

Issued by: ICNCRPST

Explanation: ICNCRPST is attempting to post a network address to a statement symbol that is not in the symbol table. The statement symbol should have been posted to the symbol table through a call to ICNCVLAB before an attempt was made to post the network address.

System Action: The address is not posted. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNCR, TRPROC=ICNCR

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNCR, NOTRPROC=ICNCR

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN521I **ADDR** *aaa* **FOR STATEMENT SYMBOL** *bbb* **IS OUT OF SEQUENCE**

Issued by: ICNCRPST

Explanation: If multiple network addresses are posted to the same label in the symbol table, they must be consecutive.

System Action: The address is not posted. A traceback of the active procedures is generated and

generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNCR, TRPROC=ICNCR

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNCR, NOTRPROC=ICNCR

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN540I *aaa:* **INVALID TYPE SUPPLIED**

Issued by: ICNCVRNG, ICNCVTOK

Explanation: Routine *aaa* has been passed an invalid specification for a type of token to validate.

System Action: A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNCV, TRPROC=ICNCV

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNCV, NOTPROC=ICNCV

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN550I **INSUFFICIENT NUMBER OF ARGUMENTS SPECIFIED TO ICNEREXC**

Issued by: ICNEREXP

Explanation: ICNEREXP expects an identification number and an error message string as input. Only one parameter has been specified.

System Action: The error message is not created from input to ICNEREXP. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNER, TRPROC=ICNER

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNER, NOTPROC=ICNER

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN553I **CONVERSION ERROR IN CALL TO ICNEREXC**

Issued by: ICNEREXC

Explanation: ICNEREXC has an invalid hex number as input (INMSG), which cannot be represented in 32 bits.

System Action: The string returned from the call to ICNEREXC is not filled. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNER, TRPROC=ICNER

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNER, NOTPROC=ICNER

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN554I **COMMON STRING OUT OF RANGE ON CALL TO ICNEREXC**

Issued by: ICNEREXC

Explanation: ICNEREXC has received invalid input that includes an invalid hex number following the "/" character. The decimal representation is less than one.

System Action: The string returned from the call to ICNEREXC is not filled. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNER, TRPROC=ALL

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNER, NOTPROC=ALL

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN555I **ICNERSPI: INTERRUPT CODE:** *bbb*

Issued by: ICNERSPI

Explanation: ICNERSPI is called by the operating system when a program exception error is detected by an SPIE routine. The value *bbb* is an explanation of the interrupt code detected.

System Action: The exception and the procedure traceback are printed. ICNUTDMP dumps memory and ends the program. The generation process ends.

Programmer Response: Enable the trace feature by adding the following statement just before the statement causing the error:

    OPTIONS TRPARM=ICNER, TRPROC=ALL

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN556I **INTERRUPT CODE:** *bbb*

Issued by: ICNERSTA

Explanation: The operating system calls ICNERSTA when an STAE routine detects a program exception error. The interrupt code *bbb* is detected. The value *bbb* is found in the *SDWAABCC* field of the SDWA control block for the MVS and VM operating systems.

System Action: The exception and the procedure traceback are printed. ICNUTDMP dumps memory and ends the program. The generation process ends.

Programmer Response: Look for system error messages printed by the operating system during the execution of NDF. Alternately, decode the *SDWAABCC* value to find the reason for the error. If either of these methods indicates an error in the JCL or EXEC, fix the error and rerun NDF.

If USERGEN was specified on the OPTIONS definition statement, make sure that all of the load module statement symbols are specified correctly on USERGEN. Also make sure that all of the load modules appear correctly in the STEPLIB chain (MVS), the LIBDEF search chain (VSE), or the GLOBAL LOADLIB statement (VM/SP).

If USERGEN was not specified, or if the procedures discussed here do not resolve the problem, enable the trace feature by adding the following statement just before the statement causing the error or on the same OPTIONS definition statement with the USERGEN keyword.

    OPTIONS TRPARM=ICNER, TRPROC=ALL

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN557I **ICNERGET: ROUTINE WAS CALLED WITH INVALID PARAMETERS**

Issued by: ICNERGET

Explanation: The input to ICNERGET does not have an expected value (0, 4, 8, 10, 12, 16) appropriate to error message levels.

System Action: OUTVAL does not return the correct value from ICNERGET. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNER, TRPROC=ICNER

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNER, NOTRPROC=ICNER

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN560I   *aaa:* **INVALID KEYWORD NAME PASSED, EXCEEDS 12 CHARACTERS, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Issued by: ICNUSKAD, ICNUSKRP

Explanation: The keyword name parameter, which was passed, exceeded the allowed maximum of 12 characters.

System Action: The keyword is not added or replaced by NDF. An error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN561I   *aaa:* **PRODUCT PREFIX DOES NOT MATCH 'ECL' OR A VALUE SPECIFIED ON THE USERGEN KEYWORD OF THE OPTIONS STATEMENT,** *bbb*

Issued by: ICNUSTAD, ICNUSSTS

Explanation: The first 3 characters of the data key passed did not match 'ECL' or the first 3 characters of a load module statement symbol specified on the USERGEN keyword on the OPTIONS definition statement.

System Action: The data is not added and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN562I   *aaa:* **INVALID DATA KEY PASSED, EXCEEDS** *bbb* **CHARACTERS, THIS CALL IS NOT PROCESSED**

Issued by: ICNUSTAD, ICNUSTRT, ICNUSTUP

Explanation: The data key as a parameter exceeded the maximum of *bbb* characters.

System Action: The call is not processed and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN563I   **ICNUSNEW: ROUTINE ATTEMPTED TO OBTAIN THE NEWNAME VALUE BEFORE THE BUILD STATEMENT HAD BEEN PROCESSED, A NULL VALUE HAS BEEN RETURNED**

Issued by: ICNUSNEW

Explanation: ICNUSNEW was called before NDF had processed the BUILD definition statement.

System Action: A null string is returned to the user generation routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN564I   *aaa:* **INVALID PARAMETER PASSED,** *bbb* **EXCEEDS** *ccc* **CHARACTERS, THIS CALL IS NOT PROCESSED**

Issued by: ICNUSIWR, ICNUSSTS

Explanation: A user-written generation application passed to routine *aaa* incorrect parameter *bbb* that was longer than the allowed maximum of *ccc* characters.

System Action: The data is not added to a generated statement group and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN565I   *aaa:* **INVALID CALL, THE SPECIFIED STATEMENT GROUP** *bbb*

Issued by: ICNUSIWR, ICNUSSTA

Explanation: The specified definition statement GROUP could not be activated because it had already been processed.

System Action: The call is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN566I   **ICNUSSTA: INVALID CALL, UNABLE TO PERFORM OPERATION ON SPECIFIED STATEMENT GROUP BECAUSE IT DOES NOT EXIST**

Issued by: ICNUSSTA

Explanation: ICNUSSTA was called to activate a generated statement group that had not been created by calling ICNUSSTS.

System Action: The call is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN567I   **ICNUSIWR: UNABLE TO CREATE NEW STATEMENT GROUP BECAUSE THE MAXIMUM NUMBER OF STATEMENT GROUPS WOULD BE EXCEEDED**

Issued by: ICNUSIWR

Explanation: The maximum number of generated statement groups that NDF allows has been reached.

System Action: The call is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is creating necessary statement groups.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is creating necessary statement groups or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
      OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
      OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN568I   **ICNUSSTS: INVALID SEQUENCE OF CALLS OR INVALID PARAMETERS PASSED TO ICNUSSTS,** *aaa*

Issued by: ICNUSSTS

Explanation: ICNUSSTS has been called in an incorrect sequence to build a statement.

System Action: The call is ignored and an error code is returned. A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
      OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
      OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN569I   *aaa***: INVALID CALL, NO** *bbb* **GROUPS ARE ACTIVE**

Explanation: Routine *aaa* was unable to read from the generated statement group or comment group indicated by *bbb*.

System Action: A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If you have a user-written generation application, make sure that it is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If your application is passing valid parameters or if you do not have a user-written generation application, start an NDF trace by inserting the following definition statement just before the definition statement causing the error:

```
      OPTIONS TRPROC=(ICNUS,SK), TRPARM=(ICNUS,SK)
```

Stop the trace by inserting the following definition statement after the definition statement causing the error:

```
      OPTIONS NOTRPROC=(ICNUS,SK), NOTRPARM=(ICNUS,SK)
```

Rerun the generation and save all output. Notify your IBM representative of the problem.

ICN570I   **INVALID CALL,** *aaa* **CANNOT BE INVOKED DURING POST-NCP STATEMENT KEYWORD PROCESSING**

Issued by: ICNUSKAD, ICNUSKRP

Explanation: Routine *aaa* is restricted for use during pre-NCP statement keyword processing.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you have a user-written generation application, verify that the reserved field of the KVT record for the calling routine indicates pre-NCP statement keyword processing.

To do this, start the trace feature by adding the following to the first OPTIONS definition statement where USERGEN is specified:

```
      TRDATA=ICNIP
```

Stop the trace feature by adding the following definition statement after the first OPTIONS definition statement:

```
      OPTIONS NOTRDATA=ICNIP
```

Rerun the generation process and examine the traced reserved fields. If you are not using a user-written generation application, run the trace as specified and save all output. Notify your IBM representative of the problem.

ICN571I   **INVALID CALL,** *aaa* **CANNOT BE INVOKED DURING PRE-NCP STATEMENT KEYWORD PROCESSING**

Issued by: ICNUSKAD, ICNUSKRP, ICNUSGKI

Explanation: Routine *aaa* is restricted for use during pre-NCP statement keyword processing.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you have a user-written generation application, verify that the reserved field of the KVT record for the calling routine indicates pre-NCP statement keyword processing.

To do this, start the trace feature by adding the following to the first OPTIONS definition statement where USERGEN is specified:

```
      TRDATA=ICNIP
```

Stop the trace feature by adding the following definition statement after the first OPTIONS definition statement:

```
      OPTIONS NOTRDATA=ICNIP
```

Rerun the generation process and examine the traced reserved fields. If you are not using a user-written generation application, run the trace as specified and save all output. Notify your IBM representative of the problem.

ICN572I **ICNUSGKI: STATEMENT NAME** *aaa* **INVALID, KEYWORD SUBVALUES NOT RETURNED**

Issued by: ICNUSGKI

Explanation: The supplied definition statement name was of improper length, not in string standard representation, or not a valid NCP definition statement.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, correct the definition statement name and rerun the generation process. If you are not using a user-written generation application, save all of the output and notify your IBM representative of the problem.

ICN573I **ICNUSGKI: KEYWORD NAME** *aaa* **INVALID, KEYWORD SUBVALUES NOT RETURNED**

Issued by: ICNUSGKI

Explanation: The supplied keyword name was of improper length, not in string standard representation, not a valid NCP keyword, or not at its lowest level.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, correct the keyword name and rerun the generation process. If you are not using a user-written generation application, save all of the output and notify your IBM representative of the problem.

ICN575I **ICNUSRNA: UNDEFINED STATEMENT SYMBOL** *aaa*, **ZERO RETURNED FOR NETWORK ADDRESS VALUE**

Issued by: ICNUSRNA

Explanation: Statement symbol *aaa* was not recognized as a valid statement symbol for this generation.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, make sure that the start name has been defined in this generation at the time ICNUSRNA was invoked. If you are not using a user-written generation application, save all output and notify your IBM representative.

ICN576I **ICNUSRNA: STATEMENT SYMBOL** *aaa* **HAS NO ASSOCIATED NETWORK ADDRESS, ZERO RETURNED FOR NETWORK ADDRESS VALUE**

Issued by: ICNUSRNA

Explanation: Statement symbol *aaa* is associated with a statement that will not be assigned a network address.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, make sure that the correct statement symbol has been specified in this invocation. If you are not using a user-written generation application, save all output and notify your IBM representative.

ICN577I **ICNUSRNA: NETWORK ADDRESS ASSOCIATED WITH STATEMENT SYMBOL** *aaa* **HAS NOT YET BEEN DETERMINED, ZERO RETURNED FOR NETWORK ADDRESS**

Issued by: ICNUSRNA

Explanation: Statement symbol *aaa* is associated with a dynamic reconfiguration resource whose network address will not be determined until the NETWORK or GENEND definition statement has been processed.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, make sure that the request for all dynamic reconfiguration network addresses is not made before the NETWORK or GENEND definition statement has been processed. If you are not using a user-written generation application, save all output and notify your IBM representative.

ICN580I **ICNNDIWR: INVALID PARAMETER PASSED, INPUT STRING EXCEEDS 72 CHARACTERS, THIS CALL WILL NOT BE PROCESSED**

Issued by: ICNNDIWR

Explanation: ICNNDIWR has been called with an invalid input string.

System Action: The call is ignored and an error code is returned. A traceback of active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the statement causing the error:

```
OPTIONS TRPARM=(ICNIP,ICNND), TRPROC=(ICNIP,ICNND)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=(ICNIP,ICNND), NOTRPROC=(ICNIP,ICNND)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN581I **ICNNDIWR: UNABLE TO SAVE THE COMMENT BECAUSE THE MAXIMUM NUMBER OF COMMENTS WOULD BE EXCEEDED**

Issued by: ICNNDIWR

Explanation: ICNNDIWR has been called to save too many comments.

System Action: The call is ignored and an error code is returned. A traceback of active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: If there is an error in your generation definition, correct the error and resubmit your generation. If there is not an error, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=(ICNIP,ICNND), TRPROC=(ICNIP,ICNND)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=(ICNIP,ICNND), NOTRPROC=(ICNIP,ICNND)
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN590I **ICNOTCSG: global=aaa INVALID, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Issued by: ICNOTCSG

Explanation: ICNOTCSG detected that *aaa* is an invalid global.

System Action: The global is ignored and the generation validation continues.

Programmer Response: Specify a valid global and rerun the generation. If the problem persists, save all output and notify your IBM representative.

ICN591I *aaa*: **TUSGTIER=***bbb* **INVALID WITH TMODEL=***ccc*, **REQUIRED**

Explanation: Routine *aaa* determined that the value specified by TUSGTIER is incompatible with the communication controller model number specified by TMODEL.

System Action: The generation process stops immediately.

Programmer Response: Correct the error and rerun the generation.

ICN592I *aaa: bbb=ccc* **INVALID,** *explanation, ddd* **IS ASSUMED**

Explanation: Routine *aaa* detected a correctable error in the *bbb* specification. *explanation* describes the error.

System Action: The NCP generation migration aid function replaces *ccc* with *ddd* and continues processing.

Programmer Response: No response is necessary.

ICN600I *aaa:* **UNABLE TO OPEN FILE** *bbb*

Issued by: ICNIOOPN, ICNIOROP, ICNIOSTA, ICNSIZE

Explanation: File *bbb* could not be opened by routine *aaa* because one of the following occurred:

- The program was unable to get device information (data definition statement was missing).
- The OPEN macro was unsuccessful.

System Action: The open request is ignored and an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Check the JCL for either a missing definition statement or an error in the data

definition statement. Correct the error and rerun the generation facility.

ICN601I *aaa:* **FILE** *bbb* **ALREADY OPEN**

Issued by: ICNIOOPN, ICNIOROP

Explanation: A request was issued by routine *aaa* to open file *bbb*, which was already open.

System Action: The open request is ignored and an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Save all output and notify your IBM representative.

ICN602I **ICNIOSTA: RETURN CODE** *bbb* **ON OBTAIN MACRO FOR FILE** *ccc*

Issued by: ICNIOSTA

Explanation: The return code for file *ccc* from the OBTAIN macro was *bbb*. Code 4 indicates that a required volume is not on the tape or disk drive.

System Action: The open file request is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If the error code is 4, put the missing volume on the tape or disk drive and rerun the generation facility. For any other code, save all output and notify your IBM representative.

ICN603I **ICNIOSTA: FILE** *bbb* **HAS RECORD LENGTH** *ccc* **NOT** *ddd*

Issued by: ICNIOSTA

Explanation: The file supplied has an incorrect record length. The record length should have been *ddd*, not *ccc*.

System Action: The request to open the file is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Check the JCL and correct the logical record length for file *bbb*. Rerun the generation facility.

ICN605I **ICNIOOPN: FILE** *bbb* **- INAPPROPRIATE FILE ID,** *ccc*

Issued by: ICNIOOPN

Explanation: When a call was made to ICNIOOPN by the generation facility, the file identifier parameter for file *bbb* was determined to be invalid.

System Action: The request to open file *bbb* is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative.

ICN607I   ICNIOSTA: MEMBER NAME NOT SPECIFIED FOR PARTITIONED FILE *bbb*

Issued by: ICNIOSTA

Explanation: A partitioned data set was found when a sequential data set was defined in the JCL.

System Action: The request to open file *bbb* is ignored and an error code is returned to the calling routine. The generation process ends.

Programmer Response: Correct the data definition statement in the JCL (either the DSNAME or the DSORG are in error) and rerun the generation facility.

ICN608I   ICNIOSTA: FILE *bbb* **FOR SEQUENTIAL ACCESS IS NOT SEQUENTIAL**

Issued by: ICNIOSTA

Explanation: The data set found was not a physical sequential data set as defined in the JCL.

System Action: The request to open the file is ignored and an error code is returned to the calling routine. The generation process is ended after validation of the generation definition.

Programmer Response: Correct the DSORG in the data definition statement in the JCL and rerun the generation facility.

ICN609I   ICNIOSTA: FILE *bbb* **MEMBER** *ccc* **IS NOT FIXED FORMAT**

Issued by: ICNIOSTA

Explanation: The record format for file *bbb* is not fixed. The generation facility will accept only fixed format records for this file.

System Action: The request to open file *bbb* is ignored and an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Define the records as fixed format in the JCL and rerun the generation facility. If the file is incorrectly formatted, re-create the file and rerun the generation facility.

ICN610I   ICNIOOPN: FILE OR MEMBER NAME *bbb* **IS TOO LONG**

Issued by: ICNIOOPN

Explanation: The file name or member name parameter supplied to ICNIOOPN was more than 8 characters long.

System Action: The request to open the file *bbb* is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Check the DSNAME in the data definition statement for file *bbb* and correct the length. Rerun the generation facility.

ICN611I   ICNIOSTA: I/O ERROR ON OBTAIN MACRO FOR FILE *bbb*

Issued by: ICNIOSTA

Explanation: An attempt by ICNIOSTA to issue the OBTAIN macro for file *bbb* failed because of one of the following reasons:

- The DSCB was in error in the JCL.
- An I/O error was in the file.
- An error code was received from CVAF.

System Action: The request to open file *bbb* is ignored and an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Correct your JCL or file, or both and rerun the generation facility.

If the error persists, save all output and notify your IBM representative.

ICN612I   ICNIOSTA: NO WORK AREA FOR OBTAIN FOR FILE *bbb*

Issued by: ICNIOSTA

Explanation: The OBTAIN macro issued by ICNIOSTA failed because the work-area pointer that was provided was invalid.

System Action: The request to open file *bbb* is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative.

ICN613I   ICNIOOPN: NO BUFFER AVAILABLE FOR FILE *bbb* **MEMBER** *ccc*

Issued by: ICNIOOPN

Explanation: No buffer was available to process member *ccc* from file *bbb*.

System Action: The request to open the file is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Increase the value assigned to the REGION parameter in the JCL and rerun the generation facility. If the error persists, save all output and notify your IBM representative.

ICN614I   ICNIOCLS: CLOSE FAILED FOR FILE *bbb*

Issued by: ICNIOCLS

Explanation: The CLOSE macro attempted to close file *bbb* and failed.

System Action: The request is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative.

ICN616I **ICNIOCLS: NO SPACE IN DIRECTORY FOR FILE** *bbb* **MEMBER** *ccc*

Issued by: ICNIOCLS

Explanation: An attempt to issue a STOW macro to update the partitioned data set directory for file *bbb* member *ccc* failed because there was no space in the directory.

System Action: An attempt to close the file is made and then an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Increase the directory space in the JCL for file *bbb* and rerun the generation facility. If the error recurs, save all output and notify your IBM representative of the problem.

ICN617I **ICNIOCLS: I/O ERROR ON STOW MACRO FOR FILE** *bbb* **MEMBER** *ccc*

Issued by: ICNIOCLS

Explanation: An input or output error occurred when there was an attempt to update the directory of file *bbb* with member *ccc*.

System Action: There is an attempt to close the file and then an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Attempt to rerun the generation facility. If the error recurs, save all output and notify your IBM representative of the problem.

ICN618I **ICNIOCLS: STOW FOR FILE** *bbb* **MEMBER** *ccc* **DCB BAD**

Issued by: ICNIOCLS

Explanation: The STOW for file *bbb*, member *ccc*, failed because either the DCB was not open or not opened for input.

System Action: An attempt is made to close the file and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN619I **ICNIOCLS: INSUFFICIENT STORAGE FOR STOW FOR FILE** *bbb* **MEMBER** *ccc*

Issued by: ICNIOCLS

Explanation: Insufficient internal storage was available to carry out the STOW macro function.

System Action: An attempt to close the file is made and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: In your JCL, increase the value assigned to the REGION parameter and rerun the generation facility.

ICN620I *aaa:* **FILE** *bbb* **IS NOT OPENED FOR READ ACCESS**

Issued by: ICNIOGET, ICNIORGE

Explanation: An attempt was made by routine *aaa* to read from file *bbb*, but the file was not open for read access.

System Action: Record is not read, and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN621I *aaa:* **I/O ERROR ACCESSING FILE** *bbb* **MEMBER** *ccc*

Issued by: ICNIOGET, ICNIOPUT

Explanation: Routine *aaa* detected an input or output error while using file *bbb*, member *ccc*.

System Action: File error indicators are set and an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN622I *aaa:* **FILE** *bbb* **IS NOT OPENED FOR WRITE ACCESS**

Issued by: ICNIOPUT, ICNIORPU

Explanation: Routine *aaa* attempted to write a record to file *bbb*, but the file was not opened for write access.

System Action: Record is not written to file and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN623I **ICNIORDP: UNABLE TO OPEN SYSLIB(***bbb***) FOR READ PDS UTILITY**

Issued by: ICNIORDP

Explanation: An attempt to open the SYSLIB data set for member *bbb* failed.

System Action: No records are read and an error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Do one of the following:

- Check the output listing for any earlier messages and take corrective action.
- Verify that member *bbb* is in the SYSLIB data set.
- Check your JCL to make sure that the DD statement is correct for the SYSLIB data set.
- Make the necessary corrections and rerun the generation facility.

If the error recurs, save all output and notify your IBM representative.

ICN624I **ICNIORDP: ERROR IN GET FOR READ PDS MEMBER SYSLIB(***bbb***)- FILE CLOSED**

Issued by: ICNIORDP

Explanation: An error occurred while reading SYSLIB member *bbb*.

System Action: No more records are read from the file. An error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN625I **ICNIOROP: ERROR IN CLOSE FOR READ PDS MEMBER SYSLIB(***bbb***)**

Issued by: ICNIOROP

Explanation: An attempt to close SYSLIB for member *bbb* failed.

System Action: An error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN628I **ICNIORPU: NO MORE WORK SPACE STORAGE IS AVAILABLE**

Issued by: ICNIORPU

Explanation: An attempt to write additional records to the DBWORKFL data set was made and an end of file was encountered.

System Action: The write request is ignored and an error code is returned to the calling routine. The generation process ends.

Programmer Response: In your JCL, increase the size of your workspace files and rerun the generation facility.

If the error recurs, save all output and notify your IBM representative.

ICN629I *aaa:* **I/O ERROR ACCESSING FILE** *bbb*

Issued by: ICNIORGE, ICNIORPU

Explanation: Routine *aaa* detected an input or output error while reading or writing a record to work file *bbb*.

System Action: No additional records are processed (read or write mode). An error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Rerun the job. If the error recurs, save all output and notify your IBM representative.

ICN630I **ICNIOROP: UNABLE TO OPEN FILE DBWORKFL**

Issued by: ICNIOROP

Explanation: The DBWORKFL specification is incorrect.

System Action: The generation process stops immediately.

Programmer Response: Make sure that the DBWORKFL is properly defined in the control statements and rerun the generation.

ICN631I *aaa:* **INVALID BLOCK NUMBER,** *bbb,* **PASSED TO** *ccc*

Issued by: ICNIORGE, ICNIORPU

Explanation: Routine *aaa* detected that an invalid block number (*bbb*) was supplied to routine *ccc* for work file DBWORKFL.

System Action: The current block is not processed (read or write mode). An error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN633I **ICNIOGET: RECORD LENGTH** *bbb* **IS NOT A MULTIPLE OF BLOCK SIZE** *ccc*

Issued by: ICNIOGET

Explanation: Logical record length *bbb* is greater than block size *ccc*.

System Action: No records are read. An error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: In your JCL, on the DD statement for that data set, correct the block size to agree with the logical record length then rerun the generation facility.

ICN634I **ICNIOROP: HANDLING OF PDS FILES IS NOT SUPPORTED UNDER DOS**

Issued by: ICNIOROP

Explanation: An attempt was made to read a member of the SYSLIB data set. This function is not supported under DOS.

System Action: The read request is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN635I   *aaa:* **INVALID FILE ID,** *bbb,* **PASSED TO ROUTINE**

Issued by: ICNIOCLS, ICNIOGET, ICNIOOPN, ICNIOPUT, ICNIOSTA

Explanation: An invalid file identifier parameter, *bbb*, was passed to routine *aaa*.

System Action: The file request is ignored and an error code is returned to the calling routine. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN636I   **ICNIOSTA: NO DD STATEMENT FOR FILE** *bbb*

Issued by: ICNIOSTA

Explanation: A DD statement in the JCL records for file *bbb* is missing.

System Action: The request to open the file is ignored and an error code is returned to the calling routine. The generation process ends.

Programmer Response: Add the missing DD statement for file *bbb* to your JCL definition and rerun the generation facility.

ICN637I   **ICNIOVEA: VSAM ERROR X'**nn**' ON DBWRKFL OPEN**

Issued by: ICNIOVEA

Explanation: VSAM attempted to open the DBWRKFL and failed.

System Action: The DBWRKFL file is not opened and the generation process ends.

Programmer Response: See *VSE/ESA Messages and Codes* for more detailed information about the VSAM error.

ICN638I   **ICNIOVEA: VSAM** *xxx* **ERROR X'**nn**' ON DBWRKFL** *yyy*

Issued by: ICNIOVEA

Explanation: An *xxx* error occurred during VSAM operation *yyy* on the DBWRKFL.

System Action: The generation process ends.

Programmer Response: See *VSE/ESA Messages and Codes* for more detailed information about the VSAM error.

ICN639I   **ICNIOVEA: VSAM** *xxx* **X'**nn**' ON DBWRKFL** *yyy*

Issued by: ICNIOVEA

Explanation: VSAM returned a code of level *xxx* for operation *yyy* on the DBWRKFL.

System Action: Processing of the job continues.

Programmer Response: See *VSE/ESA Messages and Codes* for more detailed information about the VSAM error.

ICN650I   **ICNIPDSP: INVALID TYPE** *bbb* **ENCOUNTERED IN KVT**

Issued by: ICNIPDSP

Explanation: ICNIPDSP has found an invalid KVT record type *bbb*.

System Action: The invalid record is ignored. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that the KVT for your application is defined correctly.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the KVT is correctly defined or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error, or on the same OPTIONS definition statement with the USERGEN keyword:

```
OPTIONS TRPARM=ICNIP, TRPROC=ICNIP, TRSNAP=KVT
```

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNIP, NOTRPROC=ICNIP
```

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN651I   **ICNIPDSP: FOR STATEMENT** *bbb* **KEYWORD** *ccc* **IS NOT VALID**

Issued by: ICNIPDSP

Explanation: After processing all the routines for statement *bbb*, no routine was found for the keyword *ccc*.

System Action: The invalid keyword is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Correct the keyword and resubmit.

ICN652I   **ICNIPFND: KEYWORD** *bbb* **IS CODED** *ccc* **TIMES - LAST VALUE USED**

Issued by: ICNIPFND

Explanation: The keyword *bbb* was coded *ccc* times on the statement. Only one value is allowed.

System Action: The last value on the statement is used. The generation process ends after validation of the generation definition.

Programmer Response: Correct the statement *bbb* in the generation definition and rerun the generation facility.

ICN653I   **ICNIPGCD: INVALID CONTINUATION CARD**

   Issued by: ICNIPGCD

   Explanation: A statement has been encountered that does not continue from the preceding statement. The preceding statement indicated continuation.

   System Action: The remainder of the statement is ignored. The generation process ends after validation of the generation definition.

   Programmer Response: Correct the error and resubmit the generation.

ICN654I   *aaa: bbb* **IS GREATER THAN 255 CHARACTERS**

   Issued by: ICNIPGNT, ICNIPPVL

   Explanation: Routine *aaa* detected a keyword (*bbb*) that is longer than 255 characters, excluding comments.

   System Action: The generation process ends after validation of the generation definition.

   Programmer Response: Correct all errors and resubmit generation.

ICN655I   **ICNIPGQS: INVALID QUOTED STRING**

   Issued by: ICNIPGQS

   Explanation: ICNIPGQS has received a character string, enclosed in quotation marks. The opening quotation mark has been found but the closing quotation mark has not been found. A continuation card is not indicated.

   System Action: The remainder of the statement is ignored. The generation process ends after validation of the generation definition.

   Programmer Response: Correct the error and resubmit the generation.

ICN656I   **ICNIPGSP: STATEMENT IS TOO LARGE, REMAINDER IS IGNORED FOR STATEMENT KEYWORD VALIDATION**

   Issued by: ICNIPGSP

   Explanation: The statement is longer than the maximum length allowed by NDF.

   System Action: A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

   Programmer Response: Correct all errors and resubmit generation.

ICN657I   **ICNIPPRS:** *bbb* **IS NOT A LEGAL STATEMENT NAME, IGNORED FOR STATEMENT KEYWORD VALIDATION**

   Issued by: ICNIPPRS

   Explanation: Statement name *bbb* is not recognized by NDF because there is no KVT statement record for it.

   System Action: The generation process ends after validation of the generation definition.

   Programmer Response: Check the spelling of the invalid statement, correct any previous generation errors and resubmit the generation.

If you are using a user-written generation application, make sure that the KVT for your application is defined correctly.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the KVT is correctly defined or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

   OPTIONS TRPARM=ICNIP, TRPROC=ICNIP, TRSNAP=KVT

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

   OPTIONS NOTRPARM=ICNIP, NOTRPROC=ICNIP

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN658I   **ICNIPPRS: ENCOUNTERED '*bbb*' WHEN EXPECTING *ccc*, REMAINDER OF STATEMENT IS IGNORED FOR STATEMENT KEYWORD VALIDATION**

   Issued by: ICNIPPRS

   Explanation: The program expected the format "keyword=keyword_value," but the format received was incorrect.

   System Action: The generation process ends after validation of the generation definition.

   Programmer Response: Correct all errors and resubmit the generation.

ICN659I   **ICNIPPRS: ENCOUNTERED '*bbb*' WHEN EXPECTING COMMA, REMAINDER OF STATEMENT IS IGNORED FOR STATEMENT KEYWORD VALIDATION**

   Issued by: ICNIPPRS

   Explanation: The program expects a comma, an end-of-statement indicator, or an end-of-file indicator after each "keyword=keyword_value."

   System Action: The remainder of the statement is ignored and the generation process ends after validation of the generation definition.

   Programmer Response: Correct the errors and resubmit the generation.

ICN660I   **ICNIPPVL: INVALID VALUE LIST, REMAINDER OF STATEMENT IS IGNORED FOR STATEMENT KEYWORD VALIDATION**

   Issued by: ICNIPPVL

   Explanation: The program expects input values to be delimited by parentheses and a comma. Some other delimiter was found.

   System Action: The remainder of the statement is ignored and the generation process ends after validation of the generation definition.

   Programmer Response: Correct all errors and resubmit the generation.

ICN661I   ICNIPKVT: KVT *bbb* **LOADED AT ADDRESS** *ccc* **HAS NO START RECORD**

Issued by: ICNIPKVT

Explanation: The program received KVT *bbb*, which does not start with a start record.

System Action: The KVT is not processed. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that the KVT for your application is defined correctly.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the KVT is correctly defined, or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

    OPTIONS TRPARM=ICNIP, TRPROC=ICNIP, TRSNAP=KVT

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNIP, NOTRPROC=ICNIP

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN662I   **aaa*: IN KVT *bbb,* **STATEMENT *ccc* **IS A NAME RESERVED TO NDF**

Issued by: ICNOTCSC, ICNOTCSD, ICNOTCSP, ICNOTFST, ICNOTNEO, ICNOTSNP, ICNOTSSC, ICNOTSSD, and ICNOTSSP

Explanation: Statement *ccc* was invoked in KVT *bbb* by other than the generation facility.

System Action: A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN664I   ICNIPKVT: IN KVT *bbb,* **RECORD** *ccc* **IS OUT OF ORDER**

Issued by: ICNIPKVT

Explanation: The program has received a keyword vector table (KVT) that has record types that are out of order.

System Action: The KVT is not processed. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that the KVT for your application is defined correctly.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the KVT is correctly defined or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

    OPTIONS TRPARM=ICNIP, TRPROC=ICNIP, TRSNAP=KVT

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNIP, NOTRPROC=ICNIP

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN665I   ICNIPKVT: IN KVT *bbb,* **RECORD** *ccc* **HAS AN ILLEGAL TYPE**

Issued by: ICNIPKVT

Explanation: The program expects to receive specific record types (that is, START, STATEMENT, PROLOG, EPILOG, KEYWORD, CONTINUE, END) and has received a type that is not allowed.

System Action: The invalid record is ignored. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that the KVT for your application is defined correctly.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the KVT is correctly defined or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

    OPTIONS TRPARM=ICNIP, TRPROC=ICNIP, TRSNAP=KVT

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNIP, NOTRPROC=ICNIP

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN666I   ICNIPGCD: UNEXPECTED END OF FILE ENCOUNTERED

Issued by: ICNIPGCD

Explanation: The program has read a record following a continuation record and found an end of file.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the generation definition and resubmit the job.

ICN667I **ICNIPSNP: INVALID TYPE** *bbb* **RECORD ENCOUNT-ERED IN KVT**

Issued by: ICNIPSNP

Explanation: The program expects the KVT to contain specific record types (for example, START, STATEMENT, PROLOG, EPILOG, KEYWORD, CONTINUE, END) and has found a type that is not allowed.

System Action: The invalid record is ignored. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that the KVT for your application is defined correctly.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the KVT is correctly defined or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

```
OPTIONS TRPARM=ICNIP, TRPROC=ICNIP, TRSNAP=KVT
```

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNIP, NOTRPROC=ICNIP
```

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN668I **ICNIPGCD: BLANK LINE IN GEN DECK**

Issued by: ICNIPGCD

Explanation: The program has received a record with no data punched in columns 1 to 71.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Remove the blank record from the generation definition and rerun the generation facility.

ICN669I **ICNIPPRS: ENCOUNTERED** *aaa* **WHEN EXPECTING STATEMENT SYMBOL OR STATEMENT NAME, STATEMENT IS IGNORED FOR STATEMENT KEYWORD VALIDATION**

Issued by: ICNIPPRS

Explanation: When attempting to read a new statement, routine ICNIPPRS found a blank or a character that is not allowed, such as an equal sign, a comma, or a parenthesis.

System Action: The statement is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Correct the generation definition and rerun the generation facility.

ICN670I **ICNIOSYN: I/O ERROR. EXECUTION TERMINATING**

Issued by: ICNIOSYN

Explanation: The file specification in your control statements for an NDF user file conflicts with the NDF internal file specification for that file.

System Action: The generation process ends.

Programmer Response: Make sure that the file definitions in your control statements are correct for the various NDF user files.

ICN671I **ICNIPPKS: NUMBER OF SUBVALUES EXCEEDS** *bbb,* **REMAINDER OF STATEMENT IS IGNORED FOR STATEMENT KEYWORD VALIDATION**

Issued by: ICNIPPKS

Explanation: The number of subvalues for the current keyword exceeds the maximum of *bbb*.

System Action: The remainder of the statement is ignored. The generation procedure ends after validation of the generation definition.

Programmer Response: Make sure the subvalues specified for the current keyword are correct and resubmit the job.

ICN672I **ICNIPKVT: START RECORD IN KVT** *bbb* **CONTAINS AN INVALID FLAG FIELD**

Issued by: ICNIPKVT

Explanation: The flag field in the start record for a user generation load module *bbb* is not 0, 1, 2, or 3.

System Action: NDF assumes that the user generation load module statement symbol *bbb* is not valid on the VIROWNER keyword on the GROUP or NCPNAU definition statements or is not valid on the LNKOWNER keyword on the GROUP definition statement. The generation process ends after validation of the generation definition.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the start record is valid or if you are not using a user-written generation application, start the trace feature by adding the following keywords on the OPTIONS definition statement with the USERGEN keyword:

```
TRPARM=(ICNOT,ICNIP), TRPROC=(ICNOT,ICNIP)
```

Stop the trace feature by adding the following definition statement after the first OPTIONS definition statement:

```
OPTIONS NOTRPARM=(ICNOT,ICNIP), NOTRPROC=(ICNOT,ICNIP)
```

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN673I   **ICNIPADD: ROUTINE PASSED** *aaa* **SUBVALUES FOR KEYWORD #SYMBOL, ONE AND ONLY ONE SUBVALUE IS ALLOWED, THIS CALL WILL NOT BE PROCESSED**

Issued by: ICNIPADD

Explanation: A user generation routine attempted to use ICNUSKAD or ICNUSKRP to create or replace the statement symbol (#SYMBOL) for the current statement with more than one subvalue.

System Action: The keyword #SYMBOL is not created. The generation process ends after validation of the generation definition.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

```
OPTIONS TRPARM=(SK,ICNUS,ICNIP),
   TRPROC=(SK,ICNUS,ICNIP)
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=(SK,ICNUS,ICNIP),
   NOTRPROC=(SK,ICNUS,ICNIP)
```

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN674I   **ICNIPADD: ROUTINE ATTEMPTED TO APPEND SUBVALUES FOR THE KEYWORD #SYMBOL, ONLY ONE SUBVALUE IS ALLOWED, THIS CALL WILL NOT BE PROCESSED**

Issued by: ICNIPADD

Explanation: A user generation routine attempted to use ICNUSKAD to add subvalues to the statement symbol (#SYMBOL) for the current statement.

System Action: The subvalue is not added to the keyword #SYMBOL. The generation process ends after validation of the generation definition.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

```
OPTIONS TRPARM=(SK,ICNUS,ICNIP),
   TRPROC=(SK,ICNUS,ICNIP)
```

Stop the trace feature by adding the following definition statement after definition the statement causing the error:

```
OPTIONS NOTRPARM=(SK,ICNUS,ICNIP),
   NOTRPROC=(SK,ICNUS,ICNIP)
```

Rerun the generation process and save all input and output. Notify your IBM representative of the problem.

ICN675I   *aaa*: **ENCOUNTERED** *bbb* **WHEN EXPECTING NOIGNORE**

Explanation: Routine *aaa* expected a NOIGNORE tag, but instead found *bbb* (another IGNORE tag, a GENEND tag, or end of file).

System Action: The generation process stops after validation of the generation definition.

Programmer Response: This is probably the result of an error by a user editing the generation definition. Determine from the context whether to delete the unmatched IGNORE statement or insert a NOIGNORE statement.

ICN676I   *aaa*: **ENCOUNTERED NOIGNORE WITHOUT ANY CORRESPONDING IGNORE**

Explanation: Routine *aaa* encountered a NOIGNORE string without first encountering an IGNORE string.

System Action: The generation process stops after validation of the generation definition.

Programmer Response: This is probably the result of an error by a user editing the generation definition. Determine from the context whether to delete the unmatched NOIGNORE statement or insert an IGNORE statement.

ICN677I   *aaa*: *bbb* **PARAMETER EXCEEDS MAXIMUM VALUE BY** *ccc*, **TRUNCATED**

Explanation: Routine *aaa* detected a migration aid function comment that is too long and truncated it.

System Action: The generation process continues to completion.

Programmer Response: Save all generation output and notify your IBM representative of the problem.

ICN701I   **ICNLEPST: SPECIFIED CLUSTER ID,** *bbb,* **IS INVALID**

Issued by: ICNLEPST

Explanation: ICNLEPST received a cluster ID that does not fall between 1–10 or 16–30.

System Action: The record is not processed. The generation process ends after validation of the generation definition.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNLE, TRPROC=ICNLE
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNLE, NOTRPROC=ICNLE
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN702I   **ICNLEPST: SPECIFIED CLUSTER ID, *bbb,* CAUSES ILLEGAL BRANCH**

Issued by: ICNLEPST

Explanation: ICNLEPST received a cluster ID that does not fall between 1–10 or 16–30.

System Action: The record is not processed. The generation process ends.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN703I   **ICNLEPST: *aaa* LINK EDIT CONTROL STATEMENT EXCEEDS *bbb* BYTES**

Issued by: ICNLEPST, ICNLEPTS

Explanation: The XINCMND argument for the link-edit record image, *aaa*, is longer than the link-edit record length, *bbb*.

System Action: The record is not processed. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNLE, TRPROC=ICNLE
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNLE, NOTRPROC=ICNLE
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN705I   **ICNLEPTN: SPECIFIED SYSTEM ID, *bbb,* IS INVALID**

Issued by: ICNLEPTN

Explanation: ICNLEPTN has found a system identifier that does not match those for either MVS/VM or VSE.

System Action: The link-edit statement is not posted. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNLE, TRPROC=ICNLE
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNLE, NOTRPROC=ICNLE
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN706I   **ICNLEGEN: INVALID SIZE *aaa* RECEIVED FOR ORDER TABLE**

Issued by: ICNLEGEN

Explanation: The number of clusters in ICNLEGEN, specified by CLUSTTOT, does not match the cluster map or is less than zero.

System Action: The communication controller load module is not created. A traceback of the active procedures is generated and generation of the link-edit stream is stopped.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN707I   **ICNLESYS: INVALID CODE RECEIVED FOR OPERATION**

Issued by: ICNLESYS

Explanation: As input to ICNLESYS, XINOP must be equal to either OPEN or CLOSE, and an unsupported operation was requested.

System Action: The routine did not open or close the output stream. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN708I   **ICN60PRO: LINK EDIT REPLACE STATEMENTS POSTED FOR USER *aaa* BUT NO OTHER LINK EDIT STATEMENTS POSTED**

Issued by: ICN60PRO

Explanation: User *aaa* posted replace statements to ICNLEPTS to generate a load module, but no other link-edit statements were posted.

System Action: The generation process ends after the generation validation phase.

Programmer Response: Start the trace facility by adding the following to the OPTIONS definition statement on which USERGEN is specified:

```
TRPARM=ICNLE
```

If you are using a user-written generation application, make sure that your application is passing the correct link-edit control statements to ICNLEPTS. If you are not using a user-written generation application, save all

output and notify your IBM representative of the problem.

ICN709I   **ICNLEPTS: SPECIFIED USER** *aaa* **INVALID. DOES NOT MATCH A VALUE SPECIFIED ON THE USERGEN KEYWORD ON THE OPTIONS STATEMENT OR AN INTERNAL NDF NAME.**

Issued by: ICNLEPTS

Explanation: The user name *aaa* does not match any USERGEN keyword name or ICNNDF, ICNRRT, or ICNBHR.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, make sure that the name *aaa* matches the name of your application. If you are not using a user-written generation application, save all output and notify your IBM representative.

ICN711I   **ICNLEPTS: SPECIFIED LINK EDIT CONTROL STATEMENT** *ID,aaa* **IS INVALID**

Issued by: ICNLEPTS

Explanation: The control statement ID passed to ICNLEPTS did not equal 0 or 1.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing a valid ID. If you are not using a user-written generation application, save all output and notify your IBM representative.

ICN712I   **ICNLEPTS: LINK EDIT REPLACE STATEMENTS ARE INVALID WITH SYSTEM ID=VSE**

Issued by: ICNLEPTS

Explanation: ICNLEPTS received parameters specifying SYSTEM ID=1 (VSE) and LINK EDIT ID=1 (REPLACE statement). REPLACE statements are invalid with VSE.

System Action: The call is not processed. A traceback of the active procedures is generated and generation validation continues.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing a valid ID. If you are not using a user-written generation application, save all output and notify your IBM representative.

ICN730I   **ICNMNMAN: LINECNT=** *aaa* **INVALID, 60 IS ASSUMED**

Issued by: ICNMNMAN

Explanation: ICNMNMAN expects the number of lines for each page of report to fall between 9 and 100, and the number supplied was outside this range.

System Action: The LINECNT is set to 60 and processing continues.

Programmer Response: If the default of 60 lines for each page is not acceptable, change the value of LINECNT in the generation definition and rerun the generation facility.

ICN731I   **ICNMNMAN: OPTION** *aaa=bbb* **ON JCL INVALID**

Explanation: Routine ICNMNMAN determined that invalid value *bbb* was specified for option *aaa*.

System Action: The generation process stops immediately.

Programmer Response: Specify a valid value for *aaa* and rerun the generation.

ICN732I   **ICNMNMAN: UNRECOGNIZED OPTION,** *aaa*, **SPECIFIED IN OPTIONS LIST, IGNORED** *explanation*

Explanation: Option area *aaa* is not a valid NDF option.

System Action: The option is ignored and processing continues.

Programmer Response: Correct the option specification and resubmit the job.

ICN733I   *modname:bbb* **CAN NOT BE SPECIFIED WITH** *ccc*, **IGNORED**

Issued by: ICNMNMAN

Explanation: The keyword *bbb* is incorrect because it is not compatible with *ccc*. In most cases, the keyword *bbb* is the cause of the problem.

System Action: NDF ignores the keyword *bbb* and continues processing.

Programmer Response: First check to make sure the keyword *bbb* is correct. If it is correct, then check to make sure *ccc* is correct. Resubmit the job.

ICN734I   **ICNMNMAN: IMPROPERLY FORMED PARAMETER LIST, '***aaa***', IGNORED**

Issued by: ICNMNMAN

Explanation: The parameter list specified to NDF was not specified correctly. The format of string *aaa* was not valid.

System Action: The option string *aaa* is ignored and processing continues.

Programmer Response: Correct the option specification and resubmit the job.

ICN735I   **ICNMNMAN: OPTION** *aaa* **IS CODED MORE THAN ONCE**

Explanation: Routine ICNMNMAN determined that option *aaa* was specified more than once.

System Action: The generation process stops immediately.

Programmer Response: Delete all occurrences of *aaa* but one and rerun the generation.

ICN740I **RESCAN REQUESTED IN CONTROL STRING PASSED TO ICNOBPUN:** *aaa*

Issued by: ICNOBPUN

Explanation: ICNOBPUN expected a restricted format for a control string and a double slash (//) was encountered.

System Action: The control string is not processed. A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

    OPTIONS TRPROC=SK, TRDATA=ICNOB

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

    OPTIONS NOTRPROC=SK, NOTRDATA=ICNOB

Save all output and notify your IBM representative of the problem.

ICN741I **CARD IMAGE CONTAINS** *aaa* **SIGNIFICANT CHAR-ACTERS - INFORMATION HAS BEEN LOST DUE TO TRUNCATION OF THE FOLLOWING STRING:** *bbb.*

Issued by: ICNOBPUN

Explanation: During the modification process in ICNOBPUN, the control string *bbb* was truncated.

System Action: The truncated string is punched into either the TABLE1 or TABLE2 output file. The generation process ends after validation of the generation definition.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

    OPTIONS TRPROC=SK, TRDATA=ICNOB

Stop the trace feature by adding the following definition statement immediately after the definition statement causing the error:

    OPTIONS NOTRPROC=SK, NOTRDATA=ICNOB

Save all output and notify your IBM representative of the problem.

ICN760I **ICNOTNAM: INVOKED WITH AN INVALID INLNKVIR PARAMETER, USERGEN NAMES NOT RETURNED**

Issued by: ICNOTNAM

Explanation: ICNOTNAM was called with an invalid parameter.

System Action: A list of names coded on the USERGEN keyword on the OPTIONS definition state-ment is not returned. The generation process ends after validation of the generation definition.

Programmer Response: Start the trace feature by adding the following definition statement immediately before the definition statement causing the error:

    OPTIONS TRPARM=(ICNOT,SK)

Turn off the trace feature by adding the following defi-nition statement immediately after the definition state-ment causing the error:

    OPTIONS NOTRPARM=(ICNOT,SK)

Resubmit the generation. Rerun the generation process and save all output. Notify your IBM repre-sentative of the problem.

ICN761I *aaa:* **INVOKED BY A KVT OTHER THAN OPTIONS**

Issued by: ICNOTCSC, ICNOTCSD, ICNOTSCP, ICNOTFST, ICNOTNEO, ICNOTSNP, ICNOTSSC, ICNOTSSD, and ICNOTSSP

Explanation: Routine *aaa* was invoked in a KVT by a statement other than OPTIONS.

System Action: A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN762I *aaa:* **INVOKED BY A KEYWORD OTHER THAN** *bbb*

Issued by: ICNOTCSC, ICNOTCSD, ICNOTSCP, ICNOTFST, ICNOTNEO, ICNOTSNP, ICNOTSSC, ICNOTSSD, and ICNOTSSP

Explanation: The option processing routine was invoked by a subcomponent other than the option processing subcomponent.

System Action: A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN763I **ICNOTNEO: USER SPECIFIED MODULE NAME,** *bbb*, **IS NOT A VALID NAME**

Issued by: ICNOTNEO

Explanation: ICNOTNEO detected that the module name *bbb* specified on the USERGEN keyword on the OPTIONS definition statement was not valid because it was longer than 8 characters, the first character was numeric, or another character within the module state-ment symbol was invalid. The name must be a valid assembler language name.

System Action: The invalid subvalue is ignored and the generation process is ended after validation of the generation definition.

Programmer Response: Correct the module name and resubmit the job.

ICN764I *aaa: bbb* **KEYWORD WAS CODED ON AN OPTIONS STATEMENT WHICH WAS NOT THE FIRST STATE-MENT IN THE GENERATION DECK**

Issued by: ICNOTNEO, ICNOTNEW

Explanation: Keyword *bbb* can be specified only on an OPTIONS definition statement that is the first state-ment in the generation definition.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Move the specification of this keyword to an OPTIONS definition statement that is the first executable statement of the generation defi-nition.

See *NCP, SSP, and EP Resource Definition Reference* for more information about the OPTIONS definition statement.

ICN765I *aaa:* **SPECIFIED SUBVALUE,** *bbb,* **NOT IMPLE-MENTED.**

Issued by: ICNOTCSC, ICNOTCSD, ICNOTCSP, ICNOTFST, ICNOTSSC, ICNOTSSD, and ICNOTSSP

Explanation: Routine *aaa* detected that the requested trace subvalue does not correspond to any trace subvalue in this program.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the error in the gen-eration and rerun the generation facility.

ICN766I **ICNOTNEO SPECIFIED MODULE,** *bbb,* **COULD NOT BE LOADED**

Issued by: ICNOTNEO

Explanation: An error occurred when loading a gen-eration load module specified on the USERGEN keyword on the OPTIONS definition statement.

System Action: A traceback of the active procedures is generated and generation validation continues unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNER, TRPROC=ALL
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNER, NOTPROC=ALL
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN767I **ICNOTSNP: SPECIFIED SUBVALUE,** *bbb,* **NOT IMPLEMENTED**

Issued by: ICNOTSNP

Explanation: An incorrect NDF subcomponent, *bbb* was specified for tracing.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Correct the trace specifica-tion and rerun the generation.

ICN769I **ICNOTFST: SPECIFIED SUBVALUE,** *bbb,* **NOT IMPLEMENTED**

Issued by: ICNOTFST

Explanation: An incorrect NDF subcomponent, *bbb* was specified for tracing.

System Action: The generation process ends.

Programmer Response: Correct the trace specifica-tion and rerun the generation.

ICN770I **ICNOTNEO: MORE THAN 25 SUBVALUES CODED ON USERGEN,** *bbb* **IGNORED FOR STATEMENT KEYWORD VALIDATION.**

Issued by: ICNOTNEO

Explanation: More subvalues than the limit of 25 were specified for the USERGEN keyword.

System Action: The excessive subvalues are ignored and the generation process ends after vali-dation of the generation definition.

Programmer Response: Make sure that only 25 load module statement symbols are specified on the USERGEN keyword on the OPTIONS definition state-ment.

ICN771I *aaa:* **FIRST THREE CHARACTERS OF LOAD MODULE NAME** *bbb* **CODED ON USERGEN DUPLI-CATE A PRECEDING LOAD MODULE NAME, INVALID, IGNORED FOR STATEMENT KEYWORD VALIDATION.**

Issued by: ICNOTNEO

Explanation: Routine *aaa* detected that *bbb* is an incorrect specification for the USERGEN keyword. The first 3 characters of this value must be unique.

System Action: The value is ignored and the gener-ation process ends after validation of the generation definition.

Programmer Response: Correct the specification and rerun the generation.

See the OPTIONS definition statement in *NCP, SSP, and EP Resource Definition Reference* for more infor-mation.

ICN772I **ICNOTSSD: DATA TRACING FOR SPECIFIED SUB-VALUE,** *xxxxx,* **WILL PRODUCE NO OUTPUT.**

Issued by: ICNOTSSD

Explanation: The subvalue, *xxxxx*, specified for the TRDATA keyword on the OPTIONS definition statement will not cause any data tracing output to be produced.

System Action: The message is printed and processing continues.

Programmer Response: Correct the subvalue and resubmit the job.

ICN773I *aaa: bbb=ccc* **INVALID, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Issued by: ICNOTNEW, ICNOTFST

Explanation: Routine *aaa* detected that *ccc* is an incorrect specification for the keyword *bbb*.

System Action: The value is ignored and the generation process ends after validation of the generation definition.

Programmer Response: Correct the specification of the keyword value and rerun the generation.

ICN774I *aaa:* **INVALID LOAD MODULE NAME** *bbb* **CODED ON USERGEN, MUST BE AT LEAST THREE CHARACTERS LONG, IGNORED FOR STATEMENT KEYWORD VALIDATION.**

Issued by: ICNOTNEO

Explanation: Routine *aaa* detected that load module statement symbol *bbb* is an incorrect specification for the USERGEN keyword. This value must be at least 3 characters long.

System Action: The value is ignored and the generation process ends after validation of the generation definition.

Programmer Response: Correct the specification and rerun the generation.

ICN775I **ICNOTNEO: INVALID LOAD MODULE NAME** *bbb* **CODED ON USERGEN, FIRST THREE CHARACTERS CANNOT BE** *ccc***, IGNORED FOR STATEMENT KEYWORD VALIDATION**

Issued by: ICNOTNEO

Explanation: The first 3 characters of the load module statement symbol were either "ICN" or "ECL." This is not allowed.

System Action: The user generation load module is not loaded by NDF. The generation process ends after validation of the generation definition.

Programmer Response: Rename your user-written generation load module and resubmit the job.

ICN776I *aaa***:** *bbb=ccc* **INVALID,** *explanation*

Explanation: Routine *aaa* detected invalid value *ccc* specified for parameter *bbb*.

System Action: The generation process stops after validation of the generation definition.

Programmer Response: Specify a valid value for *bbb* and rerun the generation.

See the *NCP, SSP, and EP Resource Definition Reference* for correct parameters for *bbb*.

ICN777I **ICNOTNEW: PARAMETERS CONFLICT,** **NEWDEFN(2)**=*ECHO* **INVALID UNLESS** **NEWDEFN(1)**=*YES***, IGNORED FOR STATEMENT KEYWORD VALIDATION.**

Issued by: ICNOTNEW

Explanation: NEWDEFN(2)=*ECHO* is valid only if NEWDEFN(1)=*YES*.

System Action: The value is ignored and the generation process is ended after validation of the generation definition.

Programmer Response: Correct the specification of the NEWDEFN keyword and rerun the generation.

ICN778I *aaa* **{WAS|WERE} SPECIFIED. IF YOU WISH TO INVOKE THE NCP GENERATION MIGRATION AID, YOU MUST SPECIFY TMODEL, TUSGTIER, AND TVERSION ON THE JCL OR ON THE OPTIONS STATEMENT**

Explanation: TMODEL, TUSGTIER, and TVERSION must all be specified to invoke the NCP generation migration aid function, but only *aaa* was specified.

System Action: The generation process stops immediately.

Programmer Response: To invoke the migration aid function, specify the missing parameters either on the OPTIONS definition statement of the NCP generation definition or in your NDF invocation JCL.

If you do not want to invoke the migration aid function, delete the *aaa* parameters.

ICN779I *aaa* **IS VALID ONLY WHEN TMODEL, TUSGTIER, AND TVERSION ARE SPECIFIED, REQUIRED**

Explanation: The *aaa* keyword can be used only in connection with the NCP generation migration aid function, which is invoked by specifying TMODEL, TUSGTIER, and TVERSION.

System Action: The generation process stops immediately.

Programmer Response: Specify TMODEL, TUSGTIER, and TVERSION either on the OPTIONS definition statement of the NCP generation definition or in your NDF invocation JCL.

ICN780I **INSUFFICIENT NUMBER OF ARGUMENTS SPECI-FIED TO ICNRPINF**

Issued by: ICNRPINF

Explanation: The number of substitution characters was greater than the number of parameters specified to routine ICNRPINF.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNRP, TRPROC=ICNRP
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNRP, NOTRPROC=ICNRP
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN781I *aaa:* **INSUFFICIENT SPACE AVAILABLE FOR SORTS, CROSS REFERENCE NOT DONE.** *bbb,* **BYTES REQUESTED,** *ccc,* **BYTES RECEIVED**

Explanation: The generation facility was unable to get enough storage to do the sort or cross reference. Only *ccc* bytes were available when *bbb* bytes were requested.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Increase the storage allo-cated to the generation facility. If the problem persists, notify your IBM representative.

ICN782I **ICNRPXRF: SUBAREA** *aaa* **FOR STATEMENT SYMBOL** *bbb* **EXCEEDS VALID RANGE**

Issued by: ICNRPXRF

Explanation: Subarea value *aaa*, associated with statement symbol *bbb*, is greater than 255 when being passed to the symbol table.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNRP, TRPROC=ICNRP
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNRP, NOTRPROC=ICNRP
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN783I **ICNRPXRF: NETWORK ADDRESS** *aaa* **FOUND FOR STATEMENT SYMBOL** *bbb* **IN A** *ccc* **GEN**

Issued by: ICNRPXRF

Explanation: A network address (*aaa*) should not be found in an EP or DR generation.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNRP, TRPROC=ICNRP
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNRP, NOTRPROC=ICNRP
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN800I *aaa:* **INPUT STRING IS MISSING AN END DELIM-ITER**

Issued by: ICNSMLEN, ICNSMPLS, ICNERSKC

Explanation: The input string is not in NDF string standard representation.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information about NDF string standard representation and user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN801I *aaa:* **INSUFFICIENT NUMBER OF ARGUMENTS SPECIFIED**

Issued by: ICNSMCAT, ICNSMCMP, ICNERPST

Explanation: Internal NDF routine *aaa* was called internally with too few arguments.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN802I   **ICNSMCAT: CONCATENATION OF ARGUMENTS EXCEEDS 256 CHARACTERS**

Issued by: ICNSMCAT

Explanation: The length of the variable formed by combining other variables is greater than 256 characters.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following statement after the statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN803I   **ICNSMSTD: INPUT LENGTH IS NOT IN THE RANGE 0 TO 255**

Issued by: ICNSMSTD

Explanation: An input parameter to an NDF internal routine is longer than 255 characters.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN804I   **ICNSMSUB: START POSITION IS NOT POSITIVE**

Issued by: ICNSMSUB

Explanation: The internal starting position for a sub-string operation is not positive.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN805I   **ICNSMFMT: FORMATTED OUTPUT STRING EXCEEDS 256 CHARACTERS**

Issued by: ICNSMFMT

Explanation: A variable formed to string substitution is longer than 256 characters.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application,

start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN806I   **ICNSMDIG: NUMERIC CONVERSION ERROR**

Issued by: ICNSMDIG

Explanation: ICNSMDIG calls ICNTCGET and fails to get a value from a radix string.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN807I   **ICNSMDIG: TAB CHARACTER NOT FOUND**

Issued by: ICNSMDIG

Explanation: This message is issued if, after processing the first and second arguments, the next character is not a tab.

System Action: The generation process ends after validation of the generation definition.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN808I   **ICNSMDIG: FIELD WIDTH IS TOO LARGE**

Issued by: ICNSMDIG

Explanation: In a call to ICNSMFMT, the field width specified is greater than 255 characters. ICNSMFMT then passes too few arguments to ICNSMDIG when it is called to do processing.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN809I   **ICNSMDIG: DOUBLE WORD CONTROL FUNCTION NOT IMPLEMENTED**

Issued by: ICNSMDIG

Explanation: The double word control function has not been implemented.

System Action: A traceback of the active procedures is generated and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN810I   **ICNSMDIG: ILLEGAL CONTROL FUNCTION FORMAT IN CALL TO ICNSMFMT**

Issued by: ICNSMDIG

Explanation: An illegal control character has been found in the input parameter list passed to ICNSMDIG.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN811I   **ICNSMDIG: BIT LENGTH IS NOT IN THE RANGE 1 TO 32, 1 ASSUMED**

Issued by: ICNSMDIG

Explanation: A bit string can be only 1 to 32 bits long.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN812I   **ICNSMFMT: ICNSMALN SHOULD HAVE MADE THE FORMAT STRING LEGAL**

Issued by: ICNSMFMT

Explanation: The scan of the format string has failed.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN813I   **ICNSMFMT: MISSING A LEGAL CONTROL CHARACTER AFTER DIAGONAL**

Issued by: ICNSMFMT.

Explanation: The character following a slash (/) is not allowed.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN814I   *aaa:* **OUTPUT STRING EXCEEDS 256 CHARACTERS**

Issued by: ICNSMSKC, ICNSMSTD

Explanation: Routine *aaa* detected an output string longer than the allowed maximum of 256 characters.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Correct the output string in the generation definition so that it does not exceed 256 characters and resubmit the generation.

ICN815I   **ICNSMSUB: INPUT LENGTH IS NEGATIVE**

Issued by: ICNSMSUB

Explanation: The length being passed in to ICNSMSUB is a negative number.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN816I   **ICNSMSUB: START POSITION IS GREATER THAN THE LOGICAL LENGTH**

Issued by: ICNSMSUB

Explanation: The start position specified is greater than the length of the string to be searched.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN817I   **ICNSMSUB: LAST SUBSTRING POSITION EXCEEDS THE LOGICAL LENGTH**

Issued by: ICNSMSUB

Explanation: The length of the substring to be searched extends beyond the length of the whole string.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN818I   **ICNSMFMT: TOO MANY ARGUMENTS SPECIFIED**

Issued by: ICNSMFMT

Explanation: Too many arguments were passed to ICNSMFMT.

System Action: ICNSMFMT reads the number of arguments it needs and ignores any passed after that. A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN819I   **ICNSMFMT: DOUBLE DIAGONAL (//) MUST BE FOL-LOWED BY S CONTROL CHARACTER**

Issued by: ICNSMFMT

Explanation: A double diagonal must be followed by an *S* control character.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNSM, TRPROC=ICNSM

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN820I   ICNSMALN: INPUT STRING IS MISSING AN END DELIMITER

Issued by: ICNSMALN

Explanation: The input string is not in NDF string standard representation.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications and standard representation for NDF strings.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN821I   ICNSMDIG: INSUFFICIENT NUMBER OF ARGUMENTS SPECIFIED

Issued by: ICNSMDIG

Explanation: In a call to ICNSMFMT, insufficient arguments have been specified. ICNSMFMT then passes too few arguments to ICNSMDIG when it is called to do processing.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN822I   ICNSMFMT: INSUFFICIENT NUMBER OF ARGUMENTS SPECIFIED

Issued by: ICNSMFMT

Explanation: In a call to ICNSMFMT, insufficient arguments have been specified.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: If you are using a user-written generation application, make sure that your application is passing valid parameters to NDF.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on user-written generation applications.

If the application is passing valid parameters or if you are not using a user-written generation application, start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNSM, TRPROC=ICNSM
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNSM, NOTRPROC=ICNSM
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN823I   ICNOTCSG: TOO MANY GLOBALS SPECIFIED

Issued by: ICNOTCSG

Explanation: Too many globals were passed to ICNOTCSG for global tracing.

System Action: ICNOTCSG reads the maximum number of globals allowed and ignores any passed after that. The generation validation continues.

Programmer Response: Save all output and notify your IBM representative.

ICN851I   ICNSTOUT: WRITE FAILURE

Issued by: ICNSTOUT

Explanation: An attempt to write a record to DBWORKFL failed.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Turn on TRPROC and TRPARM for the ICNST sub-component. Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN853I   **ICNSTINI: OPEN FAILURE**

Issued by: ICNSTINI

Explanation: An attempt to open DBWORKFL failed.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN854I   **ICNSTEND: CLOSE FAILURE**

Issued by: ICNSTEND

Explanation: An attempt to close DBWORKFL failed.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN858I   *aaa:* **STORAGE MANAGER NOT ACTIVE**

Issued by: ICNSTCLS, ICNSTFND, ICNSTMAK, ICNSTRBF, ICNSTSIZ, ICNSTTRN

Explanation: Routine *aaa* called the storage manager, but the storage manager had not been initialized.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN859I   **ICNSTFND: FOR SET** *bbb,* **FILE BLOCK** *ccc* **IS MISSING**

Issued by: ICNSTFND

Explanation: ICNSTFND detected that block *ccc* from storage manager set *bbb* is missing.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN860I   *aaa:* **FOR SET** *bbb, ccc* **IS NOT IN THE VALID RANGE**

Issued by: ICNSTFND, ICNSTTRN

Explanation: A request was made to routine *aaa* for set number *bbb*, record *ccc*, but *ccc* was not a valid record number.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN862I   **ICNSTMAK: ATTEMPT TO CREATE TOO MANY RECORDS IN SET** *bbb*

Issued by: ICNSTMAK

Explanation: ICNSTMAK attempted to create a record in set *bbb*, but the maximum allowable number of records was already in the set. Records in sets 4 to 28 are 80-character linkage editor control statements that control the inclusion and ordering of load modules and table objects.

System Action: NDF ignores the request to create a record. A traceback of the active procedures is generated, and generation validation continues unless other more serious errors occur.

Programmer Response: If you are using a generation application and *bbb* is 4 to 28, check that you are using INCLUDE and ORDER definition statements efficiently.

See *NCP and SSP Customization Guide* and *NCP and SSP Customization Reference* for more information on generation applications.

If you are using the linkage editor INCLUDE and ORDER definition statements efficiently, or if you are not using a generation application, start the trace feature by adding the following definition statement just before the statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN863I **ICNSTFBF: UNABLE TO GET A FREE BUFFER**

Issued by: ICNSTFBF

Explanation: A request was made to the storage manager that required a buffer, but no buffers were available.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Increase the virtual region size and rerun NDF. If that does not solve the problem, notify your IBM representative.

ICN864I **ICNSTOPN: STORAGE MANAGER ALREADY IN OPERATION**

Issued by: ICNSTOPN

Explanation: A request was made to start the storage manager, but it was already active.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur. The request to open the storage manager is ignored.

Programmer Response: Save all output and notify your IBM representative of the problem.

ICN865I **ICNSTOPN: FOR SET** *bbb, ccc* **RECORDS WERE ALLOCATED**

Issued by: ICNSTOPN

Explanation: A request to open the storage manager for set *bbb* was ignored because the value of *ccc* was zero or negative.

System Action: The request to open the storage manager is ignored. A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all input and output and notify your IBM representative.

ICN866I **ICNSTOPN: FOR SET** *bbb, ccc* **IS NOT A VALID RECORD WIDTH**

Issued by: ICNSTOPN

Explanation: A request to open the storage manager was ignored because for set *bbb*, *ccc* was greater than the buffer size (4096).

System Action: The request to open the storage manager is ignored. A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all input and output and notify your IBM representative.

ICN867I **ICNSTOPN:** *bbb* **BYTES WERE SPECIFIED WITH A NULL CORE POINTER**

Issued by: ICNSTOPN

Explanation: A request was made to open the storage manager but was ignored because the virtual memory address was zero.

System Action: A traceback is printed and the request to open the storage manager is ignored. The generation process ends.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNST, TRPROC=ICNST
```

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNST, NOTRPROC=ICNST
```

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN868I **ICNSTOPN:** *bbb* **BYTES IS LESS CORE THAN NEEDED FOR** *ccc* **BUFFERS**

Issued by: ICNSTOPN

Explanation: A request to open the storage manager was ignored because *bbb* bytes was insufficient memory for *ccc* buffers.

System Action: A traceback is printed and the request to open the storage manager is ignored. The generation process ends.

Programmer Response: Increase virtual region size and rerun NDF.

ICN869I **ICNSTRBF: BUFFER NUMBER** *bbb* **IS OUT OF THE VALID RANGE**

Issued by: ICNSTRBF

Explanation: A request was made to write out the contents of buffer *bbb* to DBWORKFL, but *bbb* was either less than 1 or greater than the actual number of buffers.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Save all input and output and notify your IBM representative.

ICN870I   **ICNSTRBF: BUFFER NUMBER** *bbb* **IS ILLEGALLY LOCKED**

   Issued by: ICNSTRBF

   Explanation: A request was made to file the buffer number *bbb* but it was still locked.

   System Action: The generation process ends after validation of the generation definition.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN871I   *aaa:* **SET** *bbb* **IS NOT IN THE VALID RANGE**

   Issued by: ICNLEGEN, ICNLEINF, ICNSTFND, ICNSTMAK, ICNSTTRN

   Explanation: Routine *aaa* attempted to use set *bbb* but could not because set *bbb* is either less than 1 or greater than the maximum set number.

   System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN872I   **ICNSTOPN:** *bbb* **INVALID VALUE FOR SET DEFINER LENGTH**

   Issued by: ICNSTOPN

   Explanation: A request was made to open the storage manager but the number of sets was either less than 1 or greater than the maximum allowable number of sets.

   System Action: The request to open the storage manager is ignored. A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN901I   *aaa:* **INPUT FIELD NUMBER** *bbb* **IS NOT VALID**

   Issued by: ICNSYGET, ICNSYPUT

   Explanation: The request to routine *aaa* to GET or PUT the symbol table field was invalid because the field number parameter *bbb* was invalid.

   System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN902I   *aaa:* **FIELD NUMBER** *bbb* **IS NOT VALID FOR SYMBOL TYPE** *ccc*

   Issued by: ICNSYGET, ICNSYPUT

   Explanation: The request to routine *aaa* to GET or PUT symbol table field *bbb* is not valid for statement symbol type *ccc*.

   System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN903I   *aaa:* **SYMBOL LENGTH IS INVALID**

   Issued by: ICNSYFND, ICNSYHSH, ICNSYPST

   Explanation: Request to routine *aaa* was invalid because the symbol name was an invalid length.

   System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN904I   **ICNSYSRT: INPUT SORT CLASS** *bbb* **IS NOT VALID**

   Issued by: ICNSYSRT

   Explanation: For routine *aaa*, the input sort class parameter *bbb* was invalid.

   System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN905I   *aaa: bbb* **IS AN INVALID SYMBOL TYPE**

   Issued by: ICNSYCMP, ICNSYFND, ICNSYPST, ICNSYSWP

   Explanation: Invalid statement symbol type *bbb* was passed as a parameter to routine *aaa*.

   System Action: A traceback is printed. The generation process ends after validation of the generation definition.

   Programmer Response: Save all input and output and notify your IBM representative.

ICN921I   **ICNTCGET: RADIX IS NOT IN THE RANGE 2 TO 32**

   Issued by: ICNTCGET

   Explanation: The radix (fourth argument) was not in the range of 2 to 32.

   System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

   Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

```
OPTIONS TRPARM=ICNTC, TRPROC=ICNTC
```

   Stop the trace feature by adding the following definition statement after the definition statement causing the error:

```
OPTIONS NOTRPARM=ICNTC, NOTRPROC=ICNTC
```

   Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN922I **ICNTCGET: BIT LENGTH IS NOT IN THE RANGE 1 TO 32**

Issued by: ICNTCGET

Explanation: The length (second argument) passed to ICNTCGET is not in the range of 1 to 32.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNTC, TRPROC=ICNTC

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNTC, NOTRPROC=ICNTC

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN923I **ICNTCPUT: RADIX IS NOT IN THE RANGE 2 TO 32, 10 IS ASSUMED**

Issued by: ICNTCPUT

Explanation: The radix (fourth argument) was not in the range of 2 to 32. The value 10 was used.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNTC, TRPROC=ICNTC

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNTC, NOTRPROC=ICNTC

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN924I **ICNTCPUT: BIT LENGTH IS NOT IN THE RANGE 1 TO 32, 32 IS ASSUMED**

Issued by: ICNTCPUT

Explanation: The bit length (second argument) passed in to ICNTCPUT was not in the range of 1 to 32. The value 32 was used.

System Action: A traceback of the active procedures is generated, and generation validation will continue unless other more serious errors occur.

Programmer Response: Start the trace feature by adding the following definition statement just before the definition statement causing the error:

    OPTIONS TRPARM=ICNTC, TRPROC=ICNTC

Stop the trace feature by adding the following definition statement after the definition statement causing the error:

    OPTIONS NOTRPARM=ICNTC, NOTRPROC=ICNTC

Rerun the generation process and save all output. Notify your IBM representative of the problem.

ICN940I **ROUTINE** *aaa* **PARAMETER** *bbb* **VALUE** *ccc* **INVALID**

Issued by: ICNUTGET, ICNUTRET

Explanation: Routine *aaa* has detected one of the following:

- An invalid region size, *ccc*, was requested by NDF in a get or free storage request.
- An invalid storage location, *ccc*, was supplied by NDF to a get or free storage request.

System Action: The request is ignored. The generation process ends after validation of the generation definition.

Programmer Response: Save all input and output and notify your IBM representative.

ICN941I **NOT ENOUGH VIRTUAL STORAGE TO RUN NDF**

Issued by: ICNUTGET

Explanation: A request was made to get virtual memory, but the request could not be fulfilled.

System Action: The request is ignored and the error code is passed to the calling routine. The generation process ends.

Programmer Response: Increase the virtual region size and reexecute NDF.

ICN942I **NO STORAGE FREED BY** *aaa, bbb* **ERROR** *ccc*

Issued by: ICNUTRET

Explanation: A request was made to free virtual memory but an error occurred. Error code *ccc* was returned by the FREEMAIN macro.

System Action: The error code is returned to the calling routine. The generation process ends after validation of the generation definition.

Programmer Response: Do the following:

- See the appropriate message manual for your operating system and take corrective action.
- If the problem persists, save all input and output and notify your IBM representative.

ICN943I **ICNUTLOD: CDLOAD FAILURE, PHASE** *xxx* **NOT FOUND**

Issued by: ICNUTLOD

Explanation: A phase required by NDF was not found in any of the sublibraries in the LIBDEF PHASE chain.

System Action: The generation process ends.

Programmer Response: Check your JCL to make sure that the correct sublibraries have been included in the LIBDEF PHASE chain.

ICN944I   **ICNUTLOD: CDLOAD FAILURE, RETURN CODE** *nn*

Issued by: ICNUTLOD

Explanation: A CDLOAD SVC failed and returned code *nn*.

System Action: The generation process ends.

Programmer Response: See *VSE/ESA System Macros Reference* for more information on the meaning of the return code.

ICN960I   **ERROR LOADING AUXILIARY DIRECTORY**

Explanation: Under CMS, the auxiliary directory could not be loaded. The auxiliary directory might be built incorrectly or the system disk might not be linked properly.

System Action: The generation process stops immediately.

Programmer Response: Make sure that the proper system disks are accessed correctly. If the problem persists, verify that the auxiliary directory is constructed properly and that the disks are linked correctly.

ICN961I   **AUXILIARY DIRECTORY NOT LOADED AND IHR90 NOT FOUND IN ANY RESIDENT DIRECTORY**

Explanation: Under CMS, the IHR assembler module IHR90 could not be found.

System Action: The generation process stops immediately.

Programmer Response: Make sure that the proper system disks are accessed correctly and rerun the generation. If the problem persists, verify the correct disk linkage.

ICN962I   **AUXILIARY DIRECTORY NOT LOADED AND ICNRTSUM NOT FOUND IN ANY RESIDENT DIRECTORY**

Explanation: Under CMS the error summary load module of NDF could not be found on any of the accessed disks.

System Action: The generation process stops immediately.

Programmer Response: Make sure that the proper system disks are accessed correctly and rerun the generation. If the problem persists, verify the correct disk linkage.

ICN963I   **ERROR FREEING AUXILIARY DIRECTORY**

Explanation: Under CMS, a request by NDF to free the auxiliary directory could not be completed.

System Action: The generation stops immediately.

Programmer Response: Verify that the auxiliary directory is properly constructed.

ICN970I   **MODULE** *aaa* **SHOULD BE CALLED ONLY WHEN NDF'S MIGRATION FUNCTION IS ACTIVE**

Explanation: NDF routine *aaa* is exclusively for the migration aid function, but was called when the migration aid function was not active.

System Action: A traceback of the active procedures was generated and generation validation continues unless other, more serious errors occurred.

Programmer Response: Save all output and notify your IBM representative.

ICN971I   *aaa*: **PARAMETER** *bbb* **FOR KEYWORD** *ccc* **WAS PASSED WITH INVALID VALUE "***ddd***"**

Explanation: Routine *aaa* detected in parameter *bbb* an invalid value *ddd* for keyword *ccc*.

System Action: A traceback of the active procedures was generated and generation validation continues unless other, more serious errors occurred.

Programmer Response: Save all generation output and notify your IBM representative of this problem.

ICN972I *aaa*: **THE TVERSION VALUE MUST BE EQUAL TO, OR MORE RECENT THAN, THE VERSION VALUE**

Explanation: Routine *aaa* determined that the NCP version of the input generation definition is more recent than the target version.

System Action: The generation process stops immediately.

Programmer Response: Specify a TVERSION value that is equal to or more recent than the VERSION value, and rerun the generation.

IFL Messages

IFL000I   ERROR - LOADING PROCESS TERMINATED **
(*ddname*) COULD NOT BE OPENED ***

Explanation: The data set indicated by *ddname*
could not be opened. (Message IFL010I is also sent.)

In VM, if SYSUT2 is named by *ddname*, the communi-
cation controller is not attached or accessed properly.
In MVS, if the DD statement is missing, a system
message (IEC130I) is also issued. If the *ddname* in
the message is blank, this indicates a device definition
problem to MVS or VM.

System Action: The loading process stops imme-
diately.

Programmer Response: Check the DD statement
indicated by *ddname* for correct specification and
check that the UNIT parameter on the LOAD utility
control statement specifies the proper *ddname*.

In VM, check the VM device definitions to make sure
that the real device is attached properly and is properly
associated with the virtual address specified in the load
statement.

IFL001I   UTILITY END *xx* WAS THE HIGHEST SEVERITY
CODE

Explanation: The loader utility has processed all
control statements in the input data set. The severity
codes possible are:

00   The loading process was completed suc-
            cessfully; all communication controllers
            that were to be loaded are now loaded.

04   The loading process for at least one of the
            communication controllers to be loaded
            generated a warning or error message.

08   Because of a severe error, none of the
            communication controllers to be loaded
            was successfully loaded.

System Action: The loader job is completed.

Programmer Response: If the severity code is
greater than 0, examine the message data set for the
appropriate messages. Correct the job control state-
ments in error and resubmit the job. The resubmitted
job need not specify the loading of those communi-
cation controllers that were successfully loaded.

IFL002I   ERROR - LOADING PROCESS TERMINATED **
LOADMOD RECORD SIZE TOO LARGE ***

Explanation: The input record size of the NCP load
module was too large for the buffer space available in
the host processor. (Message IFL010I is also sent.)

System Action: The communication controller to be
loaded with the indicated load module is not loaded;
the loader utility processes the next utility control state-
ment, if any.

Programmer Response: Link-edit the load module
again, specifying the DC parameter to assure proper
load module record size, and resubmit the loader job.

IFL003I   ERROR - LOADING PROCESS TERMINATED **
SYSUT1 BLDL ERROR ***

Explanation: The build list function (BLDL system
macro) failed for the NCP load module member of the
SYSUT1 data set. Either the load module was not
found or a permanent input or output error occurred
when the directory was searched. (Message IFL010I
is also sent.)

System Action: The communication controller to be
loaded with the indicated load module is not loaded;
the loader utility processes the next utility control state-
ment, if any.

Programmer Response: Make sure that the
LOADMOD parameter of the LOAD utility control state-
ment specifies the proper load module name and that
the load module having that name is a member of the
SYSUT1 data set.

IFL004I   ERROR - LOADING PROCESS TERMINATED **
(*ddname*) PERMANENT I/O ERROR (STATUS=*xxxx*,
SENSE=*xxxx*) ****

Explanation: A permanent input or output error
occurred in the communication controller during
loading. (Message IFL010I is also sent.)
STATUS=*xxxx* and SENSE=*xxxx* give the channel
status and sense byte information associated with the
input or output error. This message is also issued if
the load module is too big for the communication con-
troller (one of several conditions that can cause this
error).

If the *ddname* in the message is blank, this indicates a
device definition problem.

System Action: Loading of the communication con-
troller stops immediately; the loader utility processes
the next utility control statement, if any.

Programmer Response: Examine the link-edit for the
size of the load module to make sure that it can be
loaded into the communication controller. Resubmit
the loader job accordingly.

For information about the channel status and sense
byte, see *NCP and EP Reference Summary and Data
Areas*, Volume 2.

For the IBM 3745 Communication Controller, do not
specify the ALIGN2 parameter in the linkage editor
JCL. By default, the alignment is on 4KB page bound-
aries (KB equals 1024 bytes), and this is the correct
alignment for the IBM 3745. For more information, see
NCP, SSP, and EP Generation and Loading Guide.

IFL005I   **ERROR - LOADING PROCESS TERMINATED ****
               INITIAL-TEST DETECTED COMM CTLR ERROR **

Explanation: The initial test routine did not return control to the loader utility. This failure to return control indicates a hardware error occurred in the communication controller that would prevent NCP from executing properly. (Message IFL010I is also sent.)

System Action: The communication controller is not loaded, and the loader utility processes the next utility control statement, if any.

Programmer Response: Follow the problem determination procedure indicated by messages located in the SYSPRINT output.

IFL006I   **ERROR - LOADING PROCESS TERMINATED ****
               CONTROL STATEMENT ERROR ***

Explanation: The LOAD utility control statement contained a syntax error. (This message is sent to both SYSPRINT output and the operator.)

System Action: The communication controller is not loaded; the loader utility processes the next utility control statement, if any.

Operator Response: Correct the erroneous LOAD statement and resubmit the loader job.

IFL007I   **ERROR - LOADING PROCESS TERMINATED ****
               PROGRAM FAILURE IN COMM CTLR ***

Explanation: The communication controller module of the loader utility encountered a software or hardware error in the communication controller. (Message IFL010I is also sent.) This message is issued when the communication controller portion of the loader failed to respond within a given interval (usually 28 seconds) to an input or output operation initiated by the host portion of the loader.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility control statement, if any.

Programmer Response: Follow the problem determination procedure indicated by messages located in the SYSPRINT output.

IFL008I   **LOAD COMPLETE COMM CTLR -** *xxx*
               LOADMOD=(*member***)**

Explanation: The communication controller, identified by unit address *xxx*, was successfully loaded with the NCP load module, whose member name is specified by *(member)*. (This message is sent to both SYSPRINT output and the operator.)

System Action: The loader utility processes the next control statement, if any.

Operator Response: No response is necessary.

IFL009I   **WARNING - LOADING PROCESS COMPLETED ****
               LOAD MODULE LARGER THAN COMM CTLR ***

Explanation: The load module is too large for the communication controller. The loader utility loaded as much of the load module as possible in the communication controller and attempted to give control to that load module. Either the NCP specified is too large for the communication controller and must be reduced in size, or the LOADMOD parameter of the LOAD utility control statement specified the wrong load module member name for the communication controller specified by the UNIT parameter.

System Action: The loader utility processes the next control statement.

Programmer Response: Regenerate an NCP of a size that the communication controller can accommodate, or correct the LOAD utility control statement.

IFL010I   **LOAD FAILED COMM CTLR -** *xxx*
               LOADMOD=(*member***)**

Explanation: The loading of the communication controller identified by address *xxx* failed.

If the *xxx* appears in the message instead of a device address, this indicates a device definition problem. This message is sent only to the operator with a Write to Operator (WTO) command.

System Action: The loader utility processes the next control statement, if any.

Operator Response: Examine the SYSPRINT output for messages defining the problem and respond accordingly.

IFL011I   **ERROR - LOADING PROCESS TERMINATED**
               ** -MISSING KEYWORD- ***

Explanation: A required keyword parameter is missing from the LOAD utility control statement. (Message IFL006I is also sent to the operator).

System Action: The loader utility processes the next utility control statement, if any.

Operator Response: Correct the erroneous LOAD statement and resubmit the loader job.

IFL012D   **COMM CTLR -** *xxx* **ACTIVE *** REPLY TO CONTINUE**
               (Y OR N)

Explanation: An attempt has been made to load the *xxx* communication controller, which contains an active control program.

System Action: The loader utility waits for the operator's reply.

Operator Response: If the communication controller is to be loaded, do one of the following:

- For MVS, enter REPLY *xx*, Y where *xx* represents the number of the message to which you are responding.

- For VM, reply *Y*. This response causes the loader utility to continue the load for this communication controller.

If the communication controller is not to be loaded, enter REPLY *xx*, N to stop the load request imme-

diately. Processing then continues with the next request.

IFL013I COMM CTLR ACTIVE - LOAD CANCELLED BY THE OPERATOR **

Explanation: The communication controller was in an active state and the operator did not want to continue the load.

System Action: The loader utility continues with the next request, if any.

Programmer Response: No response is necessary.

IFL014I ERROR - LOADING PROCESS TERMINATED ** UNEXPECTED END-OF-FILE ON MEMBER *xxxxxxx* ***

Explanation: An end-of-file condition occurred on the indicated member *xxxxxxx* before the load module and record produced by the linkage editor were found. The problem exists with the LOADMOD member on SYSUT1.

System Action: The loader continues with next request.

Programmer Response: Check the link-edit of the indicated member to ensure successful completion. If the link-edit was not successful, repeat the link-edit and request the load operation again.

IFL015I ERROR - LOADING PROCESS TERMINATED ** COMM CTLR DEVICE TYPE CONFLICT **

Explanation: The specified device is not identified to the operating system as an IBM 3720, IBM 3725, or IBM 3745.

System Action: The loading process continues with the next request.

Programmer Response: Make sure that the DD statement describing the communication controller has the correct unit and that DIAG=NO is specified correctly on the LOAD utility control statement for this communication controller.

IFL016I ERROR - LOADING PROCESS TERMINATED ** GETMAIN FAILED; INCREASE REGION SIZE AND TRY AGAIN

Explanation: The loader repeatedly issued GETMAINS during the loading process. This message indicates that the loader has insufficient space to include all of the GETMAINS necessary to complete the loading process.

System Action: The loading process stops immediately.

Programmer Response: Increase the region size for the load job and request the load operation again.

IFL017I LOAD OR DUMP IN PROGRESS ACROSS ANOTHER CHANNEL ADAPTER - LOADING PROCESS TERMINATED

Explanation: The communication controller is either being loaded or dumped over another channel adapter; therefore, the current load request cannot be honored.

System Action: The communication controller is not loaded over the present channel adapter. The loader processes the next utility control statement, if any.

Programmer Response: No response is necessary.

IFL018I DISABLED CHANNEL ADAPTER ENCOUNTERED - LOADING PROCESS TERMINATED

Explanation: The channel adapter over which you have tried to load the communication controller is not enabled. This condition may occur because the channel adapter has been manually disabled at the MOSS console or because a load operation is in progress over another of the communication controller's channel adapters. (During the loading process, all channel adapters are disabled except the one used for loading.)

System Action: The communication controller is not loaded. The loader processes the next utility control statement, if any.

Programmer Response: If the channel adapter has been manually disabled, reenable it at the MOSS console, press the Load button, and resubmit the load job. If the channel adapter has not been manually disabled, consult the operators of the processors attached to the communication controller to determine who has loaded, or should load, the communication controller.

IFL019I ENTERING INITIALIZATION-ENTRY POINT=xxxxx

Explanation: This message is intended as an aid to debugging problems encountered while attempting to load and initialize NCP or EP. It can be used to determine whether the problem occurred during the load process or after control has passed to NCP or EP initialization. This message is issued to the console when control is passed to NCP or EP initialization. Therefore, if the message has not been received when a problem is encountered, it is likely to be a loader problem; otherwise, it is likely to be an NCP or EP problem.

Programmer Response: No response is necessary.

IFL020I MACRO CALL TO MVS MACRO ISITMGD FAILED. NONSYSTEM MANAGED DATASET (PDS) WILL BE ASSUMED FOR THIS LOADLIB.

Explanation: A macro call was made to the MVS system macro ISITMGD. A nonzero return code was received from the macro call.

System Action: Loading of the communications controller will continue. The loader utility will assume that the loadlib specified is in a PDS that is not managed by the system.

Programmer Response: Insure that the ISITMGD macro is available for use on this MVS system.

IFL023I   ERROR - LOADING PROCESS TERMINATED **
KEYWORD XXXXXXXX, IF SPECIFIED, MUST BE
YES OR NO **

Explanation: The keyword indicated in the message
has been incorrectly specified. The keyword can be
specified only as YES or NO.

System Action: Loading of the communication con-
troller is stopped immediately, and the loader utility
processes the next utility control statement, if any.

Programmer Response: Correct the LOAD state-
ment and resubmit the loader job.

IFL024I   WARNING - LOAD FROM DISK INITIATED **
SAVE=NO ASSUMED **

Explanation: SAVE=YES is not a valid keyword
when load from disk is specified.

System Action: The communication controller will be
loaded from the disk, but the save option is ignored.

Programmer Response: If a subsequent load com-
plete message is displayed, the communication con-
troller is loaded and ready to run. No response is
required by the programmer.

IFL025I   ERROR - LOADING PROCESS TERMINATED **
INVALID TO SPECIFY DIAGNOSTIC ROUTINE WITH
THIS COMM CTLR **

Explanation: DIAG=Y6 or DIAG=Y8 is invalid for the
type of communication controller that has been speci-
fied. DIAG=Y6 or DIAG=Y8 is no longer supported.

System Action: Loading of the communication con-
troller is stopped immediately, and the loader utility
processes the next utility statement, if any.

Programmer Response: Delete the DIAG keyword
on the LOAD statement.

IFL026I   ERROR - LOADING PROCESS TERMINATED **
INVALID KEYWORD SELECTIONS FOR THIS COM-
MUNICATION CONTROLLER **

Explanation: Some of the keywords specified apply
only to disk operation, and do not apply to the type of
communication controller being loaded.

System Action: Loading of the communication con-
troller stops immediately, and the loader utility proc-
esses the next utility statement, if any.

Programmer Response: Disk keywords similar to
SAVE and AUTOIPL are not valid for a 3725 Commu-
nication Controller. Remove the disk keywords speci-
fied on the LOAD statement and resubmit the job.

IFL027I   ERROR - LOADING PROCESS TERMINATED **
LOAD MODULE NOT AVAILABLE ON DISK **

Explanation: The load module requested by the user
is not available on the disk.

System Action: Loading of the communication con-
troller stops immediately, and the loader utility proc-
esses the next utility statement, if any.

Programmer Response: Check the load module

name on the LOAD definition statement and see if it
matches with the load module name saved on disk.
Also, check the communication controller disk to make
sure that a load module has been saved. Make the
necessary corrections on the LOAD statement and
resubmit the loader job.

IFL028I   ERROR - LOADING PROCESS TERMINATED **
MOSS I/O ERROR ** LOAD MODULE NOT LOADED
FROM DISK

Explanation: A MOSS, hardware, or disk error has
been encountered during the loading process, causing
the process to fail.

System Action: Loading of the communication con-
troller stops immediately, and the loader utility proc-
esses the next utility statement, if any.

Programmer Response: Resubmit the job, and if the
same message recurs, notify your IBM representative
for assistance.

IFL029I   WARNING - LOADING PROCESS CONTINUED **
MOSS I/O ERROR ** LOAD MODULE AND AUTOIPL
SWITCH NOT SAVED ON DISK

Explanation: A MOSS software or hardware input or
output error has been encountered in saving the load
module or the AUTOIPL switch on the disk. The load
process initiated from the host will continue, but the
load module and AUTOIPL switch have not been
saved on the disk.

System Action: Loading of the communication con-
troller is continued with a warning. If a subsequent
load complete message is displayed, the communi-
cation controller has been loaded with the requested
load module and is ready to run. However, the load
module and AUTOIPL switch were not saved on the
communication controller disk.

Programmer Response: If you want to have a
backup load module and AUTOIPL switch residing on
the communication controller's disk, resubmit the job.
If you resubmit the job and receive the same warning
message, you can continue to operate your communi-
cation controller without backup, but you should notify
your IBM representative of your problem.

IFL030I   ERROR - LOADING PROCESS TERMINATED **
DISK FUNCTION NOT SUPPORTED **

Explanation: The requested load cannot be per-
formed because the communication controller specified
does not support disk function.

System Action: Loading of the communication con-
troller stops immediately, and the loader utility proc-
esses the next utility statement, if any.

Programmer Response: If you intend to load from
disk, make sure that you use the communication con-
troller that supports the disk functions. If an error has
been made in specifying the LOAD statement, correct
it and resubmit the loader job.

IFL031I   ERROR - LOADING PROCESS TERMINATED **
INCORRECT UNIT # SPECIFIED ON LOAD STMT **

Explanation: The loading process stops immediately because the communication controller at the specified address does not match the model number specified on the LOAD statement.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Use the UNIT keyword on the LOAD definition statement for the loader to automatically pick up the model number of the communication controller. Resubmit the loader job.

IFL032I   WARNING - LOADING PROCESS CONTINUED **
DISK FUNCTION NOT SUPPORTED; DISK
KEYWORDS IGNORED **

Explanation: The loading process initiated from the host continues, but the disk functions requested cannot be performed because the communication controller specified does not support disk functions.

System Action: Loading of the communication controller is continued with a warning. If a subsequent load complete message is displayed, the communication controller is loaded and ready to run. However, the user requested disk functions are not supported by this communication controller.

Programmer Response: If you intend to have the disk functions supported, use the correct communication controller model for disk function support. If disk keywords were mistakenly specified on the LOAD statement, remove these keywords from the LOAD statement and resubmit the loader job.

IFL033I   ERROR - LOADING PROCESS TERMINATED **
DUPLICATE KEYWORD SPECIFIED ON LOAD STMT
**

Explanation: On the LOAD statement, the same keyword has been specified more than once.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Remove the keyword that is incorrectly specified more than once on the LOAD statement, and resubmit the loader job.

IFL034I   ERROR - LOADING PROCESS TERMINATED **
UNRECOGNIZED KEYWORD SPECIFIED ON LOAD
STMT **

Explanation: On the LOAD statement, one or more of the keywords specified cannot be recognized because they are either misspelled or invalid.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Remove the keywords from the LOAD statement and resubmit the loader job.

IFL035I   ERROR - LOADING PROCESS TERMINATED **
ATTEMPTED TO LOAD SUBSET LOAD MODULE IN
LOCAL COMM CTLR

Explanation: An attempt was made to load an NCP V4 Subset load module into a local communication controller.

System Action: The processing for this loader request ends. The loader utility continues with the next request, if any.

Programmer Response: Make sure that you are loading the correct load module into the correct communication controller.

IFL036I   ERROR - LOADING PROCESS TERMINATED **
ATTEMPTED TO LOAD SUBSET LOAD MODULE IN
UNSUPPORTED COMM CTLR **

Explanation: An attempt was made to load the NCP V4 Subset load module into a communication controller that does not support that type of load module.

System Action: The processing for this loader request ends. The loader utility continues with the next request, if any.

Programmer Response: Make sure that you are loading the correct load module into the correct communication controller.

IFL037I   ERROR - LOADING PROCESS TERMINATED **
INCORRECT UNIT # FOR COMM CTLR ON LOAD
CARD **

Explanation: The LOAD card specifies an incorrect model number for the communication controller being loaded.

System Action: The processing for this loader request ends. The loader utility continues with the next request, if any.

Programmer Response: Check the model number on the communication controller you are loading and make sure that it matches the number on your LOAD card.

Optionally, you can let the loader determine the model number at load time by coding the UNIT= operand on the LOAD card.

See *NCP, SSP, and EP Generation and Loading Guide* for more information about coding the LOAD card.

IFL038I   WARNING - LOADING PROCESS CONTINUED **
MOSS I/O ERROR ** AUTOIPL SWITCH NOT SAVED
ON DISK

Explanation: A MOSS software or hardware input or output error has been encountered in saving the AUTOIPL switch on the disk.

System Action: Loading of the communication controller from the host is continued with a warning. If a subsequent load complete message is displayed, the communication controller has been loaded with the requested load module and is ready to run. However, the AUTOIPL switch was not saved on the controller disk.

Programmer Response: If you want to have an AUTOIPL switch residing on the controller's disk, resubmit the job. If you resubmit the job and receive the same warning message, you can continue to operate your communication controller, but you should notify your IBM representative of your problem.

IFL039I WARNING - LOADING PROCESS CONTINUED ** MOSS I/O ERROR **

Explanation: The loading process continues, but there has been a MOSS input or output error.

System Action: Loading of the communication controller is continued with a warning.

Programmer Response: To make sure of proper operation of the communication controller, resubmit the job. If this error continues, notify your IBM representative.

IFL040I WARNING - LOADING PROCESS CONTINUED ** PROBABLE MOSS I/O ERROR ** LOAD MODULE/SWITCH MAY NOT BE SAVED

Explanation: Because of an unspecified error, it is impossible to make sure that the load module and the AUTOIPL switch have been saved.

System Action: Loading of the communication controller is continued with a warning. If a subsequent load complete message is displayed, the communication controller has been loaded with the requested load module and is ready to run. However, the load module and AUTOIPL switch may not have been saved on the controller disk.

Programmer Response: If you want to make sure that you have a backup load module and AUTOIPL switch residing on the communication controller's disk, resubmit the job. If you resubmit the job and receive the same warning message, you can continue to operate your communication controller without backup, but you should notify your IBM representative of your problem.

IFL043I ERROR - LOADING PROCESS TERMINATED ** POSSIBLE PROBLEM WITH NCP LOAD MODULE, RC=0000.

Explanation: The loading process stops immediately because a text record in the NCP loadmodule being loaded is larger than the blocksize of the NCP loadlib.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Check that the loadmodule being loaded was correctly built. Insure that no other application was using the NCP loadlib when the load was attempted. Resubmit the loader job.

IFL044I CSW=*xxxxxxxxxxxxxxxx*, PREVIOUS CCW=*xxxxxxxxxxxxxxxx*, RETRIES=*n*

Explanation: This message prints with message IFL004I to provide additional information for the problem diagnosis. CSW=*xxxxxxxxxxxxxxxx* provides the hexadecimal value of the channel status word and CCW=*xxxxxxxxxxxxxxxx* provides the hexadecimal value of the previous channel command word. *n* is the number of retries that occurred before this message was produced.

System Action: Loading of the communication controller stops immediately; the loader utility processes the next utility control statement, if any.

Programmer Response: See IFL004I message for more information.

IFL050I BINDER FUNCTION GETBUF FAILED WITH RETURN CODE = XX - LOADING PROCESS TERMINATED

Explanation: A request was made to BINDER to run the GETBUFF function. The request failed with the return code specified in the message.

System Action: Loading of the communication controller stops and the loader utility ends.

Programmer Response: Check the return code in the *DFSMS/MVS Program Management* manual and make the necessary corrections.

IFL051I BINDER FUNCTION STARTD FAILED WITH RETURN CODE = XX AND REASON CODE = XXXXXXXX LOADING PROCESS TERMINATED

Explanation: A request was made to BINDER to run the STARTD function. The request failed with the return code and reason code specified in the message.

System Action: Loading of the communication controller stops and the loader utility ends.

Programmer Response: Check the return code in the *DFSMS/MVS Program Management* manual and make the necessary corrections.

IFL052I BINDER FUNCTION CREATEW FAILED WITH RETURN CODE = XX AND REASON CODE = XXXXXXXX LOADING PROCESS TERMINATED

Explanation: A request was made to BINDER to run the CREATEW function. The request failed with the return code and reason code specified in the message.

System Action: Loading of the communication controller stops and the loader utility ends.

Programmer Response: Check the return code in the *DFSMS/MVS Program Management* manual and make the necessary corrections.

IFL053I BINDER FUNCTION INCLUDE FAILED WITH RETURN CODE = XX AND REASON CODE = XXXXXXXX LOADING PROCESS TERMINATED

Explanation: A request was made to BINDER to run the INCLUDE function. The request failed with the return code and reason code specified in the message.

System Action: Loading of the communication controller stops and the loader utility ends.

Programmer Response: Check the return code in the *DFSMS/MVS Program Management* manual and make the necessary corrections.

IFL054I   BINDER FUNCTION GETDATA FAILED WITH RETURN CODE = XX AND REASON CODE = XXXXXXXX LOADING PROCESS TERMINATED

Explanation: A request was made to BINDER to run the GETDATA function. The request failed with the return code and reason code specified in the message.

System Action: Loading of the communication controller stops and the loader utility ends.

Programmer Response: Check the return code in the *DFSMS/MVS Program Management* manual and make the necessary corrections.

IFL055I   BINDER FUNCTION FREEBUF FAILED WITH RETURN CODE = XX -LOADING REQUEST TERMI-NATED

Explanation: A request was made to BINDER to run the FREEBUF function. The request failed with the return code specified in the message.

System Action: Loading of the communication controller stops and the loader utility ends.

Programmer Response: Check the return code in the *DFSMS/MVS Program Management* manual and make the necessary corrections.

IFL500I   SYSUT1 NOT OPENED

Explanation: SYSUT1 could not be opened. The DD statement defining the data set was not included in the input stream.

System Action: The dynamic trace function stops immediately.

Programmer Response: Make sure that a DD statement for SYSUT1 is included in the input stream and that the parameters on the DD statement are correct. Resubmit the job.

IFL501A   REPLY WITH DESIRED FUNCTION OR 'END'

Explanation: The dynamic dump utility is requesting control statement input from the operator because there is no input stream or because a PAUSE statement was encountered in the input stream.

System Action: The utility waits for the operator's reply.

Operator Response: Enter a control statement. If all desired functions are complete, enter REPLY *xx*, END where *xx* represents the number of the message to which you are responding. If more control statements are in the input stream, enter REPLY *xx*, SYSIN.

IFL502I   THE FUNCTION COULD NOT BE PERFORMED

Explanation: A permanent input or output error was encountered while processing SYSUT1.

System Action: The utility immediately stops the job step with a USER 0001 abend code.

Programmer Response: Make sure that the DYNADMP keyword is specified on the appropriate NDF definition statement and that the unit allocated to

SYSUT1 is the type 1 channel adapter of the communication controller. Make sure that the network subchannel (NSC) and the emulation subchannel (ESC) are coded and correct.

IFL503I   FUNCTION COMPLETED - *nn*

Explanation: The function has been completed with the value indicated by *nn*.

System Action: The function stops immediately.

Programmer Response: If *nn* is 00, completion is normal and no response is necessary. If *nn* is 08, make sure that the control statements appear in the proper sequence. The function was not acceptable to NCP.

IFL504I   INVALID CONTROL STATEMENT

Explanation: A control statement was incorrectly specified.

System Action: The function stops immediately.

Programmer Response: Make sure that the control statement is valid and retry the function.

IFL505E   REPLY 'S' TO STOP TRACE

Explanation: To stop the dynamic dumping of trace table entries from the communication controller to the work data set, reply S to this message.

System Action: The dynamic dump utility will reissue this message if a response other than S is entered. S is the only response that will stop the transfer of trace blocks to the host module.

Programmer Response: Upon determining that enough trace data has been collected, reply S to this message.

IFL506I   STOP COMMAND ACKNOWLEDGED

Explanation: The dynamic dump utility has acknowledged the S response to message IFL505E.

System Action: The transfer of trace blocks to the host processor module of the dynamic dump utility has been stopped.

Programmer Response: No response is necessary.

IFL507I   FUNCTION INVALID OR NOT AVAILABLE

Explanation: The desired function was not available due to unavailable devices or was found invalid by the controller portion of the dynamic dump utility.

System Action: The function stops immediately.

Programmer Response: Make sure that the control statement is valid and that required devices are available; then retry the function.

IFL508I   **TRACE BLOCK** *nnn,nnn* **WRITTEN AT** *hh:mm:ss*

Explanation: Trace block number *nnn,nnn* was written to the work data set at time *hh:mm:ss* (hours:minutes:seconds).

System Action: All trace blocks are time-stamped before being written to the work data set. For the first trace block, for the last trace block, and for every 200th trace block in between, message IFL508I is sent to the host processor console.

Programmer Response: Refer to this message when printing the work data set. The PRINT facility permits selective printing according to time.

IFL509I   **INVALID PARM FIELD ON EXEC STATEMENT - DEFAULTS ASSUMED**

Explanation: An option specified in the PARM field of the EXEC statement was either misspelled or incorrectly specified.

System Action: Default values for the options are assumed and processing continues.

Programmer Response: See *NCP, SSP, and EP Diagnosis Guide* for information about the PARM field option as an aid to determining the error.

IFL510I   **NO TRACE BLOCKS SATISFY THE PRINT COMMAND**

Explanation: No trace blocks are found that were written to the work data set after the time specified (by START) in the PRINT control statement.

System Action: The dynamic dump utility does not print any trace blocks. If, however, there is data other than trace blocks on the work data set (for example storage dumps), this nontrace data will be printed.

Programmer Response: Refer to the IFL508I messages sent to the operator's console during the time the trace is taken. These will indicate the range of time-stamps associated with the trace blocks written to the work data set. From this information, derive a meaningful START=*time* to specify in the PRINT command.

IFL511I   **EP-DYNADUMP IS UNDER THE CONTROL OF ANOTHER HOST**

Explanation: The EP portion of the dynamic dump utility is busy handling the dynamic dump requests of another host processor. This message can also occur if an incorrect subchannel address is specified in the SYSUT1 statement.

System Action: Message IFL512A is issued.

Programmer Response: No response is necessary.

IFL512A   **REPLY 'YES' TO CONTINUE UNCONDITIONALLY OR 'NO' TO END**

Explanation: This message follows IFL511I and requires an operator response to indicate the utility action required. The EP dynamic dump utility can transfer dynamic dump data to only one host processor at a time. This means that if host processor B is currently conducting a dynamic dump session with the EP dynamic dump utility, then host processor A cannot

begin a session with the EP utility until either (1) host processor B relinquishes control of the utility by ending its dynamic dump session or (2) host processor A forces the utility to end its session with host processor B.

System Action: If the operator at host processor A replies YES, the dynamic dump utility in host processor A directs the EP dynamic dump utility to end its session with host processor B and to establish a dynamic dump session with host processor A. If the operator at host processor A replies NO, the dynamic dump request is canceled, and the dynamic dump session in progress (with host processor B) is allowed to continue.

Operator Response: Determine from the individuals making the dynamic dump requests the priority of those requests and then respond YES or NO as appropriate.

IFL513I   **UNCONDITIONAL CONTINUE REJECTED BY EP-DYNADUMP**

Explanation: After a YES response to an IFL512A message, the host portion of the dynamic dump utility was unsuccessful in attempting to seize control of the EP portion of the utility. (This message can also occur if an incorrect subchannel address is specified in the SYSUT1 statement.)

System Action: The host portion of the utility stops immediately with a dump.

Programmer Response: Make sure that the parameters on the SYSUT1 DD statement are correct and resubmit the job.

IFL514I   **EP-DYNADUMP FUNCTIONS TERMINATED BY OPERATOR**

Explanation: The operator replied NO to an IFL512A message. Consequently, the only dynamic dump commands that the operator can enter during the remainder of the current dynamic dump operation are formatting commands such as PRINT.

Operator Response: No response is necessary.

IFL515I   **EP-DYNADMP HAS NOT RESPONDED WITHIN THE LAST 3 MINUTES**

Explanation: The communication controller portion of the dynamic dump program has not responded within the past 3 minutes to the last input or output operation initiated by the host portion of the dynamic dump program.

System Action: The host portion of the program continues to wait for a response to the input or output operation. This message will be issued every 3 minutes until a response is received.

Programmer Response: Examine the nature of the last dynamic dump request. If the line being traced has little activity, 3 minutes without a response might be normal. If, on the other hand, the line has high activity, or if the last dynamic dump request was DY TABLE or DY STORAGE, then 3 minutes without a response is not normal. Consider canceling the host portion of the dynamic dump program. Examine the

assembly listing of the emulation program for possible errors or omissions.

IFL517I **MODE INCONSISTENCY, MOSS FILE EMPTY, SNA SENSE CODE 0809**

Explanation: The requested function cannot be performed because the MOSS file is empty.

System Action: Processing stops immediately.

Programmer Response: Make sure a data set is on the diskette before trying to run the dynamic dump utility.

IFL518I **INSUFFICIENT RESOURCE, UNABLE TO QUEUE SNA REQUEST, SNA SENSE CODE 0882**

Explanation: The receiver cannot act on the request because of a temporary lack of resources.

System Action: Processing stops immediately.

Programmer Response: Try running the dynamic dump later.

IFL519I **MOSS/CSP REQUEST NOT EXECUTABLE, MOSS DOWN OR DISK I/O ERROR, SNA SENSE CODE 081C**

Explanation: The request cannot be executed due to a permanent error in the receiver.

System Action: Processing stops immediately.

Programmer Response: Try running the dynamic dump later.

IFL520I **INVALID SENSE CODE** *class=sense.xxxx* **RECEIVED FROM EP**

Explanation: An invalid or undefined sense code was received from EP.

System Action: Processing stops immediately.

Programmer Response: See the appropriate principles of operation manual to determine the meaning and cause of the sense code.

IFL600I *xxxxxxxx* **NOT OPENED**

Explanation: The name data set *xxxxxxxx* (SYSUT2, SYSPRINT, or SYSIN) could not be opened. Either the DD statement defining the data set was not included in the input stream or a DCB parameter was found invalid.

System Action: The function stops immediately.

Programmer Response: Make sure that the DD statements for SYSUT2, SYSPRINT, and SYSIN are included in the input stream and that their parameters are correct. Resubmit the job.

IFU Messages

IFU000I **LOAD COMPLETE COMM CTLR -** *xxx*
LOADMOD=(*file name***)**

Explanation: The communication controller identified by address *xxx* was successfully loaded with the NCP load module indicated by *file name*.

System Action: The loaded utility processes the next utility control statement, if there is one.

Programmer Response: No response is necessary.

IFU001I **ERROR - LOADING PROCESS TERMINATED ** **CONTROL STATEMENT ERROR ****

Explanation: The LOAD utility control statement contained a syntax error. This message is issued if load parameters are continued to more than one statement.

System Action: The communication controller is not loaded and the loader utility processes the next utility control statement, if any.

Programmer Response: Correct the erroneous LOAD utility control statement and resubmit the job.

IFU002I **ERROR - LOADING PROCESS TERMINATED ****-MISSING KEYWORD-****

Explanation: The LOAD utility control statement is missing a required keyword parameter.

System Action: The loader utility processes the next utility control statement, if any.

Programmer Response: Correct the erroneous LOAD utility control statement and resubmit the job.

IFU003I **ERROR - LOADING PROCESS TERMINATED ** *xxx* **PERMANENT I/O ERROR (STATUS=***xxxx***, SENSE=***xx***)
****

Explanation: During the loading process, a permanent input or output error occurred in the communication controller identified by address *xxx*. STATUS=*xxxx* and SENSE=*xx* give the channel status and sense byte information associated with the input or output error.

System Action: The communication controller is not loaded and the loader utility processes the next utility control statement, if any.

Programmer Response: See *NCP and EP Reference Summary and Data Areas, Volume 2.*

IFU004I **ERROR - LOADING PROCESS TERMINATED ** **INITIAL-TEST DETECTED ERROR OR I/O TIMED OUT *COMM CTLR-***xxx*

Explanation: The initial test routine did not return control to the loader utility, or if message IFU011I precedes this message, the final ending status was not received from the loading process within the time allotted.

System Action: The communication controller is not loaded and the loader utility processes the next utility control statement, if any.

Programmer Response: If the message was issued as a result of an initial test-detected error, consult the communication controller operator panel for error codes. If an I/O time-out condition occurred, run an I/O trace of the load program and dump the communication controller.

If the error persists, save the trace output and dump, and notify your IBM representative for assistance.

IFU005I **ERROR - LOADING PROCESS TERMINATED ** - **INVALID COMM CTLR SYMBOLIC ADDRESS - ****

Explanation: The UNIT suboperand of the LOAD statement specifies an invalid symbolic address.

System Action: The communication controller is not loaded and the loader utility processes the next utility control statement, if any.

Programmer Response: Change the LOAD utility control statement and the associated ASSGN statement to a valid symbolic address and resubmit the job.

IFU006I **UTILITY END** *xx* **WAS THE HIGHEST SEVERITY CODE**

Explanation: The loader utility has processed all control statements in the input file. The severity codes are:

00	The loading process was completed successfully; all communication controllers that were to be loaded are now loaded.
04	The loading process for at least one of the communication controllers to be loaded generated a warning message. The communication controller was loaded.
08	The loading process for at least one of the communication controllers to be loaded generated a warning or error message. The communication controller was not loaded.
12	Because of a severe error, none of the communication controllers to be loaded were successfully loaded.

System Action: The loader job is completed.

Programmer Response: If the severity code is greater than 00, examine the message file for the appropriate messages. Correct the job control statements in error and resubmit the job. The resubmitted job does not need to specify loading communication controllers that were loaded successfully.

IFU007I   **ERROR - LOADING PROCESS TERMINATED ** (***file name***) UNRECOVERABLE I/O ERROR ***

Explanation: A permanent input or output error occurred when the loader utility attempted to read from the file specified by *file name*.

System Action: Loading of the communication controller ends and the loader utility processes the next utility control statement, if any.

Programmer Response: Make sure that LOADMOD specifies the correct file. If the correct file is already specified, resubmit the job. If the file name is DIAGFILE, use DIAG=NO to bypass the problem.

If the error persists, keep the program listings and notify your IBM representative.

IFU008I   **ERROR - LOADING PROCESS TERMINATED ** COMM CTLR DEVICE TYPE CONFLICT ***

Explanation: The specified device is not identified as a communication controller to the operating system.

System Action: The loader utility processes the next utility control statement, if any.

Programmer Response: Make sure that the address specified in the UNIT parameter of the LOAD utility control statement corresponds to the proper communication controller.

IFU010I   **LOAD FAILED COMM CTLR-*xxx* LOADMOD=(*file name*)**

Explanation: The loading of the communication controller indicated by *xxx* failed. This message is sent only to the operator.

System Action: The load utility processes the next utility control statement, if any.

Operator Response: Examine the SYSOUT output for messages defining the problem and respond accordingly.

IFU011I   **ENTERING INITIALIZATION-ENTRY POINT=*xxxxx***

Explanation: This message is intended as an aid to debugging problems encountered while attempting to load and initialize the NCP/EP. It can be used to determine whether the problem occurred during the load process or after control had passed to NCP/EP initialization. This message is issued to the console when control is passed to NCP/EP initialization. Therefore, if the message has not yet been received when a problem is encountered, then it is likely to be a loader problem; otherwise, it is likely to be an NCP/EP problem.

Programmer Response: No response is necessary.

IFU012D   **COMM CTLR - *xxx* ACTIVE *** REPLY TO CONTINUE (Y OR N)**

Explanation: An attempt has been made to load the xxx communication controller, which contains an active control program or a load that is already in progress over another channel.

System Action: The loader utility waits for the operator's reply.

Operator Response: If the communication controller is to be loaded, enter *Y*. This response causes the loader utility to continue to load for this communication controller. If the load is not to be continued, enter *N* to stop the load request immediately.

IFU013I   **COMM CTLR WAS ACTIVE - LOAD WAS CANCELED BY THE OPERATOR ***

Explanation: The communication controller was in an active state and the operator did not want to continue the load.

System Action: The loader utility processes the next utility control statement, if any.

Programmer Response: No response is necessary.

IFU018I   **DISABLED CHANNEL ADAPTER ENCOUNTERED - LOADING PROCESS TERMINATED**

Explanation: An attempt was made to load the communication controller over the channel adapter. This channel adapter is not enabled or available. This condition can occur either because the channel adapter has been manually disabled by the operator or because a load operation is in progress over another of the communication controller's channel adapters. (During the loading process, the loader temporarily disables all channel adapters except the one used for loading.)

System Action: The communication controller is not loaded over the present channel adapter, and the loader processes the next utility control statement, if any.

Programmer Response: If the channel adapter has been manually disabled, reenable it at the communication controller control panel, press the load button, and resubmit the load job. If the channel adapter has not been manually disabled, consult the system operator associated with the communication controller to determine communication controller availability.

IFU020I   **A RETURN CODE HAS BEEN RECEIVED WHICH IS NOT SUPPORTED - LOADING PROCESS TERMINATED**

Explanation: IFUEND has received a return code which it does not support.

System Action: The communication controller is not loaded over the present channel adapter, and the loader processes the next utility control statement, if any.

Programmer Response: Make sure that all applicable loader maintenance has been applied, and that the LINKEDIT is correct. If the problem persists, notify your IBM representative.

IFU021I   **UTILITY END *xx* WAS THE HIGHEST SEVERITY CODE**

Explanation: The loader utility has processed all control statements in the input file. The severity codes are:

00   The loading process was completed successfully; all communication controllers that were to be loaded are now loaded.

04 The loading process for at least one of the communication controllers to be loaded generated a warning or error message. Loading was completed.

08 The loading process for at least one of the communication controllers to be loaded has failed. The communication controller was not loaded.

12 Because of a severe error, none of the communication controllers to be loaded were successfully loaded.

System Action: The loader job is completed.

Programmer Response: If the severity code is greater than 00, examine the message file for the appropriate messages. Correct the job control statements in error and resubmit the job. The resubmitted job does not need to specify loading the communication controllers that have already loaded successfully.

IFU023I ERROR - LOADING PROCESS TERMINATED ** KEYWORD *xxxxxxxx*, IF SPECIFIED, MUST BE YES OR NO **

Explanation: The keyword indicated in the message was specified incorrectly.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: The keyword mentioned in the message text can be specified only as *YES* or *NO*. Correct the LOAD utility control statement and resubmit the loader job.

IFU024I WARNING - LOAD FROM DISK INITIATED ** SAVE=NO ASSUMED **

Explanation: The communication controller is loaded from disk, and the save option is ignored. SAVE=YES is not a valid keyword when load from disk is specified.

System Action: Loading of the communication controller is continued with a warning.

Programmer Response: If a subsequent load complete message is displayed, the communication controller is loaded and ready to run. No response is necessary.

IFU025I ERROR - LOADING PROCESS TERMINATED ** INVALID TO SPECIFY DIAGNOSTIC ROUTINE WITH THIS COMM CTLR **

Explanation: DIAG=Y6 or DIAG=Y8 is invalid for the type of communication controller specified.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: DIAG=Y6 or DIAG=Y8 is no longer supported. Eliminate the DIAG keyword on the LOAD utility control statement.

IFU026I ERROR - LOADING PROCESS TERMINATED ** INVALID KEYWORD SELECTIONS FOR COMM CTLR **

Explanation: Some of the keywords specified do not apply to the model of communication controller that is being loaded.

System Action: Loading of the communication controller stops immediately and the loader utility processes the next utility statement, if any.

Programmer Response: Disk keywords similar to SAVE or AUTOIPL are not valid for an IBM 3720 (Model 1) or 3725 Communication Controller. Remove the disk keywords specified on the LOAD utility control statement and resubmit the job.

IFU027I ERROR - LOADING PROCESS TERMINATED ** LOAD MODULE NOT AVAILABLE ON DISK **

Explanation: The load module requested by the user is not available on the disk.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Check the load module name specified on the LOAD utility control statement and see if it matches the load module name saved on disk. Also, check the communication controller disk to make sure that a load module has been saved. Make the necessary corrections on the LOAD utility control statement and resubmit the loader job.

IFU028I ERROR - LOADING PROCESS TERMINATED ** MOSS I/O ERROR ** LOAD MODULE NOT LOADED FROM DISK

Explanation: There has been a MOSS input or output error that has caused the loading process to fail.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Resubmit the job. If you receive this message again, notify your IBM representative.

IFU029I WARNING - LOADING PROCESS CONTINUED ** MOSS I/O ERROR ** LOAD MODULE AND AUTOIPL SWITCH NOT SAVED ON DISK

Explanation: A MOSS input or output error has been encountered while saving the load module and AUTOIPL switch on the communication controller's disk. The load process initiated from the host continues, but the load module and the AUTOIPL switch have not been saved on the disk.

System Action: Loading of the communication controller is continued with a warning. If a subsequent load complete message is displayed, the communication controller has been loaded with the requested load module and is ready to run. However, the load module and AUTOIPL switch were not saved on the communication controller disk due to a MOSS software or a hardware error.

Programmer Response: If you require a backup load module and AUTOIPL switch to reside on the communication controller's disk, the loading process for this communication controller must be reinitiated. If you reload the communication controller and receive this message again, you can continue to operate the communication controller, but you should notify your IBM representative.

IFU030I   **ERROR - LOADING PROCESS TERMINATED ** DISK FUNCTION NOT SUPPORTED ****

Explanation: A load from disk function has been requested for a communication controller model that does not support disk functions. The requested load cannot be performed because this communication controller does not support disk function.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: If the intent is to load from disk, make sure that you are using the right communication controller model for disk function support. If an error has been made in specifying the LOAD utility control statement, correct it and resubmit the loader job.

IFU031I   **ERROR - LOADING PROCESS TERMINATED ** INCORRECT UNIT # SPECIFIED ON LOAD STMT ****

Explanation: The communication controller at the specified address does not match the model number specified on the LOAD utility control statement.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Use the UNIT keyword on the LOAD utility control statement for the loader utility to automatically pick up the model number of the communication controller. Resubmit the loader job.

IFU032I   **WARNING - LOADING PROCESS CONTINUED ** DISK FUNCTION NOT SUPPORTED; DISK KEYWORDS IGNORED ****

Explanation: The loading process initiated from the host continues, but the disk functions requested cannot be performed because the communication controller specified does not support disk functions.

System Action: Loading of the communication controller is continued with a warning. If a subsequent load complete message is displayed, the communication controller is loaded and ready to run. However, the user requested disk functions are not supported by this communication controller.

Programmer Response: If the intent is to have the disk functions, use the correct communication controller model for disk function support. If disk keywords were mistakenly specified on the LOAD utility control statement, remove these keywords from the LOAD utility control statement and resubmit the loader job.

IFU033I   **ERROR - LOADING PROCESS TERMINATED ** DUPLICATE KEYWORD SPECIFIED ON LOAD STMT ****

Explanation: On the LOAD utility control statement, a keyword was specified more than once.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Remove the duplicate keyword from the LOAD utility control statement. Resubmit the loader job.

IFU034I   **ERROR - LOADING PROCESS TERMINATED ** UNRECOGNIZED KEYWORD SPECIFIED ON LOAD STMT ****

Explanation: The LOAD utility control statement specifies one or more misspelled or invalid keywords.

System Action: Loading of the communication controller stops immediately, and the loader utility processes the next utility statement, if any.

Programmer Response: Remove the keywords from the LOAD utility control statement and resubmit the loader job.

IFU038I   **WARNING - LOADING PROCESS CONTINUED ** MOSS I/O ERROR ** AUTOIPL SWITCH NOT SAVED ON DISK**

Explanation: A MOSS input or output error has been encountered in saving the AUTOIPL switch.

System Action: The loading process initiated from the host continues with a warning, but the AUTOIPL switch will not be saved because of a MOSS input or output error.

If a subsequent load complete message is displayed, the communication controller has been loaded with the requested load module and is ready to run. However, the AUTOIPL switch was not saved on the communication controller disk due to a MOSS software or a hardware error.

Programmer Response: If you want to have an AUTOIPL switch residing on the communication controller's disk, the loading process for this communication controller must be reinitiated. If you reload the communication controller and receive this message again, you can continue to operate the communication controller, but you should notify your IBM representative.

IFU039D   **WARNING - LOADING PROCESS CONTINUED ** MOSS I/O ERROR****

Explanation: The loading process initiated from the host continues, but a MOSS input or output error has been encountered involving the disk functions of the communication controller.

System Action: Loading of the communication controller is continued with a warning.

Programmer Response: No response is necessary.

IFU040I   WARNING - LOADING PROCESS CONTINUED **
PROBABLE MOSS I/O ERROR ** LOAD
MODULE/SWITCH MAY NOT BE SAVED

Explanation: Because of an unspecified error, it is
impossible to make sure that either the load module or
the AUTOIPL switch has been saved.

System Action: Loading of the communication con-
troller is continued with a warning. If a subsequent
load complete message is displayed, the communi-
cation controller has been loaded with the requested
load module and is ready to run. However, the load
module and AUTOIPL switch were not saved on the
communication controller disk due to a MOSS software
or a hardware error.

Programmer Response: If you require a backup load
module and AUTOIPL switch to reside on the commu-
nication controller's disk, the loading process for this
communication controller must be reinitiated. If you
reload the communication controller and receive this
message again, you can continue to operate the com-
munication controller, but you should notify your IBM
representative.

IFU041I   ERROR - LOADING PROCESS TERMINATED **
xxxxxxx COULD NOT BE OPENED **

Explanation: The label xxxxxxx was used to open
the NCP load module and the file could not be opened.

System Action: The communication controller is not
loaded and the loader utility processes the next utility
statement, if any.

Programmer Response: Make sure that the DLBL
statement is correct and that the file exists. If this is
correct, resubmit the job. If the error persists, save the
trace output and dump, and notify your IBM represen-
tative.

IFU042I   LOAD OF xxxxxxx PHASES FAILED ** LOADING
SEQUENTIAL DATA SET **

Explanation: The loader utility tried to load the
xxxxxxx phases into the GETVIS area. Either the
phases were not found in the libraries specified in the
LIBDEF statement, or there was insufficient GETVIS
area to accommodate the phases.

System Action: The loader uses xxxxxxx as a label
and tries to load the file the label defines.

Programmer Response: Make sure that the LIBDEF
statement defines the library where the phases exist.
Make sure there is enough GETVIS area available to
the loader utility to accommodate the phases. If you
punched the phases to a sequential data set and want
to load the sequential data set, this message can be
ignored.

IFU043I   ERROR - LOADING PROCESS TERMINATED **
PROGRAM FAILURE IN COMM CTLR **

Explanation: The communication controller module of
the loader utility encountered a software or hardware
error in the communication controller. This message is
issued after the following occurred:

1. The host portion of the loader initiated an input or
   output operation.

2. The communication controller portion of the loader
   did not respond within a given interval (usually 28
   seconds).

System Action: The communication controller is not
loaded and the loader utility processes the next utility
statement, if any.

Programmer Response: Notify your IBM represen-
tative.

IFU200I   LOAD MAP SORT UNSUCCESSFUL, RC=xx,
SORTED LOAD MAP WILL NOT BE PRINTED

Explanation: The dump formatter has called the VSE
Sort/Merge program, and that program was unable to
successfully complete its attempt to sort the load map.
The Sort/Merge program returns a code of 16.

System Action: The sorted load map is not printed,
and execution continues.

Programmer Response: Notify your IBM represen-
tative.

IFU201I   INDEX SORT UNSUCCESSFUL, RC=xx, INDEX TO
DUMP CONTENTS WILL NOT BE PRINTED

Explanation: The dump formatter has called the VSE
Sort/Merge program, and that program was unable to
successfully complete its attempt to sort the index.
The Sort/Merge program returns a code of 16.

System Action: The index to dump contents is not
printed, and execution continues.

Programmer Response: Notify your IBM represen-
tative.

IFU202I   *xxxxxx* NOT ASSIGNED, SORTED LOAD MAP WILL
NOT BE PRINTED

Explanation: The LUB referred to by *xxxxxx* was not
assigned to a device.

System Action: The dump formatter does not print
the sorted load map.

Programmer Response: Assign the LUB to a device,
and resubmit the job.

IFU203I   *xxxxxx* NOT ASSIGNED, INDEX WILL NOT BE
PRINTED

Explanation: The LUB referred to by *xxxxxx* was not
assigned to a device.

System Action: The dump formatter does not print
the index to dump contents.

Programmer Response: Assign the LUB to a device,
and resubmit the job.

IFU500I   SYS011 NOT OPENED

Explanation: SYS011 could not be opened. The
ASSGN statement defining the communication con-
troller was not included in the input stream.

System Action: The dynamic trace function ends.

Programmer Response: Make sure that an ASSGN
STATEMENT for SYS011 is included in the input
stream and that the parameters on the statement are
correct. Resubmit the job.

IFU501A **REPLY WITH DESIRED FUNCTION OR 'END'**

Explanation: The dynamic dump utility is requesting control statement input from the operator because there is not an input stream or because a PAUSE definition statement was encountered in the input stream.

System Action: The utility waits for the operator's reply.

Operator Response: Enter a control statement. If all desired functions are complete, enter END. If more control statements are in the input stream, enter SYSIN.

IFU502I **THE FUNCTION COULD NOT BE PERFORMED**

Explanation: A permanent input or output error was encountered while processing SYS011.

System Action: The utility immediately stops the job step with a dump.

Programmer Response: Make sure that the DYNADMP keyword is specified on the appropriate NDF definition statement and that the unit allocated to SYS011 is the channel adapter of the communication controller.

IFU503I **FUNCTION COMPLETED -** *nn*

Explanation: The function has been completed with the value indicated by *nn.*

System Action: The function ends.

Programmer Response: If *nn* is 08, make sure that the control statements appear in the proper sequence. The function was not acceptable to NCP. If *nn* is 00, completion is normal and no action is required.

IFU504I **INVALID CONTROL STATEMENT**

Explanation: A control statement was incorrectly specified.

System Action: The function ends.

Programmer Response: Make sure that the control statement is valid and retry the function.

IFU505I **OC EXIT TO FORCE STOP**

Explanation: A dynamic trace dump has been requested. The dump can be stopped by establishing operator communications.

System Action: The dynamic dump ends when operator communication is established.

Operator Response: Upon determining that enough trace information has been dumped, establish operator communication by entering "MSG F *x*" in reply to the attention routine. This action ends the dynamic dump when the next trace block is received by the host.

IFU506I **FORCE STOP ACKNOWLEDGED**

Explanation: The dynamic dump utility has received the STOP indication.

System Action: The utility stops the dump.

Programmer Response: No response is necessary.

IFU507I **FUNCTION INVALID OR NOT AVAILABLE**

Explanation: The desired function was not available due to an unavailable device or was found invalid by the communication controller portion of the dynamic dump utility.

System Action: The function ends.

Programmer Response: Make sure that the control statement is valid and that required devices are available; retry the function.

IFU508I **TRACE BLOCK** *nnn,nnn* **WRITTEN AT** *hh:mm:ss*

Explanation: Trace block number *nnn,nnn* was written to the work file at time *hh:mm:ss:* (hours:minutes:seconds).

System Action: All trace blocks are time-stamped before being written to the work file. For the first trace block, for the last trace block, and for every 200th trace block in between, this message is sent to the host- processor console.

Programmer Response: The PRINT facility permits selective printing according to time.

See the IFU508I messages when printing the work file.

IFU510I **NO TRACE BLOCKS SATISFY THE PRINT COMMAND**

Explanation: No trace blocks were found written to the work file after the time specified (START) in the PRINT control statement.

System Action: The dynamic dump utility does not print any trace blocks. If, however, data other than trace blocks is on the work file (for example, storage dumps), this nontrace data will be printed.

Programmer Response: See the IFU508I messages sent to the operator's console during the time the trace was taken. These messages will indicate the range of timestamps associated with the trace blocks written to the work file. From this information, derive a meaningful START time to specify in the PRINT command.

IFU511I **EP-DYNADUMP IS UNDER THE CONTROL OF ANOTHER HOST**

Explanation: The EP portion of the dynamic dump utility is busy handling the dynamic dump requests of another host processor. (This message can also occur if an incorrect subchannel address is specified in the SYS011 statement.)

System Action: Message IFU512A is issued.

Programmer Response: No response is necessary.

IFU512A **REPLY 'YES' TO CONTINUE UNCONDITIONALLY OR 'NO' TO END**

Explanation: This message follows IFU511I and requires an operator response to indicate the utility action required. The EP dynamic dump utility can transfer dynamic dump data to only one host processor at a time. This means that if host processor B is currently conducting a dynamic dump session with the EP dynamic dump utility, then host processor A cannot begin a session with the EP utility until (1) host processor B relinquishes control of the utility by ending

its dynamic dump session or (2) host processor A forces the utility to end its session with host processor B.

System Action: If the operator at host processor A replies YES, the dynamic dump utility in host processor A directs the EP dynamic dump utility to end its session with host processor B and to establish a dynamic dump session with host processor A. If the operator at host processor A replies NO, the dynamic dump request is canceled and the dynamic dump session in progress (with host processor B) is allowed to continue.

Operator Response: Determine from the individuals making the dynamic dump requests the priority of those requests and then respond YES or NO as appropriate.

IFU513I   UNCONDITIONAL CONTINUE REJECTED BY EP-DYNADMP

Explanation: After a YES response to an IFU512A message, the host portion of the dynamic dump utility was unsuccessful in attempting to seize control of the EP portion of the utility.

System Action: The host portion of the utility is abnormally ended with a dump.

Programmer Response: Make sure that the parameters on the SYS011 statement are correct and resubmit the job.

IFU514I   EP-DYNADUMP FUNCTIONS TERMINATED BY OPERATOR

Explanation: The operator replied NO to an IFU512A message. Consequently, the only dynamic dump commands that the operator may enter during the remainder of the current dynamic dump operation are formatting commands such as PRINT.

Programmer Response: No response is necessary.

IFU515I   EP-DYNADUMP HAS NOT RESPONDED WITHIN THE LAST 3 MINUTES

Explanation: The communication controller portion of the dynamic dump program has not responded within the past 3 minutes to the last input or output operation initiated by the host portion of the dynamic dump program.

System Action: The host portion of the program continues to wait for a response to the input or output operation. This message will be issued every 3 minutes until a response is received.

Programmer Response: Examine the nature of the last dynamic dump request. If the line being traced has little activity, 3 minutes without a response may be normal. If, on the other hand, the line presumably has high activity, or if the last dynamic dump request was DY TABLE or DY STORAGE, then 3 minutes without a response is unreasonable. Therefore, consider canceling the host portion of the dynamic dump

program, and examine the assembler listing of the emulation program for possible errors or omissions.

IFU517I   MODE INCONSISTENCY, MOSS FILE EMPTY, SNA SENSE CODE 0809

Explanation: The requested function cannot be performed because the MOSS file is empty.

System Action: Processing ends.

Programmer Response: Make sure a data set is on the diskette before trying to run the dynamic dump utility.

Sense Code Definition: Mode inconsistency: The requested function cannot be performed in the present state of the receiver.

IFU518I   INSUFFICIENT RESOURCE, UNABLE TO QUEUE SNA REQUEST, SNA SENSE CODE 0882

Explanation: The receiver cannot act on the request because of a temporary lack of resources.

System Action: Processing ends.

Programmer Response: Try running the dynamic dump later.

Sense Code Definition: Insufficient resource: Receiver cannot act on the request because of a temporary lack of resources.

IFU519I   MOSS/CSP REQUEST NOT EXECUTABLE, MOSS DOWN OR DISK I/O ERROR, SNA SENSE CODE 081C

Explanation: The request cannot be executed due to a permanent error in the receiver.

System Action: Processing ends.

Programmer Response: Try running the dynamic dump later.

Sense Code Definition: Request not executable: The requested function cannot be executed because of a permanent error condition in the receiver.

IFU520I   INVALID SENSE CODE *class=sense.xxxx* **RECEIVED FROM EP**

Explanation: An invalid or undefined sense code is received from EP.

System Action: Processing ends.

Programmer Response: See the appropriate principles of operation manual to determine the meaning and cause of the sense code.

IFU600I   SYS010   NOT OPENED

Explanation: The named file, SYS010, could not be opened. The ASSGN statement specified "ignore."

System Action: The function ends.

Programmer Response: Make sure that the ASSGN statement is included in the input stream and that its parameters are correct. Resubmit the job.

IFU999I   **SYS011 DEVICE TYPE IS INVALID**

Explanation: The device assigned to SYS011 is not a communication controller.

System Action: The dynamic dump utility ends.

Programmer Response: Make sure that the device assigned to SYS011 is a communication controller. Resubmit the job.

IFV Messages

IFV001I **LOADING PROCESS TERMINATED ** I/O ERROR WITH COMM CTLR**

Explanation: A permanent input or output error occurred in the communication controller during loading. The loading process was ended.

System Action: The loading of the communication controller ends. The loader utility processes the next utility statement, if any.

Programmer Response: Check the communication controller and channel hardware for possible problems, or examine and change the FILEDEFs for correct specification.

IFV100I **CUU PARAMETER NOT FOUND**

Explanation: CUU must be specified on the IFLREAD command.

System Action: The job stops immediately.

Programmer Response: Correct the parameters of the IFLREAD command.

IFV200I **VIRTUAL STORAGE CAPACITY EXCEEDED, LOAD MAP WILL NOT BE PRINTED**

Explanation: This VM-only message results from a lack of sufficient virtual storage to sort the load map.

System Action: Processing continues.

Programmer Response: Increase the amount of virtual storage.

IFV201I **VIRTUAL STORAGE CAPACITY EXCEEDED, INDEX TO DUMP CONTENTS WILL NOT BE PRINTED**

Explanation: This VM-only message results from a lack of sufficient virtual storage to sort the index of dump contents.

System Action: Processing continues.

Programmer Response: Increase the amount of virtual storage.

IFV202I **INDEX FILE ERROR NNN ON DDNAME DURING SORT**

Explanation: The indicated error code of this VM-only message was returned from an OS READ or GET macro.

System Action: The normal output of the file being sorted will not be printed, and processing continues.

Programmer Response: See the text for message DMS120S in the appropriate VM system messages manual to determine the meaning of the error code, and take the appropriate action.

IFV203I **OUTPUT FILE ERROR NNN ON DDNAME DURING SORT**

Explanation: The indicated error code of this VM-only message was returned from an OS WRITE or PUT macro.

System Action: The normal output of the file being sorted will not be printed, and processing continues.

Programmer Response: See the text for message DMS120S in the appropriate VM system messages manual to determine the meaning of the error code, and take the appropriate action.

IFV500I **SYSUT1 NOT OPENED**

Explanation: SYSUT1 (CUU) could not be opened.

System Action: The dynamic trace stops immediately.

Programmer Response: Check the parameters of the IFLSVEP command for an error and resubmit the job.

IFV501A **REPLY WITH DESIRED FUNCTION OR 'END'**

Explanation: The dynamic dump utility is requesting control statement input from the operator because there is no input stream or because a PAUSE statement was encountered in the input stream.

System Action: The utility waits for the operator's reply.

Operator Response: Enter a control statement. If all needed functions are complete, enter END. If more control statements are in the input stream, enter SYSIN.

IFV502I **THE FUNCTION COULD NOT BE PERFORMED**

Explanation: A permanent input or output error was encountered while processing the CUU. This error could also be caused by specifying the wrong channel adapter number in the option. This error could be received when the wrong channel adapter number has been specified in the IFLSEP option statement.

System Action: The utility immediately stops the job step with a USER 001 abend code.

Programmer Response: Make sure that the DYNADMP keyword is specified on the appropriate NDF definition statement and that the emulator subchannel is coded and is correct. Also make sure that the CUU address value specified on the IFLSVEP command is the same as the emulator subchannel address specified in the BUILD definition statement. In VM, make sure that the device has been attached properly.

IFV503I   **FUNCTION COMPLETED -** *nn*

Explanation: The function has been completed with the value indicated by *nn*.

System Action: The function stops immediately.

Programmer Response: If *nn* is 08, make sure that the control statements appear in the proper sequence. The function could not be accepted by NCP. If *nn* is 00, completion is normal and no action is necessary.

IFV504I   **INVALID CONTROL STATEMENT**

Explanation: A control statement was incorrectly specified.

System Action: The function stops immediately.

Programmer Response: Make sure that the control statement is valid and rerun the job.

IFV505D   **REPLY 's' TO STOP TRACE OR 'c' TO CONTINUE**

Explanation: System activity has been interrupted by an attention interrupt.

Programmer Response: Enter S to stop line or SIT trace transmission. Enter C to resume program activity and trace transmission.

IFV506I   **STOP COMMAND ACKNOWLEDGED**

Explanation: The dynamic dump utility has acknowledged the S response to message IFV505D.

System Action: The transfer of trace blocks to the host processor module of the dynamic dump utility has been stopped.

Programmer Response: No response is necessary.

IFV507I   **FUNCTION INVALID OR NOT AVAILABLE**

Explanation: The desired function was not available due to unavailable devices or was found invalid by the communication controller portion of the dynamic dump utility.

System Action: The function stops immediately.

Programmer Response: Make sure that the control statement is valid and that required devices are available. Retry the function.

IFV508I   **TRACE BLOCK** *nnn,nnn* **WRITTEN AT** *hh:mm:ss*

Explanation: Trace block number *nnn,nnn* was written to the work data set at time *hh:mm:ss* (hours:minutes:seconds).

System Action: All trace blocks are time-stamped before being written to the work data set. For the first trace block, for the last trace block, and for every 200th trace block, message IFV508I is sent to the host processor console.

Programmer Response: Refer to the IFV508I messages when printing the work data set. The PRINT facility permits selective printing according to time.

IFV509I   **INVALID VALUE FOR LINE COUNT—DEFAULTS ASSUMED**

Explanation: A value other than decimal 10 to 99 was specified as a parameter when IFLSVEP was invoked.

System Action: The value of line count is set to the default of 55.

Programmer Response: No response is necessary.

IFV510I   **NO TRACE BLOCKS SATISFY THE PRINT COMMAND**

Explanation: No trace blocks are found that were written to the work data set after the time specified (by START) in the PRINT control statement.

System Action: The dynamic dump utility does not print any trace blocks. However, if data other than trace blocks is on the work data set (storage dumps for example), then this nontrace data will be printed.

Programmer Response: Refer to the IFV508I messages sent to the operator's console during the time the trace is taken. These will indicate the range of timestamps associated with the trace blocks written to the work data set. From this information, you can determine a meaningful START=*time* to specify in the PRINT command.

IFV511I   **UNIT NAME PARAMETER NOT FOUND**

Explanation: CUU value was not specified on the IFLSVEP command for the dynamic dump.

System Action: The dynamic dump utility stops immediately.

Programmer Response: Make sure that these values appear on the IFLSVEP command.

IFV517I   **MODE INCONSISTENCY, MOSS FILE EMPTY, SNA SENSE CODE 0809**

Explanation: The requested function cannot be performed because the MOSS file is empty.

System Action: Processing stops immediately.

Programmer Response: Make sure a data set is on the diskette before trying to run the dynamic dump utility.

Sense Code Definition: Mode inconsistency: The requested function cannot be performed in the present state of the receiver.

IFV518I   **INSUFFICIENT RESOURCE, UNABLE TO QUEUE SNA REQUEST, SNA SENSE CODE 0882**

Explanation: The receiver cannot act on the request because of a temporary lack of resources.

System Action: Processing stops immediately.

Programmer Response: Try running the dynamic dump later.

Sense Code Definition: Insufficient resource: The receiver cannot act on the request because of a temporary lack of resources.

IFV519I **MOSS/CSP REQUEST NOT EXECUTABLE, MOSS DOWN OR DISK I/O ERROR, SNA SENSE CODE 081C**

Explanation: The request cannot be executed due to a permanent error in the receiver.

System Action: Processing stops immediately.

Programmer Response: Try running the dynamic dump later.

Sense Code Definition: Request not executable: The requested function cannot be executed because of a permanent error condition in the receiver.

IFV520I **INVALID SENSE CODE** *class=sense.xxxx* **RECEIVED FROM EP**

Explanation: An invalid or undefined sense code (*xxxx*) was received from EP.

System Action: Processing stops immediately.

Programmer Response: See the appropriate principles of operation manual to determine the meaning and cause of the sense code.

IFV521I **ENTER ATTENTION INTERRUPT TO STOP TRACE**

Explanation: The utility is running the trace.

Programmer Response: Cause an attention interrupt to stop the trace. Do this by pressing the Enter key if you have a 3270 terminal.

IFV522I **I/O OPERATION HAS EXCEEDED 12 MINUTE TIMEOUT. THE DYNADUMP COMMAND HAS BEEN CANCELLED**

Explanation: A problem exists that prevents the completion of an input or output operation.

System Action: The dynamic dump utility is canceled.

Programmer Response: Correct the input or output problem.

IFV523I **INVALID VALUE FOR CONTROLLER CUU**

Explanation: CUU should be a 3-digit hexadecimal value.

System Action: The dynamic dump utility stops immediately.

Programmer Response: Make sure that the communication controller parameter specified on the IFLSVEP command is 3 hexadecimal digits.

IFW Messages

IFW100D   COMM CTLR – *xxx* ACTIVE ** REPLY TO CONTINUE (Y OR N)

> **Explanation:** An attempt was made to dump the communication controller indicated by *xxx*, but this communication controller is currently executing a program.
>
> **System Action:** The operator's reply is awaited.
>
> **Operator Response:** If you wish to dump the communication controller (and thereby immediately stop the execution of its program), respond *Y* to this message. Otherwise, respond *N* or cancel the job.

IFW101I   COMM CTLR – *xxx* HAS BEEN DUMPED SUCCESSFULLY

> **Explanation:** The contents of the communication controller, whose unit address is *xxx*, have been successfully copied to the work data set or file (SYSUT2 in OS/VS and VM or SYS008 in VSE).
>
> **System Action:** The dump utility program interprets the dump control statements and produces the requested outputs.
>
> **Programmer Response:** No response is necessary.

IFW102I   COMM CTLR – *xxx* HAS BEEN PARTIALLY DUMPED

> **Explanation:** An input or output error has occurred and only part of the storage contents of the communication controller could be copied to the work data set or file (SYSUT2 in OS/VS and VM or SYS008 in VSE). *xxx* represents the unit address of the communication controller.
>
> **System Action:** The dump utility interprets the dump control statements and produces as much of the requested output as it can.
>
> **Programmer Response:** No response is necessary.
>
> **Severity Code:** 8 (VSE only). Serious DASD input/output errors were detected.

IFW103I   THE COMM CTLR COULD NOT BE DUMPED

> **Explanation:** An error has occurred, and none of the contents of the communication controller could be copied to the work data set or file.
>
> **System Action:** The dump job stops immediately.
>
> **Programmer Response:** This message is preceded by another dump message that describes the particular problem that has arisen. Consult it for problem determination.
>
> **Severity Code:** 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW104I   COMM CTLR – *xxx* ACTIVE ** OPERATOR CANCELED DUMP

> **Explanation:** Message IFW100D was issued, and the operator responded *N*. *xxx* represents the unit address of the communication controller.
>
> **System Action:** The dump job stops immediately.
>
> **Programmer Response:** No response is necessary.

IFW105I   LOAD OR DUMP IN PROGRESS ACROSS ANOTHER CHANNEL - DUMPING PROCESS TERMINATED

> **Explanation:** The communication controller is actively loading or dumping across another channel.
>
> **System Action:** The dump job stops immediately.
>
> **Programmer Response:** No response is necessary.

IFW106D   COMM CTLR - *xxxx* PREVIOUSLY DUMPED

> **Explanation:** The communication controller whose unit address is *xxxx* has been dumped.
>
> **System Action:** The CLDP is now resident in the controller and low storage will not be present in this dump.
>
> **Programmer Response:** None

IFW110I   PERMANENT I/O ERROR WITH *xxxxxxxx*

> **Explanation:** A permanent input or output error has occurred in communication with the device referred to by *xxxxxxxx*.
>
> **System Action:** Message IFW102I or IFW103I will be issued.
>
> **Programmer Response:** Resubmit the job. A recurrence of the problem indicates that a hardware problem exists.
>
> **Severity Code:** 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW111I   *xxxxxxxx* COULD NOT BE OPENED

> **Explanation:** The data set referred to by *xxxxxxxx* could not be opened.
>
> **System Action:** Message IFW103I is issued, and the job stops immediately.
>
> **Programmer Response:** Correct the DD statement indicated by *xxxxxxxx* and resubmit the job.
>
> **Severity Code:** 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW112I   *xxxxxxxx* **REFERS TO AN INVALID DEVICE**

Explanation: (1) If *xxxxxxxx* is intended to denote the dump program's work data set, *xxxxxxxx* refers to a device that is not a direct-access storage device; or (2) if *xxxxxxxx* is intended to denote the communication controller, *xxxxxxxx* refers to a device that is not a communication controller.

In VSE, make sure that SYS007 is assigned to the communication controller and SYS008 is assigned to the dump work file. Reversing these assignments would cause this message to be issued.

System Action: Message IFW103I is issued, and the dump job stops immediately.

Programmer Response: Correct the error and resubmit the job.

Severity Code: 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW113I   *xxxxxx* **WAS NOT ASSIGNED**

Explanation: This is a VSE-only message. The LUB referred to by *xxxxxx* was not assigned to a device.

System Action: Message IFW103I is issued, and the dump job stops immediately.

Programmer Response: Make sure that SYS007 is assigned to your communication controller and that SYS008 is assigned to your dump work file. Then resubmit the job.

Severity Code: 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW114I   **PERMANENT I/O ERROR WITH (***ddname***)**
(CCW=*xxxxxxxxxxxxxxxx***, STATUS=***xxxx***,SENSE=***xxxx***)**

Explanation: An input or output error occurred on the channel, STATUS=*xxxx* and SENSE=*xxxx* give the channel status and sense byte information associated with the I/O error.

System Action: Dumping of the communication controller stops immediately.

Programmer Response: Use the data supplied in the message to determine the cause of the error.

See *NCP and EP Reference Summary and Data Areas*, Volume 2, for information on channel status and sense indications.

Severity Code: 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW200I   *xxxxxxxx* **COULD NOT BE OPENED**

Explanation: The data set referred to by *xxxxxxxx* could not be opened.

System Action: The job stops immediately.

Programmer Response: Correct the DD statement indicated by *xxxxxxxx* and resubmit the job.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW201I   **INVALID CONTROL STATEMENT; DEFAULT TAKEN**

Explanation: The dump statement contains an error.

System Action: The dump utility provides a formatted dump of the entire contents of the communication controller.

Programmer Response: If the formatted dump does not provide sufficient information, correct the dump statement and resubmit the job.

IFW202I   **THE COMM CTLR DOES NOT CONTAIN AN NCP – NCP CONTROL BLOCKS WILL NOT BE FORMATTED**

Explanation: FORMAT=Y was specified on the DUMP control statement, but the communication controller does not contain an NCP. Consequently, the dump listing does not provide NCP control blocks.

System Action: NCP control blocks are not formatted.

Programmer Response: No response is necessary.

Severity Code: 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW203I   *xxxxxxxx* **IS EMPTY OR INVALID**

Explanation: The DASD data set or file referred to by *xxxxxxxx* does not contain a legitimate copy of the contents of a communication controller. This situation will arise when one of the following has happened:

- You have failed to run step 1 of the dump program.
- You have run step 1 correctly; but in coding JCL for step 2, you have specified a DASD data set or file other than the one used in step 1.
- You have a partial or incomplete dump in the DASD data set being formatted.

System Action: The dump job stops immediately.

Programmer Response: Correct the JCL so that *xxxxxxxx* refers to the DASD data set or file that contains a copy of the storage contents of the communication controller to be dumped. If such a DASD data set or file does not exist, run step 1 of the dump program to produce one.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW205I   **CONTROL STATEMENT MISSING; DEFAULT TAKEN**

Explanation: No DUMP control statement was provided.

System Action: A formatted dump of the entire storage is produced.

Programmer Response: No response is necessary.

IFW206I   *xxxxxxxx* **REFERS TO AN INVALID DEVICE**

Explanation: *xxxxxxxx* refers to a device that is not a direct-access storage device.

System Action: The dump job stops immediately.

Programmer Response: Correct the error and resubmit the job.

Severity Code: 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW207I   **SYS008 WAS NOT ASSIGNED**

Explanation: This is a VSE-only message. The LUB referred to by SYS008 was not assigned to a device.

System Action: The dump job stops immediately.

Programmer Response: Make sure that SYS008 is assigned to the dump work file (the *same* one used by step 1 of the dump program) and then resubmit the job.

Severity Code: 8 (VSE only). An IBM 37xx input/output error was detected. A partial dump is produced.

IFW208I   **NCP RVT IS BAD – FORMATTING OF THE NCP CONTROL BLOCKS COULD NOT BE CONTINUED**

Explanation: FORMAT=Y was specified on the DUMP control statement, indicating that NCP control blocks were to be formatted. However, a conflict was detected when the dump utility attempted to format the NCP resource vector table, preventing completion of the control block formatting.

System Action: The NCP control blocks are not formatted.

Programmer Response: No response is necessary.

Severity Code: 8 (VSE only). An IBM 37xx input/output error was detected. A partial dump is produced.

IFW209I   **THE PARM FIELD ON THE EXEC CARD IS INVALID – IT IS IGNORED**

Explanation: The syntax of the LINECOUNT parameter is incorrect.

System Action: The incorrect parameter is ignored; a 55 lines-per-page dump is produced.

Programmer Response: Correct the LINECOUNT parameter if the default value of 55 is not acceptable.

IFW210I   **THE COMM CTLR DOES NOT CONTAIN AN NCP – NCP BUFFER POOL WILL NOT BE FORMATTED**

Explanation: BUF=Y is specified on the DUMP control statement, but the program being dumped is not an NCP.

System Action: A dump is produced that does not contain a formatted buffer pool.

Programmer Response: No response is necessary.

Severity Code: 8 (VSE only). An IBM 37xx input/output error was detected. A partial dump is produced.

IFW212I   **POSSIBLE ERROR WITH DUMP DATASET, FORMATTING TERMINATED, CODE =** *x*

Explanation: The formatter detected either a control block size of 0 or one that was larger than 256 bytes, or a control block address that was one of the following:

- Less than or equal to zero
- Within the address range of the buffer pool
- Outside the range of communication controller storage.

A code value of 1 indicates a size error; 2 indicates an address error.

System Action: Formatting of the control blocks is halted. Formatter will print the complete hexadecimal dump, plus the formatted buffers if requested, and the Branch Trace Table if it exists.

Programmer Response: Determine if the data set is in error.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW213I   **NO TRACE DATA, NO DATA FORMATTED**

Explanation: The trace table for either the dispatcher, channel adapter, or address trace was empty. This message appears after the title of the trace table which is empty.

System Action: Processing continues.

Programmer Response: No response is necessary.

IFW214I   **EMPTY** *xxxxxxxx* **DISPATCH QUEUE**

Explanation: The queue in the Dispatch Priority Table was empty. *xxxxxxxx* is the name of the queue (for example, UNCONDITIONAL, CONDITIONAL, or NORMAL).

System Action: Processing continues.

Programmer Response: No response is necessary.

IFW215I   **FIRST WORD OF CONTROL STATEMENT MUST BE "DUMP"; DUMP WILL NOT BE PRODUCED**

Explanation: An attempt has been made to invoke the dump formatter more than once, but the DUMP keyword was not the first word of a control statement. This may have been caused by a control statement continuation error.

System Action: Processing continues with the next control statement if one exists, otherwise the dump formatter job ends.

Programmer Response: Make sure that the first line of each control statement begins with the keyword DUMP.

IFW216I **INVALID POINTERS IN XDA, BUFFER POOL AND FREE BUFFER CHAIN NOT FORMATTED**

Explanation: The XDA pointer to the first physical buffer has a higher value than the XDA pointer to the last physical buffer. The buffer pool and free buffer chain cannot be formatted.

System Action: Processing continues.

Programmer Response: Make sure that a large enough value is coded on the MEMSIZE keyword of the BUILD definition statement.

IFW217I **INVALID SIZE** *xxxxxxxx* **ENCOUNTERED**

Issued by: Dump formatter

Explanation: The formatter detected a control block size of zero, or a control block size that was larger than 256 bytes.

System Action: Formatting resumes with the next control block.

Programmer Response: Determine if the data set is in error.

Severity Code: 8 (VSE only). An IBM 37xx input/output error was detected. A partial dump is produced.

IFW218I **INVALID ADDRESS** *xxxxxx* **ENCOUNTERED**

Issued by: Dump formatter

Explanation: The formatter detected a control block address that was one of the following:

- Less than or equal to zero
- Within the address range of the buffer pool
- Outside the range of communication controller storage.

System Action: Formatting resumes as early as error recovery techniques will allow.

Programmer Response: Determine if the data set is in error.

Severity Code: 8 (VSE only). An IBM 37xx input/output error was detected. A partial dump is produced.

IFW219I **RETURN CODE FROM LOAD MAP SORT WAS** *xx*, **LOAD MAP WILL NOT BE PRINTED**

Issued by: Dump formatter

Explanation: Dump formatter internal sort routine encountered an error while sorting the load map.

System Action: Formatting continues, but an alphabetical load map will not be printed.

Programmer Response: You have received one of two possible return codes:

- Return code 16. Examine the SYSOUT data set for messages posted by the sort program.
- Return code 20. A SYSOUT DD statement was not provided for the data set in the JCL for this job. Provide the statement for the JCL and resubmit the job. See *NCP, SSP, and EP Diagnosis Guide* for details about the JCL.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW220I **RETURN CODE FROM INDEX SORT WAS** *xx*, **INDEX TO DUMP CONTENTS WILL NOT BE PRINTED**

Issued by: Dump formatter

Explanation: Dump formatter internal sort routine encountered an error while sorting the index.

System Action: Formatting continues, but a sorted index to the dump contents will not be printed.

Programmer Response: You have received one of two possible return codes:

- Return code 16. Notify your IBM representative.
- Return code 20. A SYSOUT DD statement was not provided for the data set in the JCL for this job. Provide the statement for the JCL and resubmit the job. See *NCP, SSP, and EP Diagnosis Guide* for details about the JCL.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW221I *xxxxxxxx* **COULD NOT BE OPENED – SORTED LOAD MAP WILL NOT BE PRINTED**

Issued by: Dump formatter

Explanation: Data set *xxxxxxxx* could not be found because of missing information in the JCL that was provided for this job. A SORTIN DD statement for data set *xxxxxxxx* is either missing or invalid.

System Action: Formatting continues, but a sorted load map will not be printed.

Programmer Response: If you would like a printed load map correct the JCL. See *NCP, SSP, and EP Diagnosis Guide* for details about the JCL. Resubmit the job.

IFW222I *xxxxxxxx* **COULD NOT BE OPENED – INDEX WILL NOT BE PRINTED**

Issued by: Dump formatter

Explanation: Data set *xxxxxxxx* could not be found because of missing or invalid information in the JCL that was provided for this job. An INDXIN DD statement for data set *xxxxxxxx* is either missing or invalid.

System Action: Formatting continues, but an index of the dump contents will not be printed.

Programmer Response: If you would like a printed index of the dump contents, correct the JCL. See *NCP, SSP, and EP Diagnosis Guide* for details about the JCL. Resubmit the job.

IFW223I **PARTIAL DUMP DATA SET DETECTED**

Explanation: An I/O error occurred between the communication controller and step 1 of the dump utility. The dump data set is therefore incomplete or invalid.

System Action: The dump formatter formatted the controller I/O trace table and attempted to format the dump data set. Additional errors are likely.

Programmer Response: No response is necessary.

IFW224I **THIS RELEASE OF ACF/SSP DOES NOT SUPPORT IBM 3705 DUMPS – PROGRAM HALTED**

Issued by: Dump formatter

Explanation: The dump formatter identified your dump data set as an IBM 3705 dump. The IBM 3705 Communications Controller is no longer supported.

System Action: The dump formatter job stops immediately.

Programmer Response: If the dump data set is not from an IBM 3705 Communications Controller, save the data set and contact your IBM representative.

IFW299I **ERROR** *jjj, sss, ddd, tt,* **XXXXXXXX,** *oper, err, bbcchhr,* **BDAM**

Explanation: A permanent input or output error has occurred on the data set referred to by *xxxxxxxx*. In the message text, the variable fields mean:

Variable	Meaning
jjj	Job name of the dump job
sss	Step name of the dump job
ddd	Unit address of the device on which the data set resides
tt	Device type
XXXXXXXX	DDNAME that defines the data set
oper	Operation during whose execution the occurred
err	Description of the error
bbcchhr	Actual track address and block number where the error occurred
BDAM	The access method used

System Action: The dump job stops immediately.

Programmer Response: Probable hardware error. Depending upon the description of the error and the installation requirements, take the appropriate action.

Severity Code: 16 (VSE only). Serious DASD input/output errors were detected. The dump is not usable.

IFW300I **NO SYSGEN MACRO FOUND ON THIS CARD**

Issued by: CRP

Explanation: A non-comment input record was found that contained no generation or configuration report program data.

System Action: The input record is ignored.

Programmer Response: Examine the input record for a possible definition statement spelling error. If the record is in error, correct it and rerun the job. Otherwise, ignore the message.

Severity Code: 4 (VSE only). A minor error was detected; processing continues.

IFW301I **MACROS OUT OF SEQUENCE**

Issued by: CRP

Explanation: An NCPNAU, LUPOOL, LUDRPOOL, or PUDRPOOL definition statement was found after a GROUP definition statement.

System Action: The configuration report program processing continues.

Programmer Response: Examine the generation definition, correct the error, and rerun the job.

Severity Code: 4 (VSE only). Minor errors were detected; processing continues.

IFW302I **NO INPUT RECORD FOUND TO PROCESS**

Issued by: CRP

Explanation: An immediate end-of-file condition occurred when reading the input records.

System Action: No configuration report program processing occurs.

Programmer Response: Examine and correct the condition that caused the end-of-file condition and rerun the job.

Severity Code: 8. Errors were detected; processing does not continue.

IFW303I **NO BUILD MACRO ENCOUNTERED**

Issued by: CRP

Explanation: An NCP generation BUILD definition statement was not found in the input stream.

System Action: Configuration report program processing is suspended except for the VTAM network report.

Programmer Response: Examine the generation definition for correctness. If the generation definition is in error, correct it and rerun the job.

Severity Code: 8. Errors were detected; processing does not continue.

IFW304I **TWO BUILDS BACK TO BACK IN INPUT DECK**

Issued by: CRP

Explanation: Two NCP generation BUILD definition statements were found without an intervening GROUP or subordinate definition statement.

System Action: Configuration report program processing continues.

Programmer Response: Examine the generation definition for correctness. If the generation definition is in error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW305I   NCP/EP NAME GENERATION LIMIT EXCEEDED

Issued by: CRP

Explanation: An attempt was made to generate more than 48 NCP, EP, or PEP load module names.

System Action: The generation of load module names wraps around to start over.

Programmer Response: No response is necessary.

Severity Code: 4. Minor errors were detected; processing continues.

IFW306I   MAXIMUM NUMBER OF NCPNAUS EXCEEDED

Issued by: CRP

Explanation: More than seven NCPNAU definition statements with TYPE=SSCP were found when TYPGEN=NCP-R.

System Action: Configuration report program processing continues.

Programmer Response: Examine the generation definition for correctness. If the generation definition is in error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW307I   MAXIMUM NUMBER OF LUDRPOOLS EXCEEDED

Issued by: CRP

Explanation: More than one LUDRPOOL definition statement was found within the generation definition.

System Action: Configuration report program processing continues.

Programmer Response: Verify the accuracy of the generation definition. If the generation definition is in error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW308I   MAXIMUM NUMBER OF PUDRPOOLS EXCEEDED

Issued by: CRP

Explanation: More than one PUDRPOOL definition statement was found within the generation definition.

System Action: Configuration report program processing continues.

Programmer Response: Examine the generation definition for correctness. If the generation definition is in error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW309I   A REQUIRED GROUP MACRO IS MISSING

Issued by: CRP

Explanation: A subordinate definition statement to the GROUP definition statement was found prior to the GROUP definition statement.

System Action: Processing continues.

Programmer Response: Examine the generation definition for correctness. If the generation definition is in error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW310I   INVALID MACRO WHILE LNCTL=USER

Issued by: CRP

Explanation: An NCP generation definition statement was found that is invalid when LNCTL=USER is specified.

System Action: Processing continues.

Programmer Response: Examine the generation definition for correctness. If the generation definition is in error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW311I   *xxxxxxxx* COULD NOT BE OPENED

Issued by: CRP

Explanation: The system could not open data set *xxxxxxxx*.

System Action: The configuration report program stops immediately.

Under VSE, the CRP stops immediately on an OPEN failure and control passes directly to the operating system. No VSE error code is returned.

Under MVS or VM, this message is followed by abend 0255 (ABENDU 0255).

Programmer Response: Correct the condition that caused the error and rerun the job.

Severity Code: 255. I/O errors were detected; processing abends.

IFW312I   PERMANENT I/O ERROR WITH *xxxxxxxx*

Issued by: CRP

Explanation: There was an input or output error in accessing the data set defined by *xxxxxxxx*.

System Action: The configuration report program ends.

Under MVS or VM, message IFW312I is followed by abend 0255 (ABENDU 0255).

Programmer Response: Correct the condition that caused the input or output error and rerun the job.

Severity Code: 255. I/O errors were detected; processing abends.

IFW313I   NO VALID LIC TYPE SPECIFIED

Issued by: CRP

Explanation: The value specified for the LIC keyword is not valid.

System Action: Configuration report processing continues

Programmer Response: Examine the generation definition, correct the error, and rerun the job if the Cabling Report is needed.

Severity Code: 4. Minor errors were detected; processing continues.

IFW314I   **LIC=2 INCOMPATIBLE WITH DIRECT ATTACH**

Issued by: CRP

Explanation: A conflict exists between the values specified for the LIC and ATTACH keywords.

System Action: Configuration report processing continues.

Programmer Response: Examine the generation definition, correct the error, and rerun the job if the Cabling Report is needed.

Severity Code: 4. Minor errors were detected; processing continues.

IFW316I   **CHANLA/TAILING=YES – CHNLZ=YES ASSUMED.**

Issued by: CRP

Explanation: CHNLZ was either coded *NO* on the LINE definition statement or not coded on the LINE definition statement, and coded *NO* on the GROUP definition statement. Either CHANLA or TAILING was coded *YES* on the LINE or GROUP definition statement, and this is a conflict in keyword values.

System Action: CHNLZ is assumed to be *YES*, and an entry for this LINE definition statement will appear in the 386X modems report section.

Programmer Response: Check for correctness of the generation definition and rerun the configuration report program if you need to.

Severity Code: 4. Minor errors were detected; processing continues.

IFW317I   **TAILING=YES INVALID WHEN CHANLA=YES**

Issued by: CRP

Explanation: TAILING and CHANLA were both coded *YES* on the same LINE definition statement, which is a conflict in keyword values.

System Action: TAILING is assumed to be *NO*, and processing continues.

Programmer Response: Check for correctness of the generation definition, and rerun the configuration report program if you need to.

Severity Code: 4. Minor errors were detected; processing continues.

IFW318I   **NETID/NAME INVALID – WON'T BE PRINTED.**

Issued by: CRP

Explanation: NETID and NAME were coded on the GWNAU definition statement when NUMADDR was coded.

System Action: GWNAU is assumed to be a DYNAMIC POOL. GWNAU and NETID and/or NAME will not be printed.

Programmer Response: Check for correctness of the generation definition and rerun the configuration report program if you need to.

Severity Code: 4. Minor errors were detected; processing continues.

IFW319I   **INVALID MACRO – NETID NOT ON BUILD.**

Issued by: CRP

Explanation: NETID was not coded on the BUILD definition statement, so this NETWORK definition statement is invalid.

System Action: Network report entry is still printed and processing continues.

Programmer Response: Check for correctness of the generation definition and rerun the configuration report program if you need to.

Severity Code: 4. Minor errors were detected; processing continues.

IFW320I   **INVALID REPORT,** *xxxxx*, **REQUESTED**

Issued by: CRP

Explanation: An incorrect report *xxxxx* was coded on *REPORT control statement.

System Action: Processing continues.

Programmer Response: Correct the *REPORT control statement. Valid reports are NCP, VTAM, and CABLE. Then run CRP again.

Severity Code: 16. There is a problem coding the *REPORT statement.

IFW321I   **INVALID OPTION,** *xxxxxxxx*, **REQUESTED**

Issued by: CRP

Explanation: An incorrect option was coded on the *OPTION control statement.

System Action: Processing continues.

Programmer Response: Correct the *OPTION control statement (valid options are listed in *NCP, SSP, and EP Diagnosis Guide*). Then run CRP again.

Severity Code: 4. Minor errors were detected; processing continues.

IFW322I   **STATEMENT IS MISSING RIGHT PARENTHESIS**

Issued by: CRP

Explanation: CRP did not find closing parentheses on either the *REPORT or *OPTION control statements before the end of the input record.

System Action: Processing continues. The CRP logic is that once column 72 is found for the *OPTION control statement or column 23 is found for the *REPORT control statement, the control statement has ended.

Programmer Response: Insert the missing parentheses and run CRP again.

Severity Code: 4. Minor errors were detected; processing continues.

IFW323I   **REQUIRED REPORT STATEMENT IS MISSING**

Issued by: CRP

Explanation: The *REPORT control statement was either missing or no valid reports were requested.

System Action: The CRP job stops immediately.

Programmer Response: Insert a valid *REPORT control statement as described in the *NCP, SSP, and EP Diagnosis Guide* and rerun CRP.

Severity Code: 16. There is a problem coding the *REPORT statement.

IFW324I   **INVALID LINECNT VALUE, DEFAULT TAKEN**

Issued by: CRP

Explanation: CRP detected an incorrect value coded on the *LINECNT control definition statement.

System Action: The line count defaults to 52.

Programmer Response: Correct the value on the *LINECNT control definition statement. Valid values are any number between 1 and 999.

Severity Code: 4. Minor errors were detected; processing continues.

IFW325I   **NO GEN STMTS FOUND ON THIS RECORD**

Issued by: CRP

Explanation: A non-comment input record was found that contained no generation or configuration report program data.

System Action: The input record is ignored.

Programmer Response: Examine the input record for a possible statement spelling error. If the record is in error, correct it and rerun the job. Otherwise, ignore the message.

Severity Code: 4. Minor errors were detected; processing continues.

IFW326I   **GEN STMTS OUT OF SEQUENCE**

Issued by: CRP

Explanation: An NCPNAU, LUPOOL, LUDRPOOL, or PUDRPOOL definition statement was found after a GROUP definition statement.

System Action: The configuration report program continues processing.

Programmer Response: Correct the error and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW327I   **NO BUILD STMT ENCOUNTERED**

Issued by: CRP

Explanation: No NCP generation BUILD definition statement was in the input stream.

System Action: Configuration report program processing, except for the VTAM network report, is suspended.

Programmer Response: Make sure the generation

definition is correct. If there is an error, correct it and rerun the job.

Severity Code: 8. Errors were detected; processing does not continue.

IFW328I   **A REQUIRED GROUP STMT IS MISSING**

Issued by: CRP

Explanation: A statement subordinate to the GROUP definition statement was found before the GROUP definition statement.

System Action: Processing continues.

Programmer Response: Make sure the generation definition is correct. If there is an error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW329I   **INVALID GEN STMT WHILE LNCTL=USER**

Issued by: CRP

Explanation: An NCP generation statement was found that is invalid when LNCTL=USER is specified.

System Action: Processing continues.

Programmer Response: Make sure the generation definition is correct. If there is an error, correct it and rerun the job.

Severity Code: 4. Minor errors were detected; processing continues.

IFW330I   **INVALID GEN STMT – NETID NOT ON BUILD**

Issued by: CRP

Explanation: NETID was not coded on the BUILD definition statement, making this NETWORK definition statement invalid.

System Action: The network report entry is still printed and processing continues.

Programmer Response: No response is necessary.

Severity Code: 4. Minor errors were detected; processing continues.

IFW331I   **INVALID GEN STMT – HSBPOOL NOT ON BUILD**

Issued by: CRP

Explanation: HSBPOOL was not coded on the BUILD definition statement, making this NETWORK definition statement invalid.

System Action: The network report entry is still printed and processing continues.

Programmer Response: No response is necessary.

Severity Code: 4. Minor errors were detected; processing continues.

IFW332I   CHANLA=YES -- CHNLZ=YES ASSUMED

Issued by: CRP

Explanation: CHANLA=YES was coded and CHNLZ=YES or NO was coded. Therefore, CHNLZ=YES is assumed as the default value.

System Action: Processing continues.

Programmer Response: No response is necessary.

IFW333I   CABLE REPORT IS VALID ONLY FOR 3725

Issued by: CRP

Explanation: The MODEL keyword was not coded 3725 on the BUILD definition statement and the Cable Report was requested on the CRP *REPORT statement.

System Action: Processing continues; however, a cable report for the invalid generation definition is not created. A cable report for all valid generation definitions is created.

Programmer Response: Check the MODEL keyword on the BUILD definition statement in the generation definition and the *REPORT control statement in the CRP utility.

Severity Code: 4. Minor errors were detected; processing continues.

IFW401I   PRINT REQUEST: XXX IS UNKNOWN

Issued by: IFWRMDMP.

Explanation: The string *xxx* has been found in the CHGRCPRM field but is not a known PRINT keyword.

System Action: Processing continues.

Programmer Response: The command should be examined and corrected.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW402I   *nnnnnnn* SECTORS OF FILE *xxxxxxxx* WERE NOT TRANSMITTED

Issued by: IFWRMDMP.

Explanation: The file ID for file *xxxxxxxx* indicated that only *x* records were transmitted for a *y* record file (*nnnnnnn*=*y* – *x*.) The MOSS FILE-TRANSFER function is not at the correct code level. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW403I   *nnnnnnn* SECTORS OF FILE *xxxxxxxx* WERE NOT RECEIVED

Issued by: IFWRMDMP.

Explanation: The file ID for file *xxxxxxxx* indicated that *x* records were transmitted, but a new file ID has been read when *nnnnnnn* records remained to be read. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW404I   FILE *xxxxxxxx* IS IN EXCESS, DATA SKIPPED

Issued by: IFWRMDMP.

Explanation: During the input data scan (see DRIVER logic), a file named *xxxxxxxx* has been found but no room is left in the directory. The input data is from a MOSS level different from the FORMATTER code. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW405I   FILE CHGMLT NOT TRANSFERRED, INFORMATION ON ORIGINATOR NOT AVAILABLE

Issued by: IFWRMMLT.

Explanation: Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW406I   FILE CHGLDF NOT OR INCOMPLETELY TRANSFERRED, NO DATA PRINTED

Issued by: IFWRMLDF.

Explanation: A formatter could not have a complete file fetch.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW407I   FILE CHGMLT NOT OR INCOMPLETELY TRANSFERRED, ZAPS CANNOT BE PRINTED

Issued by: IFWRMZAP.

Explanation: A formatter could not have a complete file fetch. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW408I   FILE CHGCDS NOT OR INCOMPLETELY TRANSFERRED, NO CONFIGURATION DATA PRINTED

Issued by: IFWRMCDS

Explanation: A formatter could not have a complete file fetch. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW409I   FILE CHGPCF NOT OR INCOMPLETELY TRANS-FERRED, NO CONFIGURATION DATA PRINTED

Issued by: IFWRMCDS (DUMP FORMATTER)

Explanation: A formatter could not have a complete file fetch. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW410I   FILE CHGPROC NOT TRANSFERRED, NO DATA PRINTED

Issued by: IFWRMPRO.

Explanation: A formatter could not have a complete file fetch. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW411I   FILE CHGPROC INCOMPLETELY TRANSFERRED, OR BAD LEVEL FILE, THE PROCEDURE CANNOT BE PRINTED

Issued by: IFWRMPRO.

Explanation: A formatter could not have a complete file fetch. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected.

IFW412I

Issued by: IFWRMGET.

Explanation: A formatter has requested data from the file named *xxxxxxxx*, but the directory does not contain information about the file. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW413I   NUMBER OF STATEMENTS OR MESSAGES EXCEEDED, THE PROCEDURE CANNOT BE PRINTED

Issued by: IFWRMPRO.

Explanation: The transfer file contains invalid data. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW414I   PASSED DATA AT ENTRY POINT DOES NOT BEGIN WITH A FILE-ID

Issued by: IFWRMDMP.

Explanation: The first record examined by the dump formatter routine for a MOSS dump does not contain a MOSS dump identifier.

System Action: The job stops immediately.

Programmer Response: Check to see if the data set pointed to contains a valid MOSS dump.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW415I   FILE DATA LEVEL *xx* DOES NOT MATCH FOR-MATTER LEVEL *xx*

Issued by: IFWRMDMP.

Explanation: The identifier found in the first record is not a valid identifier for a MOSS dump.

System Action: The job stops immediately.

Programmer Response: Check to see if the data set pointed to contains a valid MOSS dump.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW416I   FILE CHGPCF NOT OR INCOMPLETELY TRANS-FERRED, CONFIGURATION DATA PRINTED FROM CDF

Issued by: IFWRMCDS (dump formatter)

Explanation: A formatter could not have a complete file fetch. Suspect a transfer failure.

System Action: Processing continues.

Programmer Response: No response is necessary.

Severity Code: 4 (VSE only). A DASD input/output error was detected. A partial dump is produced.

IFW0500E   THIS DUMP DOES NOT CONTAIN EP

Issued by: SSP CLISTS

Explanation: The XDB control block does not indicate the presence of EP or PEP in this dump. Therefore, there are no EP control blocks to be displayed.

System Action: The CLIST exits without further processing.

Programmer Response: Verify that the correct dump is being processed and check the XDB control block for errors (X'0B' identifies EP).

IFW0501E   UNABLE TO ACCESS ONE OR MORE KEY CONTROL BLOCKS (XDA, XDH, XDB, HWE, HWX, FAX, PSB, DTG) MOST SSP CLISTs WILL NOT FUNCTION PROPERLY

Issued by: SSP CLISTS

Explanation: The initialization routine searches for several key control blocks that contain the pointers to all other control blocks and traces. Inability to locate one or more will render the other CLISTs useless.

System Action: Processing continues; however, most CLISTs will produce error messages and invalid data.

Programmer Response: Do the following:

- Make sure NCP completed initialization prior to taking the dump. (Addresses for the key blocks are set by initialization.)
- Make sure this dump is properly loaded for use with SSP CLISTs.
- Make sure this dump is NCP V6R1 or later.

IFW0502E   THIS DUMP DOES NOT CONTAIN AN AVB CONTROL BLOCK

Issued by: SSP CLISTS

Explanation: The pointer to the AVB in the FAX control block is set to zero.

System Action: The CLIST exits without further processing.

Programmer Response: Verify that the correct dump is being processed and check the FAX control block for errors. (X'24' points to the AVB.)

IFW0503E   THIS CLIST IS NOT SUPPORTED FOR A DYNAMIC DUMP AND MIGHT GIVE UNPREDICTABLE RESULTS

Issued by: IFWIBUSE, IFWIDISP, IFWINAU

Explanation: IFWISET has determined that this is a dynamic dump. The CLIST issuing this message is subject to output errors due to the nature of dynamic dumps, and any output should be carefully verified.

System Action: The CLIST continues processing and provides the usual range of output. However, the content of this output is subject to errors.

Programmer Response: Check any pointers or chains that appear to be incorrect to make sure that they are valid.

IFW0504E   INVALID SELECTION. PLEASE TRY AGAIN

Issued by: SSP CLISTS

Explanation: You have entered invalid input in response to a menu prompt. Valid entries are shown on the menu.

System Action: The CLIST displays the menu and valid prompts.

Programmer Response: Enter a selection from the displayed menu.

IFW0505E   INVALID INPUT FORMAT – PLEASE REVIEW THE PROMPT INFORMATION

Issued by: SSP CLISTS

Explanation: The format of the input differs from the prompt.

System Action: The CLIST displays the prompt again.

Programmer Response: Make sure the input format conforms to the format of the prompt. (Consider order and syntax.)

IFW0506E   INVALID HARDWARE TYPE: *xxxx*

Issued by: SSP CLISTS

Explanation: Controller model *xxxx* is not supported by this release.

System Action: The CLIST continues processing normally. However, due to the unsupported hardware, other CLISTs may produce errors.

Programmer Response: Check the XDH control block for errors. (Offset X'0D' is the hardware type.) If the XDH is correct, the CLISTs are not supported and may give erroneous results.

IFW0508E   MODULE "*zzzzzzzz***" WAS NOT FOUND IN THE DUMP**

Issued by: SSP CLISTS

Explanation: The CLIST is unable to find the requested module in the dump. Only complete module names will be found.

System Action: The CLIST prompts you again for a module name.

Programmer Response: Enter a complete module name or exit.

IFW0509E   INVALID NETID (COULD NOT LOCATE IN DUMP) – PLEASE CHECK YOUR INPUT

Issued by: SSP CLISTS

Explanation: The NVT does not contain the requested network ID at an appropriate offset.

System Action: The CLIST returns to the previous menu level.

Programmer Response: Check the NVT for errors or enter another ID.

IFW0510E   INVALID NAU ADDRESS (COULD NOT LOCATE IN DUMP) – PLEASE CHECK YOUR INPUT

Issued by: SSP CLISTS

Explanation: The RVT offset corresponding to this NAU does not have a recognized type setting and, therefore, is not considered to be a valid NAU.

System Action: The CLIST returns to the previous menu level.

Programmer Response: Check the RVT for errors or enter another NAU.

IFW0511E   THIS LINE IS NOT GENNED. LNVT ENTRY = (USER ENTRY)

Issued by: SSP CLISTS

Explanation: The LNVT indicates that this entry is undefined.

System Action: The CLIST returns to the previous menu level. No control blocks will be displayed.

Programmer Response: Check the LNVT for errors. Make sure the requested line is in the generation definition.

IFW0512E **THIS LINE IS NOT GENNED. RLN ENTRY = (USER ENTRY)**

Issued by: SSP CLISTS

Explanation: The LNVT indicates that this entry is undefined.

System Action: The CLIST returns to the previous menu level. No control blocks will be displayed.

Programmer Response: Check the LNVT for errors. Make sure the requested line is in the generation definition.

IFW0513E **LNVT ADDRESS IS OUT OF RANGE – PLEASE CHECK PROMPT FOR VALID RANGE**

Issued by: SSP CLISTS

Explanation: The LNVT address entered is outside the bounds provided by the prompt.

System Action: The CLIST returns to the prompt.

Programmer Response: Enter values within the prompted range.

IFW0514E **RLN ENTERED IS OUT OF RANGE – PLEASE CHECK PROMPT FOR VALID RANGE**

Issued by: SSP CLISTS

Explanation: The RLN entered is outside the bounds provided by the prompt.

System Action: The CLIST returns to the prompt.

Programmer Response: Enter values within the prompted range.

IFW0515E **THIS IS AN EP LINE AND CAN ONLY BE OBTAINED USING AN EP SPECIFIC CLIST**

Issued by: SSP CLISTS

Explanation: The ACB indicates that this line is an EP line. The issuing CLIST does not contain code for displaying EP resources.

System Action: The CLIST returns to the prompt.

Programmer Response: Use IFWIEPCB to display EP control blocks. If this message appears to be in error, verify the ACB. (X'21' contains the EP flag.)

IFW0516E **INVALID DLC TYPE**

Issued by: SSP CLISTS

Explanation: The TGB has an undefined DLC type.

System Action: The CLIST exits without further processing. Data previously generated is displayed.

Programmer Response: Check the TGB for errors or display another VLB. (X'20' is DLC type.)

IFW0517E **RESOURCE WAS NOT FOUND IN THE DUMP.** *type value*

Issued by: SSP CLISTS

Explanation: The resource *value* entered was either:

- Not found anywhere in the dump
- Not found within the proper control block for the *type* selected.

System Action: The CLIST returns to the prompt for *type* and *value*.

Programmer Response: Make sure the type and value are properly matched. If this message appears to be in error, check the control block containing the value for errors. IFWIFIND can be used to search for the value and find the control block.

IFW0518E **TOTAL NUMBER OF ITEMS IN CHAIN EXCEEDS COUNT IN GPA**

Issued by: IFWISGPA

Explanation: The total number of items in the chain exceeds the count in the generic pool anchor block (GPA).

System Action: Processing continues.

Programmer Response: No response is necessary.

IFW0519E **NCP RELEASES PRIOR TO V6 ARE NOT SUPPORTED BY SSP CLISTs**

Issued by: SSP CLISTS

Explanation: SSP CLISTs are available only for NCP V6R1 and later. The valid release indicator was not found at dump offset X'4C'.

System Action: The CLIST exits without further processing. Direct addressable control blocks, which are essential to all CLIST functions, are not defined. Other CLISTS will fail or will produce erroneous output.

Programmer Response: Check the offset X'4C' for the flag X'A84FA851'. (You can use IFWIFIND.) If X'A84FA851' is not present, your dump is:

- Not an NCP dump
- Not properly "loaded" for SSP CLISTs
- Corrupted
- Not a dump for NCP V6R1 or later.

IFW0520E **INVALID SUBAREA (SIT ENTRY IS 0000) – PLEASE CHECK YOUR INPUT**

Issued by: SSP CLISTS

Explanation: The requested subarea yielded a zero entry in the subarea index table (SIT), indicating an undefined destination subarea.

System Action: The CLIST returns to the previous menu level.

Programmer Response: Check the SIT for errors or enter a different subarea value (decimal value).

IFW0521E **THE GPA INDICATES ADDRESS** *aaaaaaaa* **IS THE LAST ITEM IN THE CHAIN BUT THIS ADDRESS POINTS TO A FOLLOWING ELEMENT**

Issued by: IFWISGPA

Explanation: The generic pool anchor block (GPA) indicates that the item at address *aaaaaaaa* is the last item in the chain, but this item contains a pointer to a following element rather than a zero chain pointer.

System Action: Processing continues.

Programmer Response: No response is necessary.

IFW0522E **DUMPER ERROR DETECTED – REGISTER INFORMATION NOT AVAILABLE**

Issued by: SSP CLISTS

Explanation: IFWISET has detected that the dump is not complete. The registers are located at the end of the dump and will not be present in an incomplete dump.

System Action: The CLIST exits without further processing.

Programmer Response: If register information is needed, a complete dump must be obtained.

IFW0523E **TOTAL BUFFER COUNT EXCEEDED**

Issued by: SSP CLISTS

Explanation: When a chain of buffers was scanned, the number of buffers scanned exceeded the total number of buffers in the chain. This indicates that the end-of-chain indicator was missing for at least one buffer chain. The count provided will not be correct.

System Action: The CLIST indicates which chain was being processed and, if necessary, continues processing other chains.

Programmer Response: Ignore the erroneous count for the flagged chain. If the count is necessary, you will need to manually find the end of the chain in question.

IFW0524E **BRANCH TRACE COULD NOT BE FOUND IN DUMP**

Issued by: SSP CLISTS

Explanation: One of the following has prevented the branch trace from being displayed:

- FAX pointer in the XDA is zero
- CPIT pointer in the FAX is zero
- BTT pointer in the CPIT is zero
- The pointer to the beginning, ending, or current entry in the BTT is zero.

If a branch trace does exist, then one of the control blocks mentioned here is in error.

System Action: The CLIST exits without further processing.

Programmer Response: Determine which block is incorrect.

IFW0525E **DISPATCHER TRACE COULD NOT BE FOUND IN DUMP**

Issued by: SSP CLISTS

Explanation: One of the following has prevented the dispatcher trace from being displayed:

- *DISP* was not found in the dump.
- *DISP* was found, but *TEND* was not.

If a dispatcher trace does exist, then one of the indicator flags has been corrupted.

Note: *DISP* marks the beginning of the table and *TEND* marks the end.

System Action: The CLIST exits without further processing.

Programmer Response: Determine which flag is incorrect.

IFW0526E **CA IOH TRACE COULD NOT BE FOUND IN DUMP**

Issued by: SSP CLISTS

Explanation: One of the following has prevented the CA IOH trace from being displayed:

- FAX is not defined.
- The pointer in the FAX to the trace is zero.

System Action: The CLIST exits without further processing.

Programmer Response: If a CA IOH trace does exist, check the FAX for errors.

IFW0527E **INVALID BUFFER POOL BOUNDARY FLAG**

Issued by: SSP CLISTS

Explanation: Valid values for the buffer pool boundary flag are X'00', X'80', X'C0', X'E0', and X'F0'. Any other value will be flagged as invalid. Either the HWE or the BPB is corrupt.

System Action: The CLIST continues processing normally.

Programmer Response: Verify that the pointer to the BPB in the HWE is valid.

IFW0528E **THE GPA INDICATES ADDRESS *aaaaaaaa* SHOULD BE THE LAST ITEM HOWEVER, THE CURRENT ITEM AT ADDRESS *bbbbbbbb* CONTAINS A ZERO CHAIN POINTER.**

Issued by: IFWISGPA

Explanation: The last item in a chain contains a zero chain pointer. The generic pool anchor block (GPA) indicates that the item at address *aaaaaaaa* should be the last item in the chain; however, the current item at address *bbbbbbbb* contains a zero chain pointer.

System Action: Processing continues.

Programmer Response: No response is necessary.

IFW0529E **UNABLE TO LOCATE AVT CONTROL BLOCK, NPSI NOT INCLUDED IN DUMP**

Issued by: IFWISAVT

Explanation: The CLIST was unable to locate the characters *AV* prior to the buffer pool, or the *AV* found did not properly point to MKBAT and, therefore, is not considered a proper AVT control block. (*AV* is the control block identifier for the AVT.)

System Action: The CLIST exits without further processing.

Programmer Response: Scan for *AV* using IFWIFIND or another utility. If the *AV* is located and appears to be the AVT, check the pointer to MKBAT and the MKBAT itself for errors.

Also, verify that the second byte preceding the MKBAT table contains X'D4E3' (X'MT').

IFW0530E   **NAU MUST NOT BE MORE THAN X'**_xxxx_**' FOR THE SPECIFIED NETWORK**

Issued by: SSP CLISTS

Explanation: The NAU specified exceeded the maximum of X'_xxxx_'. If a network was not specified, the maximum for the native network was exceeded.

System Action: The CLIST returns to the previous menu.

Programmer Response: Use an element address less than X'_xxxx_', or verify the RVT to make sure that X'_xxxx_' is correct.

IFW0532E   **MODULE NOT FOUND FOR ADDRESS** _aaaaaaaa_

Issued by: SSP CLISTS

Explanation: The address entered in IFWIWHER, or the return address returned by IFWISAVE, does not resolve to a module address and offset. The address is outside the storage area for modules in this dump. The address is invalid or the module storage area is corrupted.

System Action: IFWISAVE continues processing. IFWIWHER exits without further processing.

Programmer Response: Verify the source of the address in question.

IFW0535E   **HEX VALUES MUST BE ENTERED IN FULL BYTES**

Issued by: SSP CLISTS

Explanation: For this search command, an even number of digits is required (full bytes).

System Action: The CLIST returns to the previous prompt message.

Programmer Response: Verify the address in question. If the value is correct, add a leading zero, and reenter.

IFW0536E   **UNABLE TO LOCATE BUFFER BEGINNING FLAG – UNABLE TO DISPLAY COMPLETE BUFFER**

Issued by: SSP CLISTS

Explanation: The X'C2' or X'C3' flag that identifies the beginning of each buffer was not located for a particular buffer. The buffer in question is corrupted or the buffer address is outside the buffer pool.

System Action: The CLIST displays a portion of the buffer or returns to the previous menu.

Programmer Response: Use IFWIFIND or another utility to display the address and surrounding region.

IFW0537E   **UNABLE TO RESOLVE INPUT TO NPSI CONTROL BLOCKS (MUACB OR VUACB). NPSI CONTROL BLOCK DISPLAY HALTED**

Issued by: SSP CLISTS

Explanation: The ACB does not contain an _MU_ or _VU_ identifier at the appropriate offset. Therefore, it is not a proper NPSI control block.

System Action: The CLIST returns to the previous prompt message.

Programmer Response: Make sure that the resource in question is a NPSI resource. If it is, check that the ACB is valid.

IFW0538E   **NTRI RELATIVE LINE NUMBERS ARE NOT SUPPORTED.**

Issued by: IFWINAU

Explanation: NTRI relative line numbers are not supported.

System Action: The CLIST returns to the previous prompt message.

Programmer Response: Verify the relative line number in question.

IFW0800I   **TRACE IDENTIFIER NOT FOUND – EP TRACE CANNOT BE FORMATTED**

Issued by: SSP CLISTS

Explanation: The CLIST searches for the identifier _START TRACE_ which indicates the beginning of the trace, and _$LVL_, which indicates the end of the table. One or both are not in the dump.

System Action: The CLIST exits without further processing.

Programmer Response: No response is necessary.

IFW0802I   **THERE ARE NO CHANNEL ADAPTERS**

Issued by: SSP CLISTS

Explanation: Either offset X'18' (CAB pointer) or offset X'68' (CAVT pointer) in the HWE is zero.

System Action: The CLIST exits without further processing.

Programmer Response: No response is necessary.

IFW0803I   **THIS CUB IS NOT IN USE, THERE IS NO ASSOCIATED LINE**

Issued by: SSP CLISTS

Explanation: The pointer to the LKB in the CUB is zero.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0805I   **THE LNB OUTBOUND TREE IS NOT IN USE**

Issued by: SSP CLISTS

Explanation: The pointer to the search tree header control block (SHB) is zero, or the pointer in the SHB to the tree is zero.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0806I THIS LUB HAS NO POINTER TO ITS PU

Issued by: SSP CLISTS

Explanation: The pointer in the LUB to the CUB is zero.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0807I GATEWAY NAU NIX *xxxx* HAS NO NLX POINTER

Issued by: SSP CLISTS

Explanation: The pointer to the NLX in the NIX is zero.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0808I GATEWAY NAU NLB *xxxx* HAS NO NIB POINTER

Issued by: SSP CLISTS

Explanation: The pointer to the NIB in the NLB is zero.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0809I INVALID NON-SNA RVTYPE: RVTTYPE1: *xxxx* RVTTYPE2: *yyyy*

Issued by: SSP CLISTS

Explanation: The RVTTYPE bytes for an RVT entry located in the non-SNA section of the RVT are invalid for non-SNA resources.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0810I INVALID SNA RVTYPE: RVTTYPE1: *xxxx* RVTTYPE2: *yyyy*

Issued by: SSP CLISTS

Explanation: The RVTTYPE bytes for an RVT entry located in the SNA section of the RVT are invalid for SNA resources.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0811I BUFFER AT ADDRESS *xxxxxxxx* HAS AN INVALID PREFIX

Issued by: IFWIBUFS

Explanation: This CLIST has been passed a buffer address that does not correspond to the beginning of a buffer's data area. The CLIST verifies that the third byte preceding *xxxxxxxx* (*xxxxxxxx*-3) contains X'C2'.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0812I CHAIN TERMINATED WITH BUFFER IN CHAIN WHICH BEGINS AT *aaaaaaaa* IN *ttt* CONTROL BLOCK LOCATED AT *xxxxxxxx*

Issued by: SSP CLISTS

Explanation: The chain, which began at *aaaaaaaa*, was pointed to by control block *ttt*, which can be found at address *xxxxxxxx*.

A problem has been encountered in a chain of buffers. (Refer to the error messages that accompany this message.)

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0815I THE VRB IS INOPERATIVE – CODE: *xx explanation*

Issued by: SSP CLISTS

Explanation: A flag in the VRB indicates that it is inoperative.

The variables *xx* and *explanation* can have one of the following values:

xx	*explanation*
07	ER is inoperative
0B	DACTVR processed.

Any other code may indicate an error with the VRB itself.

System Action: The CLIST continues processing normally.

Programmer Response: Check the code carefully. If the virtual route inoperative code is indicated with a value other than 0B or 07, there is a problem with the VRB.

IFW0816I THE NCP IS IN SLOWDOWN (FOR SLOWDOWN ANALYSIS RUN IFWISLOW)

Issued by: SSP CLISTS

Explanation: The XDB indicates that this NCP is experiencing a slowdown condition. IFWISLOW may provide information about slowdown conditions.

System Action: The CLIST continues processing normally.

Programmer Response: Execute IFWISLOW for more information.

IFW0820I THE SEARCH FAILED TO MATCH YOUR INPUT DATA AS SPECIFIED

Issued by: SSP CLISTS

Explanation: The value being searched for was not found. If this is a continuation of a search, then no additional instances of that value were located.

System Action: The CLIST continues processing normally.

Programmer Response: No response is necessary.

IFW0821I **NCP RELEASES PRIOR TO V7R1 ARE NOT SUP-PORTED BY THIS CLIST**

Issued by: SSP CLISTS

Explanation: This CLIST is valid only for NCP V7R1.

System Action: The CLIST exits and returns to the menu.

Programmer Response: No response is necessary.

IFW0822I **THE NCP IS IN CWALL (FOR SLOWDOWN ANAL-YSIS RUN IFWISLOW)**

Issued by: SSP CLISTS

Explanation: The XDB indicates that this NCP is experiencing a CWALL buffer threshold condition. IFWISLOW may provide information about the CWALL buffer threshold and slowdown conditions.

System Action: The CLIST continues processing normally.

Programmer Response: Execute IFWISLOW for more information.

IFW0831I **NCP RELEASES PRIOR TO V6R2F ARE NOT SUP-PORTED BY THIS CLIST**

Issued by: SSP CLISTS

Explanation: This CLIST is valid only for NCP V6R2 or later with the feature that provides support for the IBM 3746 Model 900.

System Action: The CLIST exits and returns to the menu.

Programmer Response: No response is necessary.

IFZ Messages

Attention: If you receive any of the following error messages when you are using NDF, it means a problem has been detected in the table source generated by NDF. **Do not attempt to correct the table source.** Save all input and output and notify your IBM representative. If you receive an error message when you are not using NDF, follow the instructions given in the message.

IFZ001   END STATEMENT IN MACRO OR COPY CODE

Explanation: An END statement is found in a macro definition or in code that is inserted by the COPY instruction.

System Action: The statement is processed as a comment.

Programmer Response: Remove the END statement from the macro definition or the copy book. Make sure that an END statement is included at the end of your source module.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ002   ICTL NOT FIRST STATEMENT

Explanation: The ICTL statement is used in a statement that is not the first statement in the source module.

System Action: The statement is processed as a comment.

Programmer Response: Remove the ICTL statement, or make it the first statement of the program.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ003   STATEMENT INCORRECTLY PLACED, MUST BE IN MACRO DEFINITION

Explanation: A MEND, MEXIT, MNOTE, or internal macro comment (.*) statement appears in open code. These statements are allowed only in macro definitions.

System Action: The statement is processed as a comment.

Programmer Response: Remove the statement, or put it in a macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ004   COMMENTS BETWEEN MACRO AND PROTOTYPE STATEMENTS

Explanation: The macro header (MACRO) instruction is followed by a comment statement (.* or *). The macro header must be immediately followed by a macro prototype statement.

System Action: The comments statement is ignored. It is not generated when the macro is generated.

Programmer Response: Put the comments statement after the prototype statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ005   STATEMENT INCORRECTLY PLACED

Explanation: One of the following errors has occurred:

- A macro header (MACRO) instruction appears too late in the program. It can only be used to identify the beginning of a macro definition, and the macro definitions must all be placed at the beginning of the source module. The only instructions that can precede them are: ICTL, ISEQ, EJECT, PRINT, TITLE, SPACE, and comment statements.

- A GBLx or LCLx instruction in the macro definition does not immediately follow the macro prototype statement.

- A GBLx instruction is preceded by an LCLx instruction.

- A GBLx or LCLx instruction in open code does not precede the first control section.

System Action: The statement is processed as a comment.

Programmer Response: Make sure your MACRO, GBLx, and LCLx instructions are placed according to the rules given in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ006   ILLEGAL NAME FIELD

Explanation: The name field is not a sequence symbol or blank, either of which is required by this instruction.

System Action: The name field is ignored.

Programmer Response: Make sure that the name field is either a sequence symbol or blank.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ007   SOURCE RECORD OUT OF SEQUENCE

Explanation: The input sequence-checking specified by the ISEQ instruction has determined that this record is out of sequence. The sequence field of this record is not higher than the sequence field of the preceding record.

System Action: The statement is flagged and assembled. The sequence of the rest of the statement is checked against the sequence of the previous statement.

Programmer Response: Put the record in the proper sequence.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ008   UNPAIRED APOSTROPHE

Explanation: An ending apostrophe is missing in this statement, or an invalid attribute reference is found in the statement.

System Action: The statement is processed as a comment.

Programmer Response: Supply an ending apostrophe or correct the attribute reference. An opening or ending apostrophe must be single. Two single apostrophes (double quotes) are used to specify the character in a quoted string: "a string."

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ009   TOO MANY CONTINUATION LINES

Explanation: This statement occupies more than three records.

System Action: The excessive continuation lines are treated as comments.

Programmer Response: Check for an unintentional continuation indicator in the column after the end column (usually in column 72). Do not use more than two continuation lines for a single statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ010   OP CODE MISSING

Explanation: The first or only record of a statement does not contain any operation code followed by at least one blank.

System Action: The statement is processed as a comment.

Programmer Response: If this record is intended to be a comment statement, supply an asterisk (*) in the begin column. If the record is intended to be an instruction, supply an operation code followed by at least one blank in the first record of the statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ011   INVALID OP CODE

Explanation: The specified operation code does not consist of 1 to 8 alphanumeric characters, the first of which is alphabetical.

System Action: The statement is processed as comments.

Programmer Response: Make sure the operation code is a valid ordinary symbol (A to Z, 0 to 9, #, @, or $).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ012 **MEND NOT PRECEDED BY MACRO IN THIS COPY BOOK**

Explanation: In code inserted by means of the COPY instruction, a MEND instruction is encountered for which there is no corresponding MACRO instruction in this copy book.

System Action: The statement is processed as comments.

Programmer Response: Make sure that a macro always starts and ends in the same copy book. If a MACRO statement is found in a copy book, the corresponding MEND statement must also be in that copy book.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ013 **CONTINUATION LINE MISSING**

Explanation: An end-of-file condition was encountered when the assembler was trying to read an expected continuation line.

System Action: The statement is processed as if no continuation mark has been indicated in the continuation column.

Programmer Response: Add the missing continuation lines, or remove the erroneous continuation mark.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ014 **SYMBOLIC PARAMETER '*xxxxxxxx*' TOO LONG**

Explanation: The specified symbolic parameter in a macro prototype statement is too long. It must not consist of more than 8 characters. The first 8 characters of the invalid symbolic parameter are identified in the message.

System Action: The rest of the macro definition is checked for errors, but the macro is considered undefined.

Programmer Response: Make sure that all symbolic parameters consist of an ampersand followed by 1 to 7 alphanumeric characters, the first of which is alphabetical.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ015 **SYMBOLIC PARAMETER '*xxxxxxxx*' DOES NOT START WITH AMPERSAND**

Explanation: The specified symbolic parameter does not start with an ampersand (&).

System Action: The rest of the macro definition is checked for errors, but the macro is considered undefined.

Programmer Response: Make sure that all symbolic parameters consist of an ampersand followed by 1 to 7 alphanumeric characters, the first of which is alphabetical.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ016 **SECOND CHARACTER OF SYMBOLIC PARAMETER '*xxxxxxxx*' NOT A LETTER**

Explanation: The second character of the specified symbolic parameter is not alphabetical.

System Action: The rest of the macro definition is checked for errors, but the macro is considered undefined.

Programmer Response: Make sure that all symbolic parameters consist of an ampersand followed by 1 to 7 alphanumeric characters, the first of which is alphabetical.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ017 **SYMBOLIC PARAMETER '*xxxxxxxx*' CONTAINS NON-ALPHAMERIC CHARACTER**

Explanation: The specified symbolic parameter contains an invalid character. Only alphameric characters (A to Z, 0 to 9, #, @, $) are allowed in symbolic parameters.

System Action: The rest of the macro definition is checked for errors, but the macro is considered undefined.

Programmer Response: Make sure that all symbolic parameters consist of an ampersand followed by 1 to 7 alphanumeric characters, the first of which is alphabetical.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ018   **INVALID OP CODE IN PROTOTYPE STATEMENT**

Explanation: One of the following errors has occurred:

- The prototype's operation code is not a valid symbol.
- The prototype's operation code is the same as the operation code of another macro definition in the source program.
- The prototype's operation code is the same as a machine or assembler instruction.

System Action: The macro definition will be checked for errors but will be treated as undefined when called.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ019   **KEYWORD OPERAND PRECEDES POSITIONAL OPERAND '*xxxxxxxx*'**

Explanation: In a macro definition, a keyword operand has been placed before the positional operand identified in the message. All positional operands must appear before the keyword operands in the statement. If no operand is identified in the message, a comma indicating an omitted positional operand has been found after the first keyword operand.

System Action: If the error is found in a prototype statement, all positional operands after the first keyword operand are considered undefined. The rest of the macro definition is then checked for errors, but the macro is considered undefined. If the error is found in a macro instruction, the macro is not generated.

Programmer Response: Make sure that all positional operands in a macro prototype statement or macro instruction precede all keyword operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ020   **TOO MANY LEVELS OF PARENTHESES IN OPERAND '*xxxxxxxx*'**

Explanation: The operand expression identified in the message contains more than five levels of parentheses. The text inserted in the message is limited to 8 characters.

System Action: If the error is found in a prototype statement, the rest of the macro definition is checked for errors, but is considered undefined. If the error is found in a macro instruction, the macro is not generated.

Programmer Response: Change the expression to delete one or more levels of parentheses.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ021   **UNPAIRED PARENTHESES IN OPERAND '*xxxxxxxx*'**

Explanation: The keyword parameter default value specified in a macro prototype or a macro instruction operand value contains an unpaired left or right parenthesis not surrounded by single quotes. Only the first 8 characters of the operand value are inserted in the message.

System Action: If the error is found in a prototype statement, the rest of the macro definition is checked for errors, but the macro is undefined. If the error is found in a macro instruction, the macro is not generated.

Programmer Response: If you want to specify an unpaired parenthesis, make sure that it appears with apostrophes. Otherwise, make sure a left parenthesis is always followed by the right parenthesis with which it is paired.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ022   **INVALID SUBLIST '*xxxxxxxx*' IN ALTERNATE STATEMENT FORMAT**

Explanation: The termination of a macro prototype or macro instruction sublist written in the alternate statement format for sublists is invalid, either because the closing right parenthesis is missing, or because something other than a comma or a blank follows the closing right parenthesis. Only the first 8 characters of the sublist are inserted in the message list.

System Action: If the error is found in a prototype statement, the rest of the macro is checked for errors, but the macro is considered undefined. If the error occurs in a macro instruction, the macro is not generated.

Programmer Response: If a sublist is intended, make sure that the sublist is stopped immediately with a right parenthesis followed by a comma or blank. If a character string is intended, use the normal statement format instead.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ023   PARAMETER VALUE '*xxxxxxxx*' EXCEEDS 255 CHARACTERS

Explanation: The specified value is too long. The parameter value specified in a macro prototype statement (as a keyword parameter default value) or a macro instruction is limited to 255 characters. The text inserted in the message contains only the first 8 characters.

System Action: If the error is found in a macro prototype statement, the rest of the macro definition is checked for errors, but the macro is considered undefined. If the error is found in the macro instruction, the macro is not generated.

Programmer Response: Limit the length of the parameter to 255 characters, or separate the value into two or more parameters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ024   UNPAIRED APOSTROPHE

Explanation: An unpaired apostrophe (') is found in a parameter value specified in a macro prototype statement (as a keyword parameter default value) or a macro instruction. Single apostrophes in parameter values must be specified with double quotes appearing inside paired apostrophes (''''), unless they are used to specify attribute references in arithmetic expressions.

System Action: If the error is found in a macro instruction, the macro is not generated.

Programmer Response: Make sure all apostrophes are paired or double, or belong to attribute references.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ025   TOO MANY OPERANDS

Explanation: Too many operands have been found in a macro prototype statement or a macro instruction, or too many suboperands have been found in a sublist. The maximum number allowed is 200.

System Action: If the error is found in a macro prototype statement, the rest of the macro is considered undefined. If the error is found in a macro instruction, the macro is not generated. Only the first 8 characters of the default value are inserted in the message.

Programmer Response: Reduce the number of operands or include some of the operands in sublists

or, if too many suboperands have been found, split the sublist into two or more sublists.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ026   INVALID NAME FIELD '*xxxxxxxx*'

Explanation: The name field of a macro prototype statement or a macro instruction is invalid. The name field of a prototype statement must either be blank or contain a variable symbol specifying a name field parameter. The name field of a macro instruction must either be blank, or contain a sequence symbol or a valid ordinary symbol after substitution and concatenation. Only the first 8 characters of the default value are inserted in the message.

System Action: If the error is found in a macro prototype statement, the rest of the macro definition is checked for errors, but the macro is considered undefined. If the error is found in a macro instruction, the macro is not generated.

Programmer Response: Supply a valid name field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ027   NON-BLANK CHARACTER FOUND BEFORE CONTINUE COLUMN

Explanation: On a continuation record, one or more characters have been encountered in the begin column or in the column between the begin column (usually column 1) and the continue column (usually column 16). These columns must be blank.

System Action: The characters appearing before the continue column are ignored.

Programmer Response: If the record is intended as a continuation record, make sure the statement is continued in the correct column. If the record is not meant to be a continue record, check for an unintentional continuation indicator in the preceding record (usually in column 72).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ028 **INVALID KEYWORD PARAMETER DEFAULT VALUE**
'*xxxxxxx*'

Explanation: The default value specified for a keyword parameter in a macro prototype statement is invalid. The value must not contain variable symbols, and each sequence of consecutive ampersands must contain an even number of ampersands. Only the first 8 characters of the default value are inserted in the message.

System Action: The rest of the macro is checked for errors, but the macro is undefined.

Programmer Response: Delete variable symbols from the default value. Make ampersands double.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ029 **INVALID KEYWORD PARAMETER DEFAULT VALUE**
'*xxxxxxx*'

Explanation: The default value specified for a keyword parameter in a macro prototype statement is invalid. The value must not contain variable symbols, and any ampersands must be double; that is, each sequence of consecutive ampersands must contain an even number of ampersands. Only the first 8 characters of the default value are inserted in the message.

System Action: The rest of the macro definition is checked for errors, but the macro is undefined.

Programmer Response: Delete variable symbols from the default value. Make ampersands double.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ031 **NAME FIELD NOT BLANK**

Explanation: The name field is not blank, although it is required to be by this instruction.

System Action: The statement is processed as a comment.

Programmer Response: Remove the statement from the macro definition. Make sure that all keywords consist of a letter followed by 0 to 6 alphanumeric characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ032 **STATEMENT INCORRECTLY PLACED, MUST NOT BE IN MACRO DEFINITION**

Explanation: A statement has been found in a macro definition which is not allowed.

System Action: The statement is processed as a comment.

Programmer Response: Remove the statement from the macro definition. Make sure that all of your macro definitions end with a MEND instruction.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ033 **INVALID ISEQ OR ICTL OPERAND**

Explanation: One of the following errors has occurred:

- The operand field of an ISEQ instruction is invalid. It must either be a blank or consist of two decimal self-defining terms that do not fall between the begin and end columns, and the first value must not be greater than the second.

- The operand field of the ICTL statement is invalid. It must consist of 1 to 3 decimal self-defining terms, the first of which must be in the range of 1 to 40, the second in the range of 41 to 80, and the third in the range of 2 to 40 and greater than the first.

System Action: The statement is processed as a comment.

Programmer Response: Correct the operand field according to the rules given in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ034 **INVALID COPY OPERAND**

Explanation: The operand of a COPY instruction is not an ordinary symbol.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid ordinary symbol that corresponds to the name of a book in the copy code library. Ordinary symbols consist of 1 to 8 alphanumeric characters, the first of which is alphabetical.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ035   TOO MANY COPY NEST LEVELS

Explanation: More than three nesting levels of COPY instructions have been coded. Nesting occurs when a COPY instruction is coded in a book that is inserted by means of another COPY instruction.

System Action: The last COPY instruction is processed as a comment.

Programmer Response: Reduce the number of nesting levels by including some of the COPY books physically in the source module.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ036   COPY BOOK NOT IN LIBRARY

Explanation: The ordinary symbol specified in the operand of this COPY instruction is not the name of a copy book in the source statement library that is assigned to this job.

System Action: The statement is processed as a comment.

Programmer Response: Check that the operand is correct, assign the proper source statement library, or catalog the missing copy book.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ037   UNEXPECTED END-OF-FILE ON SYSSLB

Explanation: An end of file was encountered in the source statement library before the end of a book was reached. Since the end-of-file indicator is normally found only at the end of the COPY code library, the message indicates that the source statement library has been destroyed.

System Action: Processing of the copy book stops immediately. If the error occurs inside a source macro definition, a MEND instruction is generated.

Programmer Response: Reconstruct the source statement library.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

IFZ038   MEND STATEMENT MISSING, HAS BEEN ADDED

Explanation: An end of file occurred on SYSIPT during the processing of a macro definition, or a MEND instruction, which immediately ends a macro definition, is missing.

System Action: A MEND and an END instruction are inserted.

Programmer Response: Insert the missing MEND instruction or check for an unintentional end of file in the source module.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ039   END STATEMENT NOT IMMEDIATELY FOLLOWED BY END-OF-FILE

Explanation: The END statement identifying the end of the source module is not immediately followed by an end-of-data indicator statement (/*).

System Action: The records appearing between the END statement and end-of-data indicator are ignored.

Programmer Response: Move the END statement, or make sure your JCL statements are properly placed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ040   END STATEMENT MISSING, HAS BEEN ADDED

Explanation: No END statement was found in the source module.

System Action: An END statement is inserted at the end of the input.

Programmer Response: Supply an END statement at the end of your source module, or make sure that no end-of-data indicator (/*) has been placed inside your source module.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ041   **MEND STATEMENT MISSING IN COPY BOOK, HAS BEEN ADDED**

Explanation: A source macro definition was coded in a copy book, but the macro trailer (MEND) statement to indicate the end of the macro definition was not found in the copy book. The whole macro definition must be coded within one copy book.

System Action: The MEND instruction is inserted at the end of the copy book.

Programmer Response: Make sure that a macro always starts and ends in the same copy book. If a MACRO statement is found in a copy book, the corresponding MEND statement must also be in that copy book.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ042   **STATEMENT COMPLEXITY EXCEEDED**

Explanation: A conditional assembly statement of a macro instruction operand has more than 50 variable symbols.

System Action: A conditional assembly statement is treated as comments. A macro instruction operand in error will stop the generation of the macro.

Programmer Response: Do not use more than 50 variable symbol references in the same statement or a macro instruction operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ043   **OPERAND MISSING**

Explanation: This statement requires an operand, but none is found.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ044   **INVALID SYNTAX IN SET SYMBOL DECLARATION '*xxxxxxx*'**

Explanation: In a SET symbol declaration, a variable symbol is invalid, a comma separating two symbols is missing, or a character other than a blank immediately stops the field. The text inserted in the message gives 8 characters, starting with the character at which the error is found.

Programmer Response: Make sure that the operand field contains only valid variable symbols (possibly dimensioned), separated by commas.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ045   **INVALID DIMENSION '*xxxxxxxx*'**

Explanation: The dimension of a SET symbol is incorrectly specified. The dimension specification must follow immediately after the variable symbol and be an unsigned decimal value in the range of 1 to 255, enclosed in parentheses.

System Action: The symbol with the invalid dimension, and the rest of the statements, are ignored.

Programmer Response: Correct the subscript.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ046   **DIMENSION TOO LARGE, '*xxxxxxx*'**

Explanation: A SET symbol declaration specifies a dimension that is greater than 255. The string inserted in the message contains up to 8 characters, starting with the dimension value.

System Action: The symbol with the invalid dimension is ignored.

Programmer Response: Break up the SET symbol array into two or more arrays by using additional SET symbols.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ047   VARIABLE SYMBOL DUPLICATES SYSTEM VARI-
ABLE SYMBOL OR PREVIOUS DEFINITION,
'*xxxxxxx*'

Explanation: The first or only variable symbol in the
specified string is either of the following:

- A symbolic parameter, which is identical to a
  system variable symbol or another symbolic
  parameter specified in the same macro prototype
  statement

- A SET symbol, which is identical to a system vari-
  able symbol, a symbolic parameter specified in the
  same macro definition, or another SET symbol
  declared in the same macro definition or open
  code.

System Action: The flagged definition of the variable
symbol is ignored, as well as any further operands in
the statement. All references to the symbol are treated
as references to the first definition of the variable.

Programmer Response: Make sure that all variable
symbols within a macro definition or open code are
unique within that scope. Do not define system vari-
able symbols or symbolic parameters or SET symbols.
The system variable symbols are:

```
    &SYSECT         &SYSLIST
    &SYSNDX         &SYSPARM
```

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ048   INVALID SYNTAX IN CONDITIONAL ASSEMBLY
STATEMENT '*xxxxxxx*'

Explanation: A conditional assembly statement or a
statement with variable symbol substitution contains a
syntax error, for example:

- Invalid or misplaced characters are in an
  expression.

- The statement stops immediately before its logical
  end. This could be caused by an unintentional
  blank inside an expression.

- The sequence symbol in an AGO or AIF operand
  does not consist of a period followed by a letter
  and 1 to 6 letters or digits. The string in the
  message contains up to 8 characters starting
  where an error is found.

System Action: The statement is processed as a
comment.

Programmer Response: The first character of the
string in the message tells you where the syntax error
was found. Correct the error.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ049   '*xxxxxxx*' IS AN INVALID VARIABLE SYMBOL

Explanation: The specified variable symbol does not
consist of an ampersand followed by 1 to 7 alphanu-
meric characters, the first of which is alphabetical.

System Action: The statement is processed as a
comment.

Programmer Response: Supply a valid variable
symbol.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ050   INVALID ATTRIBUTE REFERENCE '*xxxxxxx*'

Explanation: The attribute reference is invalid for the
type attribute in this context, for example:

- A reference inside a macro definition refers to an
  ordinary symbol.

- An attribute reference refers to a SET symbol.

- A *K* or *N* attribute reference refers to an ordinary
  symbol.

System Action: The statement is processed as a
comment.

Programmer Response: Make sure the attribute ref-
erence is correct, that this type or attribute can refer to
this type or symbol, that the reference is properly
placed, and so on.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ051   INCORRECT VARIABLE SYMBOL IN NAME FIELD

Explanation: One of the following errors has
occurred:

- The symbol is declared to be of a type different
  from the type specified by the operation code in
  this statement.

- A system variable symbol or symbolic parameter
  appears in the name field of the SETx instruction.

System Action: The statement is processed as a
comment.

Programmer Response: Make sure the declaration
is correct, or change the operation code of this state-
ment. Do not use system variable symbols in the
name field of SETx instructions.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ052   **NAME FIELD MISSING**

Explanation: This statement requires a name field, but none is found.

System Action: The statement is processed as a comment.

Programmer Response: Supply the proper symbol in the name field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ053   **NAME FIELD NOT A SEQUENCE SYMBOL**

Explanation: This statement requires a sequence symbol in the name field, but no valid sequence symbol is found.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid sequence symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ054   **INVALID NAME FIELD, MUST NOT CONTAIN SEQUENCE SYMBOL OR BLANK**

Explanation: The name field of this statement does not contain an ordinary symbol or one or more variable symbols that result in a valid ordinary symbol.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid symbol or make sure that the result of variable symbol substitution and concatenation is a valid ordinary symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ055   **UNPAIRED LEFT PARENTHESIS**

Explanation: A left parenthesis in this statement does not have a corresponding right parenthesis.

System Action: The statement is processed as a comment.

Programmer Response: Supply the missing right parenthesis.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ056   **TOO MANY LEVELS OR PARENTHESES**

Explanation: This expression has more than five levels of parentheses.

System Action: The statement is processed as a comment.

Programmer Response: Reduce the number of levels of parentheses. Use additional SETA instructions, if necessary.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ057   **COUNT OR NUMBER ATTRIBUTE IN OPEN CODE**

Explanation: A count (K') or number (N') attribute has been encountered in open code. These attributes can only appear in macro definitions.

System Action: The statement is processed as a comment.

Programmer Response: Do not use the count or number attributes in open code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ058   **INVALID SUBSTRING NOTATION '*xxxxxxxx*'**

Explanation: The comma or the ending right parenthesis in a substring notation is missing. The string in the message consists of up to 8 characters, starting where the error is found.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the substring notation consists of two arithmetic expressions, separated by commas and enclosed in parentheses.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ059 **ILLEGAL USE OF SYSTEM VARIABLE SYMBOL**

Explanation: The specified system variable symbol is invalid in this context.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that &SYSLIST and &SYSNDX are not used in open code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ060 **SINGLE TERM IN LOGICAL EXPRESSION NOT SETB**

Explanation: A single term in this logical expression is invalid. A logical term must be an arithmetic relation, a character relation, or a SETB variable. Logical terms are combined to form logical expressions by logical operators (AND, OR, and NOT).

System Action: The statement is processed as a comment.

Programmer Response: Check the logical expression for omitted relational terms (EQ, LT, and so on) or mistyped characters or terms.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ061 **INCOMPLETE LOGICAL EXPRESSION '*xxxxxxxx*'**

Explanation: An expression in this statement ended prematurely because of one of the following errors:

- Unpaired parenthesis
- Invalid character
- Invalid operator
- Operator not followed by a term.

System Action: The statement is treated as comments.

Programmer Response: Correct the logical expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ062 **INVALID SELF-DEFINING TERM, '*xxxxxxxx*'**

Explanation: A self-defining term is incorrectly specified. It must be:

- One to 7 decimal digits whose value is in the range of 0 to 1 048 575
- One to 18 binary digits, enclosed by apostrophes (') and preceded by the character B
- One to 5 hexadecimal digits whose value is in the range of X'00' to X'FFFFF', enclosed by apostrophes and preceded by the character X
- One to 2 characters, enclosed by apostrophes and preceded by the character C.

The string in the message is up to 8 characters, starting with the invalid self-defining term.

System Action: The statement is processed as a comment.

Programmer Response: Correct the term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ063 **VALUE OF SELF-DEFINING TERM TOO LARGE, '*xxxxxxxx*'**

Explanation: The value of a decimal self-defining term in this statement is not in the range of 0 to 1 048 575.

System Action: The statement is processed as comments.

Programmer Response: Specify a value in the range specified in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ064 **OPEN CODE ATTRIBUTE REFERENCE TO '*xxxxxxxx*', WHICH IS NOT A VALID ORDINARY SYMBOL**

Explanation: This attribute reference does not specify a valid ordinary symbol. Any attribute reference used outside macro definitions must specify an ordinary symbol.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid ordinary symbol that is defined in the program.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the**

table source. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ065   SET SYMBOL USE INCONSISTENT WITH ITS DEC-LARATION, '*xxxxxxxx***'**

Explanation: Either the declaration specifies this symbol as dimensioned, but in this statement the symbol is used as undimensioned, or the declarations specified this symbol as undimensioned, but in this statement the symbol is used as dimensioned. The string in the message consists of up to 8 characters, starting with the symbol in error.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that your use of SET symbols is consistent with its declaration.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ066   PREVIOUSLY DEFINED SEQUENCE SYMBOL

Explanation: The sequence symbol specified in the name field of this statement has already been defined within the macro definition or open code.

System Action: The name field is ignored.

Programmer Response: Supply a sequence symbol that is unique within this macro definition or open code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ067   UNPAIRED RIGHT PARENTHESIS

Explanation: An expression in this statement contains a right parenthesis that is not matched by a preceding left parenthesis.

System Action: The statement is processed as a comment.

Programmer Response: Supply the missing left parenthesis, or delete the right parenthesis.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ068   VARIABLE SYMBOL UNDEFINED, '*xxxxxxxx***'**

Explanation: The first or only variable symbol in the string inserted in the message has not been declared as a global or local SET symbol within this macro definition or open code, has not been defined as a symbolic parameter within this macro definition, and is not a valid system variable symbol.

System Action: The statement is processed as a comment.

Programmer Response: Define the symbol as a symbolic parameter or a SET symbol. Remember that any global variable symbols used in macro definitions must be declared within the definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ069   SOURCE MACRO PREVIOUSLY DEFINED

Explanation: The operation code specified in the prototype statement is identical to the operation code of another source macro defined earlier in the program.

System Action: The flagged macro definition has been checked for errors. It cannot be generated.

Programmer Response: Supply a unique operation code for this definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ070   UNDEFINED SEQUENCE SYMBOL

Explanation: The sequence symbol used in this instruction is not defined within this macro definition or open code.

System Action: No conditional assembly branch is taken.

Programmer Response: Define the symbol in the name field within the macro definition or open code, or use a sequence symbol that is already defined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ071   ILLEGAL LENGTH ATTRIBUTE REFERENCE

Explanation: One of the following errors has occurred:

- The symbol specified in a length attribute reference (L) is not the name of a valid machine instruction, control section definition, CW instruction, DS instruction, or DC instruction.

- The symbol specified in a length attribute reference is the name of a DC or DS instruction containing variable symbols in the modifier field.

System Action: The length attribute reference is set to 1.

Programmer Response: Make sure the length attribute refers to a symbol for which the length attribute references are valid.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ072   ILLEGAL SCALE ATTRIBUTE REFERENCE

Explanation: The symbol referred to by a scale attribute reference (S) is not found in the name field of a valid fixed-point DC or DS instruction.

System Action: The scale attribute reference is set to 0.

Programmer Response: Make sure the scale attribute refers to a symbol for which the scale attribute references are valid.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ073   ILLEGAL INTEGER ATTRIBUTE REFERENCE

Explanation: The symbol referred to by an integer attribute reference (I) is not found in the name field of a valid, fixed-point, DC, or DS instruction.

System Action: The integer attribute reference is set to 0.

Programmer Response: Make sure the scale attribute refers to a symbol for which the integer attribute references are valid.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ074   OVERFLOW DURING ADDITION IN ARITHMETIC EXPRESSION

Explanation: During the evaluation of an arithmetic expression, the addition of two terms produces a result that falls outside the range of -2^{31} to $2^{31}-1$.

System Action: The result of the addition is set to zero.

Programmer Response: Make sure that all the values in this expression are valid. Try to avoid overflow by adjusting the sequence in which the terms are placed in the expression. If necessary, separate the expression into two or more expressions (using SETA instructions) so that each of them is evaluated individually before they are combined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ075   OVERFLOW DURING SUBTRACTION IN ARITHMETIC EXPRESSION

Explanation: During the evaluation of an arithmetic expression, the subtraction of two terms produces a result that falls outside the range of -2^{31} to $2^{31}-1$.

System Action: The result of the subtraction is set to zero.

Programmer Response: Make sure that all values in the expression are valid. Try to avoid overflow by adjusting the sequence in which the terms are placed in the expression. If necessary, separate the expression into two or more expressions (using SETA instructions) so that each of them is evaluated separately before they are combined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ076   OVERFLOW DURING MULTIPLICATION IN ARITHMETIC EXPRESSION

Explanation: During the evaluation of an arithmetic expression, the multiplication of two terms produces a result that falls outside the range of -2^{31} to $2^{31}-1$.

System Action: The result of the multiplication is set to zero.

Programmer Response: Make sure that all the values in the expression are valid. Try to avoid overflow by adjusting the sequence in which the terms are placed in the expression. If necessary, separate the expression into two or more expressions (using SETA instructions) so that each of them is evaluated separately before they are combined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ077 CHARACTER STRING USED IN ARITHMETIC EXPRESSION TOO LONG

Explanation: The character string used as an arithmetic term is longer than 8 characters.

System Action: The value of the SETC variable is replaced by zero in the arithmetic expression.

Programmer Response: Make sure that any variable symbols used in arithmetic expressions have a length of 1 to 8 characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ078 CHARACTER STRING USED IN ARITHMETIC EXPRESSION CONTAINS NON-DECIMAL CHARACTER

Explanation: A character other than the numerals 0 to 9 has been used in a parameter or SETC symbol used in an arithmetic term.

System Action: The value of the parameter or SETC variable is replaced by zero in the arithmetic expression.

Programmer Response: Make sure that any parameter or SETC symbol used in arithmetic expressions uses only the numerals 0 to 9 and is no longer than 8 characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ079 NULL CHARACTER STRING USED IN ARITHMETIC EXPRESSION

Explanation: A SETC symbol used as an arithmetic term is a null string (zero length or blank).

System Action: The values of the SETC symbols used in arithmetic expressions have a value of 1 to 8 decimal characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ080 PARAMETER SUBSCRIPT OUT OF RANGE

Explanation: A symbolic parameter subscript value is outside the range of 1 to 200.

System Action: The reference is treated as a reference to an omitted operand; that is, the value of a null string is assigned to it.

Programmer Response: Supply a subscript value in the range of 1 to 200.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ081 LENGTH OF CONCATENATED STRING EXCEEDS 255 CHARACTERS

Explanation: During the concatenation of strings, an intermediate string exceeding 255 characters is generated.

System Action: The first 255 characters are used as the intermediate result.

Programmer Response: Make sure that the total length of two strings concatenated with each other does not exceed 255 characters. If needed, change the sequence of string evaluation by performing substring operation before concatenation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ082 SUBSCRIPT EXCEEDS DECLARED DIMENSION

Explanation: An arithmetic expression used to specify the subscript of a SET symbol has a value that exceeds the value specified in the declaration of the symbol.

System Action: If the error is found in a conditional assembly statement, the statement is processed as a comment. The error is found during substitution in one of the fields (name, operation, or operand) of a model statement. The whole field is replaced by a null value. If the error is found during substitution in a macro instruction operand, the operand is set to null value, but any other operands in the operand field are generated.

Programmer Response: Make sure that the arithmetic expression has a value in the range of 1 to the declared dimension of the SET symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ083 **SUBSCRIPT ZERO OR NEGATIVE**

Explanation: An arithmetic expression used to specify the subscript of a SET symbol has a value that is zero or negative.

System Action: If the error is found in a conditional assembly statement, the statement is processed as comments. If the error is found during substitution in one of the fields (name, operation, and operand) or a model statement, the whole field is replaced by a null value. If the error is found during substitution in a macro instruction operation, the operand is set to a null value, but any other operands in the operand field are generated.

Programmer Response: Make sure that the arithmetic expression has a value in the range of 1 to the declared dimension of the SET symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ084 **ACTR LIMIT EXCEEDED**

Explanation: The number of AIF and AGO branches within the macro definition or open code exceeds the value specified in the ACTR instruction or the conditional assembly loop counter default value.

System Action: If a macro is being generated, its generation stops immediately. If open code is being processed, all remaining statements are processed as comments.

Programmer Response: Correct the conditional assembly loop that caused the loop counter to be exceeded, set the counter limit to be exceeded, or set the counter to a higher value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ085 **FIRST SUBSTRING EXPRESSION ZERO OR NEGATIVE**

Explanation: The arithmetic expression used to specify the starting character of a substring operation has a zero or negative value.

System Action: The result of the substring operation is a null string.

Programmer Response: Make sure that the arithmetic expression used to specify the starting character of the substring has a positive value not exceeding the length of the character string.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ086 **FIRST SUBSTRING EXPRESSION EXCEEDS STRING LENGTH**

Explanation: The arithmetic expression used to specify the starting character of a substring operation has a value greater than the length of the string.

System Action: The result of the substring operation is a null string.

Programmer Response: Make sure that the arithmetic expression used to specify the starting character of the substring has a positive value not exceeding the length of the character string.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ087 **SECOND SUBSTRING EXPRESSION NEGATIVE**

Explanation: The arithmetic expression used to specify the length of a substring has a negative value.

System Action: The result of the substring operation is a null string.

Programmer Response: Make sure that the arithmetic expression used to specify length has a zero or positive value, and that the specified length does not extend beyond the end of the character string.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ089 **SETC OPERAND TOO LONG.**

Explanation: The character string value in a SETC operand contains more than 8 characters.

System Action: Only the first 8 characters are assigned to the SETC symbol.

Programmer Response: Make sure that the value of the SETC expression contains no more than 8 characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ090   SYSLIST SUBSCRIPT NEGATIVE

Explanation: The arithmetic expression used to specify a &SYSLIST subscript has a negative value.

System Action: The reference is treated as a reference to an omitted operand; that is, the value of a null string is assigned to it.

Programmer Response: Supply a nonnegative value in the &SYSLIST subscript.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ091   PARAMETER VALUE INVALID FOR LENGTH ATTRIBUTE REFERENCE

Explanation: One of the following errors has occurred:

- A length attribute reference specified a symbolic parameter whose value is not the name of a machine instruction, control section definition, CW instruction, DS instruction, or DC instruction.

- A length reference specified a symbolic parameter whose value is the name of a DS or DC instruction containing variable symbols in the modifier field.

System Action: The length attribute reference is set to 1.

Programmer Response: Make sure that the referenced macro instruction operand is a symbol for which length attribute references are valid, or delete the length attribute reference from the macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ092   PARAMETER VALUE INVALID FOR SCALE ATTRIBUTE REFERENCE

Explanation: A scale attribute reference specified a symbolic parameter whose value is not the name of a fixed-point DC or DS instruction.

System Action: The scale attribute reference is set to 0.

Programmer Response: Make sure that the referenced macro instruction operand is a symbol for which scale attribute references are valid, or delete the scale attribute reference from the macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ093   PARAMETER VALUE INVALID FOR INTEGER ATTRIBUTE REFERENCE

Explanation: An integer attribute reference specifies a symbolic parameter whose value is not the name of a fixed-point DC or DS instruction.

System Action: The integer attribute reference is set to zero.

Programmer Response: Make sure that the referenced macro instruction operand is a symbol for which integer attribute references are valid, or delete the integer attribute reference from the macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ094   PARAMETER VALUE INVALID IN ARITHMETIC EXPRESSION

Explanation: The value of a symbolic parameter used in an arithmetic expression is either not a valid self-defining term or is not 1 to 8 decimal characters created by variable symbol substitution in the macro instruction.

System Action: The symbolic parameter is replaced by the value of zero in the arithmetic expression.

Programmer Response: Make sure that the referenced macro instruction operand is a valid self-defining term or 1 to 8 decimal characters created by substitution, or remove the symbolic parameter from the arithmetic expression in the macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ095   TOO MANY ERRORS IN THIS STATEMENT

Explanation: More than five errors were detected during the processing of a conditional assembly statement or a statement with variable symbol substitution.

System Action: If more errors are found, they will not be flagged.

Programmer Response: Correct the indicated errors, and check for further errors beyond the point indicated by the fifth error message. Any additional errors will be detected in the next assembly.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ096 GENERATED STATEMENT TOO LONG

Explanation: The total length of the statement exceeds 248 characters after generation.

System Action: The statement is processed as a comment. If any part of the remarks field falls outside the space allowed for this statement, no part of the remarks field is listed.

Programmer Response: Make sure that the total length of a statement after generation does not exceed 248 characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ097 UNDEFINED OP CODE, OR MACRO NOT FOUND

Explanation: The operation code of this statement does not correspond to any of the following:

- A machine instruction operation code
- An assembler instruction operation code
- The operation code of a valid library macro or a valid source macro.

System Action: The statement is processed as a comment.

Programmer Response: Change the operation code to a valid machine, assembler, or macro operation code, or correct the corresponding macro definition. If the error occurred for a library macro, make sure that the correct source statement library is assigned.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ098 KEYWORD PARAMETER '*xxxxxxxx*' DUPLICATED OR NOT DEFINED

Explanation: A keyword parameter appears more than once in a macro instruction, or a keyword parameter appears in a macro instruction where its definition is not defined as a keyword parameter. The message will also be given if a positional parameter contains an equal sign not enclosed in a quoted string or parentheses.

System Action: If the keyword parameter is duplicated, the first parameter value is accepted. If the parameter is undefined, it is ignored.

Programmer Response: Delete the keyword from the macro instruction, define the parameter in the macro definition, or enclose the equal sign within apostrophes or parentheses.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ099 TOO MANY MACROS CALLED

Explanation: The dictionary space available to the assembler is not large enough to generate all the different macros that are called in the source module.

System Action: The whole assembly is processed as comments.

Programmer Response: Increase the size of the partition allocated to the assembly, or separate the module into smaller modules to be assembled separately.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ100 TOO MANY MACROS CALLED OR TOO MANY VARIABLE SYMBOLS

Explanation: The dictionary space available to the assembler is not large enough to contain all the different macros, local variable symbols in open code, and global variable symbols that are used in this source module.

Programmer Response: Increase the size of the partition allocated to assembly, or separate the module into smaller source modules to be assembled separately, making sure that references to a variable symbol all remain in the same module.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ101 DICTIONARY SPACE FOR VARIABLE SYMBOLS EXHAUSTED '*xxxxxxxx*'

Explanation: The dictionary space available to the assembler is insufficient to contain all the different macros and global variable symbols of the entire assembly plus all the local SET symbols and symbolic parameters used in the macro being generated.

System Action: The generation of the macro stops immediately.

Programmer Response: Increase the size of the partition allocated to assembly, reduce the number of local variable symbols, or separate the module into smaller source modules to be assembled separately.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the
table source. Save all input and output and notify
your IBM representative.

Severity Code: 12 (VSE only). Serious errors were
detected. Your program will not run correctly. Notify
your IBM representative for assistance.

IFZ102   **SEQUENCE SYMBOL UNDEFINED**

Explanation: A sequence symbol used in the
operand of an AGO or AIF instruction is not defined in
the name field of an instruction in the same macro
definition or open code.

System Action: The next sequential instruction is
processed.

Programmer Response: Define the sequence
symbol in the macro, or use a sequence symbol that is
already defined.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 4 (VSE only). Minor errors were
detected. Your program probably will run correctly.

IFZ103   **REFERENCE TO GLOBAL VARIABLE SYMBOL
WITH INCONSISTENT DECLARATION OF TYPE OR
DIMENSION**

Explanation: A global variable symbol is used whose
declaration within this macro or open code is incon-
sistent with a previous declaration of the same global
symbol. The inconsistency occurred in either the type
or the dimension specification.

System Action: The statement is processed as a
comment. If any part of the remarks field falls outside
the space allowed for this statement, no part of the
remarks field is listed.

Programmer Response: Make sure that all declara-
tions of a global variable symbol are identical; for
example, a global symbol cannot be declared as a
SETB symbol in one macro and a SETA symbol in
another; and it cannot be declared as dimensioned in
one macro and undimensioned in another, or as
having a dimension of 50 in one macro and 85 in
another.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ104   **OP CODE '*xxxxxxxx*' GENERATED**

Explanation: One of the following assembler opera-
tion codes has been created by substitution and is not
allowed to be generated.

```
AGO     AGOB    AIF     AIFB    ANOP    COPY
END     GBLA    GBLB    GBLC    ICTL    ISEQ
LCLA    LCLB    LCLC    MACRO   MEND    MEXIT
PRINT   REPRO   SETA    SETB    SETC
```

System Action: The generated statement is proc-
essed as comments.

Programmer Response: Make sure that none of the
operation codes listed in the explanation is created by
substitution.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ105   **GENERATED OP CODE '*xxxxxxxx*' UNDEFINED OR
INVALID**

Explanation: The operation code created by substi-
tution is not a valid machine or assembler instruction
operation code (macro instructions are not allowed to
be generated).

System Action: The generated statement is proc-
essed as comments.

Programmer Response: Make sure that the gener-
ation in the operation field results in a valid operation
code.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ106   **GENERATED OP CODE IS BLANK**

Explanation: The operation code created by substi-
tution contains no characters or only blank characters.

System Action: The generated statement is proc-
essed as comments.

Programmer Response: Make sure that substitution
results in a valid machine or assembler operation
code.

Attention: This error can indicate that a problem has
been detected in the table source generated by NDF.
**If you are using NDF do not attempt to correct the
table source**. Save all input and output and notify
your IBM representative.

Severity Code: 8 (VSE only). Major errors were
detected. Your program probably will not run.

IFZ107   **MACRO '*xxxxxxxx*' NOT EXPANDABLE DUE TO
ERROR IN DEFINITION**

Explanation: In a source macro, the prototype state-
ment of the macro definition contains errors. In a
library macro, the library macro contains an error
defined by another error message (of the type that has
no statement number).

System Action: The statement is processed as a
comment.

Programmer Response: For a source macro, correct
the prototype statement. For a library macro, edit and
catalog the macro again.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ108   MACRO '*xxxxxxx*' NOT EXPANDABLE DUE TO ERROR IN MACRO INSTRUCTION

Explanation: An error has been found in a substitution expression in a macro instruction operand.

System Action: The statement is processed as a comment.

Programmer Response: Check the other error messages on this macro instruction and correct the errors.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ109   INVALID OR ILLEGAL NAME FIELD

Explanation: Either the name field is not blank and does not contain a valid ordinary symbol (1 to 8 alphanumeric characters, the first of which is alphabetical), or an ordinary symbol is in a name field that should contain only a sequence symbol or blank (CNOP, ORG, END USING, DROP).

System Action: The name field is ignored.

Programmer Response: Supply a valid ordinary symbol; delete the characters from the name field; or, if you want to write a comment statement, supply an asterisk in the begin column, or remove entries in the name field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ110   NAME FIELD TOO LONG

Explanation: The symbol in the name field exceeds 8 characters.

System Action: The name field is ignored.

Programmer Response: Make sure that the name field is blank or contains a valid ordinary symbol (1 to 8 alphanumeric characters, the first of which is alphabetical).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ111   GENERATED SEQUENCE SYMBOL

Explanation: A period is found in the name field of a generated statement.

System Action: The name field is ignored.

Programmer Response: Make sure the value generated in the name field is either a valid ordinary symbol or blank.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ112   INVALID CHARACTER IN CONSTANT, '*xxxxxxx*'

Explanation: Subfield 4 (constant) of a DC or DS instruction contains characters that are invalid for the type of constant specified in subfield 2.

System Action: The DS or DC instruction is processed as a comment.

Programmer Response: Make sure that the characters used to specify the value of the constant are valid for this type of constant. Change either the type or the value specification.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ113   SYMBOL '*xxxxxxx*' TOO LONG

Explanation: The specified symbol contains more than 8 characters. Only the first 8 characters of the symbol are identified in the message.

System Action: The operand is checked for further errors, but this operand and any further operands are ignored when the object code is generated.

Programmer Response: Supply a valid symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ114   RIGHT PARENTHESIS MISSING, '*xxxxxxxx*'

Explanation: In the operand indicated in the message, a left parenthesis not matched by a right parenthesis has been found, or the parentheses have been incorrectly placed in the operand. For example, MVC(1,2),(4) will cause this message to be issued. The first character in the string inserted in the message indicates where the right parenthesis was expected. If only a blank appears in the string, the right parenthesis was expected at the end of the operand.

System Action: The operand and the rest of the operand field is ignored.

Programmer Response: Make sure that the parentheses are paired and correctly placed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ115   UNPAIRED APOSTROPHE

Explanation: A final apostrophe has not been found to end the quoted string in this statement.

System Action: The statement is ignored.

Programmer Response: Supply the missing apostrophe.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ116   INVALID SELF-DEFINING TERM, '*xxxxxxxx*'

Explanation: The first or only self-defining term specified in the text inserted in the message contains invalid characters or a null value. For example, in B'102',X", the double quotation mark (") is invalid.

System Action: The operand in which the term appears is ignored.

Programmer Response: Supply a valid decimal, binary, hexadecimal, or character self-defining term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ117   VALUE OF SELF-DEFINING TERM '*xxxxxxxx*' TOO LARGE

Explanation: The value of the specified self-defining term is either too long or too large. Valid symbols are:

- One to 6 decimal digits whose value is in the range of 0 to 1 048 575
- One to 18 binary digits enclosed by apostrophes and preceded by the character B (B'1100110')
- One to 5 hexadecimal digits whose value is in the range of X'00' to X'FFFFF', enclosed by apostrophes and preceded by the character X
- One to 2 characters enclosed by apostrophes and preceded by the character C (C'AB').

System Action: The operand in which the term appears is ignored.

Programmer Response: Correct the term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ118   ILLEGAL ATTRIBUTE REFERENCE, '*xxxxxxxx*'

Explanation: The length attribute reference does not specify a valid ordinary symbol or location counter reference (*). The first character of the inserted string indicates the point where the invalid attribute reference was found.

System Action: The operand is ignored.

Programmer Response: Supply a valid ordinary symbol or location counter reference.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ119   TOO MANY OPERATORS, '*xxxxxxxx*'

Explanation: More than 15 operators have been found in the operand specified by the message. The first character of the inserted string indicates the point where too many operators have been encountered.

System Action: The operand is ignored.

Programmer Response: Limit the number of operators. If necessary, use EQU instructions to break up the expression into smaller expressions.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ120 **TOO MANY LEVELS OF PARENTHESES, '*xxxxxxxx*'**

Explanation: More than five levels of parentheses are used in an expression in the operand specified by the message. The first character in the string indicates the point where too many levels of parentheses have been encountered.

System Action: The operand is ignored.

Programmer Response: Limit the number of levels of parentheses. If necessary, use EQU instructions to break up the expression into smaller expressions, each of which is evaluated separately.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ121 **ILLEGAL CHARACTER IN EXPRESSION, '*xxxxxxxx*'**

Explanation: In an expression an invalid character has been found in or instead of a term. The first character of the text inserted in the message identifies the invalid character.

System Action: The operand in error and the rest of the statement are ignored.

Programmer Response: Supply a valid term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ122 **INVALID DELIMITER, '*xxxxxxxx*'**

Explanation: An operand or suboperand is not delimited by a comma, a left or right parenthesis, or a blank. The first character of the text inserted in the message identifies the invalid delimiter.

System Action: The operand in error and the rest of the statement are ignored.

Programmer Response: Make sure that all the delimiters in the statement are correct.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ123 **INVALID TYPE SPECIFICATION, '*xxxxxxxx*'**

Explanation: The type specified in subfield 2 of a DC or DS instruction is invalid or missing. The text inserted in the message consists of up to 8 characters, starting at the point where a valid type specification is expected.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid type specification (A, B, C, F, H, R, V, X, or Y).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ124 **INVALID SYMBOL IN ENTRY, EXTRN, OR WXTRN STATEMENT**

Explanation: An ENTRY, EXTRN, or WXTRN instruction contains an invalid symbol. The operand field of these statements must consist of one or more ordinary symbols separated by commas. Any ordinary symbols defined by the ENTRY instruction must also appear in the name field of an instruction in this source module.

System Action: The operand in error and the rest of the statement are ignored.

Programmer Response: Make sure that the operand field follows the rules given in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ126 **EXPONENT MODIFIER USED ILLEGALLY, '*xxxxxxxx*'**

Explanation: An exponent modifier is specified for a DC or DS instruction operand that is not a fixed-point type constant. The character string inserted in the message consists of up to 8 characters starting with the invalid exponent modifier.

System Action: The statement is processed as a comment.

Programmer Response: Delete the exponent modifier or change the type specification.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ127 **SCALE MODIFIER USED ILLEGALLY** '*xxxxxxxx*'

Explanation: The scale modifier is specified for a DC or DS instruction operand that is not a fixed-point type constant.

System Action: The statement is processed as a comment.

Programmer Response: Delete the scale modifier or change the type specification.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ128 **CONSTANT FIELD MISSING OR PRECEDED BY INVALID FIELD,** '*xxxxxxxx*'

Explanation: In a DC instruction operand, either invalid characters are found between the modifier and constant subfield, or the constant subfield does not contain any nominal value. The first character in the string indicates the point where the invalid constant value was found.

System Action: The statement is processed as a comment.

Programmer Response: Delete the invalid characters or supply a nominal value, or change the operation code to DS if you wish only to specify a data area.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ129 **INVALID DUPLICATION FACTOR OR MODIFIER,** '*xxxxxxxx*'

Explanation: A syntax error was found in the duplication factor subfield (subfield 1) or the modifier subfield (subfield 3) of this DC or DS instruction operand. The first character in the string indicates the point where the invalid constant value was found.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the syntax in the expression is correct.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ133 **TOO MANY SYMBOLS IN STATEMENT**

Explanation: More than 50 symbols have been specified in an ENTRY, EXTRN, or WXTRN instruction.

System Action: The first 50 symbols are processed.

Programmer Response: Place the excessive operands in an additional ENTRY, EXTRN, or WXTRN instruction.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ134 **STATEMENT COMPLEXITY EXCEEDED,** '*xxxxxxxx*'

Explanation: One of the following errors has occurred:

- More than one operand has been specified in a DC or DS instruction.
- The constant subfield of a DC or DS operand contains too many symbols or terms, or both. The maximum number of symbols and terms that can be handled by the assembler is approximately 30.

The first character in the string indicates the point where the invalid character was found.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that only one period is coded, or break up the constant subfield into two or more statements.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ135 **SYMBOL** '*xxxxxxxx*' **PREVIOUSLY DEFINED**

Explanation: The ordinary symbol defined in this instruction, either by appearing in the name field or by appearing in the operand field of an EXTRN or WXTRN instruction, has already been defined within the source module.

System Action: The second definition is ignored.

Programmer Response: Supply a name that does not conflict with any other symbols in the program.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ136 **ARITHMETIC OVERFLOW (IN OPERAND** *n***)**

Explanation: During the evaluation of an expression, a value has been reached that is outside the range of -2^{31} to $2^{31}-1$.

System Action: The expression is ignored.

Programmer Response: Rearrange the terms or expression to avoid overflow. If necessary, use EQU statements to separate the expression into smaller expressions that can be evaluated and then combined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ137 **EXPRESSION COMPLEXLY RELOCATABLE (IN OPERAND** *n***)**

Explanation: A complexly relocatable expression is used in the operand field of an EQU, CNOP, or ORG instruction or in the modifier subfield of a DC or DS instruction operand.

System Action: The statement is processed as a comment.

Programmer Response: Correct the expression so that it is simply relocatable (EQU, ORG) or absolute (EQU, CNOP, modifiers).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ138 **TOO FEW OPERANDS**

Explanation: This statement requires more operands than are supplied.

System Action: The statement is processed as a comment.

Programmer Response: Supply the missing operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ139 **INVALID DUPLICATION FACTOR (IN OPERAND** *n***)**

Explanation: The duplication factor is relocatable.

System Action: The statement is processed as a comment.

Programmer Response: Supply an absolute value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ140 **INVALID LENGTH MODIFIER (IN OPERAND** *n***)**

Explanation: The length modifier is either too large, zero, or relocatable. The maximum value allowed for the length modifier varies with the type specified for this operand.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the length modifier is an absolute value in the range allowed for this type of constant.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ141 **INVALID SCALE MODIFIER (IN OPERAND** *n***)**

Explanation: The expression used to specify the scale modifier is relocatable.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the scale modifier expression specifies an absolute value, and that any symbols used in it have been previously defined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ142 **INVALID EXPONENT MODIFIER (IN OPERAND** *n***)**

Explanation: The expression used to specify the exponent modifier is relocatable.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the exponent modifier expression specified an absolute value, and that any symbols used in it have been previously defined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ143   INVALID CNOP OPERAND

Explanation: One or both of the operands in this CNOP instruction are invalid. Only the following combinations are allowed:

```
0,4      2,4      0,8
2,8      4,8      6,8
```

System Action: The statement is processed as a comment.

Programmer Response: Supply one of the combinations listed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ144   INVALID END OPERAND

Explanation: The operand of the END instruction is invalid. It must be a simply relocatable expression whose value represents an address within an ordinary control section (that is, not a dummy or common control section) in this source module, or an external reference.

System Action: The operand field is ignored.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ145   RELOCATABLE TERM IN DIVIDE OR MULTIPLY OPERATION (IN OPERAND n)

Explanation: A relocatable term is used in a multiply or divide operation in an expression in this statement.

System Action: The statement is processed as a comment.

Programmer Response: Use only absolute terms in divide or multiply operations.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ146   NAME MISSING

Explanation: The name is missing in the EQU or EQUR instruction.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid name field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ147   INVALID START STATEMENT

Explanation: One of the following errors has occurred:

- The operand field is not a blank or an absolute value.

- The START instruction does not identify the beginning of the first control section in this source module. It was preceded by another START instruction, a CSECT instruction, or a statement that causes an unnamed control section (private code to be initiated).

System Action: The statement is processed as a CSECT statement.

Programmer Response: Make sure that any operand specified is an absolute value, and that the START instruction initiates the first control section in the source module.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ148   ILLEGAL SYMBOL '*xxxxxxxx*' IN ENTRY STATE-MENT

Explanation: The specified symbol is not defined as a relocatable symbol within an ordinary control section (not a dummy or common control section), or is defined as an EXTRN symbol, or has already appeared as an entry statement.

System Action: The symbol is ignored.

Programmer Response: Make sure that the ENTRY operand is a valid external name as defined in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ149   SYMBOL '*xxxxxxxx*' NOT PREVIOUSLY DEFINED

Explanation: The specified symbol appears in an EQU, ORG, or CNOP operand or in the modifier sub-field or a DC or DS instruction, but has not been defined prior to this use. These fields require that any symbols used in them be previously defined.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the definition of this symbol precedes this statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ150   VALUE OF ORG OPERAND LESS THAN CONTROL SECTION STARTING ADDRESS

Explanation: The operand of an ORG instruction results in a value less than the starting address of the control section.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the operand of the ORG instruction is a positive relocatable expression, greater than the starting address in the control section.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ151   LOCATION COUNTER OVERFLOW

Explanation: The location counter value is greater than or equal to X'FFFFF'.

System Action: The location counter is carried in 3 bytes. When overflow occurs, the location counter will not be updated and every statement that causes over-flow will be flagged.

Programmer Response: The probable cause of the error is a high ORG instruction value or a high START instruction value. Correct the value or divide the control section.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ152   ORG OPERAND VALUE NOT WITHIN THIS CONTROL SECTION

Explanation: The operand of an ORG instruction is not a simply relocatable expression whose value falls within the current control section.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the resulting value of the expression in the operand field falls within the control section where the ORG is coded. Any relo-catable symbols defined in other control sections must be paired. That is, each such term must be matched by another term from the same control section with the opposite sign.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ153   ILLEGAL USE OF LOCATION COUNTER REFER-ENCE

Explanation: A location counter reference (*) is used in the modifier subfield of a DC or DS instruction, in literals, or in the operand of a CNOP instruction.

System Action: The statement is processed as a comment.

Programmer Response: Remove the invalid location counter reference.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ154   TOO MANY ENTRY SYMBOLS

Explanation: The number of ENTRY operands speci-fied in this source module exceeds 10.

System Action: ENTRY operands encountered in the rest of the assembly are ignored.

Programmer Response: Reduce the number of ENTRY operands, or separate the module into two or more modules.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ155   TOO MANY EXTERNAL SYMBOLS

Explanation: Too many entries have been made in the external symbol dictionary. Only 255 entries can be made for the following: control sections, dummy sections, common control sections, and external references (EXTRN, WXTRN, V-type constants). ENTRY operands are not counted towards this maximum, but the number of ENTRY operands must not exceed 100.

System Action: No more symbols are entered in the external symbol dictionary. The rest of the source module is assembled as part of the control section currently being processed.

Programmer Response: Reduce the number of ESD items, or separate the source module into two or more modules.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ156   SYMBOL '*xxxxxxxx*' UNDEFINED

Explanation: The specified symbol has not been defined within the module. It has not appeared in the name field of an instruction or in the operand field of an EXTRN or WXTRN instruction.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the symbol is defined, or use a symbol that has already been defined.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ158   TOO MANY OPERANDS

Explanation: Too many operands have been coded for this statement.

System Action: If the statement is an assembler instruction, the excessive operands are ignored. If the statement is a machine instruction, zeros are generated in the object module.

Programmer Response: Delete the excessive operands, and make sure that the format of the operand field is correct.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ159   TOO FEW OPERANDS

Explanation: This instruction requires more operands than are specified.

System Action: Zeros are generated in the object module.

Programmer Response: Supply the right number of operands; make sure that the format of the operand field is correct.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ160   COMPLEXLY RELOCATABLE EXPRESSION IN OPERAND *n*

Explanation: A complexly relocatable expression has been used in an operand where a simply relocatable or absolute expression is required.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a valid expression, either simply relocatable or absolute.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ161   OPERAND *n* NOT A CURRENT BASE REGISTER

Explanation: The register in the operand of this DROP instruction is not a current base register, either because it has not been specified as a base register by a previous USING instruction, or because it has been encountered in a previous DROP instruction.

System Action: The operand is ignored.

Programmer Response: Make sure that the operand is currently being used as a base register.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ162   ADDRESS OPERAND OUT OF RANGE

Explanation: The address operand in a R-type instruction must be an absolute or relocatable expression in the range of 0 to $2^{20}-1$.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a valid address operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ163   ADDRESSABILITY ERROR IN OPERAND *n*

Explanation: An address specified in the operand of this statement is not covered by any base register. It does not appear in the range of a USING instruction, or a relocatability of transfer address is not the same as that of the instruction which makes reference.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the address of the symbol in the operand falls within the ranges of an address instruction. It must be within the first 127 bytes of the address specified in the USING instruction.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ164   INVALID USE OF SYMBOLIC REGISTER IN OPERAND *n*

Explanation: A symbolic register expression is specified when an absolute relocatable or complexly relocatable expression is required, or a symbolic register expression appears in a multi-term expression.

System Action: Zeros are generated in the object module.

Programmer Response: Supply an expression that is not a symbolic register expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ165   REGISTER VALUE IN OPERAND *n* **NOT ODD**

Explanation: The indicated operand does not specify an odd register value.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Specify an odd-numbered register in the range of 1 to 7.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ166   REGISTER VALUE IN OPERAND *n* **OUT OF RANGE**

Explanation: The register number specified in this operand is not in the range required by this instruction.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Specify a register value in the range of 0 to 7.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ167   REGISTER VALUE IN OPERAND *n* **NOT ABSOLUTE**

Explanation: The register number specified in this operand is not an absolute value.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Specify an absolute value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ168   EXTERNAL REGISTER VALUE IN OPERAND *n* **OUT OF RANGE**

Explanation: External register specification is not a value from 0 to 127.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a value in the valid range.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ169 EXTERNAL REGISTER VALUE IN OPERAND *n* NOT ABSOLUTE

Explanation: External register specification is not an absolute expression.

System Action: Zeros are generated in the object module.

Programmer Response: Supply an absolute value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ170 IMMEDIATE VALUE IN OPERAND *n* OUT OF RANGE

Explanation: The value specified as an immediate value is negative or too high. The allowable range is 0 to 255.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Supply an absolute value in the range of 0 to 255.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ172 DISPLACEMENT VALUE IN OPERAND *n* OUT OF RANGE

Explanation: The displacement value in the specified operand is not in the range 0 to 127.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Make sure that the displacement is specified as an absolute value in the range of 0 to 127.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ173 DISPLACEMENT VALUE IN OPERAND *n* NOT ABSOLUTE

Explanation: The displacement value in the specified operand is relocatable.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Make sure that the displacement is specified as an absolute value in the range of 0 to 127.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ174 BIT SELECTION VALUE IN OPERAND *n* OUT OF RANGE

Explanation: Bit specification is not an expression with a value from 0 to 7.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a value in the valid range.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ175 BIT SELECTION VALUE IN OPERAND *n* NOT ABSOLUTE

Explanation: Bit specification is not an absolute expression.

System Action: Zeros are generated in the object module.

Programmer Response: Supply an absolute value from 0 to 7.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ176 BASE REGISTER VALUE IN OPERAND *n* OUT OF RANGE

Explanation: The value specified in the base register subfield of this operand is not in the range of 0 to 7.

System Action: Zeros are generated instead of this instruction in the object module.

Programmer Response: Make sure that the base register is specified as an absolute value in the range of 0 to 7.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ177   BASE REGISTER VALUE IN OPERAND *n* NOT ABSOLUTE

Explanation: The value specified in the base register subfield of this operand is not absolute.

System Action: Zeros are generated instead of the instruction in the object module.

Programmer Response: Make sure that the base register is specified as an absolute value in the range of 0 to 7.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ178   BYTE SELECTION VALUE IN OPERAND *n* OUT OF RANGE

Explanation: Byte specification is not a value of 0 or 1. In the case of the extended mnemonic BBE, the value should be in the range of 0 to 15.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a value in the valid range.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ179   BYTE SELECTION IN OPERAND *n* NOT ABSOLUTE

Explanation: Byte specification is not an absolute expression.

System Action: Zeros are generated in the object module.

Programmer Response: Supply an absolute value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ180   SUBFIELD MISSING IN OPERAND *n*

Explanation: An operand that should contain two subfields has only one, or an operand that should contain three subfields has only one or two. This error can be caused by specifying an expression that is not a symbolic register in a position where a symbolic register was intended.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ181   REGISTER VALUE 0 SPECIFIED AS BASE REGISTER

Explanation: Register 0 has been specified as a base register in a USING or DROP instruction. Only register values from 1 to 7 are permitted.

System Action: The operand is ignored.

Programmer Response: Supply a valid register value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ182   ALIGNMENT ERROR IN OPERAND *n*

Explanation: The operand refers to a storage location that is not on the boundary required by this instruction.

System Action: Zeros are generated in the object module.

Programmer Response: Correct the address specification.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ183   SUBFIELD SPECIFIED ILLEGALLY IN OPERAND *n*

Explanation: One of the following has occurred:

- Three subfields have been specified in an operand where only two are allowed.
- Three subfields have been specified where only one is allowed.
- Two subfields have been specified where only one is allowed.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a correct operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ184 **EXPONENT MODIFIER OUT OF RANGE IN CONSTANT** *n* **(OPERAND** *m***)**

Explanation: The value of the exponent modifier is too large or too small. The sum of the exponent modifier and the exponent specification in the constant must be in the range of –85 to +75.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the total value of the exponent in the constant subfield and the exponent modifier in the modifier subfield is in the range of –85 to +75.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ185 **SCALE MODIFIER OUT OF RANGE IN CONSTANT** *n* **(OPERAND** *m***)**

Explanation: The scale modifier is either too large or too small. For a fixed-point constant, the allowed range is –187 to +346.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the scale modifier value falls in the range described in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ186 **ABSOLUTE TRANSFER ADDRESS IN OPERAND** *n*

Explanation: The transfer address specified is an absolute expression.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a relocatable expression for transfer address.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ187 **TRANSFER ADDRESS IN OPERAND** *n* **OUT OF RANGE**

Explanation: The transfer address specified is out of the available displacement range. The range is –1024 to +1024 halfwords of BCL, BZL, and B, and –62 to +64 halfwords for BB and BCT, as counted from the instruction location.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a transfer address within the valid range.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ188 **INVALID SYNTAX IN DATA FIELD OF CONSTANT** *n* **(OPERAND** *m***)**

Explanation: The syntax is invalid in the present constant subfield of this operand. For instance, an E is present to designate an exponent, but no exponent is found.

System Action: Zeros are generated in the source module.

Programmer Response: Correct the syntax of the statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ189 **DATA ITEM TOO LARGE IN CONSTANT** *n* **(OPERAND** *m***)**

Explanation: The constant specified in the constant subfield of the DC or DS instruction operand is too large for the data type or for the length specified explicitly in the length modifier.

System Action: The value is truncated on the left.

Programmer Response: Change the type specification or the length modifier.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ190 **LENGTH MODIFIER ILLEGAL WITH CONSTANT** *n* **(OPERAND** *m***)**

Explanation: An A-, R-, or Y-type address constant has been specified with an explicit length that is correct for absolute expressions, but not for relocatable expressions.

System Action: Zeros are generated in the object module.

Programmer Response: Change the length modifier to allow the expression to be relocatable or to make the expression absolute.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ191 **ILLEGAL EXPRESSION IN ADDRESS CONSTANT** *n* **(OPERAND** *m***)**

Explanation: Only an expression with no subfields is allowed in an address constant.

System Action: Zeros are generated in the object module.

Programmer Response: Supply a simple expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ192 **ILLEGAL EXPRESSION IN OPERAND** *n*

Explanation: Only an expression with no subfields is allowed as a CW operand.

Programmer Response: Supply a simple expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ193 **ALIGNMENT ERROR IN OPERAND 4**

Explanation: Operand 4 of a CW instruction does not contain an even address.

System Action: The operand is accepted as it is specified.

Programmer Response: Supply an operand 4 value that is even.

Attention: This error can indicate that a problem has

been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ194 **TOO FEW OPERANDS**

Explanation: Fewer than four operands were found in a CW instruction.

System Action: Zeros are generated in the object module.

Programmer Response: Supply the missing operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ195 **OPERAND** *n* **NOT ABSOLUTE**

Explanation: The value specified in operands 1, 2, or 3 is not an absolute value.

System Action: Zeros are generated instead of the CW in the object module.

Programmer Response: Make sure that the values of the expressions in operands 1, 2, and 3 are absolute.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ196 **TOO MANY OPERANDS**

Explanation: More than four operands have been found in a CW instruction.

System Action: Zeros are generated in the object module.

Programmer Response: Delete the excessive operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ197 VALUE OF OPERAND *n* OUT OF RANGE

Explanation: The value specified for the operand identified in the message is too high or is negative. The value of operand 1 must be in the range of 0 to 3, the value of operand 2 must be in the range of 0 to 3, and the value of operand 3 must be in the range of 0 to 1023.

System Action: Zeros are generated in the object module.

Programmer Response: Make sure that the operand specifies an absolute value in the range described in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ198 SYMBOL IN ADDRESS OPERAND DEFINED IN DUMMY SECTION

Explanation: A symbol in a CW address operand is defined in a dummy section. If a symbol in an expression in the address operand is defined in a dummy section, the symbol must be paired with another symbol with the opposite sign defined in the same dummy section.

System Action: Zeros are generated in the object module.

Programmer Response: Delete any symbols in a CW address operand defined in dummy sections, or make sure they are paired with other symbols defined in the same dummy section.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ199 DUMMY SECTION SYMBOL USED ILLEGALLY IN CONSTANT *n* (OPERAND *m*)

Explanation: A dummy section symbol appearing in the constant subfield of this address constant is defined in a dummy section. If a symbol in an expression in the constant subfield is defined in the dummy section, the symbol must be paired with another symbol with the opposite sign defined in the same dummy section.

System Action: Zeros are generated in the object module.

Programmer Response: Delete any dummy section symbols, or make sure they are paired with other symbols defined in the same dummy section.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

If you are using NDF do not attempt to correct the table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ200 NAME FIELD TOO LONG

Explanation: The length of the symbol in the name field exceeds 8 characters.

System Action: The name field is ignored.

Programmer Response: Make sure that the name field is not longer than 8 characters.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ201 NAME FIELD NOT SEQUENCE SYMBOL OR BLANK

Explanation: The name field contains something other than a valid sequence symbol or blank. The following instructions must have a blank or a sequence symbol in the name field:

```
EJECT    PRINT
SPACE    MNOTE
PUNCH    REPRO
TITLE
```

Note that the first TITLE in the module does not use a blank.

System Action: The name field is ignored.

Programmer Response: Supply up to 4 alphanumeric characters in the name field, or leave the name field blank.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ203 TITLE NAME CONTAINS NON-ALPHANUMERIC CHARACTER

Explanation: A non-alphanumeric character was encountered in the name field of the first TITLE statement in the program.

System Action: The name field is ignored.

Programmer Response: Supply one to four alphanumeric characters, or leave the name field blank.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ204   OPERAND MISSING

Explanation: The operand field of a PRINT, PUNCH, or TITLE statement is blank.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid operand field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ205   FIRST APOSTROPHE MISSING

Explanation: The first apostrophe in the operand of an MNOTE, PUNCH, or TITLE instruction is missing.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that the operand is a character combination enclosed in apostrophes.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ206   SINGLE AMPERSAND IN OPERAND

Explanation: A single ampersand that is not part of a variable symbol appears in the MNOTE, PUNCH, or TITLE operand.

System Action: The statement is processed as a comment.

Programmer Response: Make sure that an ampersand that is meant to be part of the operand rather than of a variable symbol in the operand is coded as a double ampersand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ207   LAST APOSTROPHE MISSING

Explanation: The operand of an MNOTE, PUNCH, or TITLE instruction does not end with a single apostrophe.

System Action: The statement is processed as a comment.

Programmer Response: Supply the closing apostrophe.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ208   TITLE OR PUNCH OPERAND TOO LONG

Explanation: The operand of a TITLE or PUNCH instruction is too long. The maximum length of the TITLE operand is 100 characters, excluding the enclosing apostrophes, and the maximum length of the PUNCH operand is 80 characters, excluding the enclosing apostrophes.

System Action: The statement is processed as a comment.

Programmer Response: Supply an operand that does not exceed the length described.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ209   OPERAND FIELD ILLEGALLY TERMINATED

Explanation: The closing apostrophe of an MNOTE, PUNCH, or TITLE operand is not immediately followed by a blank. This message can be caused by a single apostrophe coded or generated inside the enclosing apostrophes or by a missing blank between the operand field and the remarks field.

System Action: The statement is processed as a comment.

Programmer Response: Make sure all apostrophes inside the enclosing apostrophes are coded as double apostrophes, or supply the missing blank between the operand and the remarks field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ211   NON-DECIMAL CHARACTER IN OPERAND

Explanation: The operand of a SPACE instruction contains non-decimal characters, or the severity code operand of an MNOTE instruction contains characters that are not decimal or an asterisk.

System Action: The statement is processed as a comment.

Programmer Response: Supply a decimal value or (for MNOTE only) an asterisk.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the**

table source. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ212 — INVALID PRINT OPERAND

Explanation: The operand of a PRINT instruction does not specify one or more of the following values: ON, OFF, GEN, NOGEN, DATA, or NODATA.

System Action: The statement is processed as a comment.

Programmer Response: Supply 1 to 3 operands that do not conflict with each other from the operands listed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ213 — CONFLICTING PRINT OPERANDS

Explanation: Conflicting operands have been speci-fied in a PRINT statement. Only one value from each of the following three pairs can be specified: ON/OFF, GEN/NOGEN, and DATA/NODATA.

System Action: The statement is processed as a comment.

Programmer Response: Delete conflicting values.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ214 — '*x*' IS AN INVALID DELIMITER

Explanation: An operand in a PRINT statement is not immediately followed by a comma or a blank.

System Action: The statement is processed as a comment.

Programmer Response: Supply the correct delimiter.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ215 — OPERAND FIELD INCOMPLETE

Explanation: A PRINT instruction ends with a comma followed by a blank, or an MNOTE instruction contains a severity code operand but no message operand.

System Action: The statement is processed as a comment.

Programmer Response: Delete the comma or supply the additional operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ216 — MNOTE GENERATED

Explanation: An MNOTE statement specified with a severity code, or an explicitly omitted (by means of a comma) severity code has been encountered.

System Action: Processing continues.

Programmer Response: Determine the cause of the message by referring to the source statements section of the listing. The MNOTE message is written at the statement number supplied with the message.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: VSE only. The severity will be the severity of the MNOTE statement.

IFZ217 — MNOTE SEVERITY VALUE TOO HIGH

Explanation: The severity code specified in the first operand of an MNOTE instruction is greater than 255.

System Action: The statement is processed as a comment.

Programmer Response: Supply a severity code in the range of 0 to 255 or omit the first operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ218 — NULL STRING IN PUNCH OPERAND

Explanation: The operand field of a PUNCH state-ment contains only two apostrophes placed imme-diately after each other.

System Action: The statement is processed as a comment.

Programmer Response: Supply 1 to 80 characters inside the apostrophes.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ220   TOO MANY SUBFIELDS SPECIFIED IN EQUR OPERAND

Explanation: Operands in EQUR statements can only be of two kinds: R(N) and Q.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid operand as described in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ221   REGISTER SPECIFIED IN EQUR OPERAND IS NOT 1, 3, 5, OR 7.

Explanation: An EQUR operand can be of two kinds: R(N), or Q. The R must be an odd register: 1, 3, 5, or 7.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid odd register.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ222   RELOCATABLE EXPRESSION IN EQUR OPERAND

Explanation: Only absolute expressions are allowed in EQUR operands.

System Action: The statement is processed as a comment.

Programmer Response: Supply an absolute expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ223   BYTE SELECTION SUBFIELD MISSING

Explanation: Operands in EQUR statements can only be of two kinds: R(N) and Q.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid operand as described in the explanation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ224   INVALID USE OF SYMBOLIC REGISTER

Explanation: A symbolic register expression is specified where an absolute, relocatable, or complexly relocatable expression is required, or a symbolic register expression appears in a multi-term expression.

System Action: The statement is processed as a comment.

Programmer Response: Supply an expression that is not a symbolic register expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ225   TOO MANY OPERANDS IN EQUR INSTRUCTION

Explanation: EQUR can only have one operand.

System Action: The statement is processed as a comment.

Programmer Response: Make sure only one operand is specified.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IFZ226   INVALID BYTE SELECTION IN EQUR OPERAND

Explanation: Byte specification is not an expression with a value of 0 or 1.

System Action: The statement is processed as a comment.

Programmer Response: Supply a valid byte specification.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the**

table source. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ227   INVALID ORIGIN FOR RELOCATABLE R-TYPE CON-STANT

Explanation: A relocatable R-type constant is assembled at location zero.

System Action: No RLD is produced for this constant.

Programmer Response: Move the constant to allocation other than zero.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 4 (VSE only). Minor errors were detected. Your program probably will run correctly.

IFZ230   PERMANENT I/O ERROR ON SYS00x

Explanation: An unrecoverable input or output error occurred on the device to which this file is assigned.

System Action: The assembly stops immediately. No listing is produced.

Programmer Response: Do one of the following:

- Reassemble the program.

- Rerun the job using a different device for the file indicated in the message.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ231   INVALID DEVICE FOR SYS00x

Explanation: The device assigned for this file cannot be used as a work file by the assembler.

System Action: The assembly stops immediately. No listing is produced.

Programmer Response: Do one of the following:

- If you have supplied an ASSGN statement for this work file, correct the ASSGN statement so that it specifies a direct-access device that can be used by the assembler. If you have not supplied any ASSGN statement, rerun the job, making sure that the work files are assigned to direct-access storage devices.

- Use the ASSGN command to assign the indicated field to a direct-access storage device and rerun the job.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ232   SYSxxx NOT ASSIGNED

Explanation: This file is required by the assembler, either because it is a work file, or because it is required by an option specified in the OPTION statement. In this case, the file is not assigned or the IGNORE option is specified for the file. The IGN option is valid only for SYSPCH and SYSLST.

System Action: The assembly stops immediately. No listing is produced.

Programmer Response: Rerun the job making sure that the indicated field is assigned; change the corresponding option on the OPTION statement; or execute the LISTIO command and verify the assignments. Submit an ASSGN command for the file indicated in the message, and rerun the job.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ233   ASSEMBLER PARTITION TOO SMALL/DE-EDITOR PARTITION TOO SMALL

Explanation: Insufficient bytes are allocated for the assembler. The assembler must not be loaded into less than 20KB.

Note: In a foreground partition the assembler is always loaded immediately after the save area.

System Action: The assembly stops immediately. No listing produced.

Programmer Response: Do one of the following:

- Use the ALLOC command to increase the size of the partition and rerun the job.

- Specify a larger partition for the job and rerun it.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ234   END OF EXTENT FOR SYS00x

Explanation: The direct access storage extent assigned for this file is not large enough.

Note: Multiple extents are not used for an assembler work file.

System Action: The assembly stops immediately. No listing is produced.

Programmer Response: If you have supplied DLBL and EXTENT statements for the file in your job, increase the extent specified in the EXTENT statement and rerun the job. If not, check the LSERV output to make sure that the standard assignment for this file specifies an extent that is large enough. If you do not wish to change the EXTENT size, separate the program into two or more source modules and assemble each module separately; or if the standard assignment for the file indicated in the message was used by this job, execute LSERV and return the output to the programmer.

See *VSE/ESA System Utilities* for more information on the use of the LSERV program.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ235   WRONG RECORD LENGTH

Explanation: The work file record just read contains a length indication of either less than 0 or greater than 1050. This might be an assembler error.

System Action: The system writes a dump of the affected partition and cancels the job.

Programmer Response: If you supplied DLBL and EXTENT statements in your job, make sure that there is no overlap on the work files. Rerun the job with different work files specified.

If the error persists, notify your IBM representative for a search of its known-problems database.

IFZ236   ASSEMBLER CANNOT CONTINUE/DE-EDITOR CANNOT CONTINUE

Explanation: If this message is preceded by other messages, the preceding message explains the reason why the assembler cannot continue. If the message is not accompanied by other messages, an error in the logic of the assembler has been encountered.

System Action: Assembly stops immediately. No listing is produced. If the message is caused by an error in the assembler, a main storage dump of the assembler area is given.

Programmer Response: Do one of the following:

- If the message is caused by another error message, perform the actions indicated for that message. Otherwise, save your job stream, SYSLOG listing, and SYSLST listing before you notify your IBM representative.

- If the message is preceded by another error, ignore this message and perform the actions indicated for the preceding message. If this message appears alone, consider the preceding job immediately ended.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ240   TOO MANY MACROS

Explanation: The capacity of the assembler is exceeded.

System Action: All statements will be treated as comments.

Programmer Response: Separate the source module into smaller modules, and assemble each module separately.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ241   TOO MANY GLOBAL VARIABLE SYMBOLS

Explanation: The partition allocated to the assembler is not large enough to process the source module because too many global symbols have been used.

System Action: All statements will be treated as comments.

Programmer Response: Increase the size of the partition, or reduce the number of global symbols by grouping them together in SET symbol arrays (subscripted SET symbols).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 16 (VSE only). Critical errors were detected. Notify your IBM representative for assistance.

IFZ242   INCONSISTENT TYPE OF GLOBAL VARIABLE SYMBOL '*xxxxxxxx*' IN '*yyyyyyyy*'

Explanation: The type of variable symbol specified in the declaration is inconsistent with the type specified in another macro or in open code. For example, if a global symbol is declared as a SETA symbol in one macro definition, it must be declared as a SETA symbol in all macro definitions where it is used.

System Action: All declarations inconsistent with the first declaration are not considered valid. The macro definitions are processed in the order in which they

appear in the source definition, with all outer macros first, followed by the inner macros of the first level, inner macros of the second level, and so on. Open code is processed last.

Programmer Response: Make sure all global declarations are consistent.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ243   **INCONSISTENT DIMENSION OF GLOBAL VARI-ABLE SYMBOL '*xxxxxxx*' IN '*yyyyyyyy*'**

Explanation: The dimensions specified in the declaration of global variable symbols are different in different macros, or open code or a global symbol is declared as dimensional in one macro definition and undimensional in another.

System Action: All declarations inconsistent with the first declaration encountered are ignored. The macro definitions are processed in the order in which they appear in the source with all outer macros first, followed by all inner macros of the first level, all inner macros of the second level, and so on. Open code is processed last.

Programmer Response: Make sure all global declarations are consistent.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected.

IFZ244   **SYSSLB RECORD '*nnn*' IN MACRO '*xxxxxxxx*' NOT IN SEQUENCE**

Explanation: This library macro definition was not in the proper order when it was cataloged; the specific record was out of sequence.

System Action: The macro is not generated.

Programmer Response: Catalog the macro definition again, making sure that all the records are in the right sequence.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ245   **MACRO '*xxxxxxx*' CATALOGED UNDER DIF-FERENT NAME '*yyyyyyyy*'**

Explanation: This library macro definition was not cataloged under the correct name. The name under which a macro is cataloged must always be identical to the operation code of the macro as it is specified in the macro prototype statement.

System Action: The macro is not generated.

Programmer Response: Catalog the macro under its own name (operation code), or change the operation to match the book name.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ246   **UNEXPECTED END-OF-FILE ON SYSSLB AT RECORD '*nnn*' IN MACRO '*xxxxxxx*'**

Explanation: End of file was encountered in the source statement library before the end of a book had been reached, or record length is greater than 80 bytes. Since the end-of-file indicator is normally only found at the end of the sublibrary, the message indicates that the source statement library has been destroyed.

System Action: The macro is not generated.

Programmer Response: Reconstruct the source statement library.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ247   **UNEXPECTED END OF BOOK AT RECORD '*nnn*' IN LIBRARY MACRO '*xxxxxxx*'**

Explanation: Some statements at the end of this definition were missing in this macro definition when it was cataloged.

System Action: The macro is not generated.

Programmer Response: Catalog a complete version of the macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ248   '*xxxxxxxx*' **NOT AN EDITED MACRO**

    Explanation: The macro library that corresponds to the specified operations code is not recognized as an edited macro.

    System Action: The macro is not generated.

    Programmer Response: Catalog an edited version of the macro definition.

    Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

    Severity Code: 8 (VSE only). Major errors were detected. Your program probably will not run.

IFZ250   **ERRORS FOUND IN MACRO '***xxxxxxxx***' EDECK NOT PUNCHED**

    Explanation: Since errors were found in this macro definition, no edited macro is punched, even though a punch was requested by means of the EDECK option.

    Programmer Response: Correct the errors in the macro definition and reassemble.

    Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **If you are using NDF do not attempt to correct the table source**. Save all input and output and notify your IBM representative.

    Severity Code: 12 (VSE only). Serious errors were detected. Your program will not run correctly. Notify your IBM representative for assistance.

IHR Messages

Note: The errors in this section indicate a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR000 **OPERATION-CODE NOT ALLOWED TO BE GENERATED**

Explanation: An attempt was made to produce a restricted operation code by variable symbol substitution. Restricted operation codes are:

```
ACTR   AGO    AGOB   AREAD
AIF    AIFB   ANOP   SETA
COPY   REPRO  ICTL   SETB
MACRO  MEND   MEXIT  SETC
GBLA   GBLB   GBLC
LCLA   LCLB   LCLC
```

System Action: The statement is ignored.

Programmer Response: If you want a variable operation code, use AIF to branch to the correct unrestricted statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR002 **GENERATED STATEMENT TOO LONG. STATEMENT TRUNCATED**

Explanation: The statement generated by a macro definition is more than 864 characters long.

System Action: The statement is truncated; the leading 864 characters are retained.

Programmer Response: Shorten the statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR003 **UNDECLARED VARIABLE SYMBOL. DEFAULT = 0, NULL, OR TYPE = U**

Explanation: A variable symbol in the operand field of the statement has not been declared (defined) in the name field of a SET statement, in the operand field of an LCL or GBL statement, or in a macro prototype statement.

System Action: The variable symbol is given a default value as follows:

    SETA = 0
    SETB = 0
    SETC = null (empty string).

Programmer Response: Declare the type attribute (T') of the variable *before* you use it as an operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

Do not try to correct the table source. Save all input and output and notify your IBM representative.

IHR004 **DUPLICATE SET SYMBOL DECLARATION. FIRST IS RETAINED**

Explanation: A SET symbol has been declared (defined) more than once. A SET symbol is declared when it is used in the name field of a SET statement, in the operand field of an LCL or GBL statement, or in a macro prototype statement.

System Action: The value of the first declaration of the SET symbol is used.

Programmer Response: Eliminate the incorrect declarations.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR005 **NO CORE FOR INNER MACRO CALL. CONTINUE WITH OPEN CODE**

Explanation: An inner macro call could not be executed because no main storage was available.

System Action: The assembly is continued with the next open code statement.

Programmer Response: Check whether the macro is recursive, and, if so, whether termination is provided. Correct the macro if necessary. If the macro is correct, allocate more main storage.

If you are generating under MVS, increase the region size allocated to the NDF step in the JCL.

If you are generating under VM, define a larger virtual storage.

For more information on defining virtual storage see *NCP, SSP, and EP Generation and Loading Guide*. Rerun the generation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR007 **PREVIOUSLY DEFINED SEQUENCE SYMBOL**

Explanation: The sequence symbol in the name field has been used in the name field of a previous statement.

System Action: The first definition of the sequence symbol is used and the new definition is ignored.

Programmer Response: Remove or change one of the sequence symbols.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR008   **PREVIOUSLY DEFINED SYMBOLIC PARAMETER**

Explanation: The same variable symbol has been used to define two different symbolic parameters.

System Action: When the parameter name (the variable symbol) is used inside the macro definition, it will refer to the *first* definition of the parameter in the prototype. However, if the second parameter defined by the variable symbol is a positional parameter, the count of positional operands will still be increased by one. The second parameter can then be referred to only with a &SYSLIST.

Programmer Response: Change one of the parameter names to another variable symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR009   **SYSTEM VARIABLE SYMBOL ILLEGALLY RE-DEFINED**

Explanation: A system variable symbol has been used in the name field of a macro prototype statement. The system variable symbols are:

```
&SYSECT      &SYSDATE
&SYSLIST     &SYSLOC
&SYSNDX      &SYSPARM
&SYSTIME
```

System Action: The name parameter is ignored. The name on a corresponding macro instruction will not be generated.

Programmer Response: Change the parameter to one which is not a system variable symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR011   **INCONSISTENT GLOBAL DECLARATIONS. FIRST IS RETAINED**

Explanation: One of the following has occurred:

- A global SET variable symbol has been defined in more than one macro definition.

- The symbol has been defined inconsistently in the source program and in a definition macro.

System Action: The first definition found is retained.

Programmer Response: Change the parameter to one that is not a system variable symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR012   **UNDEFINED SEQUENCE SYMBOL. MACRO ABORTED**

Explanation: A sequence symbol in the operand field is not used in the name field of a model statement.

System Action: Exit from the macro definition.

Programmer Response: Define the sequence symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR013   **ACTR COUNTER EXCEEDED**

Explanation: The conditional assembly loop counter (set by an ACTR statement) has been decremented to zero. The ACTR counter is decremented by one each time an AIF or AGO branch is executed successfully. The counter is halved for most errors found by the macro editor phase of the assembler.

System Action: A macro expansion stops immediately. If the ACTR statement is in the source program, the assembly stops immediately.

Programmer Response: Check for an AIF/AGO loop or another type of error. If there is no error, increase the initial count on the ACTR instruction.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR015   **R-TYPE CONSTANT OUT OF RANGE**

Explanation: An R-type constant is larger than 65 535 ($2^{16}-1$) or less than 0.

System Action: The constant is truncated. The high-order bits are lost.

Programmer Response: Supply a value for the R-type constant that is in the range 0 to 65 535.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR016   **INVALID LOCATION FOR R-TYPE CONSTANT**

Explanation: An R-type constant is defined within the first two bytes of a CSECT.

System Action: The R-type constant is not assembled and the location counter remains unchanged.

Programmer Response: Make sure that the R-type constant is not defined within the first two bytes of the CSECT.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR017 **UNDEFINED KEYWORD PARAMETER. DEFAULT TO POSITIONAL INCLUDING KEYWORD**

Explanation: A keyword parameter in a macro call is not defined in the corresponding macro prototype statement.

Note: This message may be generated by a valid positional parameter that contains an equal sign.

System Action: The keyword (including the equal sign and value) is used as a positional parameter.

Programmer Response: Define the keyword in the prototype statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR018 **DUPLICATE KEYWORD IN MACRO CALL. LAST VALUE IS USED.**

Explanation: A keyword operand occurs more than once in a macro call.

System Action: The last value assigned to the keyword is used.

Programmer Response: Eliminate one of the keyword operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR020 **ILLEGAL GBL OR LCL STATEMENT**

Explanation: A GBL or LCL declaration statement does not have an operand.

System Action: The last value assigned to the keyword is used.

Programmer Response: Remove the statement or add an operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR021 **ILLEGAL SET STATEMENT**

Explanation: The operand of a SETB statement is not 0, 1, or a SETB expression enclosed in parentheses.

System Action: The statement is ignored.

Programmer Response: Correct the operand or delete the statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR023 **SYMBOLIC PARAMETER TOO LONG**

Explanation: A symbolic parameter in this statement is too long. It must not exceed 63 characters including the initial ampersand.

System Action: The symbolic parameter and any operands following it in this statement are ignored.

Programmer Response: Make sure all symbolic parameters consist of an ampersand followed by 1 to 62 alphanumeric characters, the first of which is alphabetical.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR024 **INVALID VARIABLE SYMBOL**

Explanation: One of the following errors has occurred:

- A symbolic parameter or a SET symbol is not an ampersand followed by 1 to 62 alphanumeric characters, the first being alphabetical.
- A created SET symbol definition is not a valid SET symbol expression enclosed in parentheses.

System Action: The statement is ignored.

Programmer Response: Supply a valid symbol or expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR025 **INVALID MACRO PROTOTYPE OPERAND**

Explanation: The format of the operand field of a macro prototype statement is invalid. For example, two parameters are not separated by a comma, or a parameter contains a character that is not allowed.

System Action: The operand field of the prototype is ignored.

Programmer Response: Supply a valid operand field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR026 **MACRO CALL OPERAND TOO LONG. 255 LEADING CHARACTERS DELETED**

Explanation: An operand of a macro instruction is more than 255 characters long.

System Action: The leading 255 characters are deleted.

Programmer Response: Limit the operand to 255 characters, or break it down into two or more operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR027   EXCESSIVE NUMBER OR OPERANDS

Explanation: One of the following errors has occurred:

- More than 240 positional or keyword operands, or both, have been explicitly defined in a macro prototype statement.
- There are more than 255 operands in a DC, DS, or DXD statement.

System Action: The excess parameters are ignored.

Programmer Response: For a DC, DS, or DXD statement, use more than one statement. For a macro prototype statement, delete the extra operands and use a &SYSLIST to access the positional operands, or redesign the macro definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR028   INVALID DISPLACEMENT

Explanation: The displacement field of an explicit address is not an absolute value within the range of 0 to 4095.

System Action: The statement or constant is assembled as 0.

Programmer Response: Correct the displacement or supply an appropriate USING statement containing an absolute first operand before this statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR029   INCORRECT REGISTER OR MASK SPECIFICATION

Explanation: Either the value specifying a register or a mask is not an absolute value within the range of 0 to 15, an odd register is used where an even register is required, or a register is used where none can be specified.

System Action: For USING and DROP statements, the invalid register operand is ignored.

Programmer Response: Specify a valid register.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR032   RELOCATABLE VALUE FOUND WHERE ABSOLUTE VALUE REQUIRED

Explanation: A relocatable or complex relocatable expression is used where an absolute expression is required.

System Action: In a DC, DS, or DXD statement, the operand in error and the operands following it are ignored.

Programmer Response: Supply an absolute expression or term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

Do not try to correct the table source. Save all input and output and notify your IBM representative.

IHR033   ALIGNMENT ERROR

Explanation: An address referred to by this statement might not be aligned to the proper boundary for this instruction.

System Action: The instruction is assembled as written.

Programmer Response: Correct the operand if it is in error.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR034   ADDRESSABILITY ERROR

Explanation: The address referred to by this statement does not fall within the range of a USING statement, or a base register is specified along with a relocatable displacement.

System Action: The instruction is assembled as zero.

Programmer Response: Insert an appropriate USING statement before this statement. Otherwise, check this statement for a misspelled symbol, an unintended term or symbol in an address expression, or a relocatable symbol used as a displacement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR035   INVALID DELIMITER

Explanation:

- A required delimiter in a DC, DS, or DXD statement is missing or appears where none should be. The error may be any of these:
    - A single quotation mark with an address constant
    - A left parenthesis with a non-address constant
    - A constant field not started with a single quotation mark, left parenthesis, blank, or comma
    - An empty constant field in a DC
    - A missing comma or right parenthesis following an address constant
    - A missing right parenthesis in a constant modifier expression.
- A parameter in a macro prototype statement was not followed by a valid delimiter: a comma, equal sign, or blank.

System Action: The operand or parameter in error and the operands or parameters following are ignored.

Programmer Response: Supply a valid delimiter.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR037   ILLEGAL SELF-DEFINING VALUE

Explanation: A term contains invalid characters or is in a format that is not allowed.

System Action: In a macro definition, the entire statement is ignored.

Programmer Response: Supply a valid self-defining term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR038   OPERAND VALUE FALLS OUTSIDE OF CURRENT SECTION

Explanation: An ORG statement specifies a location outside the control section in which the ORG is used.

System Action: The statement is ignored.

Programmer Response: Change the ORG statement if it is wrong. Otherwise, insert a CSECT, DSECT, or COM statement to set the location counter to the proper section before the ORG statement is executed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR039   LOCATION COUNTER ERROR

Explanation: The location counter has exceeded $2^{24}-1$, the largest address that can be contained in 3 bytes. This occurrence is called location counter wraparound.

System Action: The location counter is 4 bytes long (only 3 bytes appear in the object definition). The overflow is carried into the high-order byte and the assembly continues. However, the resulting code will probably not execute correctly.

Programmer Response: The probable cause is a high ORG statement value or a high START statement value. Correct the value or split up the control section.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR040   MISSING OPERAND

Explanation: This statement requires an operand and one is not present.

System Action: The assembler instruction is ignored.

Programmer Response: Supply the missing operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR041   TERM EXPECTED. TEXT IS UNCLASSIFIABLE

Explanation: One of the following errors has occurred:

- A term was expected, but the character found is not one that starts a term (letter, number, =, -, *).
- A letter and a single quotation mark did not introduce a valid term; the letter is not L, C, X, or B.

System Action: Another message will accompany an assembler statement.

Programmer Response: Check for missing punctuation, a wrong letter on a self-defining term, a bad attribute request, a leading comma, or a dangling comma.

Note: The length attribute is the only one accepted here. If a scale, type, or integer attribute is needed, use a SETA statement and substitute the variable symbol where the attribute is needed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR042   LENGTH ATTRIBUTE OF UNDEFINED SYMBOL. DEFAULT = 1

Explanation: This statement has a length attribute reference to an undefined symbol.

System Action: The L' attribute defaults to 1.

Programmer Response: Define the symbol that was referred to.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR043   PREVIOUSLY DEFINED SYMBOL

Explanation: The symbol in a name field or in the operand field of an EXTRN statement was defined (used as a name or an EXTRN/WXTRN operand) in a previous statement.

System Action: The name or EXTRN/WXTRN operand of this statement is ignored. The operands following an EXTRN or WXTRN will be processed. The first occurrence of the symbol will define it.

Programmer Response: Correct a possible spelling error or change the symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR044   UNDEFINED SYMBOL

Explanation: A symbol in the operand field was not used in the name field of another statement or in the operand field of an EXTRN or WXTRN.

User Response: An address constant is assembled as zero. In a DC, DS, DXD statement or in a duplication-factor or length-modifier expression, the operand in error and the operands following are ignored. In an EQU statement, zero is assigned as the

value of the undefined symbol. Any other instruction is ignored entirely.

Programmer Response: Define the symbol or remove the references to it.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR045   REGISTER NOT PREVIOUSLY USED

Explanation: A register specified in a DROP statement has not been previously specified in a USING statement.

System Action: Registers not currently active are ignored.

Programmer Response: Remove the unreferenced registers from the DROP statement. You can drop all active base registers at once by specifying DROP with a blank operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR047   SEVERITY CODE TOO LARGE

Explanation: The severity code (first operand) of an MNOTE statement is not * or an unsigned decimal number from 0 to 255.

System Action: The statement is printed in the standard format instead of the MNOTE format. The MNOTE is given the severity code of this message.

Programmer Response: Choose a severity code of * or a number less than 255, or check for a generated severity code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR048   ENTRY ERROR

Explanation: One of the following errors was detected in the operand of an ENTRY statement:

- Duplicate symbol (previous ENTRY)
- Symbol defined in a DSECT or COM section
- Symbol defined by a DXD statement
- Undefined symbol
- Symbol defined by an absolute or complex relocatable EQU statement.

System Action: The External Symbol Dictionary output is suppressed for the symbol.

Programmer Response: Define the ENTRY operand correctly.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR049   ILLEGAL RANGE ON ISEQ

Explanation: If this message is accompanied by another, this one is advisory. If it appears by itself, it indicates one of the following errors:

- An operand value is less than 1 or greater than 80, or the second operand (rightmost column to be checked) is less than the first operand (leftmost column to be checked).
- More or fewer than two operands are present, or an operand is null (empty).
- An operand expression contains an undefined symbol.
- An operand expression is not absolute.
- The statement is too complex. For example, it may have forward references or cause an arithmetic overflow during evaluation.
- The statement is circularly defined.

System Action: Sequence checking is stopped.

Programmer Response: Supply valid ISEQ operands. Also, make sure that the statements following this statement are in order.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR050   ILLEGAL NAME FIELD. NAME DISCARDED

Explanation: One of the following errors has occurred:

- The name field of a macro prototype statement contains a symbolic parameter (variable symbol) that is not allowed.
- The name field of a COPY statement in a macro definition contains an entry other than a blank or a valid sequence symbol.

System Action: The invalid name field is ignored.

Programmer Response: Correct the invalid name field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR051   ILLEGAL STATEMENT OUTSIDE A MACRO DEFINITION

Explanation: A MEND, MEXIT, or AREAD statement appears outside a macro definition.

System Action: The statement is ignored.

Programmer Response: Remove the statement or, if a macro definition is intended, insert a MACRO statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR052   CARD OUT OF SEQUENCE

Explanation: Input sequence checking, under control of the ISEQ assembler instruction, has determined that this statement is out of sequence. The sequence number of the statement is appended to the message.

System Action: The statement is assembled normally. However, the sequence number of the next statement will be checked relative to this statement.

Programmer Response: Put the statements in proper sequence. If you want a break in sequence, put in a new ISEQ statement and sequence number. ISEQ always resets the sequence number. The statement following the ISEQ is not sequence checked.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR053   BLANK SEQUENCE FIELD

Explanation: Input sequence checking, controlled by the ISEQ assembler statement, has detected a statement with a blank sequence field. The sequence number of the last numbered statement is appended to the message.

System Action: The statement is assembled normally. The sequence number of the next statement will be checked relative to the last statement having a nonblank sequence field.

Programmer Response: Put the proper sequence number in the statement or stop sequence checking over the blank statements by using an ISEQ statement with a blank operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR054   ILLEGAL CONTINUATION CARD

Explanation: A statement has more than 10 continuation statements or end of input has been found when a continuation statement was expected.

System Action: The statements already read are processed as is. If the statement had more than 10 continuation statements, the next continuation statement is treated as the beginning of a new statement.

Programmer Response: If a statement has more than 10 continuation statements, break the statement into two or more statements. If an end of input has been reached, make sure that a continuation statement does not span the end of a library member. Check for lost statements or an extraneous continuation punch.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR055   RECURSIVE COPY

Explanation: A nested COPY statement (COPY within another COPY) attempted to copy a library member already being copied by a higher level COPY within this same nest.

System Action: This COPY statement is ignored.

Programmer Response: Correct the operand of this COPY if it is wrong, or rearrange the nest so that the same library member is not copied by a COPY statement at two different levels.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR057   UNDEFINED OPERATION CODE

Explanation: One of the following errors has occurred:

- The operation code of this statement is not a valid assembler instruction or macro name.

- In an OPSYN statement, this operand symbol is undefined or illegal, or if no operand is present, the name field symbol is undefined.

System Action: The statement is ignored. Note that OPSYN does not search the macro library for an undefined operand.

Programmer Response: Correct the statement. For an undefined macro instruction, the wrong data set may have been specified for the macro library. For OPSYN, a previous OPSYN or macro definition may have failed to define the operation code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR059   ILLEGAL ICTL

Explanation: An ICTL statement has one of the following errors:

- The operation code was created by variable symbol substitution.

- The statement is not the first statement in the assembly.

- The value of one or more operands is incorrect.

- An invalid character is detected in the operand field.

System Action: The ICTL statement is ignored. Assembly continues with standard ICTL values.

Programmer Response: Correct or remove the ICTL. The begin column must be 1–40; the end column must be 41–80 and at least 5 greater than the begin column; and the continue column must be 2–40.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR060   COPY CODE NOT FOUND

Explanation:

- If this message is on a COPY statement and no text is printed with it, one of the following has occurred:
    - The library member was not found.
    - The lookahead phase previously processed the COPY statement and did not find the library member, or the copy was recursive, or the operand contains a variable symbol.
- If this message is not on a COPY statement, but has a library member name printed with it, the lookahead phase of the assembler could not find the library member because the name is unde-fined or contains a variable symbol.

System Action: The COPY statement is ignored; the library member is not copied.

Programmer Response: Check that the correct macro library was assigned or check for a possibly misspelled library member name. If the library member can be read by the lookahead phase of the assembler, do not make the library member name a variable symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR061   SYMBOL NOT NAME OF DSECT OR DXD

Explanation: The operand of a Q-type address con-stant is not a symbol or the name of a DSECT or DXD statement.

System Action: The constant is assembled as zero.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR062   ILLEGAL OPERAND FORMAT

Explanation: An error has occurred with one of the following operands:

- DROP or USING. More than 16 registers were specified in the operand field.
- PUSH or POP. An operand does not specify a PRINT or USING statement.
- PRINT. An operand specifies an invalid print option.
- MNOTE. The syntax of the severity code (first operand) is invalid.

System Action: The first 16 registers in a DROP or USING statement are processed. For PUSH, POP, and PRINT statements, the operand in error and the operands following it are ignored.

Programmer Response: Supply a valid operand field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

Do not try to correct the table source. Save all input and output and notify your IBM representative.

IHR063   NO ENDING APOSTROPHE

Explanation: The single quotation mark ending an operand is missing, or the standard value of a keyword parameter of a macro prototype statement is missing.

System Action: The operand or standard value in error is ignored. If the error is in a macro definition model statement, the entire statement is ignored.

Programmer Response: Supply the missing single quotation mark.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR065   UNKNOWN TYPE IN DC/DS STATEMENT

Explanation: An unknown constant type has been used in a DC or DS statement.

System Action: The operand in error and operands following are ignored.

Programmer Response: Supply a valid constant. Look for an incorrect type code or incorrect syntax in the duplication factor.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR066   RELOCATABLE Y-TYPE CONSTANT

Explanation: This statement contains a relocatable Y-type address constant. A Y-type constant is only 2 bytes long, so addressing errors will occur if this program is loaded at a main storage address greater than 32K (32 768).

System Action: If this program will not be loaded at a main storage address greater than 32K, you can leave the Y-constant.

Programmer Response: Supply a valid length.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR067   ILLEGAL DUPLICATION FACTOR

Explanation: One of the following errors has occurred:

- The duplication factor of a constant is greater than $2^{24}-1$.
- A duplication factor expression of a constant is invalid.

System Action: The operand in error and the oper-ands following for a DC, DS, or DXD statement are ignored.

Programmer Response: Supply a valid duplication factor.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

Do not try to correct the table source. Save all input and output and notify your IBM representative.

IHR068   LENGTH ERROR

Explanation: One of the following errors has occurred:

- The length modifier of a constant is wrong.
- The C-, X-, or B-type constant is too long.
- An operand is longer than $2^{24}-1$ bytes.
- A relocatable address constant has an illegal length.

System Action: For DC, DS, and DXD statements, the operand in error and operands following it are ignored.

Note: Address constants with illegal lengths are truncated, rather than ignored.

Programmer Response: Supply a valid length.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR070   SCALE MODIFIER ERROR

Explanation: A scale modifier in a constant is used illegally, is out of range, is relocatable, or there is an error in a scale modifier expression.

System Action: If the scale modifier is out of range, it defaults to zero. Otherwise, the operand in error and the operands following are ignored.

Programmer Response: Supply a valid scale modifier.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR071   EXPONENT MODIFIER ERROR

Explanation: The constant contains multiple internal exponents; the exponent modifier is out of range or relocatable; or the sum of the exponent modifier and internal exponent is out of range.

System Action: If the constant contains multiple internal exponents, the operand in error and the operands following are ignored. Otherwise, the exponent modifier defaults to zero.

Programmer Response: Change the exponent modifier or the internal exponent.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR072   DATA ITEM TOO LARGE

Explanation: A Y-type address constant is larger than $2^{15}-1$ or smaller than -2^{15}, or the value of a decimal constant is greater than the number of bits (integer attribute) allocated to it.

System Action: The constant is truncated. The high-order bits are lost.

Programmer Response: Supply a smaller scale modifier or a longer constant.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR074   ILLEGAL SYNTAX IN EXPRESSION

Explanation: An expression has two terms or two operators in succession, or it has characters or delimiters that are not allowed or are missing.

User Response: In a DC, DS, or DXD statement, the operand in error and the operands following are ignored. In a macro definition, the entire statement is ignored.

Programmer Response: Check the expression for typing errors, or for terms or characters that are missing or are not allowed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR075   ARITHMETIC OVERFLOW

Explanation: The intermediate or final value of an expression is not within the range of -2^{31} to $2^{31}-1$.

System Action: The statement is ignored.

Programmer Response: Change the expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR076   STATEMENT COMPLEXITY EXCEEDED

Explanation: The complexity of this statement caused the assembler's expression evaluation work area to overflow.

System Action: The statement is ignored.

Programmer Response: Reduce the number of terms, levels of expressions, or references to complex relocatable EQU names.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR077   CIRCULAR DEFINITION

Explanation: The value of a symbol in an expression is dependent on itself, either directly or indirectly, to one or more EQU statements. For example, in the code segment that follows, A is circularly defined:

```
A EQU B
B EQU C
C EQU A
```

System Action: The value of the EQU statement defaults to the current value of the location counter. All other EQU statements in the circularity are defaulted in terms of this one.

Programmer Response: Supply a correct definition.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR079   ILLEGAL PUSH-POP

Explanation: More POP assembler instructions than PUSH instructions have been encountered.

System Action: This POP instruction is ignored.

Programmer Response: Eliminate a POP statement or add another PUSH statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR080   STATEMENT IS UNRESOLVABLE

Explanation: A statement cannot be resolved because it contains a complex relocatable expression or because the location counter has been circularly defined.

System Action: The statement is ignored.

Programmer Response: Untangle the forward references or check the complex relocatable EQU statements.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR081   CREATED SET SYMBOL EXCEEDS 63 CHARACTERS

Explanation: A SET symbol created by variable symbol substitution is longer than 63 characters (including the ampersand as the first character).

System Action: If the symbol is in the operand field of a SET, AIF, or AGO statement, its value is set to 0 or null, and the type attribute is set to undefined (U). If the symbol is in the operand field of a GET or LCL statement or the name field of a SET statement, the macro is aborted.

Programmer Response: Shorten the symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR082   CREATED SET SYMBOL IS NULL

Explanation: A SET symbol created by variable symbol substitution is null (empty string).

System Action: If the symbol is in the operand field of a SET, AIF, or AGO statement, its value is set to 0 or null, and the type attribute is set to undefined (U). If the symbol is in the operand field of a GEL or LCL statement or in the name field of a SET statement, the macro is aborted.

Programmer Response: Supply a valid symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR083   CREATED SET SYMBOL IS NOT A VALID SYMBOL

Explanation: A SET symbol created by variable symbol substitution or concatenation does not consist of an ampersand followed by up to 62 alphanumeric characters, the first of which is alphabetical.

System Action: If the symbol is in the operand field of a SET, AIF, or AGO statement, its value is set to 0 or null, and the type attribute is set to undefined (U). If the symbol is in the operand field of a GEL or LCL statement or in the name field of a SET statement, the macro is aborted.

Programmer Response: Supply a valid symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR084   GENERATED NAME FIELD EXCEEDS 63 CHARACTERS. DISCARDED

Explanation: The name field on a generated statement is longer than 63 characters.

System Action: The name field is not generated. The rest of the statement is assembled normally.

Programmer Response: Shorten the generated name to 63 characters or fewer.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR085   GENERATED OPERAND FIELD IS NULL

Explanation: The operand field of a generated statement is null.

System Action: The statement is assembled as though no operand were specified.

Programmer Response: Provide a nonempty operand field. If you want the statement assembled with no operand, substitute a comma rather than leave the operand blank.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR086   **MISSING MEND GENERATED**

Explanation: A macro definition, appearing in the source program or being read from a library by a macro call or a copy statement, ends before a MEND statement is found to end it.

System Action: A MEND statement is generated. The portion of the macro definition read in will be processed.

Programmer Response: Insert the MEND statement if it was left out. Otherwise, check if all the macro definition is on the library.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR087   **GENERATED OPERATION CODE IS NULL**

Explanation: The operation code of a generated statement is null (blank).

System Action: The generated statement is printed but not assembled.

Programmer Response: Provide a valid operation code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR088   **UNBALANCED PARENTHESES IN MACRO CALL OPERAND**

Explanation: Excess left or right parentheses occur in an operand (parameter) or a macro call statement.

System Action: The parameter corresponding to the operand in error is given a null (empty) value.

Programmer Response: Balance the parentheses.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR089   **ARITHMETIC EXPRESSION CONTAINS ILLEGAL DELIMITER OR ENDS PREMATURELY**

Explanation: An arithmetic expression contains an invalid character or an arithmetic subscript ends without enough right parentheses.

System Action: The statement is ignored.

Programmer Response: Supply a valid expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR090   **EXCESS RIGHT PARENTHESES IN MACRO CALL OPERANDS**

Explanation: A right parenthesis without a corresponding left parenthesis was detected in an operand of a macro instruction.

System Action: The excess right parenthesis is ignored. The macro expansion may be incorrect.

Programmer Response: Insert the proper parenthesis.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR091   **SETC OR CHARACTER RELATIONAL OPERAND OVER 255 CHARACTERS. TRUNCATED TO 255 CHARACTERS**

Explanation: The value of the operand of a SETC statement or the character relational operand of an AIF statement is longer than 255 characters.

System Action: The first 255 characters are used.

Programmer Response: Shorten the SETC expression value or the operand value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR092   **SUBSTRING EXPRESSION 1 POINTS PAST STRING END DEFAULT=NULL**

Explanation: The first arithmetic expression of a SETC substring points beyond the end of the expression character string.

System Action: The substring is given a null value.

Programmer Response: Supply a valid expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR093   **SUBSTRING EXPRESSION 1 LESS THAN 1. DEFAULT=NULL**

Explanation: The first arithmetic expression of a SETC substring points to a position before the expression character string.

System Action: The substring expression defaults to null.

Programmer Response: Supply a valid expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR094   **SUBSTRING GOES PAST STRING END. DEFAULT=REMAINDER**

Explanation: The second expression of a substring notation specifies a length that extends beyond the end of the string.

System Action: The result of the substring operation is a string that ends with the last character in the character string.

Programmer Response: Make sure the arithmetic expression used to specify the length does not specify characters beyond the end of the string. Change either the first or the second expression in the substring notation.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR095   **SUBSTRING EXPRESSION 2 LESS THAN 0. DEFAULT=NULL**

Explanation: The second arithmetic expression of a SETC substring is less than or equal to 0.

System Action: No characters (a null string) from the substring character expression are used.

Programmer Response: Supply a valid expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR096   **UNSUBSCRIPTED SYSLIST. DEFAULT=SYSLIST(1)**

Explanation: The system variable symbol, &SYSLIST, is not subscripted. &SYSLIST(n) refers to the nth positional parameter in a macro instruction.

Note: N'&SYSLIST does not have to be subscripted.

System Action: The subscript defaults to 1 so that the first positional parameter will be referred to.

Programmer Response: Supply an appropriate subscript.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR097   **INVALID ATTRIBUTE REFERENCE TO SETA OR SETB SYMBOL. DEFAULT=U OR 0**

Explanation: A type (T'), length (L'), scaling (S'), integer (I'), or defined (D') attribute refers to a SETA or SETB symbol.

System Action: The attributes are set to default values: T'=U, L'=0, S'=0, I'=0, and D'=0.

Programmer Response: Change or remove the attribute reference.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

Do not try to correct the table source. Save all input and output and notify your IBM representative.

IHR098   **ATTRIBUTE REFERENCE TO INVALID SYMBOL. DEFAULT=U OR 0**

Explanation: An attribute attempted to refer to a symbol that is not allowed. (Symbols must be made up of 1 to 63 alphanumeric characters, the first of which is alphabetical.)

System Action: For a type (T') attribute, default to U. For all other attributes, default to 0.

Programmer Response: Supply a valid symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR099   **WRONG TYPE OF CONSTANT FOR S' OR I' ATTRIBUTE REFERENCE. DEFAULT=0**

Explanation: An integer (I') or scaling (S') attribute refers to a symbol whose type is other than fixed-point (H,F).

System Action: The integer or scaling attribute defaults to 0.

Programmer Response: Remove the integer or scaling attribute reference or change the constant type.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR100   **SUBSCRIPT LESS THAN 1. DEFAULT TO SUBSCRIPT=1**

Explanation: The subscript of a subscripted SET statement, the operand field of a GBL or LCL statement, or a &SYSLIST statement is less than 1.

System Action: The subscript defaults to 1.

Programmer Response: Supply the correct subscript.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR101   **SUBSCRIPT LESS THAN 1. DEFAULT TO VALUE=0 OR NULL**

Explanation: The subscript of a SET symbol in the operand field is less than 1.

System Action: The subscript is set to 1.

Programmer Response: Supply a valid subscript.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR102 **ARITHMETIC TERM IS NOT SELF-DEFINING TERM. DEFAULT=0**

Explanation: A SETC term or expression used as an arithmetic term is not a self-defining term.

System Action: The value of the SETC term or expression is set to zero.

Programmer Response: Make the SETC a self-defining term, such as C'A', X'1EC', B'1101', or 27.

Note: The C, X, or B and the single quotation marks must be part of the SETC value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR103 **MULTIPLICATION OVERFLOW. DEFAULT PRODUCT=1**

Explanation: A multiplication overflow occurred in a macro definition statement.

System Action: The value of the expression up to the point of overflow is set to one; evaluation is resumed.

Programmer Response: Change the expression so that overflow does not occur. Break it into two or more operations or regroup the terms by parentheses.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR105 **ARITHMETIC EXPRESSION TOO COMPLEX**

Explanation: An arithmetic expression is too complex because it has too many terms or levels.

System Action: The assembly stops immediately.

Programmer Response: Simplify the expression or break it into two or more expressions.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR106 **WRONG TARGET SYMBOL TYPE. VALUE LEFT UNCHANGED**

Explanation: The SET symbol in the name field does not match its declared type (it does not match the operation code): SETA, SETB, or SETC.

System Action: The statement is ignored.

Programmer Response: Make the declaration agree with the SET statement type. If you want to store across types, store first into a SET symbol of matching type.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR107 **INCONSISTENT DIMENSION ON TARGET SYMBOL. SUBSCRIPT IGNORED OR 1 USED**

Explanation: The SET symbol in the name field is dimensioned (subscripted), but was not declared in a GBL or LCL statement as dimensioned, or vice versa.

System Action: The subscript is ignored or a subscript of 1 is used, in accordance with the declaration.

Programmer Response: Make the declaration and the usage compatible.

Note: You can declare a local SET symbol as dimensioned by using it, subscripted, in the name field of a SET statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR108 **INCONSISTENT DIMENSION ON SET SYMBOL REFERENCE. DEFAULT=0, NULL, OR TYPE=U**

Explanation: A SET symbol in the operand field is dimensioned (subscripted), but was not declared in a GBL or LCL statement as dimensioned, or vice versa.

System Action: A value of zero or null is used for the subscript. If the type attribute of the SET symbol is being requested, it is set to U.

Programmer Response: Make the declaration and the usage compatible.

Note: You can declare a SET symbol as dimensioned by using it, subscripted, in the name field of a SET statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR109 **MULTIPLE OPERANDS FOR UNDIMENSIONED SET SYMBOL. GETS LAST OPERAND**

Explanation: Multiple operands were assigned to an undimensioned (unsubscripted) SET symbol.

System Action: The SET symbol is given the value of the last operand.

Programmer Response: Declare the SET symbol as dimensioned or assign only one operand to it.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR110 **LIBRARY MACRO 1ST STATEMENT NOT - MACRO - OR COMMENT**

Explanation: A statement other than a comment statement preceded a MACRO statement in a macro definition read from a library.

System Action: The macro definition is not read from the library. A corresponding macro call cannot be processed.

Programmer Response: Make sure that the library macro definition begins with a MACRO statement preceded (optionally) by comment statements only.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR111   **INVALID AIF OR SETB OPERAND FIELD**

Explanation: The operand of an AIF or SETB statement either does not begin with a left parenthesis or is missing altogether.

System Action: The statement is ignored.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR112   **INVALID SEQUENCE SYMBOL**

Explanation: One of the following errors has occurred:

- A sequence symbol does not begin with a period followed by 1 to 62 alphanumeric characters, the first being alphabetical.

- A sequence symbol in the name field was created by substitution.

System Action: The sequence symbol in the name field is ignored. A sequence symbol in the operand field of an AIF or AGO statement causes the entire statement to be ignored.

Programmer Response: Supply a valid sequence symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR113   **CONTINUE COLUMN BLANK**

Explanation: A SET symbol declaration in a GBL or LCL statement began with an ampersand (&) in the end column (normally column 71) or in the previous statement, but the continue column (normally column 16) of this statement is blank.

System Action: This statement, and any following continue statements, are ignored. Any SET symbols appearing entirely on the previous statements are processed normally.

Programmer Response: Begin this statement in the continuation column.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR114   **INVALID COPY OPERAND**

Explanation: The operand of a COPY statement is not a symbol of 1 to 8 alphanumeric characters, the first being alphabetical.

System Action: The COPY statement is ignored.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR115   **COPY OPERAND TOO LONG**

Explanation: The symbol in the operand field of a COPY statement is more than 8 characters long.

System Action: The COPY statement is ignored.

Programmer Response: Supply a valid operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR116   **ILLEGAL SET SYMBOL**

Explanation: A SET symbol in the operand field of a GBL or LCL statement or in the name field of a SET statement does not consist of an ampersand (&) followed by 1 to 62 alphanumeric characters, the first being alphabetical.

System Action: The invalid SET symbol and all following SET symbols in a GBL or LCL statement are ignored. The entire SET statement is ignored.

Programmer Response: Supply a SET symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR117   **ILLEGAL SUBSCRIPT**

Explanation: The subscript following a SET symbol contained unbalanced parentheses or an invalid arithmetic expression.

System Action: This statement is ignored.

Programmer Response: Supply an equal number of left and right parentheses or a valid arithmetic expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR118   SOURCE MACRO ENDED BY - MEND - IN COPY CODE

Explanation: A library member being copied by a COPY statement within a macro definition contained a MEND statement. This ended the definition.

System Action: The MEND statement is ignored. No more COPY code is read. The statements brought in before the end of the COPY code are processed. The macro definition is resumed with the statement following the COPY statement.

Programmer Response: Make sure that each library member to be used as COPY code contains balanced MACRO and MEND statements.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR119   TOO FEW MEND STATEMENTS IN COPY CODE

Explanation: A macro definition is started in a library member brought in by a COPY statement and the COPY code ends before a MEND statement is encountered.

System Action: A MEND statement is generated to end the macro definition. The statements brought in before the end of the COPY code are processed.

Programmer Response: Check to see if part of the macro definition was lost. Also, make sure that each macro definition to be used as COPY code contains balanced MACRO and MEND statements.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR120   EOD WHERE CONTINUE CARD EXPECTED

Explanation: An end of data occurred when a continuation statement was expected.

System Action: The portion of the statement read in is assembled. The assembly ends if the end of data is on SYSIN. If a library member is being copied, the assembly continues with the statement after the COPY statement.

Programmer Response: Check to determine whether any statements were omitted from the source program or from the COPY code.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR121   INSUFFICIENT CORE FOR EDITOR WORK AREA

Explanation: The macro editor module of the assembler cannot get enough main storage for its work areas.

System Action: The assembly stops immediately.

Programmer Response: Split the assembly into two or more parts, or give the macro editor more working storage. This can be done by increasing the region

size for the assembler, decreasing blocking factor or block size on the assembler data sets, or a combination of both.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR122   ILLEGAL OPERATION CODE FORMAT

Explanation: The operation code is not followed by a blank or is missing altogether, or the first statement of a continued source statement is missing.

System Action: The statement is ignored.

Programmer Response: Make sure that the statement has a valid operation code and that all cards of the statement are present.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR123   VARIABLE SYMBOL TOO LONG

Explanation: A SET symbol, symbolic parameter, or sequence symbol contains more than 62 characters following the ampersand (&) or period.

System Action: This statement is ignored.

Programmer Response: Shorten the variable symbol or sequence symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR124   ILLEGAL USE OF PARAMETER

Explanation: A symbolic parameter was used in the operand field of a GBL or LCL statement or in the name field of a SET statement. In other words, a variable symbol has been used both as a symbolic parameter and as a SET symbol.

System Action: The statement is ignored.

Programmer Response: Change the variable symbol to one that is not a symbolic parameter.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR125   ILLEGAL MACRO NAME - UNCALLABLE

Explanation: The operation code of a macro prototype statement is not made up of 1 to 63 alphanumeric characters, the first being alphabetical.

System Action: The macro definition is edited. However, since the macro name is invalid, the macro cannot be called.

Programmer Response: Supply a valid macro name.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR126   LIBRARY MACRO NAME INCORRECT

Explanation: The operation code of the prototype statement of a library macro definition is not the same as the operation code of the macro instruction (call). Library macro definitions are located by their member names. However, the assembler compares the macro instruction with the macro prototype.

System Action: The macro definition is edited using the operation code of the prototype statement as the macro name. Therefore, the definition cannot be called by this macro instruction.

Programmer Response: Make sure that the member name of the macro definition is the same as the operation code of the prototype statement. This will usually require listing the macro definition from the library.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR127   ILLEGAL USE OF AMPERSAND

Explanation: One of the following errors has occurred:

- An ampersand (&) was found where all substitution should already have been performed.

- The standard value of a keyword parameter in a macro prototype statement contained a single ampersand or a string of ampersands whose length was odd.

- An unpaired ampersand occurred in a character (C) constant.

System Action: In a macro prototype statement, all information following the error is ignored. In other statements, the action depends on which field the error occurred in.   If the error occurred in the name field, the statement is processed without a name. If the error occurred in the operation code field, the statement is ignored. If the error occurred in the operand field, another message is issued to specify the default. However, if the error occurred in a C-type constant, the operand in error and the operands following are ignored.

Programmer Response: Make sure that ampersands used in keyword standard values, or in C-type constants, occur in pairs. Also, avoid substituting an ampersand in a statement unless there is a double ampersand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR128   EXCESS RIGHT PARENTHESIS

Explanation: An unpaired right parenthesis has been found.

System Action: The statement is ignored and an additional message corresponding to the statement type is issued. However, if the error is in the standard value of a keyword on a macro prototype statement, only the operands in error and operands following are ignored.

Programmer Response: Make sure that all parentheses are paired.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR129   INSUFFICIENT RIGHT PARENTHESES

Explanation: An unpaired left parenthesis has been found.

Note: Parentheses must balance at each comma in a multiple operand statement.

System Action: The statement is ignored and an additional message corresponding to the statement type will appear. However, if the error is in the standard value of a keyword on a macro prototype statement, only the operands in error and operands following are ignored.

Programmer Response: Make sure that all parentheses are paired.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR130   ILLEGAL ATTRIBUTE REFERENCE

Explanation: One of the following errors has occurred:

- An invalid symbol (variable or ordinary) follows a reference to one of the following attributes: type (T'), length (L'), scaling (S'), integer (I'), or defined (D').

- An invalid variable symbol follows a reference to a count (K') or number (N') attribute.

- The single quotation mark is missing from a reference to a type (T') attribute.

System Action: The statement is ignored.

Programmer Response: Supply a valid attribute reference.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR131   PARENTHESIS NESTING DEPTH EXCEEDS 255

Explanation: There are more than 255 levels of parentheses in a SETA expression.

System Action: The statement is ignored.

Programmer Response: Rewrite the SETA statement using several statements to regroup the subexpressions in the expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR132 **INVALID SETB EXPRESSION**

Explanation: A SETB expression in the operand field of a SETB statement or an AIF statement does not consist of valid character relational expressions, arithmetic relational expressions, and single SETB symbols connected by logical operators.

System Action: The statement is ignored.

Programmer Response: Supply a valid SETB expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR134 **INVALID RELATIONAL OPERATOR**

Explanation: Characters other than EQ, NE, LT, GT, LE, or GE are used in a SETB expression where a relational operator is expected.

System Action: The statement is ignored.

Programmer Response: Supply a valid relational operator.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR135 **INVALID LOGICAL OPERATOR**

Explanation: Characters other than AND, OR, or NOT are used in a SETB expression where a logical operator is expected.

System Action: The statement is ignored.

Programmer Response: Supply a valid logical operator.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR136 **ILLEGAL LOGICAL/RELATIONAL OPERATOR**

Explanation: Characters other than a valid logical or relational operator are used in a SETB expression where a logical or relational operator is expected.

System Action: The statement is ignored.

Programmer Response: Supply a valid logical or relational operator.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR137 **ILLEGAL SETC EXPRESSION**

Explanation: The operand of a SETC statement or the character value used in a character relation is erroneous. These must be either valid type attribute (T') references or valid character expressions enclosed in quotation marks.

System Action: The statement is ignored.

Programmer Response: Supply a valid expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR138 **EOD DURING REPRO PROCESSING**

Explanation: A REPRO statement was immediately followed by an end of data so that no valid statement could be punched. The REPRO is either the last statement of source input or the last statement of a COPY member.

System Action: The REPRO statement is ignored.

Programmer Response: Remove the REPRO or make sure that it is followed by a statement to be punched.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR140 **END CARD MISSING**

Explanation: The end of file on the source input data set occurred before an END statement was read. One of the following errors has occurred:

- The END statement was omitted or misspelled.

- The END operation code was changed or deleted by OPSYN or by definition of a macro named END. The lookahead phase of the assembler marks what it thinks is the END statement. If an OPSYN statement or a macro definition redefines the END statement, premature end of input may occur because the assembler will not pass the original END statement.

System Action: An END statement is generated. It is assigned a statement number but not printed. If any literals are waiting, they will be processed as usual following the END statement.

Programmer Response: Check for lost statements. Supply a valid END statement; or, if you use OPSYN to define another symbol as END, place it **prior** to possible entry into the lookahead phase.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR141 **BAD CHARACTER IN OPERATION CODE**

Explanation: The operation code contains a nonalphanumeric character, that is, a character other than A to Z, 0 to 9, $, #, or @. Embedded blanks are not allowed.

System Action: The statement is ignored.

Programmer Response: Supply a valid operation code. If the operation code is formed by variable symbol substitution, check the statements leading to substitution.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR142   OPERATION CODE NOT COMPLETE ON FIRST CARD

Explanation: The entire name and operation code, including a trailing blank, is not contained on the first statement (before the continue column—usually column 72) or on a continued statement.

System Action: The statement is ignored.

Programmer Response: Shorten the name and/or the operation code or simplify the statement by using a separate SETC statement to create the name or operation code by substitution.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR143   BAD CHARACTER IN NAME FIELD

Explanation: The name field contains a nonalphanumeric character, that is, a character other than A to Z, 0 to 9, $, #, or @.

System Action: If possible, the statement is processed without a name. Otherwise, it is ignored.

Programmer Response: Put a valid symbol in the name field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR144   BEGIN-TO-CONTINUE COLUMNS NOT BLANK

Explanation: On a continuation statement, one or more columns between the begin column (usually column 1) and the continue column (usually column 16) are not blank.

System Action: The extraneous characters are ignored.

Programmer Response: Check whether the operand started in the wrong column or whether the preceding statement contained an erroneous continuation character.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR145   OPERATOR, RIGHT PARENTHESIS, OR END-OF-EXPRESSION EXPECTED

Explanation: One of the following errors has occurred:

- A letter, number, equal sign, quotation mark, or undefined character occurred following a term where a right parenthesis, an operator, a comma, or a blank ending the expression was expected.
- A left parenthesis followed a term.

System Action: The statement is ignored and another message, corresponding to the operation code, is issued.

Programmer Response: Check for an omitted or mispunched operator. Subscripting is not allowed on this statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR146   SELF-DEFINING TERM TOO LONG OR VALUE TOO LARGE

Explanation: A self-defining term is longer than 4 bytes, or the value of a decimal self-defining term is greater than $2^{31}-1$.

System Action: The statement is ignored. However, another message corresponding to the operation code is issued.

Programmer Response: Reduce the size or value of the self-defining term or specify it in a DC statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR147   SYMBOL TOO LONG, OR 1ST CHARACTER NOT A LETTER

Explanation: A symbol does not begin with a letter or is longer than 63 characters.

System Action: If the symbol is in the name field, the statement is processed as unnamed. If the symbol is in the operand field, an assembler operation or a macro definition model statement is ignored.

Programmer Response: Supply a valid symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR148   SELF-DEFINING TERM LACKS ENDING QUOTE OR HAS BAD CHARACTER

Explanation: A hexadecimal or binary self-defining term contains a character that is not allowed or is missing the final quotation mark.

System Action: An assembler operation is ignored and another message, relative to the operation code, is issued.

Programmer Response: Correct the term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR150   SYMBOL HAS NON-ALPHAMERIC CHARACTER OR INVALID DELIMITER

Explanation: The first character following a symbol is not a valid delimiter, such as plus sign, minus sign, asterisk, slash, left or right parenthesis, comma, or blank.

System Action: The statement is ignored, and another message, corresponding to the operation code, is issued.

Programmer Response: Make sure that the symbol does not contain a nonalphanumeric character or that it is followed by a valid delimiter.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR152   EXTERNAL SYMBOL TOO LONG OR UNACCEPT-ABLE CHARACTER

Explanation: One of the following errors has occurred:

- An external symbol is longer than 8 characters. An external symbol might be the name of a CSECT, START, DXD, or COM statement; or the operand of an ENTRY, EXTRN, or WXTRN statement; or a Q-type or V-type address constant.

- The operand of an ENTRY, EXTRN, or WXTRN statement, or of a Q-type or V-type address constant is an expression instead of a single term or contains a bad character.

System Action: The symbol does not appear in the external symbol dictionary. If the error is in the name field, an attempt is made to process the statement as unnamed. If the error is in the operand field, the bad operand is ignored and, if possible, the operands following are processed. A bad constant is assembled as zero.

Programmer Response: Supply a shorter name or replace the expression with a term.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR153   START STATEMENT ILLEGAL - CSECT ALREADY BEGUN

Explanation: A START statement occurred after the beginning of a control section.

System Action: The statement is processed as a CSECT statement, and any operand on that statement is ignored.

Programmer Response: Make sure that the START precedes any assembler instruction, such as EQU, that begins a control section. If you want EQU statements before the START, place them in a dummy section (DSECT).

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR154   OPERAND MUST BE ABSOLUTE, PREDEFINED SYMBOLS. SET TO 0

Explanation: The operand on a START or MHELP statement is invalid. If there is another message with this statement, this message is advisory. If this message appears alone, it indicates one of the following:

- There is a location counter reference (*) in a START operand.

- An expression does not consist of absolute terms or predefined symbols, or both.

- The statement is too complex. For example, it may have too many forward references or cause arithmetic overflow during evaluation.

- The statement is circularly defined.

- A relocatable term is multiplied or divided.

System Action: The operand of the statement is treated as 0.

Programmer Response: Paired relocatable symbols in different LOCTRs, even in the same CSECT or DSECT, are not valid where an absolute, predefined value is required. Correct the error if it exists.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR155   PREVIOUS USE OF SYMBOL IS NOT THIS SECTION TYPE

Explanation: The name on a CSECT, DSECT, or COM statement has been used previously on a different type of statement. For example, the name on a CSECT has been used before on a statement other than CSECT.

System Action: This name is ignored and the statement is processed as unnamed.

Programmer Response: Correct the misspelled name or change the name to one that does not conflict.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR156   ONLY ORDINARY SYMBOLS, SEPARATED BY COMMAS, ALLOWED

Explanation: The operand field of an ENTRY, EXTRN, or WXTRN statement contains a symbol which does not consist of 1 to 8 alphanumeric characters, the first being alphabetical, or the operands are not separated by a comma.

System Action: The operand in error is ignored. If other operands follow, they will be processed normally.

Programmer Response: Supply a correct symbol or insert the missing comma.   If you want an expression as an ENTRY statement operand (such as SYMBOL+4), use an EQU statement to define an additional symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR157   **OPERAND MUST BE A SIMPLY-RELOCATABLE EXPRESSION**

Explanation: If there is another message with this statement, this message is advisory. If this message appears alone, the operand of an ORG or END statement is not a simply relocatable expression, is too complex, or is circularly defined. Also, the END operand symbol may not be in a CSECT.

System Action: An ORG statement is ignored. The operand of an END statement is ignored.

Programmer Response: Paired relocatable symbols in different LOCTRs, even in the same CSECT or DSECT, might cause circular definition when used in an ORG statement. If an error exists, supply a correct expression.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR158   **OPERAND 1 EXPRESSION DEFECTIVE. SET TO ***

Explanation: The first operand of an EQU statement is defective. If another message appears with this statement, this message is advisory. If this message appears alone, one of the following errors has occurred:

- The statement is too complex. For example, it has too many forward references or causes an arithmetic overflow during evaluation.

- The statement is circularly defined.

- The statement contains a relocatable term that is multiplied or divided.

System Action: The symbol in the name field is equated to the current value of the location counter (*), and operands 2 and 3 of the statement, if present, are ignored.

Programmer Response: If an error exists, supply a correct expression for operand 1 of the statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR159   **OPERANDS MUST BE ABSOLUTE, PROPER MULTIPLES OF 2 OR 4**

Explanation: The combination of operands of a CNOP statement is not one of the following valid combinations:

```
0,4        2,4
0,8        2,8
4,8        6,8
```

System Action: The statement is ignored. However, the location counter is adjusted to a halfword boundary.

Programmer Response: Supply a valid combination of CNOP operands.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR161   **ONLY ONE TITLE CARD MAY HAVE A NAME FIELD**

Explanation: More than one TITLE statement has a name field. The named TITLE statement need not be the first one in the assembly, but it must be the only one named.

System Action: The name on this TITLE statement is ignored. The name used for definition identification is taken from the first named TITLE statement encountered.

Programmer Response: Delete the unwanted name.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR162   **PUNCH OPERAND EXCEEDS 80 COLUMNS. IGNORED**

Explanation: A PUNCH statement attempted to punch more than 80 characters into a card.

System Action: The statement is ignored. The statement is not punched.

Programmer Response: Shorten the operand to 80 or fewer characters or use more than one PUNCH statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR163   **OPERAND NOT PROPERLY ENCLOSED IN QUOTE**

Explanation: The operand of a PUNCH or TITLE statement does not begin with a quotation mark, or the operand of a PUNCH, MNOTE, or TITLE statement does not end with a quotation mark, or the ending quotation mark is not followed by a blank.

System Action: The statement is ignored.

Programmer Response: Supply the missing quotation mark. Make sure that a quotation mark to be punched as data is represented as two quotation marks.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR164   **OPERAND IS A NULL STRING - CARD NOT PUNCHED**

Explanation: A PUNCH statement does not have any characters between its two quotation marks, or a quotation mark to be punched as data is not represented by two quotation marks.

System Action: The statement is ignored.

Programmer Response: Correct the operand. If you want to punch a blank statement, the operand of the PUNCH statement should be a blank enclosed in quotation marks.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF.

Do not try to correct the table source. Save all input and output and notify your IBM representative.

IHR165   UNEXPECTED NAME FIELD

Explanation: The assembler operation has a name and the name field should be blank.

System Action: The name is equated to the current value of the location counter (*). However, if no control section has been started, the name is equated to zero.

Programmer Response: Remove the name. Check that the period was not omitted from a sequence symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR166   SEQUENCE SYMBOL TOO LONG

Explanation: A sequence symbol contains more than 62 characters following the period.

System Action: If the sequence symbol is in the name field, the statement is processed without a name. If it is in the operand field of an AIF or AGO statement, the entire statement is ignored.

Programmer Response: Shorten the sequence symbol.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR167   REQUIRED NAME MISSING

Explanation: This statement requires a name and has none. The name field may be blank because an error occurred during an attempt to create the name by substitution or because a sequence symbol was used as the name.

System Action: The statement is ignored.

Programmer Response: Supply a valid name or make sure that a valid name is created by substitution. If a sequence symbol is needed, put it on an ANOP statement ahead of this one and put a name on this statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR168   UNDEFINED SEQUENCE SYMBOL

Explanation: The sequence symbol in the operand field of an AIF or AGO statement outside a macro definition is not defined; that is, it does not appear in the name field of an appropriate statement.

System Action: This statement is ignored; assembly continues with the next statement.

Programmer Response: When the sequence symbol is not previously defined, the assembler looks ahead for the definitions. The lookahead stops when an END statement or an OPSYN equivalent is encountered.

Make sure that OPSYN statements and macro definitions that redefine END precede possible entry into lookahead. If the sequence symbol is misspelled or omitted, correct it.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR170   INTERLUDE ERROR-LOGGING CAPACITY EXCEEDED

Explanation: The table, which the interlude phase of the assembler uses to keep track of the errors it detects, is full. This does not stop error detection by other phases of the assembler.

System Action: If there are additional errors normally detected by the interlude phase in other statements either before or after this one, they will not be flagged. Statement processing depends on the type of error.

Programmer Response: Correct the indicated errors and run the assembly again to diagnose any further errors.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR171   STANDARD VALUE TOO LONG

Explanation: The standard (default) value of a keyword parameter on a macro prototype statement is longer than 255 characters.

System Action: The parameter in error and the parameters following are ignored.

Programmer Response: Shorten the standard value.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR172   NEGATIVE DUPLICATION FACTOR. DEFAULT = 1

Explanation: The duplication factor of a SETC statement is negative.

System Action: The duplication factor is given a default value of 1.

Programmer Response: Supply a positive duplication factor.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR173   DELIMITER ERROR, EXPECT BLANK

Explanation: Another character, such as a comma or a quotation mark, is used where a blank (end of operand) is required.

System Action: An ORG statement is ignored. For an EQU or END statement, the incorrect delimiter is ignored and operand is processed normally. For a CNOP statement, the location counter is aligned to a halfword boundary.

Programmer Response: Replace the incorrect delimiter with a blank. Look for an extra operand or a missing left parenthesis.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR174   DELIMITER ERROR, EXPECT BLANK OR COMMA

Explanation: Another character, such as a quotation mark or ampersand, is used where a blank or comma is required.

System Action: For a USING or DROP statement, the incorrect delimiter is ignored and the operand is processed normally.

Programmer Response: Replace the incorrect delimiter with a blank or a comma. Look for an extra operand or a missing left parenthesis.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR175   DELIMITER ERROR, EXPECT COMMA

Explanation: Another character, such as a blank or a parenthesis, is used where a comma is required.

System Action: For a CNOP statement, the location counter is aligned to a halfword boundary.

Programmer Response: Replace the incorrect delimiter with a comma. Make sure the syntax of each expression is correct and no parentheses are omitted.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR176   DELIMITER ERROR, EXPECT COMMA OR LEFT PARENTHESIS

Explanation: Another character, such as a blank or a right parenthesis, is used where a comma or left parenthesis is required.

System Action: The machine instruction is assembled as 0.

Programmer Response: Replace the incorrect delimiter with a comma or a left parenthesis. Look for incorrect syntax or incorrect base or length fields on the first operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR177   DELIMITER ERROR, EXPECT BLANK OR LEFT PARENTHESIS

Explanation: Another character, such as a comma or a right parenthesis, is used when a blank or left parenthesis is required.

System Action: The statement is assembled as 0.

Programmer Response: Replace the incorrect delimiter with a blank or a left parenthesis. Look for incor-

rect syntax or incorrect base fields or length fields on the first operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR178   DELIMITER ERROR, EXPECT COMMA OR RIGHT PARENTHESIS

Explanation: Another character, such as a blank or a left parenthesis, is used when a comma or a right parenthesis is required.

System Action: The statement is assembled as 0.

Programmer Response: Replace the incorrect delimiter with a comma or a right parenthesis. Look for a missing base field.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR179   DELIMITER ERROR, EXPECT RIGHT PARENTHESIS

Explanation: Another character, such as a blank or comma, is used when a right parenthesis is required.

System Action: The statement is assembled as 0.

Programmer Response: Replace the incorrect delimiter with a right parenthesis. Look for the use of an index field where it is not allowed.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR182   OPERAND 2 MUST BE ABSOLUTE, 0-65535. IGNORED

Explanation: If there is another message with this statement, this message is advisory. If this message appears alone, the second operand of an EQU statement contains one of the following errors:

- It is not an absolute term or expression whose value is within the range of 0 to 65 535.
- It contains a symbol which is not previously defined.
- It is circularly defined.
- It is too complex; for example, it causes an arithmetic overflow during evaluation.

System Action: Operand 2 is ignored and the length attribute of the first operand is used. If the third operand is present, it will be processed normally.

Programmer Response: Paired relocatable symbols in different LOCTRs, even in the same CSECT, are not valid where an absolute, predefined value is required. Correct the error if it exists.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR183 **OPERAND 3 MUST BE ABSOLUTE, 0-255. IGNORED**

Explanation: If there is another message with this statement, this message is advisory. If this message appears alone, the third operand of an EQU statement contains one of the following errors:

- It is not an absolute term or expression whose value is within the range of 0 to 255.
- It contains a symbol which is not previously defined.
- It is circularly defined.
- It is too complex; for example, it causes an arithmetic overflow during evaluation.

System Action: The third operand is ignored and the type attribute of the EQU statement is set to U.

Programmer Response: Correct the error if it exists.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR184 **COPY DISASTER**

Explanation: The assembler copied a library member (executed a COPY statement) while looking ahead for attribute references. However, when the complete text was analyzed, the COPY operation code had been changed by an OPSYN statement or "swallowed" by an AREAD statement, and the COPY should not have been executed. (The lookahead phase ignores OPSYN statements.) This message will follow the first statement of the COPY code.

Programmer Response: Move COPY statements, or OPSYN statements that modify the meaning of COPY, to a point in the assembly before possible entry into the lookahead mode.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR185 **OPERAND NO. 2 IS ERRONEOUS**

Explanation: The second operand is incorrect or two operands appear where only one should be.

System Action: The second operand is ignored.

Programmer Response: Remove or correct the second operand.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR253 **TOO MANY ERRORS**

Explanation: No more error messages can be issued for this statement because the assembler work area, where the errors are logged, is full.

System Action: If more errors are detected for this statement, the messages or annotated text, or both are discarded.

Programmer Response: Correct the indicated errors

and rerun the assembly. If there are more errors on this statement, they will be detected in the next assembly.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR254 ***** MNOTE *****

Explanation: The text of an MNOTE statement, which is appended to this message, has been generated by your program or by a macro definition or a library member copied into your program. An MNOTE statement allows a source program or macro definition to signal the assembler to generate an error or informational message.

Programmer Response: Investigate the reason for the MNOTE. Errors flagged by MNOTE will often cause unsuccessful execution of the program of the MNOTE statement.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR950 **END OF STATEMENT FLAG WAS EXPECTED IN MACRO EDITED TEXT, BUT WAS NOT FOUND - MACRO EDITOR IS SUSPECT**

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR951 **THE MACRO GENERATOR HAS ENCOUNTERED UNTRANSLATABLE MACRO EDITED TEXT**

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR952 **BAD SET SYMBOL NAME FIELD OR LCL/GBL OPERAND - CHECK THE MACRO EDITED TEXT**

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR953   BAD SUBSCRIPT ON SET SYMBOL - CHECK THE MACRO EDITED TEXT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR954   CHARACTER EXPRESSION FOLLOWED BY BAD SUBSCRIPTS - CHECK THE MACRO EDITED TEXT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR955   A RIGHT PARENTHESIS WITH NO MATCHING LEFT PARENTHESIS WAS FOUND IN AN EXPRESSION - CHECK THE MACRO EDITED TEXT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR956   MULTIPLE SUBSCRIPTS OR BAD SET SYMBOL TERMINATOR - CHECK THE MACRO EDITED TEXT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR957   BAD TERMINATOR ON CREATED SET SYMBOL - CHECK THE MACRO EDITED TEXT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR958   BAD TERMINATOR ON PARAMETER - CHECK THE MACRO EDITED TEXT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR959   UNEXPECTED END OF DATA ON IHR-ASSEMBLER WORK FILE (SYSUT1) - INTERNAL CORE MANAGEMENT IS SUSPECT

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR960   A BAD INTERNAL FILE NUMBER HAS BEEN PASSED TO THE *xxxxx* INTERNAL CORE MANAGEMENT ROUTINE

Explanation: Refer to message IHR961.

Programmer Response: Save all input and output and notify your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**.

IHR961   AN INVALID CORE REQUEST HAS BEEN MADE, OR THE FREE CORE CHAIN POINTERS HAVE BEEN DESTROYED

Explanation: The assembly ends because of one of the errors described in messages IHR950 to IHR960 or this message. This is usually caused by a bug in the assembler itself. Under certain conditions, however, the assembly can be rerun successfully.

System Action: A special abnormal termination dump (Assembler IHR Interrupt and Diagnostic Dump) follows the message. Depending on where the error occurred, the assembly listing up to the bad statement also may be produced. The dump usually shows which statement caused termination. It also may include contents of the assembler registers and work areas and other status information for use by IBM or your assembler maintenance programmers in determining the cause of the termination.

Programmer Response: Check the statement that caused termination. Correct any errors in it or, especially if the statement is long or complex, rewrite it. Reassemble the program; it may assemble correctly. However, even if it reassembles without error, there may be a bug in the assembler.   Save the abnormal termination dump, the assembly listing (if one was produced), and the input definition and give them to your IBM representative. Also, if the program assembles correctly, submit a copy of the listing and input definition of the correct assembly. This information may be helpful in diagnosing and fixing the assembler bug.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR970   **STATEMENT COMPLEXITY EXCEEDED, BREAK THE STATEMENT INTO SEGMENTS AND RERUN THE ASSEMBLY**

Explanation: The statement is too complex to be evaluated by the macro generator phase of the assembler. It overflowed the evaluation work area of the assembler. Normally, there is no assembler malfunction; the statement can be corrected and the program reassembled successfully.

System Action: A special abnormal termination dump (Assembler IHR Interrupt and Diagnostic Dump) follows the message. The statement causing termination is SETA, SETB, SETC, AGO, or AIF. The dump does not show which statement caused termination; however, it may show the last statement generated in the macro. The dump may also include contents of the assembler registers and word areas and other status information for use by IBM or your assembler maintenance programmers in determining the cause of the termination. However, it will not be needed unless the error persists. This information may be helpful in diagnosing and fixing an assembler bug.

Programmer Response: Check the statement that caused termination. Rewrite the statement or break it into two or more statements. Reassemble the program; it should assemble correctly. However, if the error persists, there may be an assembler malfunction. Save the abnormal termination dump, the assembly listing (if one was produced), and the input definition and give them to your IBM representative.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR971   **INSUFFICIENT CORE AVAILABLE FOR MACRO EDITOR WORK AREA**

Explanation: Refer to message IHR972.

Attention: This error can indicate that a problem has been detected in the table source generated by NDF. **Do not try to correct the table source**. Save all input and output and notify your IBM representative.

IHR972   **NO AVAILABLE STORAGE REMAINS - ALLOCATE MORE STORAGE**

Explanation: The assembler work areas are full and none of the contents can be moved into the auxiliary data set (SYSUT1).

Note: The load modules and fixed data areas of the assembler require about 96KB of main storage. The rest of the assembler's region is used for data set buffers, assembler internal files, and work areas. Some of the internal files, like the symbol table, must remain in main storage throughout the assembly.

System Action: A special abnormal termination dump (Assembler IHR Interrupt and Diagnostic Dump) follows the message. Depending on where the error occurred, the assembly listing up to the bad statement also may be produced. The dump usually shows the statement being processed when the assembler ran out of main storage. The other information in the

dump, such as register and work area contents, is not needed.

Programmer Response: If generating under MVS, increase the region size allocated to the NDF step in the JCL. If generating under VM, define a larger virtual storage.

For more information on defining virtual storage see *NCP, SSP, and EP Generation and Loading Guide*. Rerun the generation.

Note: Please attempt to correct this error before notifying your IBM representative.

IHR980   **SYSUT1 IS REQUIRED TO BE ASSIGNED TO A DIRECT ACCESS DEVICE, BUT WAS NOT**

Explanation: Refer to message IHR983.

IHR981   **THE DD STATEMENTS FOR SYSIN AND SYSUT1 WERE MISSING OR INVALID**

Explanation: Refer to message IHR983.

IHR982   **THE DD STATEMENT FOR SYSIN WAS MISSING OR INVALID**

Explanation: Refer to message IHR983.

IHR983   **THE DD STATEMENT FOR SYSUT1 WAS MISSING OR INVALID**

Explanation: The DD statements for the data sets indicated that messages IHR980 to IHR983 have not been included in the JCL for the assembly job setup or are incorrect.

System Action: The assembly is not done because the assembler does not have the required data sets. This message appears alone, without any other abnormal termination dump information.

Programmer Response: Supply a valid DD statement and rerun the assembly.

IHR998   **THE ASSEMBLER COULD NOT RESUME READING A SYSLIB MEMBER BECAUSE IT COULD NOT FIND THE MEMBER AGAIN**

Explanation: The assembly is stopped because the assembler cannot find a COPY member that it has already read. This usually is caused by a bug in the assembler itself or by an operating system I/O error. Under certain conditions, however, the assembly can be rerun successfully.

System Action: A special abnormal termination dump (Assembler IHR Interrupt and Diagnostic Dump) follows the message. The dump usually shows which statement caused termination. It also may include contents of the assembler registers and work areas and other status information for use by IBM or your assembler maintenance programmers in determining the cause of the termination.

Programmer Response: Reassemble the program; it may assemble correctly. If it does not reassemble without error, save the abnormal termination dump, the assembly listing (if one was produced), and the input definition and give them to your IBM representative.

IHR999[I] ASSEMBLY TERMINATED - SYNAD EXIT TAKEN - PERMANENT I/O ERROR ON *xxxxx* DATA SET

Explanation: The assembly was stopped because of a permanent I/O error on the data set indicated in the message. This is usually caused by a machine or operating system error. The assembly usually can be rerun successfully. This message will also appear on the console output device.

System Action: A special abnormal termination dump (Assembler IHR Interrupt and Diagnostic Dump) follows the message. Depending on where the error occurred, the assembly listing up to the bad statement also may be produced. The dump usually shows which statement caused termination. It also may include contents of the assembler registers and work areas and other status information for use by IBM or your assembler maintenance programmers in determining the cause of the termination.

Programmer Response: If the I/O error is on SYSIN or SYSLIB, you may have concatenated the input or library data sets incorrectly. Make sure that the DD statement for the data set with the largest block size (BLKSIZE) is placed in the JCL before the DD statements of the data sets concatenated to it. Also, make sure that all input or library data sets have the same class (all DASD or all tape).

Reassemble the program; it may assemble correctly. If it does not reassemble without error, save the abnormal termination dump, the assembly listing (if one was produced), and the input definition and give them to your IBM customer engineer. Also, if the program assembles correctly, submit a copy of the listing and input definition of the correct assembly.

Chapter 2. NCP Sense Codes

The sense codes in this chapter are only those issued by NCP. Sense data in a request/response unit (RU) consists of 1 byte for the category, 1 byte for the modifier, and 2 bytes for specific sense code information.

The category and the modifier bytes of an exception code make up the sense code. The following categories are defined; all others are reserved:

08 Request reject

The request was delivered to the intended network addressable unit and was interpreted and supported, but was not executed.

10 Request error

The request was delivered to the intended network addressable unit, but could not be interpreted or processed because of a mismatch in function and management capabilities.

20 State error

A sequence number, a response header value, or an RU was received when not allowed for the current state of the user.

40 Request header usage error

The setting of fields in the response header violates the Systems Network Architecture (SNA) session rules. These errors are independent of current session or data flow states.

80 Path error

The request could not be delivered to the intended receiver because of a path outage, an invalid sequence of activation requests, or one of the path information unit (PIU) errors listed.

0801 XXXX   (Label: SNS81)

Request reject: Resource not available

0801 0000

Command:

Any Command
Issued by: CXDCBOL, CXDCBOP

Explanation: The request specifies a logical unit or physical unit in the dynamic reconfiguration pool.

ACTLINK
Issued by: CXDEAL (BSC and start-stop)

Explanation: The OLTT or the panel test is active.

Issued by: CXDKALP (SDLC)

Explanation: The OLTT or the LPDA is active.

ACTLINK (NPA)
Issued by: CXJQNVDL

Explanation: The SNP mask of the link owner does not match the SNP mask of the PIU sender.

ACTTRACE
Issued by: CXDKLT5

Explanation:

* No buffers are available.
* Not enough resource control blocks are available.
* Too many SITs are active.
* No free CCT is available.
* The panel Line Test/OLT is active.
* The wrap is active.
* The adjacent link station has not been contacted.
* The SCB is not attached to the TGB.
* A NTRI physical or logical line trace is already active.

ANA Addresses
Issued by: CXDDANA

Explanation:

* The network addresses are already assigned.
* A logical unit control block (LUB) is not available.

BIND
Issued by: CXDBSIA, CXDCBND

Explanation: The required resource control block was not found.

CONNOUT
Issued by: CXDDIAL

Explanation: A link was specified that was already active.

CONNOUT (attempting to override answer mode)
Issued by: CXDDIAL

Explanation: An incoming call was connected before an answer could be reset.

Contact
Issued by: CXDKCNT

Explanation: The common physical unit block (CUB) is in the dynamic reconfiguration pool.

DACTLINK
Issued by: CXDKDLP

Explanation: The OLTT or the wrap is active.

DUMPFINAL, DUMPINIT, DUMPTEXT, IPLFINAL, IPLINIT, IPLTEXT, Remote Power-Off
Issued by: CXDKRPD

Explanation: The originating SSCP is not an owner of the link- attached NCP.

EXECTEST
Issued by: CXDKETP

Explanation: The access method issued the EXECTEST after the station was activated or DACTLINK was issued.

FNA
Issued by: CXDKFMR

Explanation: The LUB, NLB, CUB, or NPB to be freed is in the dynamic reconfiguration pool.

REQMS
Issued by: CXDKCEN

Explanation:

- An LPDA1 test was requested for a line or link that is inactive.
- An LPDA1 test was requested for a switched line or link and no connection has been made.
- Link test, level 2 is active.

RNAA
Issued by: CXDDRNL

Explanation: A PUV entry for the specified CUB was not found.

IPM
Issued by: CXDCSRP

Explanation: The LNB is not allocated.

LPDA2 Test
Issued by: CXDKSVLK

Explanation: The BSC resource is not available.

NMVT
Issued by: CXDTLER

Explanation: No DVB is available.

SETCV (Intensive Mode)
Issued by: CXDKSSI

Explanation: A non-owning SSCP tried to initiate or immediately stop an intensive mode when it was not in station quiesce pending state.

SETCV (Physical Unit or Logical Unit)
Issued by: CXDKSSP

Explanation: The specified resource is not a dynamic reconfiguration resource.

Issued by: CXDKSSL

Explanation: The specified resource is in the dynamic reconfiguration pool.

Test Mode
Issued by: CXDLTI

Explanation:

- The station is owned by another host.
- The dynamic reconfiguration is in process.
- The station is in ANS.

Issued by: CXDKETP

Explanation: LPDA is in progress on an SNA line.

0801 0001

Command:

ACTLU
Issued by: CXDCBSO

Explanation: An independent logical unit should not receive an ACTLU.

0801 0004

Command:

ACTLINK
Issued by: CXDKALP

Explanation: A link is active, but not owned.

0801 0006

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: One of the following has occurred:

- The line is not associated with a line adapter.
- For Version 5 NCPs earlier than V5R4, the line is associated with a line adapter that is not valid for the usage tier in the generation definition.

ACTLINK
Issued by: CXDKALP

Explanation: One of the following has occurred:

- The line is not associated with a line adapter.

  Note: For an ODLC line, the line address specified in the generation is in the range taken up by the CBC for CCU B. This is caused when a single configuration is specified in the generation and the load module is loaded into a twin configuration. Specify the correct IBM 3745 model in the generation.

- For Version 5 NCPs earlier than V5R4, the line is associated with a line adapter that is not valid for the usage tier in the generation definition.

ACTTRACE
Issued by: CXDKLT5

Explanation: One of the following has occurred:

- The line is not associated with a line adapter.
- For Version 5 NCPs earlier than V5R4, the line is associated with a line adapter that is not valid for the usage tier in the generation definition.

PEPSWITCH
Issued by: CXDKPEP

Explanation: One of the following has occurred:

- The line is not associated with a line adapter.
- For Version 5 NCPs earlier than V5R4, the line is associated with a line adapter that is not valid for the usage tier in the generation definition.

0801 0007

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: An adapter is not installed or is not attached to a line.

ACTLINK
Issued by: CXDKALP

Explanation: One of the following has occurred with an adapter:

- It is not installed.
- It is not attached to a line.
- It is not ready to receive switchback.
- Switchback competition is in progress on a switched adapter.

ACTTRACE
Issued by: CXDKLT5

Explanation: An adapter is not installed or is not attached to a line.

PEPSWITCH

Issued by: CXDKPEP

Explanation: An adapter is not installed or is not attached to a line.

0801 0008

Command:

CONNOUT

Issued by: CXDDIAL

Explanation: A line is associated with an inoperative adapter.

ACTLINK

Issued by: CXDKALP

Explanation: A line is associated with an inoperative adapter.

ACTTRACE

Issued by: CXDKLT5

Explanation: A line is associated with an inoperative adapter.

PEPSWITCH

Issued by: CXDKPEP

Explanation: A line is associated with an inoperative adapter.

0801 0015

Command:

ACTLINK

Issued by: CXDKALP

Explanation: The line is unavailable as a result of a hardware failure within the line adapter.

0801 0016

Command:

ACTLINK

Issued by: CXDEENT

Explanation: The link resource is not available as a result of maintenance on the supporting hardware.

0801 0017

Command:

ACTLINK

Issued by: CXDEENT, CXDKALP

Explanation: One of the following has occurred:

- The link resource is not available because a mismatch exists within the microcode of the supporting hardware.
- The microcode usage tier required for the requested operation is not present.

0801 0018

Command:

ACTLINK

Issued by: CXDEENT

Explanation: The channel adapter is undergoing error recovery.

0801 0019

Command:

ACTLINK

Issued by: CXDEENT

Explanation: The channel adapter has a CACM function in progress.

0801 001A

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: The channel adapter is bypassed from auto-select or cycle-steal chain.

0801 001B

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: The channel adapter experienced a power block failure.

0801 001C

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: The channel adapter is in "ERP inoperative" state.

0801 001D

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: The channel interface failed to enable within 40 seconds.

0801 001E   (For NCP V5R4 and NCP V6R1)

Command:

    CONNOUT

        Issued by: CXDDIAL

        Explanation: The line adapter associated with this line cannot be used, because the maximum number of line adapters allowed by the usage tier is already in use.

    ACTLINK

        Issued by: CXDKALP

        Explanation: The line adapter associated with this line cannot be used, because the maximum number of line adapters allowed by the usage tier is already in use.

    ACTTRACE

        Issued by: CXDKLT5

        Explanation: The line adapter associated with this line cannot be used, because the maximum number of line adapters allowed by the usage tier is already in use.

    PEPSWITCH

        Issued by: CXDKPEP

        Explanation: The line adapter associated with this line cannot be used, because the maximum number of line adapters allowed by the usage tier is already in use.

0801 001F

Command:

    ACTLINK

        Issued by: CXDKALP

        Explanation: The line is unavailable because the associated protocol is inoperative.

    ACTTRACE

        Issued by: CXDKLT5

        Explanation: The line is unavailable because the associated protocol is inoperative.

0801 0020

Command:

  ACTLINK

    Issued by: CXDKALP, CXDEENT

    Explanation: One of the following has occurred:

- The link resource is not available because of a mismatch between current operational parameters and defined values.
- The line was defined as a token ring, but the adapter at the specified line address is not a token ring.
- A request for activation of token-ring physical line is rejected because the TIC is already associated with a MAC address, or the ring speed is different from the defined value.

  ACTTRACE

    Issued by: CXDKLT5

    Explanation: One of the following has occurred:

- The link resource is not available because of a mismatch between current operational parameters and defined values.
- The line was defined as a token ring, but the adapter at the specified line address is not a token ring.

0801 0021

Command:

  ACTLINK

    Issued by: CXDKALP

    Explanation: The line is associated with a subsystem that is not installed, not powered-on, not initialized, or not operational.

  ACTTRACE

    Issued by: CXDKLT5

    Explanation: The line is associated with a subsystem that is not installed, not powered-on, not initialized, or not operational.

0801 0022:

Command:

  ACTLINK

    Issued by: CXDKALP, CXDEENT

    Explanation: Frame-relay logical subarea link activation failed because the DLCI is not present.

0801 0024

Command:

  Test Mode

    Issued by: CXDLTI

    Explanation: Link level 2 test initiation failed because the DLCI is inactive.

0801 0025

Command:

  IPLINIT

    Issued by: CXDKRPD

    Explanation: Remote load failed because the frame-relay subarea link identified by DLCI is inactive.

    Issued by: CXDKRST

    Explanation: Remote load failed because adjacent DLCI is inactive.

0801 002A

Command:

ACTLINK
Issued by: CXDKALP

Explanation: Not valid to activate a spare line.

0801 4001

Command:

DACTLINK (Forced)
Issued by: CXDKDLF

Explanation: The panel line test is active.

0801 4002

Command:

DACTLINK (Forced)
Issued by: CXDKDLF

Explanation: The wrap test is active.

0805 XXXX   (Label: SNS85)

Request reject: Session limit exceeded

0805 0000

Command:

ACTCDRM
Issued by: CXDGCON

Explanation: The ACTCDRM command is in contention, and the second ACTCDRM command has no ACTCDRM request sequence indication (ARSI).

Issued by: CXDGOVE

Explanation: The ACTCDRM command is in override, and the second ACTCDRM command has no ACTCDRM request sequence indication (ARSI).

ACTPU
Issued by: CXDBAPM

Explanation: A session cannot be established because no SNP was available.

ACTLU BIND
Issued by: CXDCSIC

Explanation:

- The application issued a BIND command for a secondary logical unit that is already in session with another application.
- The NCP is processing a BIND or UNBIND command from another primary logical unit.

BIND
Issued by: CXDGLNL, CXS2BDV

Explanation: This is the second BIND command for the same session.

Issued by: CXDGLAP

Explanation: The session limit was exceeded.

BIND (NPA)
Issued by: CXJQNLBN

Explanation: The network performance analyzer logical unit has a session partner.

CINIT
Issued by: CXSPCIV

Explanation: An LU-LU session is already active for this logical unit.

Contact

Issued by: CXDKBNT

Explanation: The attach virtual route function failed because of the following possible reasons:

- The resource connection block (RCB) is already associated with a virtual route.
- The RCB is not associated with this virtual route, but is associated with another.
- The virtual route is inoperative.

Session Trace

Issued by: CXDKSTR

Explanation: The resource is not active.

0805 0002

Command:

BIND

Issued by: CXDTBBP

Explanation: The backup session limit was exceeded.

BIND

Issued by: CXDTBRI

Explanation: The backup session limit was exceeded.

0805 0003

Command:

BIND

Issued by: CXDTBAP

Explanation: The active session limit was exceeded.

0805 0004

Command:

BIND

Issued by: CXDCBND

Explanation: The maximum number of sessions is exceeded for this logical unit.

0805 0008

Command:

BIND

Issued by: CXDCBND

Explanation: A dependent logical unit may have only one LU-LU session.

0806 XXXX   (Label: SNS86)

Request reject: Resource unknown

0806 0000

Command:

Any Command

Issued by: CXDKFMR

Explanation: The network address specified is not valid.

Activate GPT

Issued by: CXDGPAT

Explanation: The resource specified is not valid.

ANA Address

Issued by: CXDDANA

Explanation: The network address specified is not valid.

Deactivate GPT
Issued by: CXDGPDT

Explanation: The resource specified is not valid.

EXECTEST
Issued by: CXDKETP

Explanation: The resource indicated in bytes 3 and 4 is not defined in this NCP load module.

Session Trace
Issued by: CXDKSTR

Explanation: The resource is unknown.

SETCV
Issued by: CXDGSCV

Explanation: The SSCP is unknown.

Switch Line Mode to EP, Switch Line Mode to NCP
Issued by: CXDKPEP

Explanation: The resource is unknown.

0806 0001

Command:

LPDA2 Test
Issued by: CXDKSYP

Explanation: The resource specified is not valid.

NMVT
Issued by: CXDTDTAP, CXDTDTQP, CXDTQLA, CXDTGTM2, CXDTSLA, CXDTGTQ2

Explanation: The resource identified in a subvector carrying a name list or address list is unknown to the receiver.

Issued by: CXDTRFCP

Explanation: The resource identified is unknown to the receiver.

0806 0005

Command:

RNAA
Issued by: CXDDRNL

Explanation: The physical unit is currently in the physical unit dynamic reconfiguration pool.

0806 0006

Command:

RNAA
Issued by: CXDRNP5

Explanation: One of the following has occurred:

- The physical unit element address does not indicate a valid physical unit.
- The physical unit to be moved is in the dynamic reconfiguration pool.

0806 0007

Command:

RNAA
Issued by: CXDRNL4

Explanation: The logical unit element address does not indicate a valid logical unit.

0806 0008

Command:

RNAA
Issued by: CXDRMPU

Explanation: The physical unit name in the RNAA does not match the physical unit name.

RNAA

Issued by: CXDRNL4

Explanation: The logical unit network name portion in the RNAA does not match the logical unit network name (NETID).

0806 002A

Command:

ACTLU

Issued by: CXDBSIL, CXDCATL

Explanation: The logical unit name in the ACTLU does not match the logical unit name at the target address.

CONNOUT

Issued by: CXDKCON

Explanation: The physical unit name in the CONNOUT does not match the physical unit name at the target address.

Contact

Issued by: CXDKCNT, CXDKBNT

Explanation: The physical unit name in the CONTACT does not match the physical unit name at the target address.

0806 0032

Command:

SETCV

Issued by: CXDFCV80

Explanation: An element address is not known to NCP and cannot be resolved.

0809 XXXX   (Label: SNS89)

Request reject: Mode inconsistency

0809 0000

Command:

Any Command

Issued by: CXDCBOP

Explanation: SSCP does not own the physical unit.

Issued by: MOSS microprogram

Explanation: There is no dump file on the MOSS diskette.

ACTLINK

Issued by: CXDEAL

Explanation: The line was in EP mode.

ACTPU

Issued by: CXDBSIP

Explanation: The access method issued the command when the station was in session termination.

ACTTRACE

Issued by: CXDKLT5

Explanation:

- An ACTLINK trace with the transmission group option is received and line trace is currently active.
- An ACTLINK trace with the line trace option is received and a transmission group trace is currently active.
- The line is not Contacted.
- No trace buffer address is in the TGB, and the trace is active.

- Another line trace on this high-speed line is active. NetView commands are not supported for CSS token-ring or ESCON resources.

ACTLU

Issued by: CXDBSIL

Explanation: There is a mode inconsistency.

ACTLU, BIND

Issued by: CXDCSIC

Explanation: The PIU is inactive.

BIND

Issued by: CXDBSIA

Explanation:

- The application issued a BIND when NCP was already processing a BIND or UNBIND from it.
- A second BIND was received for an existing session.

CONNOUT

Issued by: CXDDIAL

Explanation: The PIU received is for Autodial, but the line is not in Autodial, LPDA2 modem dial, or V.25 bis modem dial mode.

Issued by: CXDKCON

Explanation: There is a mode inconsistency.

Contact

Issued by: CXDKCNT

Explanation:

- The Run command is not currently active.
- SSCP issued a Contact command when the link test, level 2 was active.

DACTLINK (network performance analyzer)

Issued by: CXJQNVDL

Explanation: The SNP mask of the link owner does not match the SNP mask of the PIU sender.

Discontact

Issued by: CXDKDCT

Explanation: A mode change is in progress.

DUMPINIT, IPLINIT, Remote Power-Off

Issued by: CXDKRPD

Explanation: Link test, level 2 is active.

EXECTEST

Issued by: CXDKETP

Explanation:

- The access method issued an OLTT request, and there was an OLTT active on the line.
- The access method issued a pre-SNA request to an SNA device.

SETCV (Physical Unit)

Issued by: CXDKSSP

Explanation: Function is not supported.

Switch Line Mode to EP, Switch Line Mode to NCP

Issued by: CXDKPEP

Explanation: Function is not active.

Test Mode

Issued by: CXDLTI

Explanation:

- The SSCP issued a Test Mode command when the station was not in a reset or a test state.
- The Run command is active, but the mode is inconsistent.

UNBIND
    Issued by: CXDCBIO

    Explanation: There is a mismatch between FQPCID from the UNBIND and the PCID in BXI.

0809 0001

Command:

FNA
    Issued by: CXDDFNA

    Explanation: An address to be freed is not under the resource.

0809 0002

Command:

SETCV (Modify NCP Command)
    Issued by: CXDKNCMD

    Explanation: Mode inconsistency NDRS applies only to bridged connections.

0809 0003

Command:

RNAA
    Issued by: CXDDRNL, CXDDRNP

    Explanation: An address was requested twice in the same RNAA.

0809 0005

Command:

Switch Line Mode to EP,   Switch Line Mode to NCP
    Issued by: CXDKPEP, CXDKPEPT

    Explanation: An attempt was made to switch the line mode while the link was already active.

0809 0006

Command:

FNA
    Issued by: CXDDFN2

    Explanation: The logical unit was specified at system generation as not available for dynamic reconfiguration.

0809 0007

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
    Issued by: CXDKPEP

    Explanation: An attempt was made to switch the line mode while an ACTLINK command was in progress.

0809 0008

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
    Issued by: CXDKPEP

    Explanation: An attempt was made to switch the line mode while a DACTLINK command was in progress.

0809 0009

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
    Issued by: CXDKPEP, CXDKPEPT

    Explanation: An attempt was made to switch the line mode while a wrap was in progress on this line.

0809 000A

Command:

FNA

Issued by: CXDDFNP, CXDDFN2

Explanation:

- The specified physical unit is not assigned to the specified link.
- The specified logical unit is not assigned to the specified physical unit.

0809 000B

Command:

FNA

Issued by: CXDDFNP

Explanation: The physical unit is in active session.

0809 000C

Command:

RNAA

Issued by: CXDRNP5

Explanation: RNAA for an ESCON station contains a DLC header link station address which is out of range.

0809 000E

Command:

FNA, RNAA (MOVE)

Issued by: CXDDFNP, CXDRMPU

Explanation: The physical unit was specified at system generation as not available for dynamic reconfiguration.

0809 000F

Command:

ACTLU

Issued by: CXDBSIL, CXDCATL

Explanation: An attempt was made to activate a logical unit, but dynamic reconfiguration ownership of the physical unit is assigned to another SSCP.

RNAA

Issued by: CXDDRNL

Explanation: The physical unit specified for assignment of logical units is already owned by another SSCP.

Issued by: CXDDRNP, CXDRNP5

Explanation: An RNAA command is sent for a physical unit that is already owned by another SSCP.

SETCV (Physical Unit)

Issued by: CXDKSSP

Explanation: The physical unit is assigned to another SSCP. The current SSCP is not the dynamic reconfiguration owner.

SETCV (Logical Unit)

Issued by: CXDKSSL

Explanation: Dynamic reconfiguration ownership of the physical unit is assigned to another SSCP.

0809 0010

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
Issued by: CXDKPEP, CXDKPEPT

Explanation: An attempt was made to switch the line mode while a line trace or scanner interface trace (SIT) was in progress.

0809 0011

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The group poll address is already set and does not match the group poll address in the request.

0809 0014

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The stop-poll indicator is already set and does not match the stop-poll indicator in this command.

0809 0015

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The type modifier (3270 indicator) is already set and does not match the type modifier in this command.

0809 0016

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The physical unit type is already set and does not match the physical unit type field in this command.

0809 0017

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The error-recovery modifier is already set and does not match the error-recovery modifier in this command.

0809 0018

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The pass limit is already set and does not match the pass limit field in this command.

0809 0019

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP, CXDFCV43

Explanation: The MAXOUT value is already set and does not match the MAXOUT value on this command.

0809 001A

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The maximum segment size is already set and does not match the maximum segment size in this command.

0809 001B

Command:

RNAA
Issued by: CXDDRNP

Explanation: The command specifies a pool indicator that is not X'00' or X'01'

0809 001C

Command:

RNAA
Issued by: CXDGRNV

Explanation:

- An RNAA command was received, and one or both adjacent network identifiers were not known to NCP.
- The subarea value is too large, or 0.

Route Test
Issued by: CXDGRTM

Explanation: The network identifier is unknown.

0809 001D

Command:

NOTIFY
Issued by: CXDGNOR

Explanation: The NOTIFY command was received for a nonexistent session.

SETCV
Issued by: CXDGSCV

Explanation: A SETCV command was received for a nonexistent session.

0809 001E

Command:

RNAA
Issued by: CXDGRHSB

Explanation: Not enough half-session control blocks (HSCB) are available.

Issued by: CXDGRNF

Explanation:

- An RNAA command was received and all transforms were allocated.
- An RNAA command was received, a session was already established, and one or both sides are not parallel-session capable.
- The origin logical unit domain is not capable of parallel sessions.

0809 0020

Command:

RNAA
Issued by: CXDGRNF

Explanation:

- An RNAA command was received for an SSCP-SSCP session, while a session already existed.

- An RNAA command was received for an LU-LU session, while a session already existed.

- Parallel sessions are not supported.

0809 0021

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
Issued by: CXDKPEP

Explanation: An attempt was made to switch the line mode while line mode switching was already in progress.

0809 0022

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
Issued by: CXDKPEP

Explanation: An attempt was made to switch the line mode while an online terminal test (OLTT) was in progress.

0809 0023

Command:

Switch Line Modeto EP, Switch Line Mode to NCP
Issued by: CXDKPEP, CXDKPEPT

Explanation: An attempt was made to switch the line mode while a panel trace was in progress.

0809 0024

Command:

ACTPU
Issued by: CXDBAPM

Explanation: An SSCP that does not support extended network addressing issued an ACTPU to an NCP for which MAXSUBA was not specified during NCP generation.

Switch Line Mode to EP, Switch Line Mode to NCP
Issued by: CXDKPEPT

Explanation: An attempt was made to switch the line mode to NCP while EP was in the post-poned processing state.

0809 0025

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
Issued by: CXDKPEPT

Explanation: An attempt was made to switch the line mode to NCP while EP was in transparent mode waiting for a host write.

0809 0026

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The MAXOUT value is not compatible with the control field operating mode.

0809 0027

Command:

NMVT
Issued by: CXDTGTQ2

Explanation: A request was received for SIR data from a resource, but the resource is not enabled for SIR processing.

Issued by: CXDTLER

Explanation: The LPDA2 test is not allowed to run.

0809 002A

Command:

BFCINIT
Issued by: CXDOBFS

Explanation: The HRS control block is not in the "Waiting for BFCINIT" state.

0809 0030

Command:

FNA
Issued by: CXDDFNP

Explanation: An FNA request was received for a physical unit that has logical units with LU-LU sessions.

Issued by: CXDDFN1, CXDDFN2

Explanation: An FNA request was received for a logical unit that has LU-LU sessions.

0809 0031

Command:

BIND
Issued by: CXJQNLBN

Explanation: The NCP load module identifier, date, and time of NCP generation specified in the NPM BIND user data are not the same as those contained in the NCP load module.

0809 0033

Command:

BIND
Issued by: CXDCBIA

Explanation: A BIND request was received from a PLU when the session was in a pending reset state.

0809 003B

Command:

XID3/CV22
Issued by: CXDXIDC

Explanation: A null XID has arrived when an XID3 was expected.

0809 003E

Command:

XID3/CV22

Issued by: CXDXIDV

Explanation: The station is active and an XID3 has arrived whose exchange state indicators are either "negotiation proceeding" or "pre-negotiation."

0809 003F

Command:

XID3/CV22

Issued by : CXDXIDC

Explanation: The node with the secondary link station has attempted to initiate a non-activation exchange with an XID3 and secondary initiated non-activation XID exchange is not supported on the connection.

0809 0042

Command:

XID3/CV22

Issued by: CXDXCRX

Explanation: On an asynchronous balanced mode (ABM) transmission group link where secondary initiated nonactivation XID exchanges are supported, the adjacent link station has initiated a nonactivation exchange by sending a nonactivation XID3 in which the ABM nonactivation exchange initiator indicator specifies that the sending node is not initiating a nonactivation exchange.

0809 004A

Command:

Discontact

Issued by: CXDKDCT

Explanation: Dynamic reconfiguration is in progress for the specified resource.

0809 004E

Command:

XID3/CV22

Issued by: CXDXIDC

Explanation: The adjacent node is a secondary network resource management (NRM) link station and it has attempted to initiate a nonactivation exchange by sending a nonactivation XID3 instead of a null XID.

0809 0055

Command:

XID3

Issued by: CXDXIDV

Explanation: The received XID3 named a virtual routing node in the TG Identifier (SF80) subfield of the TG Descriptor (CV46) control vector and the node is not defined on the receiving port.

0809 0058

Command:

RNAA5

Issued by: CXDRNP5

Explanation: CV43, which included an invalid DLCI (data link connection identifier) in the SDLC address field, was received.

0809 0059

Command:

RNAA5

Issued by: CXDFCV43

Explanation: CV43 indicating ANS=STOP was received.

0809 0060

Command:

RNAA5

Issued by: CXDFCV43

Explanation: CV43 indicating LPDA=ALLOW was received.

0809 0061

Command:

RNAA5

Issued by: CXDFCV43

Explanation: CV43 was received containing a value for MAXOUT outside of the valid range.

0809 0062

Command:

RNAA5

Issued by: CXDFCV43

Explanation: CV43 was received containing a value other than 1 for PUTYPE.

0809 0063

Command:

RNAA5

Issued by: CXDFCV43

Explanation: CV43 indicating XID=YES was received.

0809 0064

Command:

SETCV

Issued by: CXDFCV80

Explanation: VTAM and NCP are out of synchronization because the received CV43 contains a network address that is not valid.

0809 0065

Command:

SETCV

Issued by: CXDFCV80

Explanation: The SSCP sending the SETCV is not the dynamic reconfiguration owner for all the frame-relay physical unit resources.

0809 0067

Command:

RNAA5

Issued by: CXDRNP5

Explanation: The DLCI is within range, but is not unique for this frame-relay physical line.

0809 006B

Command:

RNAA5
Issued by: CXHPALCB

Explanation: The specified IP address is a duplicate address which currently exists in NCP's local address table (LAT).

080A XXXX   (Label: SNS8A)

Request reject: Permission rejected

080A 0000

Command:

DUMPINIT
Issued by: Controller Load and Dump Program (CLDP)

Explanation: The storage specified by the dump request is out of the range of this controller.

IPLFINAL
Issued by: Controller Load and Dump Program (CLDP)

Explanation: The entry point that was specified by the Load Final command is not in the load module.

IPLTEXT
Issued by: MOSS microprogram

Explanation: The load module exceeds the maximum.

080A 0007

Command:

Contact
Issued by: CXDKBNT

Explanation: The NNNA capability of the takeover SSCP must be the same as that of the SSCP that performed the initial contact, or the native network NETID must be equal to the NETID of the adjacent node.

080C XXXX   (Label: SNS8C)

Request reject: Function not supported

080C 0000

Command:

Any Command
Issued by: CXDBSCR

Explanation: The request/response unit (RU) type received is not valid.

Issued by: CXDKSTR

Explanation: The command contained a range error or unsupported case.

ABCONNOUT
Issued by: CXDDADI

Explanation: The command specified a non-SNA switched resource.

ABCONNOUT, ABCONN, ACTCONNIN, DACTCONNIN
Issued by: CXDDABC, CXDDACP, CXDDADI

Explanation: The specified link is not a switched link.

Activate GPT
Issued by: CXDGPAT

Explanation: This function is not supported.

ACTPU
    Issued by: CXDBAPH

Explanation: The access method issued an ACTPU to NCP physical services, which is not type ERP.

ACTTRACE
    Issued by: CXDKLT5

Explanation:

- The access method issued a Trace command that does not specify line trace, SIT, or transmission group trace.
- The ACTTRACE specified an invalid adapter trace point value.
- An ACTTRACE with the TG option and the TG trace is already active through another link.
- A transmission group option is specified for a peripheral node line.
- The panel trace is active.

ANA
    Issued by: CXDDANA

Explanation:

- An attempt was made to assign zero addresses.
- The station to be added is not an SNA switched station.

Change Device Transmission Limit
    Issued by: CXDKDTL

Explanation:

- The network address in the RU indicates an SNA resource type.
- The specified line is not a multipoint line.

Deactivate GPT
    Issued by: CXDGPDT

Explanation: This function is not supported.

DACTTRACE
    Issued by: CXDKLT5

Explanation: The access method issued a Deactivate Trace command and did not specify line trace or a transmission group trace.

EXECTEST
    Issued by: CXDKETP

Explanation:

- The OLTT command or modifier is not valid.
- Request is to test an X.21 switched link.

FNA
    Issued by: CXDKFMR

Explanation: The resource to be freed is not SNA or not an SDLC logical unit or physical unit.

    Issued by: CXDDFNA

Explanation: The physical unit from which the logical units are to be freed is in the dynamic reconfiguration pool or is not type 1 or type 2.

Link test, level 2
    Issued by: CXDLTI

Explanation: Link test, level 2 is not supported by the user- written line control for this line.

LPDA2 Test
    Issued by: CXDKCEN

Explanation: This function is not supported.

REQMS
    Issued by: CXDKREQ

Explanation: This function is not supported.

ROUTE TEST
    Issued by: CXDGRTM

Explanation: The test code is less than 1 or greater than 4 or the route code is less than 1 or greater than 3.

SETCV (Channel Attention Delay)
   Issued by: CXDKSCD

   Explanation: The access method issued a SETCV (Channel Attention Delay command) to a remote controller.

SETCV (Intensive Mode)
   Issued by: CXDKSSI

   Explanation:

   • The action code is not supported.
   • Not an activate or deactivate intensive mode.

   Issued by: CXDKISC

   Explanation: The command is not for intensive mode.

SETCV (Time and Date)
   Issued by: CXDKSTD

   Explanation: The access method issued a SETCV (Time and Date) command with a function code that is not valid.

SETCV (Undefined)
   Issued by: CXDKSSV

   Explanation: Byte 5 of the RU is not valid. Undefined control vector key.

Test Mode
   Issued by: CXDKETP

   Explanation: The online terminal test (OLTT) is no longer supported.

080C 0001

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
   Issued by: CXDKPEP

   Explanation: The PEP switch function is not included in the load module.

080C 0002

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
   Issued by: CXDKPEP

   Explanation: An attempt was made to switch a line that is a nonswitchable PEP line.

080C 0003

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
   Issued by: CXDKPEP

   Explanation: An attempt was made to switch a line that has user-written line control (OEM).

080C 0004

Command:

Switch Line Mode to EP, Switch Line Mode to NCP
   Issued by: CXDKPEP

   Explanation:

   • An attempt was made to switch a resource that is not valid (either the line was SDLC or no RVT address was found).

   • The resource is not a pre-SNA line.

080C 0005

Command:

NMVT
   Issued by: CXDTMVR

   Explanation: The NMVT major vector key is not supported by the receiver.

080C 0006

Command:

NMVT
Issued by: CXDTMVR

Explanation: The NMVT major vector does not contain a recognized command subvector.

080C 0007

Command:

ACTTRACE
Issued by: CXDKLT5, CXDLTI

Explanation:

- This function is not supported on channel links.
- The line trace is not supported for the line specified.

Any command (FM physical services)
Issued by: CXDKFMR

Explanation: An EP channel is defined as a channel link.

LPDA2 Test
Issued by: CXDKSYP

Explanation: The resource or the procedure is not supported.

NMVT
Issued by: CXDTDTQP, CXDTQLA, CXDTGTM2

Explanation: The set/query LA, or alter/query LSA, or alter/modify SIR functions are not supported for this resource.

Issued by: CXDTDTAP, CXDTSLA

Explanation: The setting or the altering LPDA is not allowed on channel links.

Issued by: CXDTGTQ2

Explanation:

- The target is a programmed resource and does not support this function.
- The target does not support this function. The address format type was X'A0' and the resource specified was not NLX.
- The target does not support this function. The address format type was X'C0' and the resource specified was not SNP, CUB, BSB, or DVB.

Issued by: CXDTSLA, CXDTDTAP

Explanation:The Set Link Attributes request and the Set Link Station Attributes request are not supported for this resource.

Issued by: CXDTRFCP

Explanation: Procedure not supported.

SETCV (Intensive mode)
Issued by: CXDKSSI

Explanation: The intensive mode function is not allowed for this type of resource.

SETCV (Modify NCP Command)
Issued by: CXDKNCMD

Explanation: Function not supported for given resource: The NDRS attempt cannot be initiated because the function is not supported for the specified resource. The resource must be a NTRI sub-area station.

Test Mode
Issued by: CXDLTI

Explanation: This function is not supported for the resource given.

REQMS
Issued by: CXDKCEN

Explanation: REQMS requested LPDA1 test, which is not valid for an LPDA2 line.

RNAA

Issued by: CXDDRNL

Explanation:

RNAA requests are not supported for:

- Adding an LU to an ETHERNET resource
- Adding an LU to frame-relay over token-ring resource
- Adding LUs to frame-relay physical resource
- LUs to a physical token-ring resource
- Adding an LU to a frame-relay IP logical resource
- Adding an LU to an ISDN physical resource or an ISDN B-channel resource

Issued by: CXDDRNP

Explanation:

- All RNAA requests are rejected for channel links, token-ring links, frame-relay logical links (except FR IP logical links), SNA ODLC X.25 links, and ISDN links.

- RNAA type 0 requests are rejected for secondary links, frame-relay links and frame-relay over token-ring links.

RNAA5

Issued by: CXDRNP5

Explanation: RNAA5(Move) is not supported for a frame-relay link or a token-ring frame handler logical link.

080C 000A

Command:

NMVT (SAL subvector)

Issued by: CXDTSYV

Explanation: The number of target entities avaiable are not valid.

080C 0019

Command:

ACTTRACE

Issued by: CXDKLT5

Explanation: A logical line trace is not supported for a frame-relay IP logical line.

080C 001A

Command:

CONNOUT

Issued by: CXDDIAL

Explanation: Direct callout over an ISDN B-channel line not supported.

080C 4001

Command:

DACTLINK (Forced)

Issued by: CXDKDLF

Explanation: The XIO Immediate failed because the OEM line does not support the forced deactivate facility.

RNAA5

Issued by: CXDRNP5

Explanation: RNAA5 is not supported for adding an IP physical unit to a 3745 frame-relay physical line without an owning TCP/IP host being defined (that is, no NCPROUTE support available).

080C 4003

Command:

080D 0000

DACTLINK (Forced)
Issued by: CXDKDLF

Explanation: The line to be deactivated is in the EP mode.

080D XXXX   (Label: SNS8D)

Request reject: NAU Contention

080D 0000

Command:

ACTCDRM
Issued by: CXDGCON

Explanation:

- The SSCP identifier of the second ACTCDRM received is less than the SSCP identifier of the first ACTCDRM received.

- The SSCP identifier of second ACTCDRM is greater than the SSCP identifier of the first ACTCDRM. Second virtual route activation for the first ACTCDRM is pending.

ACTVR
Issued by: CXDVRAV

Explanation: The NCP has a higher SA number than the sender of an ACTVR in an NCP/ACTVR contention.

080E XXXX   (Label: SNS8E)

Request reject: NAU not authorized

080E 0000

Command:

ACTPU
Issued by: CXSNAPU

Explanation: The ACTPU was not issued by the owner of the link.

ACTPU (ERP)
Issued by: CXDBAPH

Explanation: The RVT contains an RVT entry, and it is an IBM special products or user-written code resource, not a NAU.

Contact
Issued by: CXSNCON

Explanation: The CONTACT was not issued by the owner of the link.

DACTLINK
Issued by: CXSVDLK

Explanation: The DACTLINK was not issued by the owner of the link.

FNA
Issued by: CXDDFNA

Explanation: BFSESSINFO is in progress.

SETCV (MODIFY NCP Command)
Issued by: CXDKNCMD

Explanation: NAU not authorized. The VTAM requesting the path switch attempt is not the owner of the PU.

080E 0001

Command:

ACTPU
Issued by: CXDBAPM

Explanation: The SSCP is not allowed to activate the physical unit in NCP.

080E 0002

Command:

Any Command
Issued by: CXDCPSO

Explanation: This type of PIU cannot be accepted from an SSCP in a non-native network.

080E 0003

Command:

Contact
Issued by: CXDKBNT

Explanation: The station is dynamic and the CONTACT issuer is not the dynamic reconfiguration owner.

CONNOUT
Issued by: CXDKCON

Explanation: The station is dynamic and the CONNOUT issuer is not the DR owner.

080E 0004

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation:

- The sending SSCP is not the owner of the physical unit to which the logical unit is attached.
- The sending SSCP is not the owner of the PU.

080E 0006

Command:

FNA
Issued by: CXDDFN2

Explanation: The physical unit is in a takeover required condition.

0812 XXXX   (Label: SNS92)

Request reject: Insufficient resources

0812 0000

Command:

Activate GPT
Issued by: CXDGPAT

Explanation: Not enough resources are available.

ACTVR
Issued by: CXDBACT

Explanation: The virtual route cannot be activated due to the lack of resources.

DISPSTOR
Issued by: CXDKDSP

Explanation: Not enough buffers are available.

LPDA2 Test
Issued by: CXDKSYP, CXDKSYT

Explanation: Not enough resources are available.

NMVT
Issued by: CXDTLER

Explanation: The system is in slowdown; not enough resources are available.

REQMS
Issued by: CXDKCEN

Explanation:

- The LPDA1 test was requested when the system was in slowdown.
- Buffers are not available for leasing.

RNAA
Issued by: CXDGRHSB

Explanation: Not enough resources are available.

Issued by: CXDGRNF

Explanation: The logical unit for transform is not found.

Session Trace
Issued by: CXDKSTR

Explanation: Not enough buffers are available.

SETCV (Intensive Mode)
Issued by: CXDKSSI

Explanation: The SSCP tried to activate intensive mode when the NCP was in slowdown; not enough resources are available.

Test Mode
Issued by: CXDLTI

Explanation: Not enough buffers are available.

X'06' Transfer-PIU-out mailbox command for: REQMS, DISPSTOR
Issued by: CXAMINTS

Explanation: MOSS does not have sufficient resources to process the NCP/EP request.

Issued by: CXDKMOS

Explanation: Unable to queue SNA request because buffers are not available.

0812 0001

Command:

NPASTART
Issued by: CXJQSSVA

Explanation: An attempt was made to start network performance analyzer data collection on more resources than permitted.

RNAA
Issued by: CXDDRNP, CXDDRNL, CXDRNL4, CXDRNP5

Explanation: There are more physical units or logical units specified than are available in the pools, or the element address is not within the range of MAXSUBA.

0812 0002

Command:

RNAA
Issued by: CXDDRNP, CXDRMPU, CXDRNP5

Explanation: More physical units have been specified than the tables will hold.

Issued by: CXDKSSP

Explanation: An attempt was made to add a group poll address, but the maximum number of group poll addresses (16) are already assigned to the link.

SETCV
Issued by: CXDKSSP

Explanation: An attempt was made to add a group poll address, but the maximum number of group poll addresses (16) are already assigned to the link.

0812 0003

Command:

BIND

Issued by: CXDTBAP

Explanation: The logical unit block extension (LUX) is not available.

0812 0004

Command:

RNAA

Issued by: CXDGRNA, CXDGRNF

Explanation:. A pre-ENA address was requested. MAXSUBA was not specified during NCP generation.

Issued by: CXDDRNL, CXDDRNP, CXDRNL4, CXDRNP5

Explanation: A pre-ENA address was requested. Not enough pre-ENA addresses are available in the dynamic reconfiguration pool to satisfy the request.

0812 0005

Command:

BIND

Issued by: CXDCBND

Explanation: Not enough reserved session control blocks are available.

RNAA

Issued by: CXDRNL4

Explanation:

- Not enough reserved session control blocks are available.
- The number of BSB to reserve is greater than the UNR/RES count of the BSB pool.

0812 0006

Command:

BIND

Issued by: CXDCBBP

Explanation: Not enough unreserved session control blocks are available.

BIND

Issued by: CXDCBND

Explanation: Not enough unreserved session control blocks are available.

RNAA

Issued by: CXDRNL4

Explanation: Not enough LNB/LNDs are available in the dynamic reconfiguration pool.

0812 0007

Command:

BFCINIT

Issued by: CXDCBFN

Explanation: The maximum number of sessions for this logical unit has been reached.

RNAA

Issued by: CXDDRNL

Explanation: Not enough LNDs are available.

RNAA

Issued by: CXDRNL4

Explanation: An LNB or LND is not in the pool.

0812 0008

Command:

BIND
Issued by: CXDTBBP

Explanation: Not enough buffers are available.

RSP (BIND)
Issued by: CXDCBOR

Explanation: The session is unbound due to buffer shortage.

RSP (BIND)
Issued by: CXDCBRP

Explanation: The session is unbound due to buffer shortage.

RSP (BIND)
Issued by: CXDTBAP

Explanation: The session is unbound due to buffer shortage.

0812 0009

Command:

BIND
Issued by: CXDCBBP

Explanation: Not enough buffers are available.

Issued by: CXDCHRS

Explanation: Buffer prelease failed. There are not enough buffers to build BFCINIT.

BIND (NPA)
Issued by: CXJQNLSN

Explanation: Not enough buffers are available.

BFCINIT
Issued by: CXDCBFN, CXDOBFS

Explanation: There are not enough buffers to avoid a deadlock.

NPA Forward
Issued by: CXJQNLFW

Explanation: Not enough NCP buffers are available, or NCP is in slowdown.

SETCV
Issued by: CXDGSCV

Explanation: Not enough buffers are available.

0812 000E

Command:

BIND
Issued by: CXDCHBFC

Explanation:

- The CV60 control point names data was not saved in the network names table because it was full.
- A BIND or BFCINIT cannot be processed because of insufficient storage to keep the network qualified name of the initiating control point.

BIND, BFCINIT
Issued by: CXDBNIN

Explanation: The network names table is full.

RNAA
Issued by: CXDRNL4, CXDDRNL

Explanation: The network names table is full.

0812 0011

Command:

ACTTRACE

Issued by: CXDKLT5

Explanation:

- This is a single high-speed line trace restriction.

- A line trace was already active on a high-speed line when another line trace was requested. HPTSS and ESS are all considered high-speed lines. No other trace can be activated while a high-speed line trace is in progress. The logical line trace may not be activated while another high-speed line trace is active. The high-speed lines include HPTSS line trace, Ethernet-type subsystem (ESS) line trace, NTRI physical line trace, ODLC LAN physical line trace, NTRI logical line trace, and the outboard data link control (ODLC) LAN logical line trace.

0812 001B

Command:

ACTLINK

Issued by: NTRI module

Explanation: Not enough resources are available to accept an incoming call.

XID/CV22

Issued by: CXEBNCR

Explanation: The token-ring station could not be activated due to insufficient resources.

0812 001E

Command:

SESSEND

Issued by: CXDCBIA, CXDCSRP

Explanation: The queue size limit (QSZALERT) has been exceeded.

UNBIND

Issued by: CXDCBIA, CXDCSRP

Explanation: The queue size limit (QSZALERT) has been exceeded.

0812 0021

Command:

XID/CV22

Issued by: CXDXIDV, CXDXIDVA

Explanation: A received XID3 cannot be fully processed because the receiver has insufficient storage to keep the network-qualified name of the sender's control point.

0812 0022

Command:

BIND

Issued by: CXDCBBP, CXDCBND, CXDTBAP

Explanation: NCP cannot dynamically allocate a resource control block because the number of resource control blocks already allocated dynamically has exceeded the limit specified using the first suboperand of the DYNPOOL keyword on the BUILD definition statement.

RNAA

Issued by: CXDDRNL, CXDDRNP, CXDGRHSB, CXDGRNF, CXDRMPU, CXDRNL4, CXDRNP5, CXHPALCB

Explanation: NCP cannot dynamically allocate a resource control block because the number of resource control blocks already allocated dynamically has exceeded the limit specified using the first suboperand of the DYNPOOL keyword on the BUILD definition statement.

UNBIND

Issued by: CXDCBBP, CXDCBND, CXDTBAP

Explanation: NCP cannot dynamically allocate a resource control block because the number of

resource control blocks already allocated dynamically has exceeded the limit specified using the first suboperand of the DYNPOOL keyword on the BUILD definition statement.

0812 0023

Command:

RNAA

Issued by: CXDDRNL, CXDDRNP, CXDGRHSB, CXDGRNF, CXDRMPU, CXDRNL4, CXDRNP5, CXHPALCB

Explanation: NCP cannot dynamically allocate a resource control block because buffer utilization is to close to the slowdown threshold.

BIND

Issued by: CXDCBBP, CXDCBND, CXDTBAP

Explanation: NCP cannot dynamically allocate a resource control block because buffer utilization is to close to the slowdown threshold.

UNBIND

Issued by: CXDCBBP, CXDCBND, CXDTBAP

Explanation: NCP cannot dynamically allocate a resource control block because buffer utilization is to close to the slowdown threshold.

0812 0024

Command:

RNAA

Issued by: CXDDRNL, CXDDRNP, CXDGRNF, CXDRNL4, CXDRNP5

Explanation: NCP cannot dynamically allocate a resource control block because no network element address is available.

0812 0025

Command:

ACTCONNIN
Issued by: CXDDACP

Explanation: The virtual node CPname could not be saved due to lack of controller storage. The network names table is full.

CONNOUT
Issued by: CXDDIAL

Explanation: The virtual node CPname could not be saved due to lack of controller storage. The network names table is full.

CONTACT
Issued by: CXDKBNT

Explanation: The virtual node CPname could not be saved due to lack of controller storage. The network names table is full.

XID/CV22
Issued by: CXDXIDV

Explanation: The virtual node CPname could not be saved due to lack of controller storage. The network names table is full.

0812 1000

Command:

NPA START
Issued by: CXJQNLSN

Explanation: NEO products out of resource.

0812 2000

Command:

NPA START
Issued by: CXJQNLSN

Explanation: The NPA counter queue extension (NQX) cannot be allocated from the pool.

0813 XXXX   (Label: SNS93)

0813 0000

Command:

BB PIU
Issued by: CXDPBMI

Explanation: Bracket bid reject—No RTR forthcoming.

Issued by: CXDPBMO

Explanation: Bracket contention—No RTR.

0815 XXXX   (Label: SNS95)

Request reject: Function active

0815 0000

Command:

ACTLINK (BSC and start-stop)
Issued by: CXDEAL

Explanation: The line is already owned by this SSCP.

ACTLINK (NPA)
Issued by: CXJQNVDL

Explanation: The SNP mask of the link owner matches the SNP mask of the PIU sender.

ACTLINK (SDLC)
Issued by: CXDKALP

Explanation: The link is already active.

ACTLU
Issued by: CXSSTAT

Explanation: The logical unit is already active.

ACTPU
Issued by: CXSSTAT

Explanation: The physical unit is already active.

ACTTRACE
Issued by: CXDKLT5

Explanation: The SSCP already has a line trace active on this line.

ACTVR
Issued by: CXDBACT

Explanation: The virtual route is already active.

BIND
Issued by: CXDBSIA

Explanation: The logical unit is already in session with that application.

BIND (for 3270)
Issued by: CXDPLU1

Explanation: An LU-LU session already exists.

CONNOUT
Issued by: CXDDIAL

Explanation: Dial was already in progress on the link.

Issued by: CXDKCON

Explanation: Dial was already active.

Contact
Issued by: CXDKCNT

Explanation: The access method issued the command while the station is already owned.

Issued by: CXDKBNT

Explanation: Non-activation contacts not supported unless PU type 2.1.

DUMPFINAL, DUMPINIT, DUMPTEXT, IPLFINAL, IPLINIT, IPLTEXT, Remote Power-Off
Issued by: Remote load and dump program

Explanation: The access method issued a command to the remote communications controller, and the command is already active.

REQMS
Issued by: CXDKCEN

Explanation: An LPDA1 test is requested when another LPDA1 test is in progress on the line or link.

SETCV (Intensive Mode)
Issued by: CXDKSSI

Explanation: An intensive mode function is already active.

Start Data Traffic
Issued by: CXDBSDF

Explanation: The access method issued a Start Data Traffic command, and data flow is already enabled.

Switch Line Mode to EP,   Switch Line Mode to NCP
Issued by: CXDKPEP, CXDKPEPT

Explanation: The line to be switched was already in the requested mode.

Test Mode
Issued by: CXDLTI

Explanation: The SSCP issued a Test Mode command (with a request count other than 0) while the specified station is in a test state with another Link test, level 2 in progress.

0815 0001

Command:

BIND
Issued by: CXDGLDP

Explanation: The session is already active.

0815 0003

Command:

BIND
Issued by: CXDCBIA

Explanation: A BIND request was received from OPLU when the session was active.

0816 XXXX   (Label: SNS96)

Request reject: Function inactive

0816 0000

Command:

ABCONNOUT
Issued by: CXDDADI

Explanation: A dial operation is not in progress.

DACTCONNIN
Issued by: CXDDADI

Explanation: The link is not in answer mode.

DACTLINK (NCST)
Issued by: CXSVDLK

Explanation: The link is inactive.

DACTLU
Issued by: CXSSTAT

Explanation: The logical unit is inactive.

DACTPU
Issued by: CXSSTAT

Explanation: The physical unit is inactive.

DACTTRACE
Issued by: CXDKLT5

Explanation: One of the following has occurred:

- The access method issued a deactivate trace command and no trace is active.
- This SSCP does not own the specified link.

Deactivate GPT
Issued by: CXDGPDT

Explanation: The function is inactive.

Discontact
Issued by: CXSSTAT

Explanation: The physical unit has not been CONTACTED.

Session Trace
Issued by: CXDKSTR

Explanation: The trace is not enabled.

Test Mode
Issued by: CXDLTI

Explanation: The SSCP issued a Test Mode command with a request count=0 (stop test request) to a station not in a test state; the function is inactive.

0817 XXXX   (Label: SNS97)

Request reject: Link inactive

0817 0000

Command:

ACTCONNIN
Issued by: CXDDACP

Explanation: The specified link is inactive.

ACTCONNOUT
Issued by: CXDDIAL

Explanation: The specified link is inactive.

ACTPU
Issued by: CXSSTAT

Explanation: The link to which the physical unit is subordinate is inactive.

Contact
Issued by: CXDKCNT, CXSSTAT

Explanation: The access method issued a CONTACT command to a station, but the link is not active nor owned by this SSCP.

ACTLINK, DACTLINK (BSC and start-stop)
Issued by: CXDEDLH

Explanation: The line is already inactive.

DACTLINK (SDLC)
Issued by: CXDKDLP

Explanation: The access method issued a DACTLINK command for a link that is not active.

DACTPU
Issued by: CXSSTAT

Explanation: The link to which the physical unit is subordinate is inactive.

Discontact
Issued by: CXDKDCT, CXSSTAT

Explanation: The access method issued a DISCONTACT command for a link that is not active or that was activated by another SSCP.

DUMPINIT, IPLINIT, Remote Power-Off
Issued by: CXDKRPD

Explanation: The access method issued a command to a remote controller, but the link is not active, or the link is owned by another SSCP.

Test Mode
Issued by: CXDLTI

Explanation: The SSCP issued a Test Mode command, but the link is not active, or the link is not owned by the SSCP requesting the test.

0817 0001

Command:

DACTLINK (Type=FORCE)
Issued by: CXDKLFT2

Explanation: The line is inactive.

LPDA2 Test
Issued by: CXDKSYP, CXDKSYT, CXELCLCU, CXDKSSNQ

Explanation: The line is inactive.

PDSTATS NMVT, LINK-EVENT NMVT
Issued by: CXDTLER

Explanation: The line is inactive.

0817 0002

Command:

CONNOUT
Issued by: CXDKCON

Explanation: The link station is inactive.

Contact
Issued by: CXDKCNT

Explanation: The link station is inactive.

0817 0003

Command:

ACTCONNIN
Issued by: CXDDACP

Explanation: There is no connection on the switched line.

LPDA2 Test
Issued by: CXDKSYP

Explanation: There is no connection on the switched line.

PDSTATS NMVT LINK-EVENT NMVT
Issued by: CXDTLER

Explanation: There is no connection on the switched line.

0817 0005

Command:

DACTLINK (Forced)
Issued by: CXDKLFT2

Explanation: The service link is inactive.

LPDA2 Test
Issued by: CXDKSVLK

Explanation: The service link is inactive.

0817 0007

Command:

LPDA2 Test
Issued by: CXESXSM

Explanation: The requested test was not initiated because the line to be tested was put into an inactive state.

0817 0008

Command:

LPDA2 Test
Issued by: CXELCLCU, CXELXLLP, CXESXSM

Explanation: The requested test was interrupted because the line to be tested was put into an inactive state.

0817 4001

Command:

DACTLINK (Forced)
Issued by: CXDKDLF

Explanation: The issuer of the command is not an owner of the line.

0818 XXXX   (Label: SNS98)

Request reject: Link procedure in progress

0818 0000

Command:

ACTLINK (BSC and start-stop)
Issued by: CXDEAL

Explanation: The DACTLINK is in progress.

Contact
Issued by: CXDKCNT, CXSSTAT

Explanation:

- The station is owned.
- The Contact or the Discontact processing is in progress.

Discontact
Issued by: CXDKDCT

Explanation: One of the following has occurred:

- The access method issued a DISCONTACT command to a station, but an SDLC command is outstanding.
- A primary or secondary switch is in progress.
- A station quiesce is pending.

DUMPINIT, IPLINIT, Remote Power-Off
Issued by: CXDKRPD

Explanation: In the IPL/Dump/RPO pending state.

0818 0001

Command:

ACTLINK (BSC and start-stop)
Issued by: CXDEAL

Explanation: The line is in switch mode.

DACTLINK (BSC and start-stop)
Issued by: CXDEDLH

Explanation: The resource is not in a contact pending state.

0818 0002

Command:

ACTLINK
 Issued by: CXDKALP

 Explanation: An attempt was made to activate the link while a link procedure was in progress (for example, wrap).

 Issued by: CXDEAL

 Explanation: The wrap test is active.

0818 0003

Command:

DACTLINK
 Issued by: CXDEDLH

 Explanation: An activate link is in progress.

Contact
 Issued by: CXDKBNT

 Explanation: The station is not in active normal state.

0818 0004

Command:

ACTLINK
 Issued by: CXDEDLH

 Explanation: An attempt was made to deactivate the link while a line halt was in progress.

0818 0005

Command:

NMVT
 Issued by: CXDTDTAP, CXDTLER, CXDTSLA

 Explanation: The access method issued an NMVT PIU with a subvector key=Set-LPDA-attribute while an LPDA was in progress.

LPDA2 Test
 Issued by: CXDKSYP

 Explanation: A LPDA test is in progress.

0818 0006

Command:

LPDA2 Test
 Issued by: CXDKSYP, CXDKSYT

 Explanation: The OLTT is active.

0818 0007

Command:

Discontact
 Issued by: CXDKDCT

 Explanation: The link level 2 test is active.

LPDA2 Test
 Issued by: CXDKSYP, CXDKSSNQ, CXDKSYT

 Explanation: The link level 2 test is active.

0818 0009

Command:

LPDA2 Test
Issued by: CXDKSYT

Explanation: The TI lead is active; the line is already in test mode.

0818 000A

Command:

LPDA2 Test
Issued by: CXDKSVLK

Explanation: The OLTT is active on the service link.

0818 000B

Command:

LPDA2 Test
Issued by: CXDKSVLK

Explanation: A link level 2 test is active on the service link.

0818 000C

Command:

LPDA2 Test
Issued by: CXDKSVLK, CXDKSYP

Explanation: A link problem determination test for a modem is in progress on the service link.

NMVT
Issued by: CXDTLER

Explanation: A test is in progress on service link.

081A XXXX   (Label: SNS9A)

Request reject: Request sequence error

081A 0000

Command:

Any Command
Issued by: CXDCBOP, CXDCBOL

Explanation: No SETCV data was received.

Issued by: CXJQNLDL, CXJQNPCN, CXJQNVAL

Explanation: A procedure error exists.

Any Command (NPA)
Issued by: CXJQNXIN

Explanation: An enqueued PIU is present.

Any command other than ACTLINK or DACTLINK (NPA)
Issued by: CXJQNVAL, CXJQNVDL

Explanation: The PIU received is not valid.

Any command other than ACTLU (NPA)
Issued by: CXJQNLAL

Explanation:

- The command received is not ACTLU PIU.
- The link owner is not the sender.

Any command other than ACTPU or Discontact (NPA)
> Issued by: CXJQNPAP

Explanation:

- The PIU received is not valid.
- The link owner is not the sender.

Any command other than BIND request or DACTLU request or UNBIND request from session partner (NPA)
> Issued by: CXJQNLDL

Explanation:

- The PIU received is not valid.
- The DACTLU sender is not the link owner.

ABCONN
> Issued by: CXDDABC

Explanation: The disable failed and the station is still active.

ACTLINK (BSC and start-stop)
> Issued by: CXDEDLH

Explanation: The line is busy.

ACTPU
> Issued by: CXSSTAT

Explanation: A CONTACT has not been received for this physical unit.

BIND PIU (NPA)
> Issued by: CXJQNLSN

Explanation: A procedure error exists.

Contact
> Issued by: CXDKCNT, CXSSTAT

Explanation: The station has already been CONTACTED.

DACTLINK (BSC and start-stop)
> Issued by: CXDEDLH

Explanation: The line is busy.

DACTLINK (NCST)
> Issued by: CXSVDLK

Explanation: An active station is on the link.

DACTLINK (SDLC)
> Issued by: CXDKDLP

Explanation:

- An active station is on the link.
- No connection exists.

DACTPU
> Issued by: CXSSTAT

Explanation: A DISCONTACT has not been received for this physical unit.

DACTPU, Discontact (NPA)
> Issued by: CXJQNPDP

Explanation: The address of the PIU sender is not the same as the link owner.

Discontact
> Issued by: CXDKDCT

Explanation: The SETCV has not been received.

DUMPFINAL, IPLFINAL
> Issued by: CXDKRPD

Explanation: The access method issued the command without having issued an IPLINIT or DUMPINIT.

DUMPFINAL, DUMPINIT, DUMPTEXT, IPLFINAL, IPLINIT, IPLTEXT
> Issued by: Controller Load and Dump Program (CLDP)

Explanation: The access method issued an out-of-sequence or duplicate command to a remote controller.

Remote Power-Off

Issued by: CXDKRPD

Explanation: The SSCP is not the station owner.

SETCV

Issued by: CXDGSCV

Explanation:

- The SETCV command was received with a vector that has already been processed.
- The SETCV command was received after a session has become active.
- The VRID list has already been processed.

SETCV (Logical Unit)

Issued by: CXDKSSL

Explanation:

- A logical unit was specified that has not been assigned (the LUB had no SCB address).
- The network address specified is a logical unit, but byte 5 of the command is not X'04' (LU).

SETCV (Physical Unit)

Issued by: CXDKSSP

Explanation: Unable to find the resource.

Test Mode

Issued by: CXDLTI

Explanation: Unusable SETCV data was received.

081A 0001

Command:

ACTLU

Issued by: CXDCATL

Explanation: There is no SSCP to physical unit session.

FNA

Issued by: CXDDFNA

Explanation: The CUB was not found in the PUV.

081A 0002

Command:

Any Command

Issued by: Controller Load and Dump Program (CLDP)

Explanation: An IPL or dump RU sequence error occurred. (The IPLFINAL command was not received after IPLINIT on load from disk.)

081A 0004

Command:

ROUTE TEST

Issued by: CXDGRTM

Explanation: The SSCP that issued the Route Test does not have the alias address (NLB/NIB) in the network of the route to be tested.

081A 0006

Command:

RNAA

Issued by: CXDDRNL

Explanation: The dynamically added physical unit has not been initialized with a CV. (The physical unit was added by RNAA but a CV has not been sent.)

081A 0007

Command:

ACTLU
Issued by: CXDBSIL, CXDCATL

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (MOVE).

BFCINIT
Issued by: CXDCHBFC

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (MOVE).

BIND
Issued by: CXDBSIA, CXDCBND

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (MOVE).

CONNOUT
Issued by: CXDKCON

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (MOVE).

Contact
Issued by: CXDKCNT

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (MOVE).

081A 0008

Command:

ACTLU
Issued by: CXDBSIL, CXDCATL

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (ADD).

BFCINIT
Issued by: CXDCHBFC

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (ADD).

BIND
Issued by: CXDBSIA, CXDCBND

Explanation: The temporary resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (ADD).

CONNOUT
Issued by: CXDKCON

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (ADD).

Contact
Issued by: CXDKCNT

Explanation: The resource is dynamic and there is no owner. SSCP ownership must be reestablished by sending RNAA (ADD).

081A 0009

Command:

ACTLINK
Issued by: CXDKALP

Explanation: Associated physical resources are not active.

CONNOUT
Issued by: CXDDIAL

Explanation: An RU sequence error occurred. CONNOUT was received for a logical line and its associated physical station is not active.

081A 000A

Command:

Discontact
Issued by: CXDKDCT

Explanation: An RU sequence error occurred. A Discontact was received for a physical station that has active logical lines associated with it. This will also occur on frame-relay LMI PUs that have FRSE PUs and no logical lines.

081A 0011

Command:

CONTACT
Issued by: CXDKBNT

Explanation: CONTACT for a leased Advanced Peer-to-Peer Networking (APPN) connection must be preceded by a CONNOUT.

081A 0012

Command:

CONTACT
Issued by: CXDKBNT

Explanation: The CONTACT connection support bit is not the same as the connection support requested by the earlier CONNOUT.

081A 0013

Command:

CONNOUT
Issued by: CXDKCON

Explanation: A CONNOUT specifying LEN in its connection support field was received for a nonswitched link station, which is a protocol violation.

Command:

CONTACT
Issued by: CXDFRSSV

Explanation: A CONTACT was received for an FRFH physical unit whose local management interface (LMI) physical unit was not in an active state.

081A 0015

Command:

CONTACT
Issued by: CXDFRSSV

Explanation: A CONTACT was received for an RNAA-added, intra-FRFH PVC segment subport. A SETCV with a FRSE (CV80) control vector has not been received.

081C XXXX   (Label: SNS9C)

Request reject: Function not executable

081C 0000

Command:

All mailbox requests (other than X'06' Transfer PIU) on the outbound queue or the hold queue.
Issued by: CXAMDNOF

Explanation: A mailbox request was received while MOSS was down or offline, and the request is not executable.

DUMPFINAL
Issued by: Controller Load and Dump Program (CLDP)

Explanation: The remote load and dump program is unable to restore the high 8K of storage that was saved prior to the dump procedure.

081C 0003

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT, CXDKSYP, CXDTLER, CXDKSSNQ

Explanation: A hardware error is indicated on the line.

081C 000B

Command:

LPDA2
Issued by: CXELXLLP

Explanation: Requested test was completed successfully, but the results of the test are not available because of a software error.

081C 00B1

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: An Abort was detected. The function cannot be executed.

081C 00B2

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: A hardware error has occurred.

081C 00B3

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: A time-out from the modem has occurred.

081C 00B4

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: A scanner overrun or underrun was detected.

081C 00B5

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: A data check was detected.

081C 00B6

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: The 38xx command was issued in an invalid format.

081C 00B7

Command:

LPDA2 Response NMVT
Issued by: CXDKSYT

Explanation: An undetermined error has occurred.

081C 00B8

Command:

LPDA2 Response NMVT
Issued by: CXDKSVLK

Explanation: A hardware error is indicated on the service link.

081D XXXX   (Label: SNS9D)

081D 0005

Command:

CONTACT
Issued by: CXDKBNT

Explanation:

- Connection network virtual node CPname in CONTACT does not match the virtual node CPname currently in use on the connection.
- The CONTACT carries a virtual node CPname but the connection is not a network connection.

081E XXXX   (Label: SNS9E)

Request reject: Session does not exist

081E 0001

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation: The session indicated in the BFCLEANUP does not exist.

081E 0002

Command:

BFCINIT
Issued by: CXDCBFN

Explanation: The session indicated in the BFCINIT does not exist.

Issued by: CXDCHBFC

Explanation:

- The session was not found.
- The physical unit is not owned by the SSCP that sent the BFCINIT or the LNB is not allocated.

081E 0004

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation: The HRS control block is not in the "Waiting for BFCINIT" state.

0820 XXXX   (Label: SNSA0)

Request reject: Control vector error.

0820 0000

Command:

SETCV (Intensive Mode)
Issued by: CXDKSSI

Explanation: The control vector continued an intensive mode record maximum count=0.

SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation:

- The segment size is invalid.
- The command specifies the physical unit as not type 1, type 2, type 4, or type 5.

0820 0001

Command:

SETCV
Issued by: CXDFCV80

Explanation: One of the two primary partners in the frame-relay subport set is not defined.

0820 0002

Command:

SETCV
Issued by: CXDFCV80

Explanation: A partner in the frame-relay subport set is invalid or is defined more than once in this set.

0820 0003

Command:

SETCV
Issued by: CXDFCV80

Explanation: One or more of the physical units specified in the CV were found to be already associated with another frame-relay subport set.

0821 XXXX   (Label: SNSA1)

Request reject: Invalid session parameters.

0821 0000

Command:

ACTLU (terminal nodes)
Issued by: CXDPPU1

Explanation:

- The activation type is neither cold nor ERP.
- The transmission subsystem is not 1.

Issued by: CXDBSIL, CXDCATL

Explanation: The activation type is neither cold nor ERP.

ACTPU (terminal nodes)
Issued by: CXDBSI1

Explanation: The NCP detected a session profile error.

Issued by: CXDBSIP

Explanation: The activation type is neither cold nor ERP.

BIND
Issued by: CXDPLU1

Explanation: The NCP detected a session profile error.

Issued by: CXS2BDV

Explanation: The PLU name specified in the BIND does not match the name coded in the NCP generation definition.

0821 0003

Command:

BIND
Issued by: CXS2BDV

Explanation: The BIND cryptography options must be X'00'.

0821 0006

Command:

RSP (BIND)
Issued by: CXDCB0F, CXDCBRP, CXDGLAP, CXDGLNL

Explanation: Incompatible pacing window sizes have been specified.

0821 0008

Command:

BIND
Issued by: CXS2BDV

Explanation: The pacing parameters are not specified correctly on the BIND.

0822 XXXX   (Label: SNSA2)

Request reject: Link procedure failure.

0822 0000

Command:

Any Command
Issued by: CXDKSNF

Explanation: A command was directed to a link that is inoperative.

ABCONNOUT, DACTCONNIN
   Issued by: CXDDADT

   Explanation: A link failure prevented the Dial command from being reset.

ACTLINK
   Issued by: CXDEENT

   Explanation: The modem failed to bring up data set ready before the enable time-out expired.

Contact
   Issued by: CXDKCNT

   Explanation: Link test, level 2 is active.

Discontact
   Issued by: CXDKDTT

   Explanation: Not NSA was received, and a ROL was not received.

   Issued by: CXDKRPD

   Explanation: Discontact was received after an IPLINITIAL, DUMPINITIAL, or RPO.

LOAD/DUMP/Remote Power Off, Final
   Issued by: CXDKCRT

   Explanation: The line type is IBM special products or user-written code or switched X.21. The run ended with something other than a time-out.

Set Initialization Mode
   Issued by: CXDKRST

   Explanation: No response.

0822 0001

Command:

Set Initialization Mode
   Issued by: CXDKRST

   Explanation: NCP received an IPLINIT request, resulting in a LINK DISCONNECT. The sending SSCP should reinitialize the dial connection and resend the IPLINIT request.

0822 0002

Command:

ACTLINK
   Issued by: CXDEENT

   Explanation: An ACTLINK for a token-ring logical connection was rejected because an active token-ring logical connection with the same MAC addresses and SAPs exists.

0822 8001

Command:

ACTLINK
   Issued by: CXDKALP

   Explanation: A hardware error was detected during activation.

0822 8002

Command:

ACTLINK
   Issued by: CXDEENT

   Explanation: Invalid parameters were passed to the token-ring interface coupler (TIC) at initialization.

0822 8003

Command:

ACTLINK
   Issued by: CXDEENT

   Explanation: A hardware error at the token-ring multiplexer (TRM) or TIC was detected at initialization.

0822 8004

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: TIC activation was attempted while the TRM was not operational.

0822 8007

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: A device was detected with a duplicate medium access control (MAC) address.

0822 8008

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: Invalid parameters were passed to the TIC at open.

0822 8009

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: A non-specific error was detected during a TIC open.

0822 800A

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: A lobe media error was detected during a TIC open.

0822 800B

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: A token-ring failure was detected during a TIC open.

0822 800C

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: A parameters server error was detected during a TIC open; REMOVE command received.

0822 800D

Command:

    ACTLINK

        Issued by: CXDEENT

        Explanation: An abnormal signal on the ring was detected during a TIC open.

0822 801B

Command:

ACTLINK
Issued by: CXDEENT

Explanation: The token ring is congested; a time-out occurred during a TIC open.

0822 801C

Command:

ACTLINK
Issued by: CXDEENT

Explanation: The token ring is congested; request parameters failed during a TIC open.

0822 801D

Command:

ACTLINK
Issued by: CXDEENT

Explanation: Beaconing occurred during a TIC open.

0822 8023

Command:

ACTLINK
Issued by: CXDEENT

Explanation: A TIC dump is in progress.

0822 8030

Command:

ACTLINK
Issued by: CXDEENT

Explanation: A link procedure failure occurred. The other CCU already activated the link.

0822 8031

Command:

ACTLINK
Issued by: CXDEENT

Explanation: A protocol mismatch between definitions occurred. Line activation rejected by the 3746 Model 900 because the same line adapter is already active and running a different protocol than that defined in the NCP generation definition.

0826 XXXX   (Label: SNSA6)

Request reject: FM function not supported.

0826 0006

Command:

Invalid PIU (NCP)
Issued by: CXJQNLSN

Explanation: This function is not supported on a LU-LU session for the network performance analyzer.

082C XXXX   (Label: SNSAC)

Request reject: Share limit exceeded.

082C 0000

Command:

Activate GPT
Issued by: CXDGPAT

Explanation: The share limit is exceeded.

ACTLINK (BSC and start-stop)
Issued by: CXDEAL

Explanation: The line is already owned by another SSCP.

ACTLINK (SDLC)
Issued by: CXDKALP

Explanation: The switched link is already owned by another SSCP. The share limit is exceeded.

ACTLU
Issued by: CXSSTAT

Explanation: The logical unit is already owned by another SSCP.

ACTPU
Issued by: CXSSTAT

Explanation: The physical unit is already owned by another SSCP.

ACTTRACE
Issued by: CXDKLT5

Explanation: The trace is already activated on this line by another SSCP.

Contact
Issued by: CXSSTAT

Explanation: The physical unit is already owned by another SSCP.

Discontact
Issued by: CXDKDCT

Explanation: A peripheral station cannot have multiple owners.

SETCV (Intensive Mode)
Issued by: CXDKSSI

Explanation: The originating SSCP is not the intensive mode owner.

082C 0001

Command:

Contact
Issued by: CXDKCNT

Explanation: The share limit was exceeded.

0832 XXXX   (Label: SNSB2)

Request reject: Invalid count field or inconsistent length.

0832 0000

Command:

NMVT
Issued by: CXDTDTAV, CXDTDTQV, CXDTQLA

Explanation: A length field in the request indicates a value that is too long or too short to be interpreted, or the length field is inconsistent with the length of the remaining fields.

Issued by: CXDTDTAV, CXDTDTQV, CXDTQLA, CXDTSLA

Explanation: A subvector or subfield length is inconsistent with the expected length.

0835 XXXX   (Label: SNSB5)

0835 000A

Command:

> **BIND**
>> Issued by: CXDCBBP
>>
>> Explanation: The SLU maximum RU send size is too large.

0835 000B

Command:

> **BIND**
>> Issued by: CXDCBRP
>>
>> Explanation:
>>
>> - The PLU maximum size is greater than the BTU maximum size, and response is nonnegotiable.
>> - The BIND RU contains an invalid field at the offset X'0B'.

0835 XYYY

Command:

> **NPA START or STOP**
>> Issued by: CXJQSSVA
>>
>> Explanation: IBM special products or user-written code does not support the NPM function for the resource.

X'0YYY'	Invalid resource identifier
X'1YYY'	Invalid element address
X'2YYY'	Inconsistent type information
X'3YYY'	IBM special products or user-written code not NPM capable
YYY	Offset into RU for the resource entry in error

0838 XXXX   (Label: SNSB8)

0838 0000

Command:

> **SETCV (MODIFY NCP Command)**
>> Issued by: CXDKNCMD
>>
>> Explanation: Request not executable because of resource or component state incompatibility: Either the station is not active or a transitional DLC/LLC state has been detected. The transitional DLC/LLC states which may be detected are listed below:
>>
>> - The LLC state is not link opened or link clearing.
>> - NDRS has already been initiated.
>> - Frame Reject, DISC, DM or XID is scheduled for transmission.

0839 XXXX   (Label: SNSB9)

0839 0001

Command:

> **BIND**
>> Issued by: CXDCSUN
>>
>> Explanation: During session initiation processing, a session termination request has caused the LU-LU session to be taken down.

083B XXXX   (Label: SNSBB)

083B 0004

Command:

SETUP
Issued by: CXDOSVAL

Explanation: An HRS was found with the same CV60 as the SETUP.

083B 0005

Command:

BFCINIT
Issued by: CXDOBFS

Explanation:

- The HRS address in the BFCINIT exceeds NCP storage.
- The HRS address in the BFCINIT is not a valid HRS.
- The HRS address in the BFCINIT is not allocated.
- The HRS CUB address does not equal the CUB (PU) address that is the target of the BFCINIT.
- The HRS correlator number does not equal the correlator number in the BFCINIT.

083B 0006

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation:

- The HRS address in CV0A on a BFCLEANUP exceeds NCP storage.
- The HRS address in CV0A on a BFCLEANUP is not a valid HRS.
- The HRS address in CV0A on a BFCLEANUP is not allocated.
- The HRS CUB address does not equal the CUB (PU) address that is the target of the BFCLEANUP.
- The HRS correlator number does not equal the correlator number in the CV0A on the BFCLEANUP.

0840 XXXX   (Label: SNSC0)

0840 0003

Command:

RNAA
Issued by: CXDDRNP

Explanation: An RNAA request was issued for a non-SNA line.

0840 0004

Command:

RNAA
Issued by: CXDDRNP

Explanation: An RNAA request was issued for a switched line.

NMVT
Issued by: CXDTSLA

Explanation: A request was issued for a switched line.

0840 0009

Command:

RNAA
Issued by: CXDRMPU

Explanation: A dynamically added resource cannot be moved using RNAA (MOVE).

0840 0013

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: The CONNOUT command contained an invalid direct call type for X.21.

0840 0014   (For NCP V6R2 and NCP V6R3 only)

Command:

CONNOUT, CONTACT
Issued by: CXDDIAL, CXDKCON, CXDKBNT

Explanation: NCP cannot present an APPN EN appearance.

0841 XXXX   (Label: SNSC1)

0841 0000

Command:

CINIT
Issued by: CXSPCIN

Explanation: The session partner is not available.

0841 0007

Command:

BFCINIT
Issued by: CXDCBOF

Explanation: BIND and UNBIND racing has occurred.

084B XXXX   (Label: SNSCB)

Request reject: Resources not available.

084B 0000

Command:

ACTTRACE
Issued by: CXDKLT5

Explanation:

- A request was made to activate a transmission group trace, but a transmission group trace is already active on another link (point-to-point links only).
- A request was made to activate a transmission group trace, but a line trace is already active on this line.
- An invalid parameter was specified.

084B 0002

Command:

RNAA
Issued by: CXDRMPU

Explanation: An existing CUB is available with the DLC address requested.

Issued by: CXDRNP5

Explanation: The requested local address is already assigned to a resource or the address is reserved.

Issued by: CXHPALCB

Explanation: Previously defined IP address and interface IP address changed.

084B 0004

Command:

RNAA
Issued by: CXDRNL4

Explanation: The number of BSBs specified in CV30 to be reserved is greater than the number of sessions per logical unit (MAXSESS).

084D XXXX   (Label: SNSCD)

Request reject: Invalid session parameters.

084D 0000

Command:

BIND (NPA)
Issued by: CXJQNLBN

Explanation: BIND parameters are not acceptable to the boundary function.

084F XXXX   (Label: SNSCF)

084F 0001

Command:

IPLINIT
Issued by: MOSS microprogram

Explanation: No space is available for the load module on the disk.

0850 XXXX   (Label: SNSD0)

Request reject: Invalid link station.

0850 0000

Command:

Set Initialization Mode
Issued by: CXDKRST

Explanation: An ROL was received in response to SIM.

0852 XXXX   (Label: SNSD2)

Request reject: ACTPU/ ACTCDRM sequence number received is older than the previous ACTPU/ ACTCDRM sequence number.

0852 0000

Command:

ACTCDRM
Issued by: CXDGCON

Explanation: The second ACTCDRM command that was received before the first ACTCDRM command with the earlier ACTCDRM request sequence indication (ARSI) will be rejected.

Issued by: CXDGOVE

Explanation:

> • A second ACTCDRM command is received after the first ACTCDRM has been forwarded.
>
> • An ACTCDRM command has been received from the other side after a positive response (+RSP) was forwarded to the first ACTCDRM command.

ACTPU

Issued by: CXDBAPH

Explanation: A session with a later date/time value is already active.

0852 0001

Command:

BIND

Issued by: CXDCBIO

Explanation: A BIND command was received from peripheral PLU while the session is being activated.

0855 XXXX   (Label: SNSD5)

0855 0006

Command:

SETUP

Issued by: CXDOSVAL, CXDOBFS

Explanation: The TG does not support APPN HPR.

0855 0008

Command:

SETUP

Issued by: CXDOSVAL, CXDOBFS

Explanation: There is not enough storage available to process the APPN HPR setup request.

0855 000A

Command:

BFCINIT

Issued by: CXDOBSET, CXDVISS

Explanation: A virtual route within a composite ANR node is inoperative.

0855 000B

Command:

SETUP

Issued by: CXDOSETO

Explanation: The SSCP owner does not support APPN HPR.

0855 000C

Command:

BFCINIT

Issued by: CXDOBFS

Explanation: The SETUP request cannot be routed to the destination because the origin or destination subarea in the CV15 is greater than 4095.

0855 000D

Command:

SETUP

Issued by: CXDOSERO, CXDOSETD

Explanation: The size of the SETUP or SETUP(REPLY) is greater than the maximum segment size for the connection.

0857 XXXX   (Label: NRSNSD7)

0857 0000

Command:

CINIT
Issued by: CXSPCIV

Explanation: The CINIT was not issued by the owner of the link.

CLEANUP
Issued by: CXSPTEV

Explanation: The CLEANUP was not issued by the owner of the link.

CTERM
Issued by: CXSPTEV

Explanation: The CTERM was not issued by the owner of the link.

086A XXXX   (Label: SNSEA)

Request reject: Invalid NMVT subfield key.

086A 0000

Command:

NMVT
Issued by: CXDTGTQ

Explanation: The MSU subfield key for the SAL subvector cannot be found.

SIR NMVT
Issued by: CXDTGTM

Explanation: An invalid subfield value was found in a command subvector.

086A 8100

Command:

NMVT
Issued by: CXDTSYV

Explanation: An invalid subfield key was found in a command subvector.

086A svsf

Command:

NMVT
Issued by: CXDTDTAV, CXDTDTQV, CXDTGTM, CXDTGTQ, CXDTQLA, CXDTSLA, CXDTSYV

Explanation: The NMVT subfield key is invalid. Sense code bytes 3 and 4 include the subvector key (sv) and the invalid subfield key (sf).

086B XXXX   (Label: SNSEB)

086B 0000

Command:

SIR NMVT
Issued by: CXDTGTM

Explanation: An invalid subfield value was found in a command subvector. The subfield was not X'01' or X'02'.

086B 4181

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect IP address subfield value was found.

086B 4182

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect MTU subfield value was found.

086B 4183

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect COMRATE DE control value was found in the DE control subfield.

086B 4184

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect COMRATE priority value was found in the COMRATE subfield.

086B 4185

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect DLCI subfield value was found.

086B 4186

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect T1TIMER local timeout value was found in the T1TIMER(1) subfield.

086B 4187

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect T1TIMER remote timeout value was found in the T1TIMER(1) sub-field.

086B 4188

Command:

> **RNAA, SETCV**
>> Issued by: CXDKCV41
>>
>> Explanation: An incorrect T2TIMER local timeout value was found in the T2TIMER(1) subfield.

086B 4189

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: An incorrect T2TIMER remote timeout value was found in the T2TIMER(2) sub-field.

086B 418A

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: An incorrect T2TIMER N3 value was found in the T2TIMER(3) subfield.

086B 418B

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: An incorrect DYNWIND NW value was found in the DYNWIND(1) subfield.

086B 418C

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: An incorrect DYNWIND DW value was found in the DYNWIND(2) subfield.

086B 418D

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: An incorrect DYNWIND DWC value was found in the DYNWIND(3) subfield.

086B 4190

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: Value passed for IPQLIM is not within X'0' and X'FFFFFFFF'.

086B 4192

Command:

RNAA, SETCV

Issued by: CXDKCV41

Explanation: Subfield length is not valid.

086B 4193

Command:

SETCV

Issued by: CXDKCV41

Explanation: An invalid value was specified for MLTGPRI. The value must be a number from 0 to 255.

Issued by: CXDKSSP

Explanation: MLTGPRI is invalid for X.25 PUs.

086B 4194

Command:

SETCV

Issued by: CXDKCV41

Explanation: An invalid value was specified for the TG Configuration subparameter of TGCONF. The value must be MULTI or SINGLE.

Issued by: CXDKSSP

Explanation: TGCONF is invalid for X.25 PUs.

086B 4195

Command:

SETCV

Issued by: CXDKCV41

Explanation: An invalid value was specified for the Line Mode subparameter of TGCONF. The value must be NORMAL or STANDBY. The Line Mode subparameter of TGCONF is STANDBY and the TG Configuration subparameter of TGCONF is SINGLE. This is invalid.

Issued by: CXDKSSP

Explanation: TGCONF is invalid for X.25 PUs.

086B 4196

Command:

SETCV

Issued by: CXDKCV41

Explanation: An invalid value was specified for the Congestion Relief Percentage subparameter of TGCONF. The value must be 3, 6, 12, 25, 50, 75, 87, 93, 97, 100, or NONE.

Issued by: CXDKSSP

Explanation: TGCONF is invalid for X.25 PUs

086B 81xx

Command:

NMVT

Issued by: CXDTGTM

Explanation: An incorrect subfield value was found in a command subvector (xx=Invalid subfield key).

Issued by: CXDTDTAP

Explanation: There is a semantics problem (xx=subfield key of subfield with error).

086B svsf

Command:

NMVT

Issued by: CXDTGTM, CXDTSLA, CXDKCV41

Explanation: The NMVT subfield value is invalid. Sense code bytes 3 and 4 include the sub-vector key (sv) and the subfield key (sf) of the invalid subfield value.

086C XXXX   (Label: SNSEC)

Request reject: Missing NMVT mandatory subvector.

086C 0400

Command:

NMVT
Issued by: CXDTDTAV, CXDTDTQV, CXDTGTM, CXDTGTQ, CXDTQLA, CXDTSLA, CXDTSYV, CXDTRFCP

Explanation: The SNA address-list subvector is missing.

086C 0E00

Command:

CONNOUT, CONTACT
Issued by: CXDDIAL, CXDKBNT

Explanation: The mandatory network name control vector (CV0E) is missing.

086C 4600

Command:

CONNOUT, CONTACT
Issued by: CXDKC46

Explanation: The mandatory transmission group description control vector (CV46) is missing.

086C 81XX

Command:

NMVT
Issued by: CXDTGTM

Explanation: An invalid subfield key was found in a command subvector (XX = invalid subfield key).

086D XXXX   (Label: SNSED)

Request reject: Missing NMVT mandatory subfield.

086D 81sf

Command:

NMVT (LCSDIAG Modem Request) (LCSOPCTL Modem Request)
Issued by: CXDTSYV

Explanation: A mandatory NMVT subfield is not present in the subvector. Sense code bytes 3 and 4 include the subvector key X'81' (LPDA2 Test Modem LCS) and the subfield key (sf) of the missing subfield.

086F XXXX   (Label: SNSEF)

Request reject: A length field within a structure is not valid.

086F 0002

Command:

NMVT
Issued by: CXDTMVR

Explanation: The sum of the SV lengths is not equal to the length in the major vector.

086F 000A

Command:

SETUP
  Issued by: CXDOSVAL

  Explanation: A control vector length error was found in the SETUP GDS variable.

BFCINIT
  Issued by: CXDOBFS

  Explanation: A control vector length error was found in the SETUP GDS variable.

SETUP(REPLY)
  Issued by: CXDOSRUP

  Explanation: A control vector length error was found in the SETUP GDS variable.

086F 0405

Command:

NMVT
  Issued by: CXDTALP

  Explanation: The subvector length is not valid for the SNA address list subvector.

086F 6109

Command:

XID
  Issued by: CXDXIDV

  Explanation: The sum of the subfield lengths in CV61 is incompatible with the total CV61 length.

086F 8105

Command:

NMVT (LCSDIAG Modem Request) (LCSOPCTL Modem Request)
  Issued by: CXDTSYV

  Explanation: The length of the X'81' (LPDA2 Test Modem LCS) subvector is not valid.

SIR NMVT
  Issued by: CXDTGTM

  Explanation: An incorrect subvector length was found in the command subvector. The sub-
  vector length is not 5.

086F 8106

Command:

NMVT (LCSDIAG Modem Request) (LCSOPCTL Modem Request)
  Issued by: CXDTSYV, CXDTGTM

  Explanation: The length of a subfield for the X'81' (LPDA2 Test Modem LCS) subvector is
  invalid.

086F 8305

Command:

NMVT
  Issued by: CXDTGTQ

  Explanation: An invalid subvector length is found in the X'83' command subvector.

086F 8306

Command:

NMVT
  Issued by: CXDTGTQ

  Explanation: An invalid subvector length was found in the X'83' command subvector.

0872 XXXX (Label: SNSF2)

Request reject: DACTVR refused because sessions are still active on virtual route.

0872 0000

Command:

DACTVR
Issued by: CXDBDACT, CXDVDVR

Explanation: Sessions are already assigned.

0874 XXXX (Label: SNSF4)

Request reject: ER not in a valid state.

0874 0001

Command:

RNAA
Issued by: CXDGRNA

Explanation: A gateway node (GWN) received an RNAA from a gateway SSCP but either (1) no operative ER exists in the network adjacent to the GWN on the origin NAU side to the subarea containing the origin NAU's address, or (2) no operative ERs exist at all in the network adjacent to the GWN on the destination NAU's side.

0875 XXXX (Label: SNSF5)

Request reject: No explicit route to virtual route mapping.

0875 0000

Command:

ACTVR
Issued by: CXDVRAV

Explanation: Deactivation responsibility for this active migration virtual route does not exist.

0877 XXXX (Label: SNSF7)

Request reject: Resource mismatch.

0877 0005

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: The resource specified in the direct call is a switched subarea resource.

0877 0007

Command:

NMVT
Issued by: CXDTSLA

Explanation: An LPDA1 test cannot be run on a secondary SDLC link.

0877 0008

Command:

NMVT
Issued by: CXDTSLA

Explanation: An LPDA test cannot be requested on an HPTSS line.

0877 0009

Command:

NMVT
Issued by: CXDTLER

Explanation: No active station supporting LPDA2 is found on the SDLC line.

LPDA2 Test
Issued by: CXDKSVLK CXELRDIC

Explanation: An entry in use was not found. There is a resource mismatch.

0877 000A

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: The specified resource is not an SNA leased resource.

FNA
Issued by: CXDDFNP

Explanation: The specified resource is not an SNA leased resource.

0877 000B

Command:

NMVT
Issued by: CXDTSLA

Explanation: A line is attached to a channelized modem.

0877 000C

Command:

NMVT
Issued by: CXDTSLA

Explanation: A line is attached to a tailed modem.

0877 000D

Command:

BIND
Issued by: CXDCBND

Explanation: A BIND command was received for an address that is a primary logical unit.

BFCINIT
Issued by: CXDCHBFC

Explanation: The logical unit is not secondary.

0877 000E

Command:

BIND
Issued by: CXDCBBP, CXDCBND

Explanation: A BIND command was received for an independent logical unit that is not attached to a type 2.1 physical unit.

0877 000F

Command:

Contact
Issued by: CXDKBNT

Explanation: The station has an owning SSCP, and the SSCP is not a LEN level, or the station is not a type 2.1 physical unit.

0877 0010

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation: The subject logical unit should be an independent logical unit but is not.

0877 0012

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation: Neither address in CV15 is known to this NCP.

0877 0013

Command:

BIND
Issued by: CXDBSIA

Explanation: One of the following has occurred:

*   The specified SLU name is invalid.
*   The specified SLU name has an invalid length.

Issued by: CXDTBBP

Explanation: One of the following has occurred:

*   The specified SLU name is invalid.
*   The specified SLU name is an invalid logical unit.

Issued by: CXDCHBFC, CXDBSIA

Explanation: The NETID in the BIND is not the same as the NETID of the boundary function.

0877 0014

Command:

FNA
Issued by: CXDDFN2

Explanation: The logical unit in the FNA is not associated with the physical unit specified in the FNA.

0877 0015

Command:

BFCINIT
Issued by: CXDCBFN

Explanation: BFCINIT names are not matched. The network name portion of the network quali-fied primary logical unit name in the CV0E does not match the NETID of the logical unit.

0877 0016

Command:

RNAA
Issued by: CXDDRNL

Explanation:

*   The physical unit is not type 1 or type 2.
*   The RNAA is not type 1 or type 4.

0877 0017

Command:

RNAA
Issued by: CXDDRNL, CXDDRNP, CXDRNL4

Explanation: MAXSUBA must be defined on the BUILD definition statement in order to request a pre-ENA address.

0877 0018

Command:

RNAA
Issued by: CXDRNL4

Explanation: An RNAA type 4 requested an auxiliary address for a dependent logical unit.

0877 0019

Command:

RNAA
Issued by: CXDDRNL, CXDRNL4

Explanation: SSCP requested an address that is pre-extended network addressing compatible when an extended network addressing address already exists.

0877 001A

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation: The target logical unit is not associated with the same ALS that is indicated in the CV0A.

0877 001B

Command:

BFCLEANUP
Issued by: CXDCBFC

Explanation: The target ALS is not associated with the same ALS that is indicated in the CV0A.

0877 001D

Command:

BFCINIT
Issued by: CXDCBFN

Explanation: The logical unit address in the BFCINIT is a secondary logical unit.

0877 0021

Command:

RNAA
Issued by: CXDDRNL, CXDDRNP, CXDRNL4, CXDRNP5

Explanation: An RNAA was received for a generated resource instead of a dynamically added resource.

0877 0022

Command:

ACTLINK
Issued by: CXDKALP

Explanation: An ACTLINK was received from a pre-LEN SSCP by a secondary BNN station.

0877 0023

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: LPDA support cannot be changed with SETCV if the physical unit is active.

0877 0024

Command:

RNAA, SETCV (Physical Unit)
Issued by: CXDKSSP

Explanation: The Data mode cannot be changed with SETCV if the physical unit is active.

0877 0028

Command:

RNAA (MOVE)
Issued by: CXDRNP5

Explanation: The link types do not match; both must be primary, or both must be secondary.

0877 0029

Command:

ACTLU
Issued by: CXDBSIL, CXDCATL

Explanation: The SSCP and the NCP disagree concerning the dynamic reconfiguration status of the resource.

FNA
Issued by: CXDDFNP, CXDDFN2

Explanation: The SSCP and the NCP disagree concerning the dynamic reconfiguration status of the resource.

CONNOUT
Issued by: CXDDIAL, CXDKCON

Explanation: The SSCP and the NCP disagree concerning the dynamic reconfiguration status of the resource.

Contact
Issued by: CXDKCNT

Explanation: The SSCP and the NCP disagree concerning the dynamic reconfiguration status of the resource. VTAM considers the physical unit static.

TESTMODE
Issued by: CXDLTI

Explanation: The SSCP and the NCP disagree concerning the dynamic reconfiguration status of the resource.

0877 0039

Command:

ACTLINK
Issued by: CXDKALP

Explanation: A request that is valid only for a switched subarea link was received for a link that is not a subarea link.

0877 003A

Command:

ACTLINK
Issued by: CXDKALP

Explanation: A request that is valid only for a nonswitched subarea link was received for a switched subarea link.

0877 003B

Command:

RNAA
Issued by: CXDRNL4

Explanation:

- This logical unit name already exists with a different local address.

- The logical unit name in the LUB is not the same as the logical unit name in the RNAA.

- The logical unit name in the LUB is the same as the logical unit name sent in the RNAA but the logical unit in the RNAA is dependent.

- The logical unit network name portion in the RNAA does not match the logical unit network name (NETID).

0877 0043

Command:

CONNOUT
Issued by: CXDDIAL, CXDKCON

Explanation: Not an SNA switched link. There is a resource mismatch.

0877 0044

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: X.21 dial and auto-call capability not present. There is a resource mismatch.

0877 0046

Command:

CONNOUT
Issued by: CXDKCON

Explanation: The target address is not a leased type 2.1 physical unit, or does not support XID3 exchanges.

0877 0050

Command:

SETCV
Issued by: CXDFCV80

Explanation: The physical unit element addresses for a primary and a substitute partner in a frame-relay subport set are defined on the same physical line.

0877 0051

Command:

SETCV
Issued by: CXDFCV80

Explanation: One or more of the physical lines in a frame-relay subport set have a maximum frame size that is different.

0877 0052

Command:

SETCV
Issued by: CXDFCV80, CXDFRSSV

Explanation:

- LMI PU is active, but its user and network support bits are off.
- LMI PU is active, but the LMI support has not been defined (LMI=NO has been specified).

0877 0055

Command:

SETCV
Issued by: CXDFCV80

Explanation: A SETCV was received to define an internal FHSP PVC segment subport set between subports that are incompatible: one of the subports is on a 3746 Model 900 and the other is not.

0877 0057

Command:

RNAA5
Issued by: CXHPALCB

Explanation: The request to add an IP physical unit is for a frame relay-line that does not support IP traffic.

0877 0058

Command:

CONTACT
Issued by: CXDKBNT

Explanation: A CONTACT was received for a frame handler subport that is part of a subport set with incompatible subports. One subport is on a 3746 Model 900 that does not support mixed frame handler switching, and another one is not on a 3746 Model 900. A 3746 Model 900 microcode level upgrade is necessary to support this configuration.

0877 005D

Command:

CONTACT
Issued by: CXDKBNT

Explanation: There is a resource mismatch.

Explanation: The CONTACT request cannot be accepted. The underlying 3746 Model 900 microcode must be upgraded to the functional level of the using control program (NCP) in order to support the requested function.

0878 XXXX   (Label: SNSF8)

0878 0001

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: The number of dial digits is 0 or greater than X'20'.

0879 XXXX   (Label: SNSF9)

0879 0001

Command:

DISPSTOR
Issued by: MOSS microprogram

Explanation: An error has occurred on the dump transfer from the disk.

IPLINIT
Issued by: CLDP

Explanation: An error has occurred reading the load module from the disk.

0879 0002

Command:

IPLFINAL
Issued by: CLDP

Explanation: The load module and the auto dump/IPL switches are not saved on the disk.

IPLTEXT

Issued by: MOSS microprogram

Explanation: An error occurred while saving the load module on the disk.

0879 0003

Command:

IPLFINAL

Issued by: CLDP

Explanation: The auto dump/IPL switches were not saved.

IPLINIT

Issued by: CLDP

Explanation: An error occurred while saving the load module time and date.

087B XXXX   (Label: SNSFB)

Request reject: Resource unknown.

087B 0000

Command:

ACTCDRM

Issued by: CXDGSNL

Explanation: The origin address field (OAF) is not equal to the session partner.

BIND

Issued by: CXDGLNL

Explanation: The address transform is not established.

0881 XXXX   (Label: SNSG1)

Request reject: ACTCDRM failure.

0881 0000

Command:

ACTCDRM

Issued by: CXDGCSR, CXDGSAP

Explanation:

- A REQACTCDRM command is sent.
- The virtual route could not be activated.

0882 ciii   (Label: SNSG2)

Request reject: Insufficient resources

0882 1iii

Command:

BIND
Issued by: CXDCBBP, CXDCBND, CXDTBAP
RNAA
Issued by: CXDDRNL, CXDDRNP, CXDGRHSB, CXDGRNF, CXDRMPU, CXDRNL4,
CXDRNP5, CXHPALCB
UNBIND
Issued by: CXDCBBP, CXDCBND, CXDTBAP

Explanation: NCP DYNPOOL threshold for dynamically allocated resource control blocks has been
reached.

iii   Control block identifier (CBID). See the lower 3 halfbytes of GPACBID in the *NCP and EP
Reference Summary and Data Areas*.

0882 2iii

Command:

BIND
Issued by: CXDCBBP, CXDCBND, CXDTBAP
RNAA
Issued by: CXDDRNL, CXDDRNP, CXDGRHSB, CXDGRNF, CXDRMPU, CXDRNL4,
CXDRNP5, CXHPALCB
UNBIND
Issued by: CXDCBBP, CXDCBND, CXDTBAP

Explanation: NCP buffer utilization is near the slowdown threshold.

iii   Control block identifier (CBID). See the lower 3 halfbytes of GPACBID in the *NCP and EP
Reference Summary and Data Areas*.

0882 3iii

Command:

RNAA
Issued by: CXDDRNL, CXDDRNP, CXDGRNF, CXDRNL4, CXDRNP5

Explanation: There are no network element addresses available.

iii   Control block identifier (CBID). See the lower 3 halfbytes of GPACBID in the *NCP and EP
Reference Summary and Data Areas*.

0884 XXXX   (Label: SNSG4)

Request reject: ACTCDRM failure.

0884 0000

Command:

ACTCDRM
Issued by: CXDGCSR

Explanation: A REQACTCDRM command is not sent because the SSCP is not a gateway host.

088C XXXX   (Label: SNSGC)

088C 0300

Command:

RNAA
Issued by: CXDRNP5

Explanation: A type 5 RNAA must include a CV03 or a CV43.

088C 0A00

Command:

BFCINIT
Issued by: CXDOBFS

Explanation: BFCINIT does not contain a CV0A.

BFCLEANUP
Issued by: CXDCBFC

Explanation: BFCLEANUP does not contain a CV0A.

088C 0D00

Command:

BFCINIT
Issued by: CXDOBFS

Explanation: BFCINIT does not contain a CV0D.

088C 0EF4

Command:

CV0E(F4)
Issued by: CXDXIDV, CXDXIDVA

Explanation: Network name control vector (CV0E) is missing.

088C 1500

Command:

BFCINIT
Issued by: CXDCHBFC, CXDOBFS, CXDCBFN

Explanation: BFCINIT does not contain a CV15.

088C 2B00

Command:

BFCINIT
Issued by: CXDCBFN, CXDCHBFC

Explanation: BFCINIT does not contain a CV2B.

SETUP
Issued by: CXDOSVAL, CXDOBFS

Explanation: SETUP PIU does not contain a CV2B with reverse routing information.

SETUP(REPLY)
Issued by: CXDOSRUP

Explanation: SETUP(REPLY) PIU does not contain a CV2B with reverse routing information.

088C 2C00

Command:

SETUP
Issued by: CXDOSVAL, CXDOBFS

Explanation: SETUP does not contain a CV2C.

BFCINIT
> Issued by: CXDOBFS

> Explanation: BFCINIT does not contain a CV2C.

088C 3500

Command:

BFCLEANUP
> Issued by: CXDCBFC

> Explanation: BFCLEANUP does not contain a CV35.

088C 6000

Command:

BFCINIT
> Issued by: CXDCBFN, CXDCHBFC

> Explanation: BFCINIT does not contain a CV60.

088C 8000

Command:

BFCINIT
> Issued by: CXDOBFS

> Explanation: SETUP GDS variable does not contain a CV80 with forward routing information.

SETUP
> Issued by: CXDOSVAL

> Explanation: SETUP GDS variable does not contain a CV80 with forward routing information.

SETUP(REPLY)
> Issued by: CXDOSRUP

> Explanation: SETUP(REPLY) does not contain a CV80 with reverse routing information.

088C 8067

Command:

BFCINIT
> Issued by: CXDOBFS

> Explanation: No CV67 appended to the CV80.

SETUP
> Issued by: CXDOSVAL

> Explanation: No CV67 appended to the CV80.

SETUP(REPLY)
> Issued by: CXDOSRUP

> Explanation: No CV67 appended to the CV80.

088F XXXX   (Label: SNSGF)

Request reject: XRF procedure error.

088F 0003

Command:

SWITCH
> Issued by: CXDTSWV

> Explanation: An invalid attempt was made to switch to the existing state.

088F 0004

Command:

> **SWITCH**
>> Issued by: CXDTSWV
>>
>> Explanation: A SWITCH (Forced) request was received from active.

088F 0005

Command:

> **SWITCH**
>> Issued by: CXDTSRG
>>
>> Explanation: Convert the SWITCH request to a negative SWITCH response.
>>
>> Issued by: CXDTSWV
>>
>> Explanation: No backup session exists to switch to.

088F 0009

Command:

> **BIND**
>> Issued by: CXDTBBP
>>
>> Explanation: An extended recovery facility (XRF) backup BIND was received before an XRF active BIND.

088F 000F

Command:

> **BIND**
>> Issued by: CXDTBRI
>>
>> Explanation: An invalid backup command was sent. Only BIND, UNBIND, SWITCH, and SDT are allowed.

088F 0010

Command:

> **BIND**
>> Issued by: CXDTBBP
>>
>> Explanation: A correlation identification mismatch has occurred in CV27.

088F 0012

Command:

> **BIND**
>> Issued by: CXDTBBP
>>
>> Explanation: NCP received a backup BIND without data compression support following an active BIND with data compression support.

088F 0013

Command:

> **BIND**
>> Issued by: CXDTBBP
>>
>> Explanation: NCP saved data compression information from an active BIND, but it cannot append the CV66 with this information to a non-extended BIND response.

0891 XXXX   (Label: SNSH1)

0891 0002

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: The NETID is not valid. The NETID field in CONNOUT does not match the NETID defined in the link station receiving the CONNOUT.

0891 0004

Command:

XID3
Issued by: CXDXIDV, CXDXIDVA

Explanation: An invalid NETID was found in the network name (X'0E', CPNAME) control vector in the XID3.

0891 0005

Command:

XID3
Issued by: CXDXIDVA

Explanation: A new CPNAME was received when the ALS did not support CPNAME change XID3.

0891 0008

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: All resources in the NVT are in use and a NETID entry overflow exists for a network.

0891 0009

Command:

SETCV
Issued by: CXDGSCV

Explanation: NETID in CV is not valid.

0892 XXXX   (Label: SNSH2)

0892 0001

Command:

UNBIND
Issued by: CXDCV35

Explanation: The session is reset due to ANS=STOP.

0892 0002

Command:

UNBIND
Issued by: CXDCV35

Explanation: The session is reset due to ANS=CONT.

NOTIFY
Issued by: CXDGSNO

Explanation: The session is reset due to ANS=CONT.

0892 0003

Command:

(SESSEND) UNBIND
Issued by: CXDTUAP

Explanation: The session is reset due to ANS=STOP.

0893 XXXX   (Label: SNSH3)

0893 0001

Command:

BIND
Issued by: CXDCBBP, CXDANSS

Explanation: The PLU is not owned. A takeover-required bit is set in the CUB.

BFCINIT
Issued by: CXDOBFS

Explanation: The PU is not owned by an SSCP.

SETUP
Issued by: CXDOSETO

Explanation: The PU is not owned by an SSCP.

0893 0002

Command:

BFCINIT
Issued by: CXDCHBFC

Explanation: Takeover required bit is set in LUB.

BIND
Issued by: CXDCBND

Explanation: The logical unit is not owned. A takeover-required bit is set in LUB. The host lost contact with this logical unit.

0893 0003

Command:

RNAA
Issued by: CXDRNL4

Explanation: An RNAA request was sent to an independent logical unit while SSCP takeover was in progress.

0895 XXXX   (Label: SNSH5)

0895 0E03

Command:

BIND, BFCINIT
Issued by: CXDBNIN

Explanation: The logical unit name could not be found in the CV0E.

0895 2B00

Command:

BFCINIT
Issued by: CXDCBFN

Explanation: An error occurred for the CV2B.

0895 4600

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 0 of the CV46 is wrong.

0895 4601

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 1 of the CV46 is wrong.

XID
Issued by: CXDXIDV

Explanation: Byte 1 of the CV46 is wrong.

0895 4602

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 2 of the CV46 is wrong.

0895 4603

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 3 of the CV46 (in the subfield X'80') is wrong.

0895 4605

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 5 of the CV46 (in the subfield X'80') is wrong.

0895 4606

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 6 of the CV46 (in the subfield X'80') is wrong.

XID
Issued by: CXDXIDV

Explanation: Byte 6 of the CV46 (in the subfield X'80') is wrong.

0895 4607

Command:

CONNOUT, CONTACT, ACTCONNIN
Issued by: CXDKC46

Explanation: Byte 7 of the CV46 (in the subfield X'80') is wrong.

0895 600B

Command:

BIND, BFCINIT
Issued by: CXDBNIN

Explanation: The logical unit name could not be found in the CV60.

0896 XXXX   (Label: SNSH6)

0896 0001

Command:

ACTPU
Issued by: CXDBAPM

Explanation: The length of NETID.CPNAME is greater than 17.

0898 XXXX   (Label: SNSH8)

0898 0001

Command:

UNBIND
Issued by: CXDTSFP

Explanation: The session is reset due to XRF forced takeover.

0898 0002

Command:

UNBIND
Issued by: CXDTUAP

Explanation: Normal active termination resets the backup session.

0898 0003

Command:

UNBIND
Issued by: CXDTUAP

Explanation: The backup session is reset due to an UNBIND from the logical unit.

089A XXXX   (Label: SNSHA)

089A 0001

Command:

IPLINIT

Issued by: MOSS microprogram or CLDP

Explanation: The load module is not on the disk.

DISPSTOR

Issued by: MOSS microprogram

Explanation: No NCP dump or dump header is on the disk.

089A 0002

Command:

IPLINIT

Issued by: MOSS microprogram

Explanation: A duplicate load module is on the disk.

08A0 XXXX   (Label: SNSI0)

08A0 0003

Command:

UNBIND

Issued by: CXDGSNO

Explanation: Session Outage Notification (SON) because of the NOTIFY received.

08A2 XXXX   (Label: SNSI2)

08A2 0001

Command:

RNAA

Issued by: CXDRMPU,

Explanation: An RNAA (Type=MOVEPU) was received for an active physical unit.

Issued by: CXDRNP5

Explanation: The source link is an active secondary link.

FNA

Issued by: CXDDFNP

Explanation: The station is secondary and the link is active.

08A3 XXXX   (Label: SNSI3)

08A3 0001

Command:

SETCV

Issued by: CXDKSSP

Explanation: The callee has detected a password mismatch during call security verification.

1001 XXXX   (Label: SNS61)

Request error: RU data error

1001 0000

Command:

Activate GPT
Issued by: CXDGPAT

Explanation: An RU data error has occurred.

Deactivate GPT
Issued by: CXDGPDT

Explanation: An RU data error has occurred.

EXECTEST
Issued by: CXDKETP

Explanation: The access method issued an EXECTEST command with an invalid command or modifier in the RU.

NOTIFY
Issued by: CXDGNOR

Explanation:

- The Notify PIU was received without vector X'15'.
- The sender of Notify is not the gateway.

RNAA
Issued by: CXDDRNP

Explanation: The request was for zero units.

SETCV
Issued by: CXDGSCV

Explanation: The SETCV command was received with an unknown vector.

1001 0001

Command:

ROUTE TEST
Issued by: CXDGRTM

Explanation: The subarea value identified in the ACTVR is greater than the maximum subarea value for the network.

SETCV
Issued by: CXDGSCV

Explanation: One of the following was detected in the destination NAU:

- SA=0.
- SA exceeded the maximum allowed.
- EA exceeded the maximum allowed.

1001 0002

Command:

ACTPU (ACTPU)
Issued by: CXDBAPM

Explanation:

- The network identifier in SSCP name control vector in ACTPU does not match the network identifier of the channel over which ACTPU was received.
- LNID mismatch; LNID in TGB and LNID associated with NETID in the state vector do not match.

1001 0003

Command:

IPM

Issued by: CXDCBIA, CXDCSRP

Explanation: A format error has occurred.

1001 0005

Command:

RNAA

Issued by: CXDRNL4

Explanation: The length of the local address field in the RNAA is greater than 1 byte.

1001 0006

Command:

RNAA

Issued by: CXDRNP5

Explanation: The length of the link station address field is not equal to 1.

1001 0007

Command:

BFCINIT

Issued by: CXDCBFN

Explanation: The network qualified PLU name does not pass validation.

1001 000E

Command:

BIND, BFCINIT, RSP(BIND), UNBIND

Issued by: CXDBSTA, CXDCBBP, CXDCBFN, CXDCBIO, CXDCBND, CXDCBOO, CXDCBOR, CXDCBRP, CXDCBUP, CXDTBAP, CXDTUBP, CXDTBPP, CXDCHBFC

Explanation: The control vector length data is inconsistent with the control vector data.

1001 0029

Command:

RNAA5

Issued by: CXHPALCB

Explanation: The specified IP address is not a valid internet host address.

1001 0032

Command:

RNAA5

Issued by: CXHPALCB

Explanation: The specified MTU address is not within the 283-MAXFRAME range.

1001 0037

Command:

RNAA5

Issued by: CXHPALCB

Explanation: Subnetwork mask value is invalid.

1002 XXXX   (Label: SNS62)

Request error: RU length error.

1002 0000

Command:

Any command routed to function manager router
Issued by: CXDKFMR

Explanation: The access method issued a command with a data count field less than 8.

Activate GPT
Issued by: CXDGPAT

Explanation: A PIU length error exists.

ACTTRACE
Issued by: CXDKLT5

Explanation: The access method issued an ACTTRACE command with a data count greater than X'0B'.

BFCINIT
Issued by: CXDCBFN, CXDCHBFC

Explanation: The maximum length limit for this RU has been exceeded.

BIND
Issued by: CXDCBND, CXDCBBP

Explanation: The maximum length limit for this RU has been exceeded.

BIND Response
Issued by: CXDCBRP, CXDCBOR

Explanation: The maximum length limit for this RU has been exceeded.

Change Device Transmission Limit
Issued by: CXDKDTL

Explanation: The access method issued a Change Device Transmission Limit command with an RU length not equal to 6 bytes.

Deactivate GPT
Issued by: CXDGPDT

Explanation: A PIU length error exists.

Deactivate Trace
Issued by: CXDKLT5

Explanation: The access method issued a Deactivate Trace command with a data count greater than X'0B'.

FNA
Issued by: CXDDFN2

Explanation: The length of data is too short.

IPLFINAL, IPLINIT, IPLTEXT
Issued by: Remote load and dump program

Explanation: The access method sent an invalid-length load PIU to the link-attached controller.

IPM
Issued by: CXDCBIA, CXDCSRP

Explanation: A request/response unit (RU) length error has occurred.

RNAA
Issued by: CXDRNLB

Explanation: The data is too short.

SETCV(Time and Date)
Issued by: CXDKSTD

Explanation: The access method issued a SETCV (Time and Date) command with an RU length greater than 26 bytes.

1003 XXXX   (Label: SNS63)

Request error: Function unknown.

1003 0000

Command:

Any Command
Issued by: CXDKFMR, CXSSTAT

Explanation: The access method issued a command with an invalid request code to the NCP.

Note: After dynamic reconfiguration has been performed, restarting an access method may fail on the Contact command if the host configuration does not match the NCP dynamic reconfiguration.

Issued by: CXDCBOP

Explanation: The access method issued the command for a type 1 physical unit when the command was not an Activate or Deactivate Physical.

DUMPFINAL, DUMPINIT, DUMPTEXT, IPLFINAL, IPLINIT, IPLTEXT, Remote Power-Off
Issued by: CXDCIDF

Explanation:

- The access method issued an invalid command to the link-attached controller's load and dump program.
- The access method issued a Remote Power-Off command to a link-attached controller that does not have the power-off option.

Issued by: CXDKRPD

Explanation: The access method issued the command for a station that is not a controller.

REQMS
Issued by: CXDKCEN

Explanation: The LPDA1 test requested a status other than one of the following statuses:

- A link subsystem status (X'01')
- A long-link status (X'02')
- A remote DTE status (X'03')
- A remote self status (X'04').

RNAA
Issued by: CXDGRNV

Explanation: The assignment type byte in the RNAA RU is not X'03' (gateway).

1003 0001

Command:

RNAA
Issued by: CXDRNL4

Explanation: RNAA is requesting a logical unit and the request is for a dependent PLU.

1003 0002

Command:

Notify
Issued by: CXDGNOR

Explanation: The sender of the Notify command is not a gateway SSCP. CV X'15' is not found in the RU.

RNAA
Issued by: CXDGRNV

Explanation:

- The sender of the RNAA command is not a gateway SSCP.
- The type of the RU (byte 5) is not X'03'.

SETCV
Issued by: CXDGSCV

Explanation: The sender of the SETCV command is not a gateway SSCP.

1003 000C

Command:

BIND
Issued by: CXDCBBP

Explanation: The BIND is from a physical unit owned by an SSCP that does not accept stand-alone binds.

1003 0028

Command:

BIND
Issued by: CXS2BVD

Explanation: Only nonnegotiable BINDs are supported by this logical unit.

1003 0029

Command:

BIND
Issued by: CXS2BVD

Explanation: The TS or FM profile in the BIND is incorrect.

1003 0032

Command:

BIND
Issued by: CXS2BVD

Explanation: Bracketing is not supported by this logical unit.

1004 XXXX   (Label: SNS64)

Request error: Function not supported.

1004 0000

Command:

Any Command (FM Physical Services)
Issued by: CXDKFMR

Explanation: The programmed resource is a gateway resource.

1005 XXXX   (Label: SNS65)

Request error: Parameter error.

1005 0000

Command:

DISPSTOR
Issued by: CXDKDSP

Explanation:

- The display type is not NCP, MOSS, or CSP.
- The requested storage length exceeds 256 bytes.
- The start address is beyond the installed storage address.
- The end address is beyond the installed storage address.

Issued by: MOSS microprogram

Explanation: End of dump.

1005 0001

Command:

NMVT
Issued by: CXDTALP, CXDTGTM, CXDTGTQ, CXDTRFCP

Explanation: A mismatch exists between the command and the SNA address-list subvector type field.

1005 0002

Command:

Network Performance Analyzer Start and Stop
Issued by: CXJQSSVA

Explanation: A zero resource count is specified, or a specified resource count is inconsistent with the data count in the transmission header.

1005 0003

Command:

RNAA
Issued by: CXDDRNL

Explanation: The number of logical units requested in the RNAA is 0.

1005 0006

Command:

DISPSTOR
Issued by: MOSS microprogram

Explanation: The start or the end address is greater than the dump on the disk.

1005 0008

Command:

Forward PIU
Issued by: CXJQNLFW

Explanation: The input queue identifier is 0 or greater than the maximum.

NPA Start or STOP
Issued by: CXJQSSVA, CXJQNLFW

Explanation: An invalid interval number is specified.

1006 XXXX   (Label: SNS66)

1006 0006

Command:

SETCV
Issued by: CXDBDPU

Explanation: A required subfield of a control vector was omitted.

1006 0007

Command:

Contact
Issued by: CXDKCNT

Explanation: The transmission group number field was omitted.

1006 0008

Command:

CONNOUT
Issued by: CXDDIAL

Explanation: The specific identifier (IDNUM) was omitted.

1007 XXXX (Label: SNS67)

Request error: Category not supported.

1007 0000

Command:

Any Command
Issued by: CXDCPSO

Explanation: The access method issued a command to NCP physical services that was not FM data or system control.

Issued by: Remote load and dump program

Explanation: The access method issued a command to a link- attached controller that was not FM data, network services, or physical configuration services.

Data Flow Control Commands
Issued by: CXSSTAT

Explanation: Data flow control commands are not supported by NCST logical units.

FM Physical Services Commands
Issued by: CXDKFMR

Explanation: The command issued was not a configuration or a maintenance services command for a BSC or start-stop resource.

1016 XXXX (Label: SNS76)

1016 000A

Command:

XID3
Issued by: CXDXIDVA

Explanation: The adjacent node changed the transmission group number (TGN) negotiated during the link activation with a nonactivation exchange.

1016 000D

Command:

XID3/CV22
Issued by: CXDXIDVA

Explanation: This node received a nonactivation XID3 from the adjacent node, which contained a new CPNAME or TGN, and this node does not currently support CPNAME change.

2001 XXXX (Label: SNS41)

State error: Sequence number.

2001 0000

Command:

Any Command
Issued by: CXDCPSO, CXDPQOA, CXDCBIA

Explanation: The NCP received a PIU destined for a terminal node (type 1 physical unit), and a sequence number error was detected.

2002 XXXX   (Label: SNS42)

State error: Chain.

2002 0000

Command:

Any FM data
Issued by: CXSSTAT

Explanation: NCP detected a chain-state error.

2003 XXXX   (Label: SNS43)

State error: Bracket.

2003 0000

Command:

FM Data
Issued by: CXDPBMI, CXDPBMO

Explanation: The NCP detected a bracket-state error.

2005 XXXX   (Label: SNS45)

State error: Data traffic not started

2005 0000

Command:

FM Data
Issued by: CXDCPSO

Explanation: The NCP received this command before receiving a valid Start Data Traffic request.

2009 XXXX   (Label: SNS49)

2009 0001

Command:

Any command
Issued by: CXDCBIO

Explanation: The PIU is not BIND or UNBIND.

2011 XXXX   (Label: SNS51)

2011 0000

Command:

Any pacing request
Issued by: CXDCBIA, CXDCSRP

Explanation: The window is overrun.

2011 0001

Command:

IPM
Issued by: CXDCBIA, CXDCSRP

Explanation: An unexpected Isolated Pacing Message (IPM) caused a pacing error.

2011 0002

Command:

Any pacing request
Issued by: CXDCBIA, CXDCSRP

Explanation: An unexpected pace request was received.

4008 XXXX   (Label: SNS28)

RH error: Pacing not supported.

4008 0000

Command:

Any Command
Issued by: CXDCBOL, CXSSTAT

Explanation: The NCP received a request with pacing indicated, and pacing is not supported.

8002 XXXX   (Label: SNS02)

Path error: Link failure.

8002 0000

Command:

Any Command
Issued by: CXDCBIA, CXDCBID, CXDCBIL, CXDCBIP,

Explanation: A command is directed to a link that is inoperative.

ACTLINK (BSC/Start-Stop)
Issued by: CXDEET

Explanation: An enable failure has occurred.

BIND
Issued by: CXDCBUP, CXDCITP, CXDCBIR

Explanation: The PIU transmission (XPORTVR) failed.

DUMPFINAL, DUMPINIT, DUMPTEXT, IPLFINAL, IPLINIT, IPLTEXT
Issued by: CXDKRPD

Explanation: A command is directed to a link that is inoperative.

Switched line mode
Issued by: CXDKPEPT

Explanation: A link failure was detected.

SETUP
Issued by: CXDOSVAL, CXDCBPD

Explanation: Setup is unsuccessful because the PU (the TG specified in the RSCV) is not active.

8003 XXXX   (Label: SNS03)

Path error: NAU inoperative

8003 0001

Command:

UNBIND
Issued by: CXDCV35

Explanation: The session is reset due to hierarchical reset.

8003 0004

Command:

UNBIND
    Issued by: CXDCV35

    Explanation: The session is reset due to REX failure.

8003 0005

Command:

UNBIND
    Issued by: CXDTUAP

    Explanation: The backup session is hierarchically reset.

8004 XXXX   (Label: SNS04)

Path error: Unrecognized DAF.

8004 0000

Command:

Any Command
    Issued by: CXDCELRT, CXDOHSOQ

    Explanation: The PIU is an FID1 and the resource is not a CUB, LUB, PSB, or NLB.

SETUP, SETUP(REPLY)
    Issued by: CXDOBSET

    Explanation: The resource is not a CUB.

8004 0001

Command:

BIND
    Issued by: CXDGLNL

    Explanation: The destination NAU address list was not received.

8005 XXXX   (Label: SNS05)

Path error: No session.

8005 0000

Command:

Any Command
    Issued by: CXDCBIA

    Explanation: A session does not exist.

    Issued by: CXDCBIP

    Explanation: A request on SSCP-PU session was received by the NCP when the secondary
    half-session was not established.

    Issued by: CXDCBOL, CXDCBSO

    Explanation: A command other than ACTLU was issued when no SSCP-LU session was active.

    Issued by: CXDCBIL

    Explanation: A request on SSCP-LU session was received by the NCP when the secondary
    half-session was not established.

    Issued by: CXDGSNL

    Explanation: A non-ACTCDRM PIU or a non-DACTCDRM PIU was sent to a network address-
    able unit that does not have a session corresponding to the origin/destination address fields
    (OAF/DAF).

Issued by: CXDGSAP

Explanation: A non-ACTCDRM PIU or a non-DACTCDRM PIU was received for a half-session control block (HSCB) that is already in the activation pending state.

Any Command other than BIND or UNBIND
Issued by: CXDGLAP

Explanation: A request other than a Bind or Unbind request is received before session activation is complete.

Issued by: CXDGLNL

Explanation: A request other than a Bind or an Unbind request is received, and no session exists.

BIND
Issued by: CXDCSIC

Explanation: No session; CUB is not associated with LUB.

Issued by: CXDCBSI, CXDCBUP

Explanation: There is no session.

Issued by: CXDCBOO

Explanation: An unrecognized PIU has been removed from the queue.

Note: If the PIU is found to be not the first-only segment and not a BFCINIT, or if the PIU's data count is invalid, it is considered an invalid PIU and will be rejected and removed from the queue.

Clear
Issued by: CXDBLCP

Explanation: The access method issued a Clear command for an LU-LU session, but the session does not exist.

RSP (BIND)
Issued by: CXDCBRP, CXDCBOR

Explanation: There is no session.

UNBIND
Issued by: CXDBSTA

Explanation: Session is in reset or reset pending state.

Issued by: CXDTUBP, CXSSTAT

Explanation: There is no session.

Other Commands
Issued by: CXDCBOP

Explanation: The NCP received a PIU with an incorrect OAF.

8005 0007

Command:

BIND
Issued by: CXDCBND

Explanation: An ACTLU request was not received by a dependent logical unit to establish an SSCP-LU session.

8006 XXXX   (Label: SNS06)

Path error: Invalid FID.

8006 0000

Command:

Any Command
Issued by: CXDCBOL, CXDCBOP, CXDKCMP, Remote load and dump program
Explanation: The NCP received a PIU with an invalid FID.

Issued by: CXDCELRT

Explanation:

- A FID1 PIU was received for either a BSC or a start-stop device.
- A FID0 PIU was received for either an SNA or a nonprogrammed resource device.

8007 XXXX   (Label: SNS07)

Path error: Segmenting error.

8007 0000

Command:

Any Command
Issued by: CXDCBOL, CXDCBOP, Remote load and dump program

Explanation: The NCP received a PIU that is not the only segment, and segmentation is not supported.

Issued by: CXDCBIA

Explanation: An unexpected segment was received.

Control Multipoint Line
Issued by: CXDKCMP

Explanation: Segmentation is not supported.

8007 0001

Command:

BIND
Issued by: CXDCBSI

Explanation: A first segment BIND was received, and segmentation is not supported.

8008 XXXX   (Label: SNS08)

Path error: Physical unit not active.

8008 0000

Command:

Any Command
Issued by: CXDCPSO

Explanation:

- The system control indicator (RH byte 0, bit 2) was on, and there was no active session between the SSCP and NCP physical services, or the SSCP does not own the physical unit.
- The system control indicator was off, and the request was not ACTPU.

ACTLU, DACTLU
Issued by: CXSSTAT

Explanation: The physical unit is not active.

BFCINIT
Issued by: CXDCHCBF

Explanation: The physical unit is not active.

BIND
Issued by: CXDCBBP, CXDCBND

Explanation: The physical unit is not active.

8009 XXXX (Label: SNS09)

Path error: Logical unit not active.

8009 0000

Command:

Any Command
Issued by: CXDCBOD

Explanation: The network address has already been freed.

BIND
Issued by: CXDCSIC, CXSSTAT

Explanation: The logical unit is not active.

CINIT, CLEANUP, CTERM
Issued by: CXSSTAT

Explanation: The logical unit is not active.

800A XXXX (Label: SNS0A)

800A 0000

Command:

Any Command
Issued by: CXESCHPR

Explanation: The PIU is too long.

Issued by: CXDCG06, CXDCG06T

Explanation: The size of the PIU is greater than what SSCP can accept.

800A 0001

Command:

Any Command
Issued by: CXDFLMR

Explanation: A data PIU received exceeds 255 buffers.

800A 0002

Command:

Any Command
Issued by: CXESPIUT

Explanation: A FID4 PIU is larger than maximum frame size for the link station.

800C XXXX (Label: SNS0C)

Path error: DCF error.

800C 0000

Command:

Any Command
Issued by: Remote load and dump program

Explanation: The link-attached NCP received a PIU that was too short.

Issued by: CXDCSRTR

Explanation: The data count must be greater than X'0A' or it is invalid.

800F XXXX   (Label: SNS0F)

800F 0001

Command:

BIND
Issued by: CXDCBBP

Explanation: The FID2 ODAI bit setting in a received BIND is incorrect.

8011 XXXX   (Label: SNS11)

8011 0000

Command:

Any Command
Issued by: CXMCIEH

Explanation: The ER0 is not operational.

8012 XXXX   (Label: SNS12)

8012 0000

Command:

Any Command
Issued by: CXDCBOP

Explanation: The virtual route is wrong; NCP is not in session with the originating SSCP.

DACTCDRM
Issued by: CXDGSNL

Explanation: The DACTCDRM command was received over the wrong virtual route.

UNBIND
Issued by: CXDGLNL

Explanation: The UNBIND command was received over the wrong virtual route.

8013 XXXX   (Label: SNS13)

8013 0001

Command:

BFCINIT
Issued by: CXDCBOF, CXDOBSET

Explanation: No vector mapping was specified; virtual route activation failed.

8013 0003

Command:

BFCINIT
Issued by: CXDCBOF, CXDOBSET

Explanation: No virtual route resource was available; virtual route activation failed. This could be caused by an insufficient value coded for NUMHSAS.

8013 0004

Command:

BFCINIT
Issued by: CXDCBOF, CXDOBSET

Explanation: No explicit route is operative; virtual route activation failed.

8013 0005

Command:

> **BFCINIT**
>> Issued by: CXDCBOF, CXDOBSET
>>
>> Explanation: No explicit route can be activated; virtual route activation failed.

8013 0006

Command:

> **BFCINIT**
>> Issued by: CXDCBOF, CXDOBSET
>>
>> Explanation: No virtual route can be activated; virtual route activation failed. This could be caused by an insufficient value coded for NUMHSAS.

8013 0007

Command:

> **BFCINIT**
>> Issued by: CXDCBFN
>>
>> Explanation: The VRID list is not present.

8013 0101

Command:

> **ACTCDRM, BIND**
>> Issued by: CXDGCSR
>>
>> Explanation: No virtual route to explicit route mapping exists.

8013 0103

Command:

> **ACTVR**
>> Issued by: CXDGCSR
>>
>> Explanation: No virtual route resources are available.

8013 0104

Command:

> **NC.ER.ACT, NC.ER.OP**
>> Issued by: CXDGCSR
>>
>> Explanation: No explicit route is operative.

8013 0105

Command:

> **NC.ER.ACT, NC.ER.OP**
>> Issued by: CXDGCSR
>>
>> Explanation: No explicit route can be activated.

8013 0106

Command:

> **ACTVR**
>> Issued by: CXDGCSR
>>
>> Explanation: No virtual route can be activated.

8013 0107

Command:

BIND
Issued by: CXDGLNL

Explanation:

- An interconnect network failure occurred because no virtual route can be activated.
- No VRID list is present.

8020 XXXX   (Label: SNS20)

8020 0001

Command:

UNBIND
Issued by: CXDCV35, CXDGSNO

Explanation: The session is reset due to virtual route INOP.

BF(SESSEND)
Issued by: CXDTVIP

Explanation: The session is reset due to virtual route INOP.

8020 0002

Command:

UNBIND
Issued by: CXDCV35

Explanation: The session is reset due to backup session failure.

8020 0004

Command:

SETUP, SETUP(REPLY)
Issued by: CXDCBOD

Explanation: The session is reset because the XIO LINK of SETUP or SETUP(REPLY) failed.

8020 0005

Command:

UNBIND (SESSEND)
Issued by: CXDTUAP

Explanation: The backup session is reset due to route extension failure.

8020 0006

Command:

(SESSEND)
Issued by: CXDTVIP

Explanation: The backup session is reset due to virtual route INOP.

Chapter 3. Abend Codes

This chapter contains NCP, SSP, and Controller Load and Dump Program (CLDP) abend codes. Preceding each message explanation, in parentheses, is the name of the program that issued the abend code.

NCP abend codes are usually indicated by an access method or operating system message at the host console, or a box event record (BER) code that can be viewed from the maintenance and operator subsystem (MOSS) console. NCP may report abend codes from NPSI and NTRI. If you think you have an NCP abend, follow the diagnosis procedure for abends given in *NCP, SSP, and EP Diagnosis Guide*. The ABN extension contains a diagnostic area where certain abends store information before abending. See the individual abend code for details.

SSP abends can occur when SSP utilities are invoked by the user. These abends are known as user abends and their abend numbers are preceded by the letter *U*. Normally these abends are accompanied by a message; they are documented in this book under the message that is issued when they occur. Some SSP user abends may occur without an accompanying message. If the SSP user abend does not have an accompanying message, it is documented in this chapter.

The CLDP resides in the communication controller. It loads the NCP into controller storage and also dumps the NCP. CLDP abend codes are included in this book because they are sometimes mistaken for NCP abend codes.

Note: The type of abend code you received is indicated in parentheses () of each explanation.

0000

Explanation: (NCP) A CCU check was not processed by level 1.

0001

Explanation: One of the following errors occurred:

- (NCP) An SVC code that was not defined was executed.
- (CLDP) No potential IPL ports were available (no channel adapter, line adapter, or automatic disk re-IPL ports).

Programmer Response: (CLDP) A common cause is the LKP Link Activity Timer expires before the link IPL ports become enabled. Increase the Link Activity Timer value. Alternatively, the abend may occur when a problem exists with all the potential link IPL ports (for example, an irrecoverable error was detected). Check the status of link IPL ports.

0003

Explanation: One of the following errors occurred:

- (NCP) An XIO macro to a communication line specified an invalid QCB address.
- (CLDP) An IPL port was found, but it was not a channel adapter, line adapter, or MOSS disk.

Programmer Response: (CLDP) This is probably a programming error. Notify your IBM representative.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 LCB/LKB causing abend.

0004

Explanation: (NCP) An XIO macro to the channel specified a PIU containing invalid chain pointers.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 PIU causing abend.

0005

Explanation: (NCP) An XIO macro to the channel specified a PIU containing more text than could be transferred with a single host Read operation.

0006

Explanation: (NCP) An XIO macro to the channel specified a PIU enqueued to a system queue.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 PIU causing abend.

0007

Explanation: (NCP) An XIO macro to the channel was used while a task was still waiting on the event control block (ECB) in the first buffer of the PIU.

0008

Explanation: (NCP) Buffer prefix data count field or buffer prefix data offset field is not valid.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 PIU causing abend.

000A

Explanation: (NCP) A level 5 program attempted to execute an I/O instruction.

000D

Explanation: (NCP) An instruction attempted to branch to storage location X'000000'. The controller hardware does not allow a branch to address X'000000'.

000E

Explanation: (NCP) A program logic error occurred in level 1.

000F

Explanation: (NCP) An XIO macro to the link specified an invalid address.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 PIU causing abend.

0010

Explanation: (NCP) An undefined initial-selection sequence or undefined data/status service level 3 interrupt occurred.

0011

Explanation: (NCP) A level 3 channel adapter interrupt of a host Write or Write Break channel command occurred, and neither zero count override nor channel stop was indicated. One of these conditions should be present for every host Write operation.

0012

Explanation: (NCP) An initial selection sequence was undefined on a channel adapter.

0013

Explanation: (NCP) An outbound BTU had an invalid chain field.

0014

Explanation: (NCP) A data/status sequence was undefined on a channel adapter.

0015

Explanation: (NCP) An XIO macro to the channel specified a PIU address outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 PIU causing abend.

0016

Explanation: One of the following errors occurred:

- (NCP) An XPORTVR macro specified an invalid buffer address.

- (SSP Dump Formatter) The SSP dump formatter experienced an error while formatting an SSP control block. This type of error is usually the result of an incorrect control block pointer within a control block.

- (SSP ACF/TAP) The ACF/TAP program experienced an error while formatting trace data.

System Action: One of the following has occurred:

- (SSP Dump Formatter) Formatting of the control blocks is halted and the registers, storage keys, and an unformatted NCP dump are printed.

- (SSP ACF/TAP) ACF/TAP is unable to recover from the error. Formatting of the trace data is halted.

Programmer Response: Do one of the following:

- (SSP Dump Formatter) Examine the last control block formatted and validate the control block pointers. If all of the pointers are correct, save the dump data set and notify your IBM representative for assistance. An incorrect pointer within a control block could be associated with the NCP failure. The NCP failure must be diagnosed using the unformatted dump.

- (SSP ACF/TAP) Check for diagnostic messages issued by the system in one of the following:

  – SYSPRINT and SYSOUT (MVS)
  – SYSLST (VSE)
  – SYSPRINT (VM).

  Note: In an MVS environment, this type of error can be caused by an error that occurred during the invocation of the system sort routines. Check the SYSOUT data set for sort error messages.

0017

Explanation: (NCP) A level 1 channel adapter check occurred, and recovery was not possible.

0018

Explanation: (NCP) Zero count override was detected on a host Read operation.

0019

Explanation: (NCP) An initial IN channel word (CW) did not have the zero count override flag set for channel input or output.

001B

Explanation: (NCP) The program attempted to perform an invalid operation code.

001C

Explanation: (NCP) The program attempted to switch channel adapters by using an XIO macro when support for the function was not generated into the NCP.

001D

Explanation: (NCP) An XIO macro was attempted on a busy communication line.

001E

Explanation: (NCP) More than one XIO macro was outstanding for the PIU.

001F

Explanation: (NCP) A buffer with an invalid TH text count was detected.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 PIU causing abend.

0020

Explanation: (NCP) The INCWAR in a channel adapter was incorrect. This indicates the hardware error CCU IN/OUT check with an invalid instruction address register (IAR) occurred.

0021

Explanation: (NCP) One of the following errors occurred:

- The access method pad size was larger than the host buffer unit size.

- An XIO was attempted to a discontacted channel.

0022

Explanation: (NCP) Outbound data pointers were incorrect. This is a program error.

0023

Explanation: (NCP) An invalid PIU address was issued to the channel.

0024

Explanation: (NCP) An OUT channel word (CW) execution failure occurred. This indicates a hardware error.

0025

Explanation: (NCP) A level 3 interrupt occurred for a channel adapter which was not in initial-selection sequence or data/status service.

0026

Explanation: (NCP) An attention delay PIU counter overflow or under flow occurred.

0027

> **Explanation:** (NCP) The attention-presented bit was on, but the intermediate queue was empty.

0028

> **Explanation:** (NCP) UIBLBBA equals zero. This is a program error.

0029

> **Explanation:** (NCP) The channel interface was disabled while NCP was active.

002A

> **Explanation:** (NCP) During initialization, a level 3 interrupt was not pending on the channel adapter that was being loaded across.

002B

> **Explanation:** (NCP) During initialization, a level 3 interrupt was pending on a channel adapter that was generated as inactive.

002C

> **Explanation:** (NCP) During initialization, a channel adapter that was generated as inactive could not be interface disabled within a reasonable amount of time. Manual intervention may be required.

002D

> **Explanation:** (NCP) An invalid channel adapter block (CAB) address was found.

002E

> **Explanation:** (NCP) A channel initialization error occurred.

002F

> **Explanation:** (NCP) A level 1 CCU input or output exception occurred. The address at IAR-2 did not match the address in LAR.

0030

> **Explanation:** (NCP) The channel adapter used to IPL the communication controller was marked as not attached, not installed, or inoperative in the MOSS configuration data file (CDF) or the configuration data set (CDS). One of the following errors may have occurred:
>
> - An error appeared in the channel adapter information, which was passed by CLDP to NCP during NCP initialization.
> - An error appeared in the CDF or the CDS.
> - The channel adapter used to IPL the NCP load module was not defined in the NCP generation definition.

- The NCP generation definition did not contain the correct logical channel link address.

0031

> **Explanation:** (NCP) A scanner error occurred during a level 1 scanner error recovery procedure (ERP).

0032

> **Explanation:** (NCP) Level 1 scanner ERP—Unable to recover from CCU outbus check. Unable to locate the failing output X'4X' instruction.

0033

> **Explanation:** (NCP) Level 1 channel adapter ERP—Unable to select the failing channel adapter.

0035

> **Explanation:** (NCP) Level 1 channel adapter ERP—Channel adapter error occurred during ERP.

0036

> **Explanation:** (NCP) Level 1 channel adapter ERP—Unable to recover from CCU outbus check. Unable to locate the failing output X'6X' instruction.

0037

> **Explanation:** (NCP) Level 1 channel adapter ERP—CCU outbus check did not occur on level 2 or level 3.

0038

> **Explanation:** (NCP) During initialization a CCU interrupt request was detected.

0039

> **Explanation:** (NCP) Level 1 CCU ERP—Level 5 issued an IN, OUT, IOH, or IOHI instruction. These are privileged instructions.

003A

> **Explanation:** (NCP) Initialization—Adapter check detected.

003B

> **Explanation:** (NCP) Level 1 CCU ERP—Unable to recover from inbus parity check. Unable to locate retry point for input X'6C'.

003C

> **Explanation:** (NCP) Level 1 channel adapter ERP—Unable to recover from CCU outbus check. Unable to locate retry point of output X'6C'.

003D

> **Explanation:** (NCP) Level 1 ERP—Level 1 error rate threshold exceeded.

003E

> **Explanation:** (NCP) EP was loaded over a link address.
>
> **Note:** EP is supported only on channel-attached controllers.

003F

> **Explanation:** (NCP) Level 1 ERP—Unable to determine interrupted level.

0040

> **Explanation:** (NCP) A level 3 interrupt from EP occurred and the channel adapter was not system generated.

0046

> **Explanation:** (NCP) EP was called to disable a channel adapter that was not defined for EP.

0050

> **Explanation:** (NCP) CXCANS received control with abort pending off.

0051

> **Explanation:** (NCP) CXCAANS got control with SNP mask=0.

0052

> **Explanation:** (NCP) The program requested an abort, but the abort request was set to off.

0053

> **Explanation:** (NCP) A channel adapter was active with Write, Write Break, or Read, but the channel-inoperative bit was on.

0054

> **Explanation:** (NCP) The program requested an interrupt when in the abort complete state or channel no-op state.

0055

> **Explanation:** (NCP) The buffer following the current buffer was overlaid.

0056

> **Explanation:** (NCP) A load was attempted over a channel for which NCPCA=INACTIVE was specified in the NCP generation definition, and no EP subchannel address range was specified using the LOCHAN and HICHAN keywords.

0057

> **Explanation:** (NCP) An XIO specifying a buffer on a system queue was attempted for a multilink transmission group.

0058

> **Explanation:** (NCP) During initialization, a channel adapter not used to IPL the communication controller was unable to present a level 3 interrupt.

0059

> **Explanation:** (NCP) The NS number was assigned to two different PIUs.

0101

> **Explanation:** (NCP) Invalid SCB or CUB address. LXBPOLL points at the service-order-table header without a Contact Poll command active.

0102

> **Explanation:** (NCP) A TRIGGER macro specified an invalid QCB.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 incorrect QCB address.

0104

> **Explanation:** (NCP) One of the following errors occurred:
>
> - A reentrant CALL macro specified a non-reentrant subroutine.
> - A level 5 task issued a reentrant CALL macro to code that was not a subroutine.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 active QCB, ABPARM2 subroutine called.

0105

> **Explanation:** (NCP) A level 5 task used a non-reentrant CALL macro when either the calling task or the called subroutine was reentrant.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 active QCB, ABPARM2 subroutine called.

0107

> **Explanation:** (NCP) A BHR attempted to use a QPOST macro.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 active QCB.

0108

> **Explanation:** (NCP) A SETTIME macro specified an interval greater than 43 200 seconds.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 ECB address, ABPARM2 interval.

0109

> **Explanation:** (NCP) A BHR attempted to use the QPOST operand on a SYSXIT macro.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 active QCB.

010C

Explanation: (NCP) A task attempted to use a SYSXIT macro while save areas were still allocated to its queue control block.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 active QCB.

010D

Explanation: (NCP) One of the following errors occurred:

- A COPYPIU LEASE=NO macro specified an RU count too high.
- A COPYPIU LEASE=YES macro specified an U1OFFSET or U1DATCNT value larger than the buffer.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 old PIU, ABPARM2 new PIU or 0.

010E

Explanation: (NCP) A QPOST macro specified an invalid QCB address.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect QCB address.

0112

Explanation: (NCP) A TPPOST macro specified an invalid BCU address (address high).

0114

Explanation: (NCP) A COPYBCU macro specified an invalid old buffer address (address high).

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0115

Explanation: (NCP) A COPYPIU macro specified an invalid new buffer address (address low).

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0116

Explanation: (NCP) A COPYBCU macro specified an invalid new buffer address (address high).

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0117

Explanation: (NCP) A task attempted to use an EXECBHR macro when the point 3 block handler routine (BHR) queue was empty.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address.

0118

Explanation: (NCP) A user-written block handler routine (BHR) dequeued a BCU and failed to return it to the queue (by using an INSERT macro) before the execution of an NCP BHR.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address.

0119

Explanation: (NCP) A block handler routine (BHR) attempted to use an EXECBHR macro.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 active QCB.

0120

Explanation: (NCP) A dynamic save area pool was incorrectly structured.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 buffer containing save area.

0121

Explanation: (NCP) A SETIME macro specified an ECB address outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 ECB or 0.

0122

Explanation: (NCP) A SETIME macro specified an invalid QCB address.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 ECB address, ABPARM2 QCB address.

0129

Explanation: (NCP) A CHAP macro specified an incorrect QCB address.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 task entry point.

012D

Explanation: (NCP) A task attempted a reentrant return when no save area was currently allocated to the task.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address.

0130

Explanation: (NCP) A POST macro specified an ECB whose status was already "event complete."

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 ECB address.

0132

    Explanation: (NCP) One of the following errors occurred while executing a COPYPIU LEASE=YES macro:

- The SVC parameter was invalid.
- The new buffer address value was too large.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect parameter.

0133

    Explanation: (NCP) On a COPYPIU LEASE=YES macro, the old buffer chain contained over 255 buffers.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 old PIU, chain head pointer.

0134

    Explanation: (NCP) On a COPYPIU LEASE=YES macro, the new buffer chain is longer than the old buffer chain.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 old PIU, chain head pointer.

0135

    Explanation: (NCP) Level 4 attempted to transfer control to level 3, but level 3 was disabled.

    Diagnostic Data: ABADDR address in level 5, where SVC was issued, resulting in the abend.

0201

    Explanation: (NCP) An ENQUE macro specified an element that was already enqueued.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 ECB address

0202

    Explanation: (NCP) An INSERT macro specified an element that was already enqueued.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 positional block, ABPARM2 inserted block.

0203

    Explanation: (NCP) An EXTRACT macro specified the same address for the QCB and the positional element.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 element address.

0205

    Explanation: (NCP) An INSERT macro specified an element at the end of a queue.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 positional block, ABPARM2 inserted block.

0206

    Explanation: (NCP) An INSERT macro specified the same address for the element to be inserted and the element after which it was to be inserted.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 positional block, ABPARM2 inserted block.

0207

    Explanation: (NCP) An INSERT macro specified the same address for the element to be inserted and the QCB governing the queue.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 positional block, ABPARM2 inserted block.

0208

    Explanation: (NCP) An ENQUE macro specified the same address for the element to be enqueued and the QCB governing the queue.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 element address.

0209

    Explanation: (NCP) A BHR attempted to use an ENQUE macro that specified an active queue control block.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 element address.

0210

    Explanation: (NCP) An ENQUE macro specified an element outside the buffer pool.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect element address.

0211

    Explanation: (NCP) An INSERT macro specified a positional element outside the buffer pool.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect element address.

0212

    Explanation: (NCP) An INSERT macro specified an insertion element outside the buffer pool.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect element address.

0213

    Explanation: (NCP) An EXTRACT macro specified a positional element outside the buffer pool.

    Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect element address.

0214

> **Explanation:** (NCP) Only one element was in the queue, but the head and tail pointers in the queue control block (QCB) were different.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 DQB address, ABPARM2 head of queue.

0215

> **Explanation:** (NCP) An ADVAN macro specified a positional element outside the buffer pool.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 incorrect element address.

0216

> **Explanation:** (NCP) A DEQUE macro specified an invalid QCB address.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 QCB address.

0217

> **Explanation:** (NCP) An ENQUE macro specified an invalid QCB address.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 ECB address.

0218

> **Explanation:** (NCP) A POINT macro specified an invalid QCB address.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 QCB address.

0219

> **Explanation:** (NCP) An INSERT macro specified an invalid QCB address.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 inserted block.

021A

> **Explanation:** (NCP) An INSERT macro specified the active QCB.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 positional block, ABPARM2 inserted block.

021B

> **Explanation:** (NCP) An ENQUE macro attempted to enqueue the active QCB.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 QCB address, ABPARM2 element address.

021C

> **Explanation:** (NCP) In an MVQUE macro, the head and tail pointers were not both zero.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 sending queue, ABPARM2 receiving queue.

021D

> **Explanation:** (NCP) An invalid QCB address was passed to SETPRI.

021E

> **Explanation:** (NCP) BFREVENT or VREVENT was issued with the ECB already in a chain.

0255

> **Explanation:** (SSP) The configuration report program (CRP) experienced a user abend because a required file could not be opened.
>
> **System Action:** The CRP program is halted. This condition generally occurs because of an error when opening a file.
>
> **Programmer Response:** Verify that the program control statements are present and correct, and then execute the program again. If the problem persists, notify your IBM representative for assistance.

0301

> **Explanation:** (NCP) A CHAIN macro specified a buffer that was already chained.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 positional buffer, ABPARM2 chain buffer.

0302

> **Explanation:** (NCP) A CHAIN macro specified the same address for the buffer to be chained and the buffer to which it was to be chained.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 buffer.

0304

> **Explanation:** (NCP) A RELEASE macro specified a BCU containing more buffers than the system limit for buffers for each BCU.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 buffer causing abend.

0306

> **Explanation:** (NCP) A RELEASE macro specified a BCU enqueued to a system queue.
>
> **Diagnostic Data**: ABADDR address in routine causing abend. ABPARM1 buffer causing abend.

030F

Explanation: (NCP) A RELEASE macro specified a buffer outside the buffer pool (buffer address low).

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 buffer causing abend. ABPARM2 biginning of buffer pool (SYSBUFPL).

0310

Explanation: (NCP) A CHAIN macro specified a positional buffer outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0311

Explanation: (NCP) A CHAIN macro specified that a buffer outside the buffer pool be chained.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0312

Explanation: (NCP) An UNCHAIN macro specified a positional buffer outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0314

Explanation: (NCP) A SCAN macro specified a current buffer address outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0315

Explanation: (NCP) A RELEASE macro specified a buffer outside the buffer pool (buffer address high).

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 buffer causing abend. ABPARM2 end of buffer pool (SYSEBPL).

0318

Explanation: (NCP) A LEASE macro specified an ECB address outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect buffer address.

0319

Explanation: (NCP) A LEASE macro specified a buffer count of zero.

Diagnostic Data: ABADDR address in routine causing abend.

031E

Explanation: (NCP) NCP initialization created control blocks or tables outside the range of usable NCP storage.

031F

Explanation: (NCP) The control block pool area was larger than the available space.

0320

Explanation: (NCP) The buffer pool size and the buffer availability count conflicted.

Diagnostic Data: ABPARM1 pointer to first free buffer (SYSBP1FB). ABPARM2 current free buffer count (SYSBPCBC).

0321

Explanation: (NCP) Buffers were insufficient for initialization.

0322

Explanation: (NCP) A RELEASE macro specified a buffer already in the free buffer pool. **Diagnostic Data**: ABADDR address of routine causing abend. ABPARM1 buffer causing abend. ABPARM2 prior release routine address from offset 64 (X'40') in buffer. This field may be overlaid or not valid if buffer prefix is corrupted.

0325

Explanation: (NCP) One of the following errors occurred:

- A failure occurred on a level 5 LEASE after PRE-LEASE was issued.

- **NCP/Token-Ring interconnection (NTRI) only**: The second data count of the last receive list buffer was not equal to the value in SYSBFSZD.

0326

Explanation: (NCP) A COMMIT request was issued for zero buffers.

Programmer Response: For information about the COMMIT service routine (CXACOM), see *NCP and EP Reference*.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 ACB or CBB, ABPARM2 pre-commit request count (CCBPREC).

0327

Explanation: (NCP) A COMMIT request was issued for too many buffers.

Programmer Response: For information about the COMMIT service routine (CXACOM), see *NCP and EP Reference*.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 ACB or CBB, ABPARM2 pre-commit request count (CCBPREC).

0328

Explanation: (NCP) One of the following errors occurred:

- Buffer ID (X'C2' in –3 of the buffer prefix) was missing or incorrect.
- For a leased buffer, bytes –4 and –3 of the buffer prefix were not X'80C2'.
- An error occurred in the TAGBUFF macro.

Diagnostic Data: ABADDR address where abend occured. ABPARM1 buffer causing abend or zero. ABPARM2 zero or ACB if abend was detected in CXBBFSVG.

0401

Explanation: (NCP) A GETBYTE macro specified a block control unit (BCU) address outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 BCU address.

0403

Explanation: (NCP) A PUTBYTE macro specified a block control unit (BCU) address outside the buffer pool.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect BCU address.

0405

Explanation: (NCP) A GETBYTE macro specified a block control unit (BCU) with an incorrect text length.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect BCU address.

0406

Explanation: (NCP) One of the following errors occurred:

- A PUTBYTE macro specified a BCU with an incorrect text offset in one or more of the buffer prefix fields.
- A PUTBYTE macro with the operand UPDATE=YES specified a BCU with an incorrect text length.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 incorrect BCU address.

0407

Explanation: (NCP) A GETIME macro specified invalid options.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 communications byte register in the last byte of parm field.

0408

Explanation: (NCP) The PRELEASE macro was coded QPOST=YES when the QCB was already on the prelease dispatch queue.

Diagnostic Data: ABADDR address in routine causing abend. ABPARM1 QCB address.

0409

Explanation: (NCP) An invalid return code on a level 3 XIO macro occurred.

0500

Explanation: (NCP) A selected true-action or false-action option requested an abend or IPL. The address trace enhancement (CXBACIT) selects this option.

050F

Explanation: (NCP) A program level 4 timer interrupt request expired, and the timer interval was not scheduled.

0510

Explanation: (NCP) An adapter error occurred during initialization.

0701

Explanation: (NCP) Automatic network shutdown (ANS) was initiated by the link-attached NCP.

0702

Explanation: (NCP) Automatic network shutdown (ANS) was initiated at the link-attached communication controller's console.

0703

Explanation: (NCP) A set initialization mode (SIM) was received by the secondary NCP.

Note: This abend code does not indicate a problem. This code is issued as part of the normal sequence of events when the host reloads or dumps an NCP in an active link-attached controller.

0704

Explanation: (NCP) An empty queue that should not be empty was specified in a POINT or DEQUE macro.

0705

Explanation: (NCP) An invalid box event record (BER) type was coded on the BDCRP macro.

0706

Explanation: (NCP) An invalid box event record (BER) ID was coded on the BDCRP macro.

N

0707

> **Explanation:** (NCP) The time-out error recovery procedure (ERP) was entered by the transmit leg of a duplex SDLC link.

0710

> **Explanation:** (NCP) A CCT entry was not found in the LTVT.

0711

> **Explanation:** (NCP) The program-resource-busy bit was on for a channel adapter that was not system-generated to be active for the program resource.

0800

> **Explanation:** (NCP) The link used for loading was not defined at NCP generation.

0900

> **Explanation:** (NCP) MOSS was down or out-of-sequence on a CPIT Available request.

0901

> **Explanation:** (NCP) MOSS was down or out-of-sequence waiting for status on a CPIT Available request.

0902

> **Explanation:** (NCP) MOSS was down or out-of-sequence on a scanner IPL Complete request.

0903

> **Explanation:** (NCP) MOSS was down or out-of-sequence on configuration data file (CDF) or configuration data set (CDS) request.

0904

> **Explanation:** (NCP) MOSS was down or out-of-sequence waiting for status on a configuration data file (CDF) or configuration data set (CDS) request.

0905

> **Explanation:** (NCP) MOSS was down or out-of-sequence waiting for a configuration data file (CDF) Available request or configuration data set (CDS) Available request.

0906

> **Explanation:** (NCP) Incorrect IPL information was passed from the CLDP.

0907

> **Explanation:** (NCP) An invalid relative line number was passed in the configuration data file (CDF) or the configuration data set (CDS).

0908

> **Explanation:** (NCP) A Get-Line-ID address was invalid.

0909

> **Explanation:** (NCP) One of the following errors occurred:

> - The CCBBAR address was invalid.
> - An IPL was attempted over an SDLC subarea link that was not defined in the NCP generation definition.
> - MONLINK=YES or MONLINK=CONTINUOUS was not coded on the LINE definition statement for the link that was being used to load the communication controller.
> - For an IPL over an ESCA link:
>   - XMONLNK=YES was omitted from the PU definition statement for the physical line.
>   - MONLINK=YES or MONLINK=CONTINOUS was omitted from the LINE definition station for the logical line.
>   - MONLINK=YES was omitted from the PU definition statement for the logical station.

090A

> **Explanation:** (NCP) The PSA contained invalid SCF data.

090B

> **Explanation:** (NCP) MOSS passed an incorrect data length to the Control Program Parameters Saved request.

090C

> **Explanation:** (NCP) MOSS passed an incorrect address to the Control Program Parameters Saved request.

090D

> **Explanation:** (NCP) MOSS passed an incorrect data length to configuration data file (CDF) Available request or configuration data set (CDS) Available request.

090E

> **Explanation:** (NCP) MOSS passed an incorrect address to configuration data file (CDF) Available request or configuration data set (CDS) Available request.

090F

> **Explanation:** (NCP) The PSA contained an invalid line communication status (LCS) field.

0910

Explanation: (NCP) An AIO address exception occurred on an NCP or communication controller channel adapter.

0911

Explanation: (NCP) An AIO storage protection occurred on an NCP or communication controller channel adapter.

0912

Explanation: (NCP) An attempt was made to select a channel adapter that is not was installed.

0913

Explanation: (NCP) An invalid IOH or IOHI instruction was issued to a channel adapter.

0914

Explanation: (NCP) The address range of the emulator subchannel (ESC) included the channel adapter's native subchannel (NSC) address, resulting in an invalid output sequence being issued to a channel adapter.

0915

Explanation: (NCP) Part or all of the emulator subchannel (ESC) address range specified by the LOCHAN and HICHAN keywords falls outside the ESC range specified in the configuration data file (CDF) or the configuration data set (CDS). The LOCHAN and HICHAN keywords are specified in the NCP generation definition.

Programmer Response: Use the MOSS console to display the channel adapter CDF or CDS ESC address range for each channel adapter. Compare this range to the ESC address range specified for the corresponding channel adapter in the NCP generation definition.

0916

Explanation: (NCP) An AIO error occurred.

0917

Explanation: (NCP) An AIO was unresolved for a channel adapter.

0918

Explanation: (NCP) An AIO has an invalid CCW.

0919

Explanation: (NCP) An unresolved channel adapter level 1 interrupt occurred.

091A

Explanation: (NCP) A PIO error to a channel adapter occurred.

091B

Explanation: (NCP) A channel adapter check occurred.

091C

Explanation: (NCP) An unresolved channel adapter level 3 initial selection interrupt occurred in either NCP or the IBM 3745 Communication Controller.

091D

Explanation: (NCP) An unresolved channel adapter level 3 data/status interrupt occurred in either NCP or the IBM 3745 Communication Controller.

091E

Explanation: (NCP) An unresolved channel adapter level 3 interrupt occurred. Part or all of the emulator subchannel range specified in the configuration data file (CDF) or configuration data set (CDS) falls outside the emulator subchannel range specified by the LOCHAN and HICHAN keywords. The LOCHAN and HICHAN keywords are specified in the NCP generation definition.

091F

Explanation: (NCP) A channel adapter level 3 IPL configuration check occurred.

0920

Explanation: (NCP) An IOH failure occurred during level 1 processing.

0921

Explanation: (NCP) Interrupts were received from a channel adapter that was not generated as active.

0922

Explanation: (NCP) Interrupts were received from a channel adapter that is in an error recovery program (ERP) state.

0924

Explanation: (NCP) All channel adapters are being disabled.

0925

Explanation: (NCP) An interrupt occurred on an emulation subchannel (ESC) and the channel adapter was not owned by EP.

0926

Explanation: (NCP) An inappropriate command was issued for stacked initial status.

0927

Explanation: (NCP) An attempt was made to disable a channel adapter in an error recovery program (ERP) state.

0928

Explanation: (NCP) The emulation subchannel (ESC) address was not within the range generated by NCP. It is set by EP on level 1 error recovery program (ERP) processing on channel data/status operations.

0929

Explanation: (NCP) A communication interrupt control program (CICP) queue failure (probable hardware failure) occurred. Level 2 or level 3 is not disabled when an adapter control block (ACB) is put on a CICP queue (CCPQON).

092A

Explanation: (NCP) An incompatible level of the configuration data file (CDF) or configuration data set (CDS) was detected.

092B

Explanation: (NCP) The load module size exceeded 4MB.

092C

Explanation: (NCP) A channel adapter could not be bypassed because of hardware restrictions. Recovery requires bypassing channel adapters on more than one power block.

092E

Explanation: (NCP) The requested MOSS/TSS workspace exceeded 128K.

092F

Explanation: (NCP) The linkage editor paging boundary was not 4KB.

Programmer Response: Delete the ALIGN2 parameter from the linkage editor JCL to allow the alignment to default to 4KB page boundaries.

For more information, see *NCP, SSP, and EP Generation and Loading Guide*.

0930

Explanation: (NCP) A transmission subsystem (TSS) AIO address exception occurred.

0931

Explanation: (NCP) A transmission subsystem (TSS) AIO storage-protection check occurred.

0932

Explanation: (NCP) An IOH or IOHI instruction was issued to a transmission subsystem (TSS) that was not installed.

0933

Explanation: (NCP) An invalid IOH or IOHI instruction was issued to a transmission subsystem (TSS).

0934

Explanation: (NCP) A level 1 interrupt occurred from a disconnected transmission subsystem (TSS) on CLAB.

0935

Explanation: (NCP) A level 1 interrupt occurred from a disconnected transmission subsystem (TSS). A redrive cannot be disabled.

0936

Explanation: (NCP) An unresolved level 2 interrupt occurred.

0937

Explanation: (NCP) A transmission subsystem (TSS) PIO input error occurred.

0938

Explanation: (NCP) A CSP on a CLAB could not be reset.

0939

Explanation: (NCP) A redrive could not be disabled.

093A

Explanation: (NCP) A level 1 interrupt occurred from a disconnected line adapter.

093B

Explanation: (NCP) Unable to reset a line adapter.

094F

Explanation: (NCP) All scanners went down.

Programmer Response: On an IBM 3745 Communication Controller, use the MOSS POS command to ensure that all scanner power supplies are powered on.

0950

Explanation: (NCP) An address exception occurred while trying to fetch the next instruction.

0951

Explanation: (NCP) An address exception occurred while executing an instruction.

Programmer Response: Check the BASE register for correct addressability.

0952

Explanation: (NCP) A storage protection check occurred while fetching the next instruction.

0953

Explanation: (NCP) A storage protection check occurred while performing an instruction.

Programmer Response: Check the BASE register for correct addressability.

0954

Explanation: (NCP) Level 5 branched to storage location zero.

0955

Explanation: (NCP) User program branched to storage location zero.

0956

Explanation: (NCP) A level 2 PCI interrupt occurred.

0957

Explanation: (NCP) A buffer overlay occurred due to a channel adapter hardware error.

0958

Explanation: (NCP) A buffer overlay occurred because of a scanner hardware error associated with an SDLC, frame-relay, token-ring, or ethernet line.

0959

Explanation: (NCP) A buffer overlay occurred because of a scanner hardware error associated with an BSC line.

0960

Explanation: (NCP) MOSS was down or out-of-sequence on request port swaps.

0961

Explanation: (NCP) MOSS was down or out-of-sequence on port swap status.

0962

Explanation: (NCP) MOSS was down or out-of-sequence on read port swaps.

0970

Explanation: (NCP) An unresolved level 1 interrupt occurred.

0971

Explanation: (NCP) An unresolved interrupt level occurred.

0972

Explanation: (NCP) A CCU hardware check occurred.

0973

Explanation: (NCP) A program IPL request occurred.

0974

Explanation: (NCP) An unresolved level 3 interrupt occurred.

0975

Explanation: (NCP) An unresolved level 4 interrupt occurred. This indicates a hardware error.

0976

Explanation: (NCP) An unresolved level 4 PCI interrupt occurred. This indicates that a hardware latch was flipping on and off.

0977

Explanation: (NCP) A continuous and false level 4 PCI interrupt occurred. This indicates that a hardware latch will not turn off.

0978

Explanation: (NCP) A configuration check level 3 interrupt occurred.

0979

Explanation: (NCP) An unresolved SVC level 4 interrupt occurred.

097A

Explanation: (NCP) A MOSS continuous interrupt request occurred. This indicates a hardware error.

097B

Explanation: (NCP) A MOSS continuous interrupt status occurred. This indicates a hardware error.

0990

Explanation: (NCP) An unresolved adapter level 1 problem occurred.

0991

Explanation: (NCP) An unresolved AIO level 1 problem occurred.

0992

Explanation: (NCP) An unresolved PIO level 1 problem occurred.

0994

Explanation: (NCP) All read redrive error registers have failed.

09F0

    Explanation: (NCP) Not enough information was available to recover when a data/status interrupt was pending during level 1 processing.

09F1

    Explanation: (NCP) Not enough information was available to recover when an initial-selection interrupt was pending during level 1 processing.

0A00

    Explanation: (NPSI) No ECB on time-out.

0A01

    Explanation: (NPSI) An invalid VCM state occurred on an activate link for a PVC. For example, this abend can occur when a PVC used for a remote load is not generated with IPL=YES.

    Note: If 0A01 is received during a remote load, verify that IPL=YES is coded on the X25.LINE statement in the remote load module.

0A02

    Explanation: (NPSI) Incorrect interface at BALMAR1 entry.

0A03

    Explanation: (NPSI) Invalid VCM state on a time-out for an SVC.

0A10

    Explanation: (NPSI) An error was found during NPSI initialization. This could be due to an error in the generation JCL such as using the wrong libraries.

    Programmer Response: To determine the exact nature of the error, find module BALIMD in the unformatted portion of the NCP dump. Look for the string "ERx=nn", where nn indicates how many times an error occurred.

    The values of x and their meanings follow:

x	Error
1	More than one UACB for one LKB
2	UACB not identified as X.25 (MU or VU)
3	NCP/X.25 discrepancy about switched versus permanent
4	PU type invalid for LLC0 (PU type 1 only) or for LLC3 on PVC.

0A11

    Explanation: (NPSI) No buffer was available at initialization time.

0A20

    Explanation: (NPSI) An invalid value appeared in MKBSTATC.

0A21

    Explanation: (NPSI) No element was enqueued on QCB during Restart phase.

0A22

    Explanation: (NPSI) No element was enqueued on QCB during MCH operational.

0A23

    Explanation: (NPSI) An invalid value was found in the LXBSTATC.

0A24

    Explanation: (NPSI) An invalid value was found in CUBSSCB.

0A40

    Explanation: (NPSI) No more LIQ were available.

0A43

    Explanation: (NPSI) A discrepancy was found in WACK Q and WACK Q count.

0A55

    Explanation: (NPSI) No buffer was received from BALPLPI.

0A56

    Explanation: (NPSI) The PAD mode was not identified as either integrated or transparent.

0A60

    Explanation: (NPSI) An error occurred during segmenting in packets. VCBQCB3 is empty.

0A72

    Explanation: (NPSI) Line timer level 3 for a VC.

0A73

    Explanation: (NPSI) An invalid dequeue was attempted during reset system timer.

0A77

    Explanation: (NPSI) An X25EXTRA interface error occurred.

0A7E

    Explanation: (NPSI) A level 3 interrupt occurred for a VC.

0A7F

    Explanation: (NPSI) A level 2 interrupt occurred for a VC.

0A80

> **Explanation:** (NPSI) A physical services request was invalid.

0A81

> **Explanation:** (NPSI) A logic error was detected in timer routine.

0A84

> **Explanation:** (NPSI) A QSTATE error was detected in LL2 test.

0A85

> **Explanation:** (NPSI) A QSTATE error was detected in QXID processor.

0A86

> **Explanation:** (NPSI) A QSTATE error was detected in the QSNRM/QUA processor.

0A87

> **Explanation:** (NPSI) One of the following errors occurred:
>
> • LOBQ empty of first element.
> • LOBQ was not an XID.

0A8A

> **Explanation:** (NPSI) A QSTATE error was detected in QRD processor.

0A8D

> **Explanation:** (NPSI) No TCB was available to build the QTEST request or the LL2 test frame.

0A90

> **Explanation:** (NPSI) A QSTATE error was detected in the main routine.

0A91

> **Explanation:** (NPSI) The physical services packet length was invalid.

0A94

> **Explanation:** (NPSI) A QSTATE error was detected in data processor.

0A95

> **Explanation:** (NPSI) A QTEST response was received rather than a QTEST request.

0A9F

> **Explanation:** (NPSI) An error occurred during XPC-OUT verification. The error could be one of the following:
>
> • The PIU type was not FID0, FID1, or FID4.
> • The PIU length was too short.
> • The PIU transmission header (TH) length was incorrect.
> • The PIU TH subarea address was zero.

0AA1

> **Explanation:** (NPSI) The dispatch-out function was not recognized.

0AA2

> **Explanation:** (NPSI) A physical services error occurred.

0AB0

> **Explanation:** (NPSI) VC number discrepancy occurred in VCB and PKT.

0AB2

> **Explanation:** (NPSI) Other than control packet received.

0AB3

> **Explanation:** (NPSI) An invalid PVC status occurred. This is a programming error.

0AB4

> **Explanation:** (NPSI) An invalid SVC status occurred. This is a programming error.

0AD0

> **Explanation:** (NPSI) Link level 2 test was attempted without TCB queued.

0B00

> **Explanation:** (NTRI) A level 2 interrupt on a logical link occurred.

0B01

> **Explanation:** (NTRI) An address exception (AIO) occurred.

0B02

> **Explanation:** (NTRI) A storage protection exception (AIO) occurred.

0B03

> **Explanation:** (NTRI) An invalid value in MCTCSPM1 or MCTCSPM2 control block fields was found.

0B04

Explanation: (NTRI) Two token-ring multiplexers (TRMs) were on the same board according to the configuration data file (CDF) or configuration data set (CDS).

0B05

Explanation: (NTRI) A level 3 interrupt on a logical link occurred.

0B08

Explanation: (NTRI) A line error time-out physical link occurred.

0B09

Explanation: (NTRI) A line error time-out logical link occurred.

0B0A

Explanation: (NTRI) A time-out with no element on the queue occurred.

0B0B

Explanation: (NTRI) The LXBSTATC field contained an invalid completion code status.

0B21

Explanation: (NTRI) A transmit list error occurred.

0B33

Explanation: (NTRI) The first receive list buffer found in LIT was not equal to the one set by medium access control (MAC) level 2.

0B34

Explanation: (NTRI) The pointer to the last receive list computed was not equal to the value given in the SSB.

0B35

Explanation: (NTRI) The number of buffers leased was incorrect after a recovery from the CWALL buffer threshold.

1001

Explanation: (NCP) A BCU, with a Restart command, contained an error in the text length field.

1002

Explanation: One of the following errors occurred:

- (NCP) The line control block (LCB) contained a resource.

- (CLDP) A level 1 error occurred, which caused a hardstop. A hardstop indicates that the error is not a channel adapter level 1 error, a line adapter level 1 error, an IOC error, or a level 1 error while in level 1.

1003

Explanation: One of the following errors occurred:

- (NCP) The subtask sequence pointer in the line control block (LCB) was not initialized.

- (CLDP) The exit routine did not receive an acknowledgment from MOSS

Programmer Response: (CLDP) Take a MOSS dump. There is probably a problem in IPL phase 4.

1004

Explanation: One of the following errors occurred:

- (NCP) The BTU contained an invalid command modifier.

- (CLDP) A channel adapter raised a level 1 error.

Programmer Response: (CLDP) Notify your IBM representative.

1005

Explanation: One of the following errors occurred:

- (NCP) After BHR execution, the device input queue was empty (point 1).

- (CLDP) A level 1 error was raised by a line adapter.

Programmer Response: (CLDP) Notify your IBM representative.

1006

Explanation: One of the following errors occurred:

- (NCP) After BHR execution, the line input or output queue was empty (point 2).

- (CLDP) A level 1 IOC error occurred.

Programmer Response: (CLDP) Make sure that the LKP Disable Timer is set to a value greater than zero. If the problem continues, notify your IBM representative.

1007

Explanation: One of the following errors occurred:

- (NCP) After BHR execution, the point 3 BHR queue was empty.

- (CLDP) A level 1 error occurred while in level 1. This can be caused by two link IPL ports with duplicate addresses.

Programmer Response: (CLDP) Use the MOSS console to display each line address in the LKP IPL table.

1008

Explanation: (NCP) A task associated with the point 3 BHR queue was dispatched.

1009

Explanation: (NCP) The backspace block handling routine (BHR) was dispatched, but the queue was empty.

100A

Explanation: (NCP) A data manipulation error occurred in the backspace block handling routine (BHR).

100B

Explanation: (NCP) The date/time block handling routine (BHR) was dispatched, but the queue was empty.

100C

Explanation: (NCP) All skip flags were set in the service order table (SOT).

100D

Explanation: (NCP) The number of dial digits passed from the host was not equal to the BTU text length.

100E

Explanation: (NCP) No reset command was found at the end of an operation that was being reset.

100F

Explanation: (NCP) The device base (DVB) con-tained an invalid resource ID.

1010

Explanation: One of the following errors occurred:

- (NCP) An invalid system resource ID was speci-fied in the BCU.
- (CLDP) A time-out occurred on IPL from disk response from level 1.

Programmer Response: (CLDP) Take a MOSS dump. There is probably a problem in IPL phase 4.

1011

Explanation: (NCP) An invalid checkpoint data length was specified in the BCU.

1012

Explanation: One of the following errors occurred:

- (NCP) The BH set pointer (DVIBHSET) in the DVB did not match any entry in the system BH set table (BST).
- (CLDP) A time-out occurred on dump to disk response from level 1.

Programmer Response: (CLDP) Dump MOSS storage. There is probably a problem in IPL phase 4.

1014

Explanation: (NCP) Level 5 was entered without an active task.

1066

Explanation: (CLDP) When CLDP issues a second and third GES IOH and abends, all of the following have occurred:

- Level 1 is received.
- The coupler is operational.
- The first GES is nonzero.
- The first GES is not RST INIT or RST UPDATE.

Note: The coupler is the connection between the 3746 Model 900 and the IBM 3745 communication controller.

10EE

Explanation: (NCP) IOBPOLL points outside the service order table (SOT).

10FF

Explanation: (NCP) The pending sessions count was negative.

2004

Explanation: (CLDP) A set initialization mode (SIM) was received during the load or dump of a link-attached NCP. This error is usually caused by a host operator action, such as canceling an IPL or dump, but it can also be caused by host software problems.

2005

Explanation: (CLDP) A DISC was received during the load or dump of a link-attached NCP. This error is usually caused by a host operator action, such as canceling an IPL or dump, but it can also be caused by host software problems.

2006

Explanation: (CLDP) An early SNRM was received before IPL or dump final. This is a VTAM/CLDP pro-tocol error.

Programmer Response: Check VTAM level.

2007

Explanation: (CLDP) Early XID received before IPL or dump final. This is a VTAM/CLDP protocol error.

Programmer Response: Check VTAM level.

2008

Explanation: (CLDP) The supervisory frame was not RR, RNR, REJ. This is a VTAM/CLDP protocol error.

Programmer Response: Check VTAM level and line adapter status.

200A

Explanation: (CLDP) The LKP Link Activity Timer expired during a link IPL. This error could be caused by one of the following:

- The Link Activity Timer is set too low.

- During a link IPL when loading NCP to disk the Link Activity Timer was set too low.

  Note: Loading NCP to disk can take several minutes.

- The REPLYTO value, RETRIES value, or both values in the loading NCP are too small for link IPL.

  This error could be due to one or more of the following:

  – The link had a long delay, for example, a satellite delay.

  – The loading NCP was too slow.

  – Heavy traffic existed in the host with slow links.

- A data link had a high error rate; the host exceeded the error retry count and stopped sending to the link-attached controller.

- The NCP load abends.

- The host system abends or is re-IPLed by the operator.

200B

Explanation: (CLDP) The SDLC frame was not a supervisory one, and the command was not supported by CLDP. This is a VTAM/CLDP protocol error.

Programmer Response: Check the VTAM level and line adapter status.

200C

Explanation: (CLDP) A level 2 spurious interrupt occurred in the not wait for IPL state.

Programmer Response: Check line adapter status.

200D

Explanation: (CLDP) An unresolved level 2 interrupt was raised that did not indicate either IOC bus 1 or IOC bus 2.

Programmer Response: Check the switch I/O component of the hardware.

200E

Explanation: (CLDP) An unresolved level 2 interrupt was raised that did not indicate either a PCI or a line adapter.

Programmer Response: Check the switch I/O component of the hardware.

202A

Explanation: (CLDP) ESCON presented a permanent link error status to CLDP.

202B

Explanation: (CLDP) ESCON presented a permanent station error to CLDP.

202C

Explanation: (CLDP) ESCON rejected a resource definition initial or a resource definition update from CLDP.

3000

Explanation: (NCP) A task was dispatched with an empty queue control block (QCB).

3001

Explanation: One of the following errors occurred:

- (NCP) The UIB status is invalid in the PIU.

- (CLDP) A host IPL request was received while dumping across a channel adapter. This error is usually caused by an operator action or a problem with either VTAM or SSP.

3002

Explanation: One of the following errors occurred:

- (NCP) The XIO macro return code was invalid.

- (CLDP) Initial selection interrupt was received and no bits were set in channel adapter register 0.

Programmer Response: (CLDP) Check the CADS using CADS services.

3003

Explanation: One of the following errors occurred:

- (NCP) The XPORT return code was invalid.

- (CLDP) The CCW was invalid for one of the following reasons:

  – Read type was not a Sense (04), a Sense ID (E4), or a Read (02).

  – The NOOP CCW was neither a Write IPL (05) nor a NOOP (03).

Programmer Response: (CLDP) Do one of the following:

- Check the SSP level (incorrect CCW according to protocol specifications)

- Check the CADS (CCW passed to CLDP in error).

3004

Explanation: One of the following errors occurred:

- (NCP) The module CXDESSA was entered when a Deactivate Line halt was in progress.

- (CLDP) An invalid CCW occurred. The Write type was not a Write (01) or a Write Break (09).

Programmer Response: (CLDP) Do one of the following:

- Check the SSP level (incorrect CCW according to protocol specifications).

- Check the CADS (CCW passed to CLDP in error).

3005

Explanation: One of the following errors occurred:

- (NCP) CXDCPSI was unable to route a PIU to the SSCP.

- (CLDP) The inbound remaining transfer length was not equal to 0, 128, 256, or 384.

Programmer Response: (CLDP) This is probably a programming error. Notify your IBM representative.

3006

Explanation: One of the following errors occurred:

- (NCP) Reset immediate XIO failed.

- (CLDP) One of the following errors occurred:

  – A channel adapter was hung, for example, after a PGM reset could not be disabled, or always in CHANNEL MONITOR mode.

  – CLDP found the IPL port and was unable to disable a CADS.

Programmer Response: (CLDP) The number (1–16) of the failing CADS is given in register R1LO of level 3.

3007

Explanation: (NCP) The PIU format was incorrect.

3008

Explanation: (NCP) Segmentation parameter N equaled zero.

3009

Explanation: (NCP) Segmentation parameters conflicted.

300A

Explanation: One of the following occurred:

- (NCP) An immediate stop was triggered with an incorrect status.

- (CLDP) One of the following errors occurred:

  – SSP or VTAM stopped communicating with a channel-attached controller during a load or dump.

  – The channel adapter backup timer expired because no channel activity occurred for 60 seconds.

  – Data streaming was defined in the configuration data file (CDF) or the configuration data set (CDS), but was not supported by the host (for example, IOCDS or IOCP).

  – A Power On Reset of the channel adapter was not performed since the last channel adapter CDF or CDS update.

  – A channel adapter error occurred.

  – A VTAM error occurred.

300B

Explanation: (NCP) An unusable network address appeared in the LKB.

300C

Explanation: (NCP) Unusable input was passed to the routine.

300D

Explanation: One of the following errors occurred:

- (NCP) The LCB contained no PIU.

- (CLDP) The Channel adapter level 3 unresolved interrupt was neither I/S nor D/S.

Programmer Response: (CLDP) Check the following hardware: switch I/O, CADS, and any failing adapter on this bus.

300E

Explanation: One of the following errors occurred:

- (NCP) CXDKFMR passed a request code to a routine that does not handle that request code.

- (CLDP) The level 3 unresolved interrupt was not a timer, PCI, panel, or channel adapter.

Programmer Response: (CLDP) Check the hardware.

300F

Explanation: (NCP) An XIO LINK attempt failed on a validated PIU.

3010

Explanation: One of the following errors occurred:

- (NCP) An XPORT attempt failed on a validated PIU.

- (CLDP) A time-out occurred while waiting for IPL FROM DISK COMPLETE indication. MOSS is probably down.

3011

Explanation: One of the following errors occurred:

- (NCP) XIO SETMODE attempt failed.

- (CLDP) Time-out occurred while waiting for CONTROL INFORMATION RESPONSE indication. MOSS is probably down.

3012

Explanation: (NCP) An invalid UIB type field was found.

3013

Explanation: (NCP) An unusable network address appeared in the CCU.

3014

> **Explanation:** (NCP) A link-attached NCP received a set normal response mode (SNRM) command from local NCP.

3015

> **Explanation:** (NCP) Link-attached NCP received DISC from local NCP.

3016

> **Explanation:** (NCP) A link-attached NCP detected a permanent error in the path to a local NCP and automatic network shutdown (ANS) was not defined in the link-attached NCP's generation definition.

3017

> **Explanation:** (NCP) The inbound flow in a SSCP-PU session was that of a type 1 physical unit.

3018

> **Explanation:** (NCP) The begin-bracket PIU was not on queue.

3019

> **Explanation:** (NCP) A DEQUE macro was issued by SPF CPM-in, and an error PIU was not found on the APPL process QCB.

301A

> **Explanation:** One of the following errors occurred:
>
> - (NCP) An ADVAN macro was issued by SPF CPM-in, and an error PIU was not found on the APPL process QCB.
>
> - (CLDP) One of the following has occurred:
>   - The 3746 Model 900 backup timer expired because an Execute Clear was not received in response to an Execute Request.
>   - The 3746 Model 900 failed to respond to CLDP.
>   - The ESCON connection became inactive while loading or dumping.

301B

> **Explanation:** (NCP) An XPORT macro issued by SPF CPM-in failed for unknown reasons.

301C

> **Explanation:** (NCP) During FID1-to-FID0 conversion, an XPORT macro issued by SPF CPM-in failed for an unknown reason.

301D

> **Explanation:** (NCP) During the export of a FID1 PIU, an XPORT macro issued by SPF CPM-in failed for an unknown reason.

301E

> **Explanation:** (NCP) An XPORT macro was issued by an point 3 block handling routine (BHR) before the PIU was converted.

301F

> **Explanation:** (NCP) A DEQUE macro was issued by SPF CPM-out, and an error PIU was not found on the APPL process ACB.

3020

> **Explanation:** (NCP) An XPORT macro issued by the build error module (CXDSERR) failed for an unknown reason.

3021

> **Explanation:** (NCP) A POINT macro was issued by the build error module (CXDSERR), and an error PIU was not found on the APPL process QCB.

3025

> **Explanation:** (NCP) Lines or links not quiesced count went negative.

3026

> **Explanation:** (NCP) An automatic network shutdown (ANS) resource vector table (RVT) scan error occurred during the RVT scan phase of ANS.

3027

> **Explanation:** (NCP) An undefined Contact Poll command was detected during automatic network shutdown (ANS).

3028

> **Explanation:** (NCP) The link-attached NCP detected a condition on the active link to the local NCP that required backup link monitoring. Although backup links to the local communication controller existed, there was no backup monitor code.

3029

> **Explanation:** (NCP) RSLVNAD failed while attempting to process the extension address.

302A

> **Explanation:** (NCP) RSLVNAD failed while attempting to process a freed control block.

302B

> **Explanation:** (NCP) The attempt to dequeue the control block from the dynamic reconfiguration (DR) pool failed.

302C

> **Explanation:** (NCP) The end of the PUV or the LUV was reached before it was expected.

302E

    Explanation: (NCP) One of the RNR exception counters (CXBWPDCT, CXBPBPCT, or CXBIBSCT) overflowed.

302F

    Explanation: (NCP) An attempt was made to decrement the current LU-LU session count (LUBCSCT), which was zero.

3030

    Explanation: (NCP) A reserved/unreserved counter overflow occurred in the LUB, LNB, LTX, or BSB pool anchor block.

3031

    Explanation: (NCP) BTINSERT failed. The node already existed in the tree or the future key was not initialized in the SHB.

3032

    Explanation: (NCP) DEALOCCB failed. The specified control block was already in a chain.

3033

    Explanation: (NCP) BTDELETE failed. The node was not in the search tree.

3034

    Explanation: (NCP) ALOCCB failed. Insufficient control blocks were available for allocation.

3040

    Explanation: (NCP) A second buffer (IMR RECMS RU text buffer) could not be found—IMR buffer queuing error.

3041

    Explanation: (NCP) LPDA1 RECMS/RECFMS text buffer could not be found or was invalid. LPDA2 NMVT RU could not be found.

4001

    Explanation: (CLDP) A NAK was received from MOSS.

    Programmer Response: Check the mailbox trace.

7000

    Explanation: (NCP) The program was not supported on the communication controller.

    Programmer Response: Verify that the BUILD definition statement contains the correct communication controller model number.

7001

    Explanation: (NCP) The user-specified usage tier level does not support a communication controller operating in twin-dual or twin-backup mode.

    Programmer Response: Verify that the BUILD definition statement contains the correct communication controller model number.

    Note: Starting with NCP V7R6, this abend no longer occurs. In addition, this abend is removed from NCP releases V7R1 through V7R5 by APAR IR34014.

7002

    Explanation: (NCP) Usage tier level 3 does not support the defined channel link configuration on a communication controller operating in either twin-dual or twin-backup mode.

    Note: Starting with NCP V7R6, this abend no longer occurs. In addition, this abend is removed from NCP releases V7R1 through V7R5 by APAR IR34014.

7FFF

    Explanation: (NCP) A Forced Dump was issued.

List of Abbreviations

ABM	Asynchronous balanced mode	**CPM**	Connection point manager
ACB	Adapter control block	**CRP**	Check record pool;
ACF/TAP	Advanced Communications Function for the		configuration report program
	Trace Analysis Program	**CSB**	Communication scanner base
AIO	Adapter input output;	**CSECT**	Control section
	adapter-initiated operation	**CSP**	Character service program;
ALS	Adjacent link station		communication scanner processor
ANA	Assign network address	**CSS**	Connectivity subsystem
ANS	Auto network shutdown	**ctlr**	Controller
APPN	Advanced Peer-to-Peer Networking	**CUB**	Common physical unit block
APPL	Aplication program	**CV**	Control vector
ARSI	ACTCDRM request sequence indication	**CW**	Control word;
AVB	Address vector control block		channel word
AVT	Address vector table	**DAF**	Destination address field
BB	Begin bracket indicator;	**DASD**	Direct access storage device
	branch on bit	**DD**	Data definition;
BBE	branch on bit extended		device driver
BCU	Block control unit	**DFC**	Data flow control
BER	Box event record	**DISC**	Disconnect
BH	Block handler	**DLC**	Data link control
BHR	Block handling routine	**DLCI**	Data link connection identifier
BNN	Boundary network node	**DM**	Disconnect mode
BPB	Destination boundary pool (BPOOL) block	**DMPX**	Data multiplexer
BSB	Boundary session block	**DR**	Dynamic reconfiguration
BSC	Binary synchronous communication	**D/S**	Data/Status
BST	Block handler set table	**DSAF**	Destination subarea address field
BTT	Branch trace table	**DTE**	Data terminal equipment
BTU	Basic transmission unit	**DVB**	Device base control block
BXI	Boundary session block extension	**ECB**	Event control block
CA	Channel adapter	**ECL**	Establishment communication link;
CAB	Channel adapter control block		electronic cabling link
CACM	Channel adapter concurrent	**ENA**	Extended network addressing
	maintenance	**EP**	Emulation Program
CADS	Channel adapter data streaming	**ER**	Explicit route;
CAVT	Channel adapter vector table		exception response
CBC	Controller bus coupler	**ERP**	Error recovery procedure
CCT	Line trace control block	**ESA**	Extended subarea addressing
CCU	Central control unit;	**ESC**	Emulation subchannel
	cluster control unit;	**ESCA**	ESCON adapter
	communication control unit	**ESCON**	Enterprise Systems Connection
CCW	Channel command word	**ESD**	External symbol dictionary
CD	Cross domain	**ESS**	Ethernet-type subsystem
CDF	Configuration data file	**FAX**	Fullword direct addressable extension
CDRM	Cross domain resource manager	**FID**	Format identification
CDS	Configuration data set	**FM**	Function management
CICP	Communication interrupt control program	**FNA**	Free network address
CLA	Communication line adapter	**FRFH**	Frame-relay frame handler
CLAB	Channel and Line Attachment Board	**FRSE**	Frame-relay switching equipment
CLDP	Controller Load and Dump Program	**FRTE**	Frame-relay terminal equipment
cmd	Command	**FNA**	Free network addresses
CMDR	Command reject	**GES**	Get error status
cnt	Count	**GPA**	Generic pool anchor block
COS	Call originate status;	**GPT**	Generalized PIU trace
	class of service	**HPTSS**	High-performance transmission
CP	Control point		subsystem
CPIT	Control program information table	**HSCB**	Half-session control block

X-1

Abbreviations

HWE	Extended halfword direct addressables	**NCST**	NCP connectionless SNA transport
IAR	Instruction address register	**NDF**	NCP/EP definition facility
ID	Identification	**NETID**	Network identifier
IMR	Intensive mode recording	**NIB**	Network interconnect control block
INOP	Inoperative	**NIX**	Network interconnect extension
I/O	Input/output	**NLB**	Programmed resource logical unit block
IOB	Input/output block	**NLX**	Programmed resource logical unit block extension
IOC	Input/output control		
IOCP	I/O configuration program	**NMVT**	Network management vector transport
IOCDS	Input/output control data set	**NNNA**	Non-native network attachment
IOH	Input/output halfword	**NO-OP**	No operation instruction
IOHI	Input/output halfword immediate; adapter input/output immediate	**NPA**	Network performance analyzer
		NPM	NetView Performance Monitor
IP	Internet Protocol	**NPSI**	X.25 NCP Packet-Switching Interface
IPL	Initial program load	**NQN**	Network-qualified name
IPM	Isolated pacing message	**NRF**	Network Routing Facility
ISDN	integrated services digital network	**NRM**	Normal response mode; network resource management
JCL	Job control language		
KB	1024 bytes	**NS**	Network services; sequence number sent
KVT	Keyword vector table		
LA	Load address; line adapter	**NSA**	Network services available
		NSC	Native subchannel; NPA session counters control block
LAN	Local area network		
LAR	Lagging address register	**NTO**	Network Terminal Option
LCB	Line control block	**NTRI**	NCP/Token-Ring interconnection
LCS	Line communication status	**NVT**	Network vector table
LCST	Line control selection table	**OAF**	Origin address field
LEN	Low-entry networking	**ODLC**	Outboard data link control
LIC	Line interface card; line interface coupler	**OEM**	Original equipment manufacturer
		OLTT	Online terminal test
LIQ	Link inbound queue	**OP**	Operative
LIT	Line interface table	**OPLU**	Outboard primary logical unit
LKB	Link control block	**OSAF**	Origin subarea address field
LKP	Link IPL port	**PAD**	Packet assembler/disassembler; pad character
LLC	Logical link control		
LLT	Link level trace	**PC**	Path control
LMI	Local management interface	**PCI**	Program-controlled interrupt (for CCU)
LNB	Logical network address unit control block	**PCID**	Procedure-correlation identifier
LND	Dependent logical unit control block	**PEP**	Partitioned emulation program
LNVT	Line vector table	**PIO**	Program-initiated operation; program input/output
LOBQ	Link outbound queue		
LPDA	Link Problem Determination Aid	**PIU**	Path information unit
LRC	Longitudinal redundancy check	**PLU**	Primary logical unit
LSA	Lost subarea	**PS**	Physical services
LTVT	Line trace vector table	**PSA**	Parameter status area; parameter/status area control block
LTX	Logical unit terminal node extension		
LU	Logical unit	**PSB**	Physical services block
LUB	Logical unit control block	**PU**	Physical unit
LUV	Logical unit vector table	**PUV**	Physical unit vector table
LUX	Logical unit block extension	**PVC**	Permanent virtual circuit
MAC	Medium access control	**QCB**	Queue control block
MB	1 048 576 bytes	**RCB**	Resource connection block
MOSS	Maintenance and operator subsystem	**RD**	Request disconnect
MOSS-E	Maintenance and operator subsystem extended	**RECFMS**	Record formatted maintenance statistics
		RECMS	Record maintenance statistics
MU	Message unit	**REJ**	Reject
MVS	Multiple Virtual Storage	**REQMS**	Request maintenance statistics
NAK	Negative acknowledge character	**RES**	Remote entry services
NAU	Network addressable unit	**REX**	Route extension
NCP	Network Control Program		

RH	Request/response header	**SVC**	Supervisor call
RIM	Request initialization mode	**TCAM**	Telecommunications access method
RNAA	Request network address assignment	**TCB**	Test control block
RNR	Receive not-ready	**TG**	Transmission group
ROL	Request on-line (replaced by DM)	**TGB**	Transmission group control block
RPO	Remote power-off	**TGN**	Transmission group number
RR	Receive ready	**TH**	Transmission header
RS	Read start	**TIC**	Token-ring interface coupler
RSP	Response	**TRA**	Token-ring adapter
RU	Request/response unit	**TRM**	Test request message;
RVT	Resource vector table		token-ring multiplexer
SA	Subarea address	**TRT**	Transit routing table
SAL	SNA address list	**TSS**	Transmission subsystem
SCB	Station control block	**TWX**	Teletypewriter exchange service
SCF	Secondary control field	**UA**	Unnumbered acknowledgment
SDLC	Synchronous Data Link Control	**UACB**	User adapter control block
SDT	Start data traffic	**UIB**	Unit information block
SETCV	Set control vector	**VC**	Virtual circuit
SHB	Search-tree block;	**VLB**	Programmed resource virtual link block
	search tree header control block	**VM**	Virtual Machine
SIM	Set initialization mode	**VR**	Virtual route
SIR	Session information retrieval	**VRB**	Virtual route control block
SIT	Subarea index table;	**VRID**	Virtual route identifier
	scanner interface trace	**VSE**	Virtual Storage Extended
SLU	Secondary logical unit	**VTAM**	Virtual Telecommunications Access Method
SNA	Systems Network Architecture	**VU**	Voice unit
SNP	SSCP-NCP session control block	**WACK**	Wait acknowledgment character
SNRM	Set normal response mode	**XDA**	Word direct addressable
SON	Session outage notification	**XDB**	Byte direct addressable storage
SOT	Service order table	**XID**	Exchange identification
SPF	Structured programming facility	**XID3**	XID type 3
SSB	System status block	**XIO**	Transfer input/output
SSCP	System services control point	**XRF**	Extended recovery facility
SSP	System Support Programs		

Bibliography

NCP, SSP, and EP Library

The following paragraphs briefly describe the library for NCP, SSP, and EP. Other publications related to NTuneMON, VTAM, NPSI, NetView, NTO, and NRF are listed without the accompanying descriptions.

NCP and EP Reference (LY43-0029)

This book describes various aspects of the internal processing of NCP and EP (PEP or EP Standalone). It provides information for customization and diagnosis.

NCP and EP Reference Summary and Data Areas (LY43-0030)

This two-volume book provides quick access to often-used diagnostic and debugging information about NCP and EP (PEP or EP Standalone).

NCP and SSP Customization Guide (LY43-0031)

This book helps users who are familiar with the internal logic of NCP and SSP to modify these products. It describes how to change NCP and SSP to support stations that IBM-supplied programs do not support.

NCP and SSP Customization Reference (LY43-0032)

This book supplements the *NCP and SSP Customization Guide*. It describes the resources and macroinstructions provided by IBM for customizing NCP and SSP.

NCP, SSP, and EP Diagnosis Guide (LY43-0033)

This book helps users isolate and define problems in NCP and EP (PEP or EP Standalone) using SSP. The primary purpose of the book is to help the user interact with the IBM Support Center to resolve a problem. In addition, it explains some of the diagnostic aids and service aids available with SSP.

NCP, SSP, and EP Trace Analysis Handbook (LY43-0037)

This book describes how to use the trace analysis program and how to read trace analysis program output.

NCP, SSP, and EP Generation and Loading Guide (SC31-6221)

This book provides detailed explanations of how to generate and load NCP and EP (PEP or EP Standalone) using SSP. It contains information for generating and loading under MVS, VM, and VSE.

NCP, SSP, and EP Messages and Codes (SC31-6222)

This book is a reference book of abend codes issued by NCP and EP (PEP or EP Standalone), and messages issued by the System Support Programs associated with NCP. This information is also available through the online message facility, an IBM OS/2 application available on diskette.

NCP, SSP, and EP Resource Definition Guide (SC31-6223)

This book helps users understand how to define NCP and EP (PEP or EP Standalone), using SSP. It describes functions and resources and lists the definition statements and keywords that define those functions and resources.

NCP, SSP, and EP Resource Definition Reference (SC31-6224)

This book helps users code definition statements and keywords to define NCP and EP (PEP or EP Standalone), using SSP. It also provides a quick reference of definition statement coding order and keyword syntax.

NCP V8R1, SSP V4R8, and EP R14 Library Directory (SC30-4025)

This book helps users locate information on a variety of NCP, SSP, and EP tasks. It also provides a high-level understanding of NCP, SSP, and EP and summarizes the changes to these products and to the library for NCP V8R1, SSP V4R8, and EP R14.

NCP V8R1 Migration Guide (SC30-4024)

This book helps users migrate an NCP generation definition from an earlier release to NCP V8R1. It also describes how to add new functions for NCP V8R1.

NCP Version 7 and X.25 NPSI Version 3 Planning and Installation (SC30-3470)

This book helps users plan and install support for X.25 lines in the 3745 or 3746 Model 900.

NCP Version 7 and X.25 NPSI Version 3 Diagnosis, Customization, and Tuning (LY30-5610)

This book helps users diagnose, customize, and tune X.25 lines in the 3745 or 3746 Model 900.

Other Networking Products' Libraries

The following sections summarize the libraries for cross-product information, NTuneMON, SNA Services (VTAM), NPSI, NetView, and NPM.

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Planning for NetView, NCP, and VTAM (SC31-8063)

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NTuneMON Library

NTuneMON User's Guide (SC31-6266)

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Related Publication: *NCP Tuning with NTune*, GG24-2520

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The following publications, though not directly related to this book, may be helpful in understanding your network.

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General: The following list shows selected publications with general information on TCP/IP.

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IBM TCP/IP Version 2.0 for OS/2: Installation and Administration (SC31-6075)

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IBM TCP/IP Version 2.1.1 for DOS: Installation and Administration (SC31-7047)

IBM TCP/IP Version 2.1.1 for DOS: User's Guide (SC31-7045)

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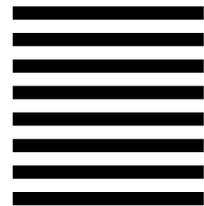Company or Organization

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