



Palo Alto  
Systems  
Center

Technical  
Bulletin

**SNA  
Product  
Installation  
Guide**

by H.J. Liberty, Jr.  
Palo Alto Systems Center

February 1979 Edition

This edition is a Major Revision and Replacement of SR20-4567 ( VTAM/NCP Installation Guide ). This guide includes samples for ACF/VTAM, ACF/NCP, ACF/TCAM, NOSP, and SNA application interfaces. This guide is also applicable to NCP users of VTAM, TCAM10, and EXTM.

Requests for copies of IBM publications should be made to your IBM representative or to the IBM branch office serving your locality. Address comments concerning the contents of this publication to:

Palo Alto Systems Center  
IBM Corporation (73G/036)  
1501 California Avenue  
Palo Alto, CA 94304, USA

(C) Copyright International Business Machines Corporation 1979

## Preface

The samples contained in this publication are provided for the support of education and installation of SNA products. The job control and sample definitions must be adjusted for each system. The samples have not been submitted to a formal IBM test. The samples are not intended to be implemented as they are shown in this material. These samples are coded to a specific network configuration and terminal features and are not compatible with any other installation configuration or processing requirements.

**CONTENTS**

CHAPTER 1 : INTRODUCTION . . . . . 1-1  
Products Supported by this document. . . . . 1-1

CHAPTER 2 : DEVELOPMENT ENVIRONMENT. . . . . 2-1  
2.1 : HARDWARE CONFIGURATION. . . . . 2-1  
2.2 : SOFTWARE RESOURCES. . . . . 2-2

CHAPTER 3 : GENERAL INFORMATION. . . . . 3-1  
3.1 : ACCESS METHOD DEPENDENCIES. . . . . 3-1  
3.2 : DEVICE MAXDATA VALUES . . . . . 3-2  
3.3 : DEVICE ERROR RECOVERY . . . . . 3-3  
3.4 : INSTALLATION SEQUENCE (VTAM). . . . . 3-4

CHAPTER 4 : VTAM SESSION PARAMETERS. . . . . 4-1  
4.1 : INTERPRET TABLE EXAMPLE. . . . . 4-3  
Sample Logon Interpret Table . . . . . 4-3  
4.2 : MODETAB EXAMPLES . . . . . 4-4  
Sample MODETAB for IBM 3767. . . . . 4-4  
Sample MODETAB for 3270 (3271 and 3272 Control Units). . . . . 4-5  
Sample MODETAB for 3770 SDLC . . . . . 4-6  
Sample MODETAB for IBM 3790. . . . . 4-7  
MODETAB information for 3276 and 3274. . . . . 4-8  
Sample MODETAB for IBM 3274-1A (Local Attached). . . . . 4-10  
Sample MODETAB for IBM 3274-1C (Remote). . . . . 4-11  
Sample MODETAB for IBM 3276 (Remote) . . . . . 4-12  
Sample MODETAB for IBM 3287 and 3289 Printers. . . . . 4-13  
4.3 : USSTAB EXAMPLES. . . . . 4-14  
USSTAB for 3271 SDLC or BSC(ACF/VTAM only). . . . . 4-14  
USSTAB for 3767 SDLC . . . . . 4-19  
USSTAB for 3770 SDLC . . . . . 4-20  
USSTAB for 3274/3276 SDLC. . . . . 4-21

CHAPTER 5 : SAMPLE SYSTEM DEPENDENT JCL. . . . . 5-1  
5.1 : DOS/VS Samples . . . . . 5-1  
DOS/VS System Definition(Partial). . . . . 5-2  
DOS/VS POWER Definition. . . . . 5-7  
DOS/VS VTAM or ACF/VTAM Network Install JCL. . . . . 5-9  
DOS/VS VTAM or ACF/VTAM Start Parameter Definition Example . . . . 5-9  
DOS/VS VTAM Start Definition (Test - Replaces Initial) . . . . . 5-10  
DOS/VS ACF/VTAM Start Parameter Definition (Test). . . . . 5-11  
DOS/VS Start Definition With Auto-Start of VTAM Traces . . . . . 5-12  
DOS/VS VTAM Application Parameter Example. . . . . 5-13



DOS/VS ACF/VTAM Application Parameter Example. . . . .	.5-14
DOS/VS Network Configuration Definition. . . . .	.5-15
DOS/VS USSTAB Installation JCL. . . . .	.5-16
DOS/VS MODETAB Installation JCL. . . . .	.5-16
DOS/VS Interpret Table Installation JCL. . . . .	.5-16
DOS/VS Example for Linking 3704/5 Load Utility CSECTs to VTAM. . . . .	.5-17
DOS/VS Example for Installing 3704/5 Initial Tests . . . . .	.5-17
DOS/VS VTAM Start Procedure. . . . .	.5-18
DOS/VS ACF/VTAM Start Procedure (One NCP). . . . .	.5-19
DOS/VS NCP Stage 1 Generation JCL. . . . .	.5-20
DOS/VS Example of Stage 2 NCP Generation JCL . . . . .	.5-21
DOS/VS JCL to store NCP Object Modules from Stage 2. . . . .	.5-21
DOS/VS Sample for Moving NCP Load Module . . . . .	.5-22
DOS/VS Sample JCL to Dump a 3705 and Print the Dump. . . . .	.5-23
DOS/VS Sample JCL to Print a 3705 Dump Taken by VTAM . . . . .	.5-23
5.2 : OS/VS1 Samples . . . . .	.5-24
OS/VS1 System Generation Macro Instructions. . . . .	.5-24
OS/VS1 System Parameter Definitions. . . . .	.5-28
OS/VS1 Start Parameter Definition (VTAM AND ACF/VTAM). . . . .	.5-29
OS/VS1 VTAM Start Parameter Definition (TEST). . . . .	.5-30
OS/VS1 ACF/VTAM Start Parameter Definition (TEST). . . . .	.5-31
OS/VS1 VTAM Application Definition Example . . . . .	.5-32
OS/VS1 ACF/VTAM Application Definition Example . . . . .	.5-33
OS/VS1 NCP Definition Example. . . . .	.5-34
OS/VS1 Configuration Definition. . . . .	.5-35
OS/VS1 USSTAB Installation JCL . . . . .	.5-36
OS/VS1 MODETAB ASSEMBLY. . . . .	.5-36
OS/VS1 Interpret Table Installation JCL. . . . .	.5-36
OS/VS1 Example of Start Procedure (VTAM or ACF/VTAM) . . . . .	.5-37
OS/VS1 RTAM GENERATION Sample. . . . .	.5-38
OS/VS1 JCL for GTF Procedure and Parameters for VTAM Trace to Tape. . . . .	.5-39
OS/VS1 JCL for Printing VTAM Trace Records . . . . .	.5-40
5.3 : OS/SVS (OS/VS2 R1.7) Samples. . . . .	.5-41
OS/SVS System Generation Macro Instructions. . . . .	.5-42
ACF/VTAM Parameter Definitions. . . . .	.5-43
OS/SVS Start Parameter Definition Example. . . . .	.5-43
OS/SVS VTAM Application Definition Example . . . . .	.5-44
OS/SVS NCP Definition Example. . . . .	.5-45
OS/SVS Configuration Definition. . . . .	.5-46
OS/SVS Sample Installation JCL for USSTAB. . . . .	.5-47
OS/SVS Sample JCL for Interpret Table Installation . . . . .	.5-47
OS/SVS Example of Start Procedure. . . . .	.5-48
OS/SVS JCL for GTF Procedure and Parameters for VTAM Trace to Tape. . . . .	.5-49
OS/SVS JCL for Printing VTAM Trace Records . . . . .	.5-50
5.4 : OS/MVS Samples. . . . .	.5-51
OS/MVS System Generation Macro Instructions. . . . .	.5-51

OS/MVS System Parameter Definitions. . . . .	5-54
OS/MVS JES2 Parameter Definitions(VTAM or ACF/VTAM). . . . .	5-57
OS/VS Start Parameter Definition (VTAM AND ACF/VTAM) . . . . .	5-58
OS/MVS VTAM Start Parameter Definition (TEST). . . . .	5-59
OS/MVS ACF/VTAM Start Parameter Definition (TEST). . . . .	5-60
OS/MVS VTAM Application Definition Example . . . . .	5-61
OS/MVS ACF/VTAM Application Definition Example . . . . .	5-62
OS/MVS NCP Definition Example. . . . .	5-63
OS/MVS VTAM configuration Definition . . . . .	5-64
OS/MVS ACF/VTAM Configuration Definition . . . . .	5-64
OS/MVS Example of Logon Table Generation . . . . .	5-65
OS/MVS MODETAB ASSEMBLY. . . . .	5-65
OS/MVS Example of Start Procedure. . . . .	5-66
5.5 : OS/VS Samples (Common Code). . . . .	5-67
VTAM File Allocation Sample for OS/VS1 . . . . .	5-68
VSAM Data Set Allocation for VTAM. . . . .	5-68
NCP File Allocation and Installation Sample for OS/VS (2314) . . . . .	5-70
NCP Installation Continued, Update Linklist. . . . .	5-71
NCP JOB Control for Stage 1 - OS/VS. . . . .	5-72
OS/VS NCP Load Sample. . . . .	5-73
Sample JCL to Dump and Print NCP on OS/VS. . . . .	5-73
Sample JCL for Starting and Stopping VTAM Trace. . . . .	5-74
Sample JCL for Printing TCAM Trace Records . . . . .	5-75
Sample JCL for Running TCAM. . . . .	5-76
CHAPTER 6 : ACF/TCAM SAMPLE. . . . .	6-1
ACF/TCAM SAMPLE MCP. . . . .	6-2
ACF/TCAM 3270 Local Terminals. . . . .	6-7
ACF/TCAM CDRM Definition . . . . .	6-7
ACF/TCAM 3270 Model 12 . . . . .	6-8
ACF/TCAM 3274 Leased Line. . . . .	6-8
ACF/TCAM 3276 Leased Line. . . . .	6-9
ACF/TCAM BSC 3270. . . . .	6-9
ACF/TCAM Bind Parameters . . . . .	6-26
ACF/TCAM USS TABLES . . . . .	6-28
CHAPTER 7 : SAMPLE NCP SOURCE. . . . .	7-1
7.1 : Sample NCP for 3704. . . . .	7-3
7.2 : Sample NCP for 3705 (Multi-purpose). . . . .	7-13
PCCU Specifications - OS/VS (VTAM) . . . . .	7-13
PCCU Specifications for DOS/VS(VTAM) . . . . .	7-13
PCCU Specifications for ACF/VTAM OS/VS. . . . .	7-14
PCCU Specifications for ACF/VTAM DOS/VS . . . . .	7-14
BUILD Macro Specifications for OS/VS . . . . .	7-15
BUILD Macro Specifications DOS/VS. . . . .	7-16
BUILD Macro Specifications for OS/VS (Two Channels). . . . .	7-17
SYSCNTRL Options for VTAM and TCAM . . . . .	7-18
HOST Macro Specifications OS/VS (VTAM) . . . . .	7-18

HOST Macro Specifications DOS/VS (VTAM) . . . . .	7-18
HOST Macro Specifications ACF/TCAM or TCAM 10. . . . .	7-19
HOST Macro Specifications ACF/VTAM . . . . .	7-19
PATH Macro Specifications ACF. . . . .	7-20
CSB Macro Specifications . . . . .	7-20
LUPPOOL Macro Specification . . . . .	7-20
MTA Support. . . . .	7-21
2740 Multi-drop Line . . . . .	7-22
3767 Switched Line at 300 BAUD Start/Stop. . . . .	7-23
2741 Switched Line at 134 BAUD Start/Stop. . . . .	7-24
Switched TWX Group . . . . .	7-25
Switched BSC Line Group. . . . .	7-26
PT. to PT. BSC lines . . . . .	7-27
3270 BSC Specifications. . . . .	7-29
CLUSTER Macro for 3275 . . . . .	7-33
GROUP Specifications for SDLC Leased Lines . . . . .	7-34
LINE Macro Specification - Half-Duplex, Leased . . . . .	7-34
LINE Macro Specification - Half-Duplex, Leased, Internal Clock . . . . .	7-34
SDLC Line Macro Specification Full Duplex Link . . . . .	7-35
SDLC Duplex Line Specification (Single Port) . . . . .	7-35
SERVICE Macro for SDLC Link. . . . .	7-35
3790 PU Macro Specification. . . . .	7-36
3790 Logical Unit Specifications . . . . .	7-36
3600 CLUSTER Macro Specification . . . . .	7-37
3600 Logical Unit Specifications . . . . .	7-37
3650 CLUSTER Macro Specification . . . . .	7-38
3650 Logical Unit Specifications . . . . .	7-38
3777 PU Specification . . . . .	7-39
3770 LU Specification. . . . .	7-39
3770 PU Specification (MLU). . . . .	7-40
3770 LU Specification (MLU). . . . .	7-40
3271 SDLC PU Specification . . . . .	7-41
3271 LU Specification. . . . .	7-41
3274 SDLC PU Specification . . . . .	7-42
3767 PU Specification. . . . .	7-44
3767 LU Specification. . . . .	7-44
SDLC Dial Group Specifications . . . . .	7-45
SDLC LINE Macro Specification - Half-Duplex, Switched. . . . .	7-45
PU Macro Specification for Switched Link . . . . .	7-45
Specifications for Remote NCP. . . . .	7-46
Block Handler Definitions. . . . .	7-47
GENEND Delimiter . . . . .	7-47
CHAPTER 8 : SWITCHED SNA DEFINITIONS . . . . .	8-1
VBUILD Macro Specifications - Switched . . . . .	8-2
IBM 3790 Switched Definition . . . . .	8-2
IBM 3650 Switched Definition . . . . .	8-3
IBM 3770 Switched Definition . . . . .	8-5

IBM 3767 Switched Definition . . . . .	8-6
CHAPTER 9 : LOCAL DEVICE DEFINITIONS . . . . .	9-1
VBUILD Macro Specifications - Local 3274-1A. . . . .	9-2
IBM 3274-1A PU Definition . . . . .	9-2
IBM 3274-1A LU Definition . . . . .	9-3
Local(3270) Terminal Definition (VTAM). . . . .	9-4
Local SNA(3790) Definition(VTAM) . . . . .	9-5
ACF/VTAM Local 3277 Terminal Definition. . . . .	9-6
CHAPTER 10 : MSNF NETWORK DEFINITIONS. . . . .	10-1
10.1 : NETWORK DEFINITIONS (AUTO-STARTED). . . . .	10-2
VTAM Startup Configuration Definition. . . . .	10-2
VBUILD Macro Specifications - CDRM: CDRMLIST (MVS System). . . . .	10-2
VBUILD Macro Specifications - CDR Paths: CDRPATH (MVS System). . . . .	10-2
VBUILD Macro Specifications - CDRSC: CAPLSDOS (DOS Application). . . . .	10-2
VBUILD Macro Specifications - CDRSC: CAPLSTCM (TCAM Applications). . . . .	10-3
10.2 : NETWORK DEFINITIONS (ACTIVATED AS REQUIRED) . . . . .	10-3
VBUILD Macro Specifications - CDRSC: C3270DOS (DOS owned 3270) . . . . .	10-3
VBUILD Macro Specifications - CDRSC: C3270TCM (TCAM owned 3270). . . . .	10-3
VBUILD Macro Specifications - CDRSC: C3274DOS (DOS owned 3274) . . . . .	10-4
VBUILD Macro Specifications - CDRSC: C3274TCM (TCAM owned 3274). . . . .	10-4
CHAPTER 11 : NOSP INSTALLATION . . . . .	11-1
NOSP Installation Pre-Planning . . . . .	11-1
NOSP Documentation . . . . .	11-3
NOSP Installation Steps. . . . .	11-3
NOSP Operational Considerations. . . . .	11-5
SPECIAL NOSP Installation Considerations . . . . .	11-7
NOSP Installation Examples . . . . .	11-8
NOSP Flow. . . . .	11-14
CHAPTER 12 : SNA APPLICATION INTERFACES. . . . .	12-1
CICS/VS R1.4 Terminal Control Table (DFHTCT) . . . . .	12-2
CICS Local 3272. . . . .	12-3
CICS Remote 3271 . . . . .	12-3
CICS Local 3274. . . . .	12-4
CICS Remote 3274 . . . . .	12-5
CICS Remote 3767 . . . . .	12-6
CICS Remote 3774 . . . . .	12-7
IMS/VS Nucleus Generation. . . . .	12-8
IMS Remote 3770. . . . .	12-13
IMS Local 3274 . . . . .	12-14
IMS Remote 3274 Printers . . . . .	12-14
IMS Remote 3276 Printer. . . . .	12-15
IMS Remote 3790 Printers . . . . .	12-15
IMS Remote 3790 Type 2 Batch . . . . .	12-15
IMS SLUTYPE2 Displays. . . . .	12-16

IMS Remota 3790. . . . .	12-19
IMS Remote 3770 Programmable . . . . .	12-19
IMS Remote 3270. . . . .	12-21
INDEX. . . . .	I-1



## CHAPTER 1 : INTRODUCTION

The purpose of this guide is to provide information that may help in installing SNA products on either a DOS/VS or OS/VS operating system. This document provides samples which are coded to a specific network configuration and terminal hardware. The samples included in this document are included only as a guide and should be updated for a specific installation.

The samples in this guide will support the following products: IMS/VS, CICS/VS, TSO, JES2(MVS), RTAM(VS1), VTAM, ACF/VTAM, ACF/TCAM, TCAM 9, TCAM 10, NCP/VS (Rel. 5), ACF/NCP/VS, RES (VS1), VSPC, and NOSP. Unless otherwise directed by the specific product guides, these coding samples are recommended for initial system checkout. Every attempt has been made to provide coding samples that are compatible with all of the IBM programs that support SNA.

### PRODUCTS SUPPORTED BY THIS DOCUMENT

Advanced Communications Function for the Network Control Program/Virtual Storage (ACF/NCP/VS)

Advanced Communications Function for the Telecommunications Access Method (ACF/TCAM)

Advanced Communications Function for the Virtual Telecommunications Access Method (ACF/VTAM)

Virtual Storage Access Method (VSAM)

Customer Information Control System/Virtual Storage (CICS/VS)

Information Management System/Virtual Storage (IMS/VS)

Virtual Storage Personal Computing (VSPC)

Network Operation Support Program (NOSP)

Disk Operating System/Virtual Storage (DOS/VS)

**Operating System/Virtual Storage 1 (OS/VS1)**

**Remote Entry System (RES)**

**Remote Terminal Access Method (RTAM)**

**Operating System/Virtual Storage 2 (OS/VS2)**

**Multiple Virtual Storage (MVS)**

**Single Virtual Storage (SVS)**

**Time Sharing Option (TSO)**

**Job Entry Subsystem 2 (JES2)**

**Telecommunications Access Method (TCAM)**

**Virtual Telecommunications Access Method (VTAM)**

**2741 Communications Terminal (2741)**

**2740 Communications Terminal (2740)**

**TWX Line Control Type (TWX)**

**3270 Information Display System (3270)**

**3600 Finance Communication System (3600)**

**3650 Retail Store System (3650)**

**3767 Communication Terminal (3767)**

**3770 Data Communication System (3770)**

**3790 Communication System (3790)**

**3704/3705 Network Control Program/Virtual Storage (NCP/VS)**



CHAPTER 2 : DEVELOPMENT ENVIRONMENT

2.1 : HARDWARE CONFIGURATION

In the samples of this publication the following hardware was used:

The central processor is a System/370 Model 158. The DOS/VS system was defined with 8.0 megabytes of real storage and 2.0 megabytes of virtual. Two 3340 drives are defined for the DOS/VS testing and operation. Two 3330's are defined for the OS/VS1 system plus a DASD work pack. The OS/VS2 (MVS) system required two 3330 Model 1's, two 3330 Model 11's, and one 3340 disk drives. The MVS system was defined with 6 Megabytes of real storage. Two 3705's are defined for sample purposes. One has 112K of storage and Channel Adapter Type 2. The second 3705 is a Model 2 with 256K of storage and two Channel Adapter Type 4's. All IBM 3270 products were available, various models of the IBM 377X product family were tested, and a IBM 3790 was used on dial facilities.

## DEVELOPMENT ENVIRONMENT

### 2.2 : SOFTWARE RESOURCES

#### PROGRAMS INSTALLED

##### NCP/VS

Network Control Program/VS-OS/VS (Program number 5744-BA2)

Network Control Program/VS-DOS/VS (Program number 5747-AJ2)

##### ACF/NCP

NCP/SSP (Required for ACF/NCP) (Program number 5747-CH1)

ACF/NCP SSP (Program number 5735-XX3)

ACF/NCP PP (Program number 5735-XX1)

##### DOS/VS

Disk Operating System/VS (Program Number 5745-010)

##### OS/VS

OS/VS1 Release 6.0 (Program number 5741-VS1)

OS/VS2 Release 3.7 (Program number 5752-VS2)

##### VTAM

VTAM for DOS/VS (Program Number 5745-010)

VTAM (MVS) SU 1 (Program number 5752-VS2)

##### TCAM/VS

TCAM 9 (MVS) SU 2 (Program number 5752-VS2)

TCAM 10 (MVS) SU 36 (Program number 5752-VS2)

DEVELOPMENT ENVIRONMENT

ACF/TCAM V1

ACF/TCAM SCP SU59 (Program number 5735-RC1)

ACF/TCAM BASE SU59 (Program number 5735-RC1)

ACF/TCAM MSNF SU59 (Program number 5735-RC1)

ACF/VTAMR1

ACF/VTAM Release 1 (DOS/VS) (Program Number 5747-RC3)

VTAM SCP for ACF/VTAM SU 40

ACF/VTAM SU 35 for MVS (Program number 5735-RC2)

ACF/VTAM Mutisystem Networking Facility

(MSNF) SU 34 for MVS (Program number 5735-RC2)

NOSP

Network Operation Support Program

SU 45 (Program number 5735-XX2)

IMS/VS

IMS/VS V1 R1.4 (Program number 5740-XX2)

IMS/VS V1 R1.5 (Program number 5740-XX2)

CICS/VS

CICS/VS VIR3.0 (PTF 502) (Program number 5740-XX1)

**DEVELOPMENT ENVIRONMENT**

CHAPTER 3 : GENERAL INFORMATION

3.1 : ACCESS METHOD DEPENDENCIES

The following table provides access method dependencies for specific NCP generation macros.

Access Method	NCP		Macro's		HOST		
	PCCU Macro		BUILD Macro		Macro		
			MAXSUBA	MAXBFRU	UNITSZ	BFRPAD	STATMOD
VTAM/DOS	ONLY		Default=15	REQUIRED	DEFAULT=88	=15	=NO/YES
VTAM/OS	ONLY		DEFAULT=15	REQUIRED	DEFAULT=84	=28	=YES
ACF/VTAM	ONLY		DEFAULT=15	REQUIRED	DEFAULT=64	=0	=YES
TCAM 10 and ACF/TCAM	NA		(INTRO MACRO)		UNITSZ= KEYLEN=>44 (INTRO Macro) 148 to 156(START)	MIN=17	=YES
EXTM	NA		DEFAULT=31 (ETMCFG Macro)	=10 (ETMCFG Macro)	DEFAULT=156 (ETMCFG Macro)	=2	=NO
NCP	NA		NO DEFAULTS		NO DEFAULT	=28	=NO

## GENERAL INFORMATION

### 3.2 : DEVICE MAXDATA VALUES

The following table specifies the MAXDATA value (PU macro) for various SNA physical units operating on an SDLC link. The MAXDATA operand must not be defaulted.

<u>DEVICE</u>	<u>VALUE = BYTES</u>
IBM 3271/3275	261 - Maximum Value, Segmentation allowed.
IBM 3274/3276	265 - Maximum Value, Segmentation allowed.
IBM 3600	VARIABLE - Function of buffer size defined in CPGEN(3600).
IBM 3614	265 if not connected to 360X.
IBM 3650	265 - Required value, segmentation not allowed.
IBM 3767	261 - Required value, segmentation not allowed.
IBM 3774/3775	265 - Required value, segmentation not allowed.
IBM 3776/3777	265/521 - Required value, segmentation not allowed. Host application must support same value. The NCP can be generated with 521 and the actual value specified in the Bind for the application to LU session.
IBM 3790	265 - Required value, segmentation not allowed for 'Batch' sessions. Segmentation allowed for DSC LU's.

3.3 : DEVICE ERROR RECOVERY

The following table lists the recommended values for the RETRIES operand in the NCP 'LINE' and 'PU' macros.

\* RETRIES OPERAND

OPERAND

,RETRIES = ( m,t,n)  
 where m = immediate retries,  
       t = pause between retries,  
 and n = retry cycles.

for SDLC, if REPLYTO = 1, M = 5, t = 10, n = 3,  
 then:  
 retry cycle = (( 5 X 1 ) + 10 ) X 3 ) + ( 5 X 1 ) = 50 SECONDS

<u>DEVICE</u>	<u>RECOVERY SEQUENCE REQUIREMENT</u>
IBM 3600	- function of 3600 CPGEN, value should be less than 3600 generated time.
IBM 3650	- 50 to less than 60 seconds.
IBM 3767	- greater than 20 seconds.
IBM 3790	- adjust for link quality, 60 seconds as a start.
IBM 3770	" "
IBM 3270 (SDLC)	" "

## GENERAL INFORMATION

### 3.4 : INSTALLATION SEQUENCE (VTAM)

This installation sequence is only a guide and many steps are omitted.

#### OBTAIN MANUALS.

Order all manuals necessary for the appropriate operating system.

#### ORDER PROGRAMS

All the programs should be obtained from PID.

#### SYSTEM INSTALLATION

Determine the hardware configuration required for the system. The system design has to be approached from multiple levels. At least look at it with the following approaches:

##### \* PHYSICAL CONFIGURATION

It is necessary to plan the hardware configuration in order to generate the NCP load module, the local 3277 definition for VTAM, and the I/O assignments for the system generation phase.

##### \* OPERATING SYSTEM

The operating system will only be concerned with the devices locally attached to the system. When generating the operating system, special consideration must be given for the VTAM parameters, including the size of the partitions for DOS and the VTAM workspace for OS/VS1.

The following steps should allow the user to bring up the system and allow operation at various check points.

#### 1. SYSTEM DEFINITION

Unless using OS/VS2, the default buffer parameters should not be used. The samples in this document can be used, providing the network is similar to the samples. Care should be taken in the specification of LFBUF(DOS/VS) and IOBUF(OS/VS) to insure that the values for UNITSZ and MAXBFRU defined in the NCP are used to calculate the buffer values. The quantity of LFBUF or IOBUF must exceed the requirement for MAXBFRU. The MAXSUBA value in the start definition should agree with the NCP value. All SUBAREA values should be checked to insure each major node has an



exclusive value.

## 2. START CONFIGURATION

If local 3277's are available, the initial configuration should only include the local 3277's and the application definition node. After these two nodes are active, then the NCP portion of the system can be checked out. If VTAM indicates an error in the node definition, it may not be necessary to stop VTAM. If the node did not become active, the node definition can be updated, and varied active by the console operator. If the node was activated by VTAM, the node must be varied inactive. In addition, if the system is OS/VS, the node name must be deleted from the SYS1.VTAMOBJ data set. Otherwise, when the node is activated again, the old definition will still be used even though the definition source was updated.

## 3. LOCAL 3270 DEFINITION

For the first testing phase, the local definition should not include a LOGTAB or a LOGAPPL statement. All unavailable 3277's or 328x's should be defined with an ISTATUS=INACTIVE. Only one 3277 is required to check out that VTAM has initialized and that a VTAM user application works. before the 'LOGTAB' operand is added, an Interpret table must be assembled, link-edited and stored in SYS1.VTAMLIB, if OS/VS, or the core-image library, if DOS. The 'LOGAPPL' operand may be used, if the application name is 'NETSOL' or the application name is defined in the application definition. The application program need not be available.

## GENERAL HINTS

NRZI defaults to yes on a SDLC line. Normally, NRZI can be used with most modems. IBM integrated modems and the IBM 3872 require NRZI=YES. When in doubt, specify NRZI=NO, and monitor MDR recordings for line errors and change if required. All SDLC PU types 1 and 2 will work without NRZI.

NETSOL can be used to check out most basic devices before trying them with an application program. It may easily be modified to provide special test messages. NETSOL can be run in its own region if appropriate JCL is generated.

Remote 3270's will not be polled unless they are logged on to an application program.

## GENERAL INFORMATION

Dial ports will disconnect if not logged on to an application program before being used.

To help determine the error condition, the use of line trace on the failing line should be considered. Also, before varying the cluster active, start IO trace on the NCP and the cluster.

## GENERAL OPERATING CONSIDERATIONS

Retain information should always be obtained for VTAM and NCP. There are problems described in Retain that can be bypassed by controlling operating procedures.

The 370X, if required, will always be loaded when activated by VTAM if ANS is not specified in the NCP 'BUILD' macro and the NCP was not deactivated normally. If using PEP, ANS must be specified if VTAM is not to load the 370X. If the 370X does not contain the desired NCP load module, VTAM will load the 370X with out operator intervention.

Use of the 'F TPRINT' command to print trace records during production should be avoided because 'TPRINT' will degrade the DOS/VS system. In fact, most DOS and VTAM operations appear to wait until the TPRINT operation is completed. It may be necessary to develop a print application program that operates in one of the other partitions, instead of having VTAM do this function.

If you give a command to activate a NCP that is already active, VTAM will try to activate all elements of the network defined to VTAM. This can cause a considerable slowdown as the NCP tries to activate terminals, clusters, etc., that may not be operational. It is recommended that you define to VTAM only those resources that are physically available.

An application programmer should expect one character messages from 3270's and test for 'CLEAR' and 'PF' keys.

When using the 3600, the 3600 must respond to the 'CLEAR' and the 'UNBIND' in order to terminate a session. An application program running under DOS VTAM may not be cancelled until a response is sent back to VTAM. Always specify the time-out value in the 3600 CPGEN as greater than the total retry time of the NCP.

VTAM SESSION PARAMETERS

CHAPTER 4 : VTAM SESSION PARAMETERS

The following table indicates when VTAM 'only' parameters are required. The examples throughout the guide indicate the use of these parameters. The MODETAB and USSTAB examples include support for most applications. The should be modified to support only the applications required by the user.

	VTAM II	ACF/VTAM	START STOP	3272 LOCAL	BSC 3270	OTHER BSC	SDLC
LOGTAB	YES	ONLY IF NETSOL	YES	NETSOL YES	VTAM II YES; ACF/VTAM NO IF PU = YES	YES	NO
USSTAB	YES	YES	NO	NO (Note 1)	ACF/VTAM IF PU = YES	NO	YES
MODETAB	SNA ONLY	YES	NO	ACF/VTAM YES	ACF/VTAM YES	NO	YES
DLOGMOD	NO	ACF/VTAM ONLY	NO	ACF/VTAM YES	ACF/VTAM YES	NO	YES
SSCPFM	YES	YES	NO	NO	YES	NO	YES
BNNSUP	YES	YES	NO	NO	NO	NO	3271 ONLY

VTAM SESSION CONTROL PARAMETERS

VTAM SESSION PARAMETERS

	SNA	IBM DEFAULT	USER SUPP	COMMENTS
LOGTAB	NO	NO	YES	REQUIRED FOR NON-SDLC LOGON VIA NETSOL.
USSTAB	YES	YES (LOGON APPLID)	YES	USSTAB OR FOR BOTH DOS/V5 AND OS/V5 LOGON (USSTAB PREFERRED).
MODETAB	YES	YES (3767)	YES ONE MODETAB PREFER.	REQUIRED IF APPLICATION DOES NOT SUPPLY BIND PARAMETERS. THE DEFAULTS ARE NOT USABLE.
DLOGMOD	YES	NO	YES	POINTS TO ENTRY IN INDICATED OR IBM SUPPLIED MODETAB.
SSCPFM	YES	YES	YES	VTAM SUPPLIED LEADING GRAPHICS: 1) FORMATTED, DEFAULT 3600, 3650, 3790; 2) UNFORMATED USSSCx 3274, 3276, 3770; 3) 3271 BSC. USS 3270
BNNSUP	YES	YES	NO	REQUIRED FOR IBM 3271 Model 11/12

Note 1 - Yes for ACF/VTAM Version 2.

VTAM SESSION CONTROL PARAMETERS(CONT.)

4.1 : INTERPRET TABLE EXAMPLE

## SAMPLE LOGON INTERPRET TABLE

The following interpret table can be used with all levels of VTAM. It is only used by NETSOL and need not be coded if NETSOL is not used. NETSOL is normally required for devices supported by applications using the 'BASIC' mode interface. An interpret table is not required for remote 3271 BSC controllers when interfacing to ACF/VTAM.

```

*****
*   SOURCE FOR LOGON INTERPRET TABLE   *
*****
LOGTAB  INTAB
        LOGCHAR APPLID=(APPLICID,VAPPL),SEQNCE='VAPPL'
        LOGCHAR APPLID=(APPLICID,VAPPL),SEQNCE='vappl'
        LOGCHAR APPLID=(APPLICID,CICS),SEQNCE='CICS'
        LOGCHAR APPLID=(APPLICID,CICS),SEQNCE='cics'
        LOGCHAR APPLID=(APPLICID,VTAMWHO),SEQNCE='WHO'
        LOGCHAR APPLID=(APPLICID,VTAMWHO),SEQNCE='who'
        LOGCHAR APPLID=(APPLICID,NOSP1),SEQNCE='NOSP'  ACF/VTAM ONLY
        LOGCHAR APPLID=(APPLICID,NOSP1),SEQNCE='nosp'  ACF/VTAM ONLY
        LOGCHAR APPLID=(APPLICID,TSO),SEQNCE='LOGON'   3277/MVS ONLY
        LOGCHAR APPLID=(APPLICID,TSO),SEQNCE='logon'   3277/MVS ONLY
        LOGCHAR APPLID=(APPLICID,ISTOLTEP),SEQNCE='TEST'
        LOGCHAR APPLID=(APPLICID,ISTOLTEP),SEQNCE='test'
        LOGCHAR APPLID=(APPLICID,IMS),SEQNCE='IMS'    OS/VS ONLY
        LOGCHAR APPLID=(APPLICID,IMS),SEQNCE='ims'    OS/VS ONLY
        LOGCHAR APPLID=(APPLICID,INQUIRY),SEQNCE='INQUIRY'
        LOGCHAR APPLID=(APPLICID,INQ),SEQNCE='INQ'
        ENDINTAB
        END

```

NOTES- The interpret table is required in order to allow non-SDLC and local 3270(NON-SNA) terminals to 'logon' to application programs via the Network Solicitor. The appropriate System Programmers Guide for VTAM or ACF/VTAM describes the generation and purpose of the interpret table.

## VTAM SESSION PARAMETERS

### 4.2 : MODETAB EXAMPLES

#### SAMPLE MODETAB FOR IBM 3767

##### ALL3767 MODETAB

```
MODEENT LOGMODE=INTERACT,FMPROF=X'03',TSPROF=X'03',           X
      PRIPROT=X'B1',SECPROT=X'A0',COMPROT=X'3040'
MODEENT LOGMODE=IMSEXP,FMPROF=X'03',TSPROF=X'03',           X
      PRIPROT=X'B1',SECPROT=X'90',COMPROT=X'3040'
MODEENT LOGMODE=DEFFLIP,FMPROF=X'03',TSPROF=X'03',           X
      PRIPROT=X'F9',SECPROT=X'E8',COMPROT=X'3081'
MODEENT LOGMODE=EXECFLIP,FMPROF=X'03',TSPROF=X'03',           X
      PRIPROT=X'F9',SECPROT=X'D8',COMPROT=X'3081'
MODEENT LOGMODE=EXECCONT,FMPROF=X'03',TSPROF=X'03',           X
      PRIPROT=X'F9',SECPROT=X'D9',COMPROT=X'3041'
MODEENT LOGMODE=BOB,FMPROF=X'03',TSPROF=X'03',               X
      PRIPROT=X'F9',SECPROT=X'D8',COMPROT=X'3080'
MODEEND
END
```

NOTES- Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3767 should also be referenced.

VTAM SESSION PARAMETERS

SAMPLE MODETAB FOR 3270 (3271 AND 3272 CONTROL UNITS).

```
*****
* MODE TABLE FOR 3277 LOCAL (3272 Control Unit)
* MODE TABLE FOR 3277 REMOTE (3271 Control Unit Model 11/12)
* MODE TABLE FOR 3277 REMOTE (3271 Control Unit Model 1/2)
*****
NOSP TAB  MODETAB
          MODEENT LOGMODE=DSILGMOD,                                X
          FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',                X
          SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',          X
          PSERVIC=X'0000000000000000000000000200'
          MODEENT LOGMODE=S3270,                                    X
          FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',                X
          SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',          X
          PSERVIC=X'0000000000000000000000000200'
          MODEEND
          END
```

NOTES- This MODETAB is required if sessions are to be initiated by the application or the terminal contains a LOGAPPL parameter. This MODETAB is also required for ACF/VTAM. The DSILGMOD entry is required for ACF/NOSP.

VTAM SESSION PARAMETERS

SAMPLE MODETAB FOR 3770 SDLC

```
MODE3770 MODETAB
BAT13770 MODEENT LOGMODE=BAT13770,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B*
      1',SECROT=X'B0',COMPROT=X'7080',RUSIZES=X'8585',      *
      PSERVIC=X'013100000000080000000000'
MODEENT LOGMODE=BATCH,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'A3',SECROT=X'A1',COMPROT=X'7080',      X
      RUSIZES=X'8585'
MODEENT LOGMODE=INTERACT,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'B1',SECROT=X'A0',COMPROT=X'3040'
MODEENT LOGMODE=NOCOMP,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'A1',SECROT=X'A1',COMPROT=X'7080'
MODEENT LOGMODE=COMP,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'A3',SECROT=X'A3',COMPROT=X'7080'
MODEENT LOGMODE=ASCII,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'A1',SECROT=X'A1',COMPROT=X'7880'
MODEENT LOGMODE=BUF512,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'A3',SECROT=X'A3',COMPROT=X'7080',      X
      RUSIZES=X'8686'
MODEENT LOGMODE=BUF256,FMPROF=X'03',TSPROF=X'03',      X
      PRIPROT=X'A3',SECROT=X'A3',COMPROT=X'7080',      X
      RUSIZES=X'8585'
MODEENT LOGMODE=CMPACT,FMPROF=3,TSPROF=3,PRIPROT=X'A3',      X
      SECROT=X'A1',COMPROT=X'7080',RUSIZES=X'8585',      X
      PSERVIC=X'01106000F100808000010040'
MODEEND
END
```

NOTES- Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3770 should also be referenced.



SAMPLE MODETAB FOR IBM 3790

```

*****
* MODETAB FOR 3790
*****
MODE3790 MODETAB
BAT13790 MODEENT LOGMODE=BAT13790,FMPROF=X'03',TSPROF=X'03',          X
        PRIPROT=X'00',SECPROT=X'00',COMPROT=X'0000'
INQ3790  MODEENT LOGMODE=INQUIRY,FMPROF=X'03',TSPROF=X'03',          X
        PRIPROT=X'B1',SECPROT=X'A0',COMPROT=X'3040'
* The following MODEENT is required for TSO via ACF/VTAM.
EMU3790  MODEENT LOGMODE=EMU3790,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1*
        ',SECPROT=X'B0',COMPROT=X'3080',RUSIZES=X'85C7',          *
        PSERVIC=X'020000000000000000000200'
RJE3790A MODEENT LOGMODE=RJE3790A,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'A*
        3',SECPROT=X'A1',COMPROT=X'7080',RUSIZES=X'8585',          *
        PSERVIC=X'01106000F100800000010040'
RJE3790B MODEENT LOGMODE=RJE3790B,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'A*
        3',SECPROT=X'A1',COMPROT=X'7080',RUSIZES=X'8585',          *
        PSERVIC=X'01102000F100800000010040'
BAT23790 MODEENT LOGMODE=BAT23790,FMPROF=X'03',TSPROF=X'04',PRIPROT=X'B*
        1',SECPROT=X'B0',COMPROT=X'7080',RUSIZES=X'8585',          *
        PSERVIC=X'013100000000000000000000'
BLK3790  MODEENT LOGMODE=BLK3790,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1*
        ',SECPROT=X'B0',COMPROT=X'3080',RUSIZES=X'8585',          *
        PSERVIC=X'010000000000000000000000'
SCS3790  MODEENT LOGMODE=SCS3790,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1*
        ',SECPROT=X'B0',COMPROT=X'3080',RUSIZES=X'8585',          *
        PSERVIC=X'010000000000000000000000'
DSILGMOD MODEENT LOGMODE=DSILGMOD,FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B*
        1',SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'85C7',          *
        PSERVIC=X'02000000000000000000000200'
        MODEEND
        END

```

NOTES- Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3790 should also be referenced. The MODEENT 'EMU3790' is required to support the Data Stream Compatibility interface with TSO.

## VTAM SESSION PARAMETERS

### MODETAB INFORMATION FOR 3276 AND 3274

The mode tables for the 3274-1A, 3274-1C and 3276 are identical except for RU sizes and 3277 support. The RU sizes supported by the controllers are shown below:

controller	MAX RU size	MAX RU size
	inbound to host	outbound from host
3276	2048	unlimited
3274-1C	1024	unlimited
3274-1A	1024	1536

One mode table for the displays attached to each controller type is included. This allows independent RU size selection based on the controllers capabilities. One mode table would suffice if inbound RU was limited to 1024 and outbound RU size was limited to 1536. Mode table entry names are the same in each table to allow the use of one USS table for all these terminals.

One mode table is included for all printers regardless of controller attachment. This was done for two reasons:

1. NOSP requires all mode table entry names to be DSILGMOD. This precludes having both the NOSP display and NOSP printer entries in the same table.
2. Since it was decided to use the same printer RU sizes with all controllers, the printer entries in each table would have been identical if they were included in each controller table.

For this installation it was decided to set pacing and vpacing values in the terminal definitions (NCP and VBUILD) to zero and override those values when desired by utilizing the mode table parameters PSNDPAC and SRCVPAC. Displays and DSC printers normally run with pacing set to zero. SCS printers, however, require a non-zero pacing count. Since a 3287 or 3289 printer can operate in either DSC or SCS mode it is not possible to have different pacing counts for the same printer if the pacing is determined by the terminal definition. In this installation, for example, a 3289 printer could be used with IMS/VS by specifying the mode table entry SCS4K. It could also be used in DSC mode by another application by specifying the mode table entry DSC4K.

There are some special considerations for printers operating in SCS mode. For 3287 printers the pacing count, RUSIZE and PSERVIC values depend on the buffer size in the printer. The 3287 printer has a 2K buffer as a standard feature and a 4K buffer as an optional feature. The mode table entry names in these examples indicate their respective printer buffer sizes. The 3289 printer has a 4K buffer as a standard

feature. In all cases a determination must be made regarding the pacing count and RU size to be used. Many factors may enter into the decision, but the most important performance objective is to achieve overlap of printing with data transmission. In these examples, the rationale used for the trade-off between pacing count and RU size was to set the pacing count to one and set the RU size to the highest value (up to 1024) that would still allow printing and transmission to overlap. The 1024 byte RU size specified for printers with a 4K buffer is not the absolute maximum. The actual maximum RU size depends on the controller type and model and can be determined by using the formulae described in the 3270 Component Description manual (GA27-2749) in the section "RU Lengths". It was considered more practical to use a common RUSIZE than to set individual maximum sizes. 1536 is actually the maximum common RU size that could have been used, but it appears that there is little, if any, performance advantage in using an RUSIZE greater than 1024. If an application program limits RU lengths to something less than 1024, it may be advantageous to use a pacing count greater than one. For an RU size of 256 a pacing count of 3 could be beneficial. Pacing counts greater than 3 would not generally be recommended unless the RU size is much smaller.

VTAM SESSION PARAMETERS

SAMPLE MODETAB FOR IBM 3274-1A (LOCAL ATTACHED)

```
*****
* MODE TABLE FOR 3274-1A DISPLAYS
*****
MT3274A  MODETAB
MODEENT LOGMODE=T3278M2, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000185018507F00'
MODEENT LOGMODE=T3278M3, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000185020507F00'
MODEENT LOGMODE=T3278M4, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'02000000000018502B507F00'
MODEENT LOGMODE=T3278M1, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'0200000000000C280C507F00'
MODEENT LOGMODE=DSILGMOD, MODEL 4 X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'02000000000018502B507F00'
MODEENT LOGMODE=T3277M2, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000000000000200'
MODEENT LOGMODE=T3277M1, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000000000000100'
MODEEND
END
```

NOTES- Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3270 should also be referenced.

SAMPLE MODETAB FOR IBM 3274-1C (REMOTE)

```

*****
* MODE TABLE FOR 3274-1C DISPLAYS
*****
MT3274C  MODETAB
MODEENT LOGMODE=T3278M2,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'020000000000185018507F00'
MODEENT LOGMODE=T3278M3,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'020000000000185020507F00'
MODEENT LOGMODE=T3278M4,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'02000000000018502B507F00'
MODEENT LOGMODE=T3278M1,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'0200000000000C280C507F00'
MODEENT LOGMODE=DSILGMOD,  MODEL 4                      X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'A0',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'02000000000018502B507F00'
MODEENT LOGMODE=T3277M2,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'020000000000000000000200'
MODEENT LOGMODE=T3277M1,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',          X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87F8',    X
      PSERVIC=X'020000000000000000000100'
MODEEND
END

```

NOTES- Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3270 should also be referenced.

VTAM SESSION PARAMETERS

SAMPLE MODETAB FOR IBM 3276 (REMOTE)

```
*****
* MODE TABLE FOR 3276 DISPLAYS
*****
MT3276  MODETAB
        MODEENT LOGMODE=T3278M2,                      X
          FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',      X
          SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8', X
          PSERVIC=X'020000000000185018507F00'
        MODEENT LOGMODE=T3278M3,                      X
          FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',      X
          SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8', X
          PSERVIC=X'020000000000185020507F00'
        MODEENT LOGMODE=T3278M4,                      X
          FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',      X
          SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8', X
          PSERVIC=X'02000000000018502B507F00'
        MODEENT LOGMODE=T3278M1,                      X
          FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',      X
          SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8', X
          PSERVIC=X'0200000000000C280C507F00'
        MODEENT LOGMODE=DSILGMOD,  MODEL 4            X
          FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',      X
          SECPROT=X'A0',COMPROT=X'3080',RUSIZES=X'87F8', X
          PSERVIC=X'02000000000018502B507F00'
        MODEEND
        END
```

NOTES- This MODETAB provides session parameters for the IBM 3276 for various types of sessions. Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3270 should also be referenced.

SAMPLE MODETAB FOR IBM 3287 AND 3289 PRINTERS

\*\*\*\*\*  
 \* MODE TABLE FOR 3287 & 3289 PRINTERS  
 \*\*\*\*\*

```

MTNDSPTR MODETAB
  MODEENT LOGMODE=SCS,                                     X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',           X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C6',     X
      PSERVIC=X'01000000E100000000000000',             X
      PSNDPAC=X'01',SRCVPAC=X'01'
  MODEENT LOGMODE=DSC4K,                                   X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',           X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'8787',     X
      PSERVIC=X'03000000000018502B507F00'
  MODEENT LOGMODE=DSC2K,                                   X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',           X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'8787',     X
      PSERVIC=X'030000000000185018507F00'
  MODEENT LOGMODE=DSILGMOD,                                X
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',           X
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'8787',     X
      PSERVIC=X'01000000E100000000000000',             X
      PSNDPAC=X'01',SRCVPAC=X'01'
  MODEEND
  END
  
```

NOTES- This MODETAB provides session parameters for the IBM 3287 and 3289 printers for various types of sessions. Description and specification for MODETAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM. The component description manual for the 3270 should also be referenced.

VTAM SESSION PARAMETERS

4.3 : USSTAB EXAMPLES

USSTAB FOR 3271 SDLC OR BSC(ACF/VTAM ONLY).

```
*****
* USSTAB FOR 3271 MOD. 11/12 (VTAM AND ACF/VTAM) *
* USSTAB FOR 3271 MOD. 1/2 (ACF/VTAM) *
*****
VUSS3270 USSTAB
LOG      USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
        USSPARM PARM=P1,REP=APPLID
        USSPARM PARM=P2,REP=LOGMODE
TSO      USSCMD CMD=TSO,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TSO
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
        USSPARM PARM=P1,REP=DATA
NOSP     USSCMD CMD=NOSP,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NOSP1
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=DSILGMOD
        USSPARM PARM=P1,REP=DATA
CICS14   USSCMD CMD=CICS14,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS14
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
CICS     USSCMD CMD=CICS,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
TEST     USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=ISTOLTEP
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
CICS13   USSCMD CMD=CICS13,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS13
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
IMS      USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=IMS
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
VSPC     USSCMD CMD=VSPC,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=VSPC
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
TCAM     USSCMD CMD=TCAM,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TCAMTCAM
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
VTAMWHO  USSCMD CMD=WHO,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=VTAMWHO
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
LOGOFF   USSCMD CMD=LOGOFF,REP=LOGOFF,FORMAT=BAL
```



VTAM SESSION PARAMETERS

USSPARM PARM=APPLID,REP=APPLID  
USSPARM PARM=TYPE,DEFAULT=COND  
USSPARM PARM=HOLD,DEFAULT=YES

\* THE FOLLOWING CODE IS POSITIONAL!Y DEPENDENT....DO NOT CHANGE  
\*IF DOS/VS, A CHARACTER IS REQUIRED IN COLUMN 16 OF THE TEXT ON  
\* ALL THE STATEMENTS CONTAINING 71 BLANKS.  
MESSAGES USSMSG MSG=1,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=2,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=3,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=4,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=5,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=6,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=7,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=0,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=10,TEXT='MAXIMUM MESSAGE

X  
X

VTAM SESSION PARAMETERS

X  
X

```

PATCHBK EQU *
          ORG ISTD0001+1   ORG BACK TO OVERLAY MESSAGE
MSG1S    EQU *
          DC   X'11C260',X'1DE8'
          DC   C'INVALID COMMAND SYNTAX, ENTER:',X'11C3F0'
          DC   C'LOG applid logmode data 0r:'
          DC   X'11C6D21D60'
          DC   C'CICS14',X'11C7E3'
          DC   C'CICS13',X'11C8F3'
          DC   C'TSO tsoid/password',X'114AC3'
          DC   C'NOSP',X'114BD3'
          DC   C'TEST',X'114CE3'
          DC   C'WHO',X'114DF3'
          DC   C'VSPC ID=nnnnnn',X'114FC3'
          DC   C'IMS'
MSG1E    EQU *
          ORG ISTD0002+1   ORG BACK TO OVERLAY MESSAGE
MSG2S    EQU *
          DC   X'11C260',X'1DE8'
          DC   C'% COMMAND NOT RECOGNIZED, ENTER:',X'11C3F0'
          DC   C'LOG applid logmode data 0r:'
          DC   X'11C6D21D60'
          DC   C'CICS14',X'11C7E3'
          DC   C'CICS13',X'11C8F3'
          DC   C'TSO tsoid/password',X'114AC3'
          DC   C'NOSP',X'114BD3'
          DC   C'TEST',X'114CE3'
          DC   C'WHO',X'114DF3'
          DC   C'VSPC ID=nnnnnn',X'114FC3'
          DC   C'IMS'
MSG2E    EQU *
          ORG ISTD0003+1   ORG BACK TO OVERLAY MESSAGE
MSG3S    EQU *
          DC   X'11C260'           SKIP TO LINE 2
          DC   C'% PARAMETER NOT RECOGNIZED, ENTER:',X'11C3F0'
          DC   C'LOG applid logmode data 0r:'
          DC   X'11C6D21D60'
          DC   C'CICS14',X'11C7E3'
          DC   C'CICS13',X'11C8F3'
          DC   C'TSO tsoid/password',X'114AC3'
          DC   C'NOSP',X'114BD3'
          DC   C'TEST',X'114CE3'
          DC   C'WHO',X'114DF3'
          DC   C'VSPC ID=nnnnnn',X'114FC3'
          DC   C'IMS'
    
```

VTAM SESSION PARAMETERS

```

MSG3E  EQU  *
        ORG  ISTT0004+1    ORG BACK TO OVERLAY MESSAGE
MSG4S  EQU  *
        DC   X'11C260'
        DC   C'% PARAMETER INVALID, ENTER:',X'111C3F0'
        DC   C'LOG applid logmode data 0r:'
        DC   X'11C6D21D60'
        DC   C'CICS14',X'11C7E3'
        DC   C'CICS13',X'11C8F3'
        DC   C'TSO tsoid/password',X'114AC3'
        DC   C'NOSP',X'114BD3'
        DC   C'TEST',X'114CE3'
        DC   C'WHO',X'114DF3'
        DC   C'VSPC ID=nnnnnn'
        DC   X'114FC3'
        DC   C'IMS'
        DC   X'1150D2'
        DC   C'NOTE: The application may not be active'
MSG4E  EQU  *
        ORG  ISTT0005+1    ORG BACK TO OVERLAY MESSAGE
MSG5S  EQU  *
        DC   X'11C260'
        DC   C'UNSUPPORTED FUNCTION, ENTER:',X'11C3F0'
        DC   C'LOG applid logmode data 0r:'
        DC   X'11C6D21D60'
        DC   C'CICS14',X'11C7E3'
        DC   C'CICS13',X'11C8F3'
        DC   C'TSO tsoid/password',X'114AC3'
        DC   C'NOSP',X'114BD3'
        DC   C'TEST',X'114CE3'
        DC   C'WHO',X'114DF3'
        DC   C'VSPC ID=nnnnnn'
        DC   X'114FC3'
        DC   C'IMS'
MSG5E  EQU  *
        ORG  ISTT0006+1    ORG BACK TO OVERLAY MESSAGE
MSG6S  EQU  *
        DC   X'11C260'
        DC   C'SEQUENCE ERROR:'
        DC   X'11C6D21D60'
        DC   C'1. You are attempting to logoff from a terminal '
        DC   C'that is not in session'
        DC   X'114CE3'
        DC   C'2. You are attempting to logon from a terminal that '
        DC   C'is already in session'
        DC   X'114FC3'
MSG6E  EQU  *
        ORG  ISTT0007+1    ORG BACK TO OVERLAY MESSAGE

```

VTAM SESSION PARAMETERS

```

MSG7S  EQU  *
        DC  X'11C260'
        DC  C'SESSION NOT BOUND BECAUSE:'
        DC  X'11C6D21D60'
        DC  C'1. This terminal is already in session'
        DC  X'114CE3'
        DC  C'2. The host application rejected the logon request'
        DC  X'114FC2'
        DC  C'3. The terminal rejected the bind'
        DC  X'114FC3'
MSG7E  EQU  *
        ORG  ISTT0008+1      ORG BACK TO OVERLAY MESSAGE
MSG0S  EQU  *
        DC  X'11C260'
        DC  C'COMMAND COMPLETED OK'
MSG0E  EQU  *
        ORG  ISTT0009+1      ORG BACK TO OVERLAY MESSAGE
MSG10S EQU  *
        DC  X'11C150'
        DC  C'          PALO ALTO SYSTEMS CENTER, ACF/VTAM SYSTEM'
        DC  X'11C3F2'
        DC  C'For logon command syntax, press enter'
MSG10E EQU  *
        ORG  PATCHBK
* MAKE SURE EACH MESSAGE DOES NOT EXCEED 249 BYTES
MSG1L  EQU  (MSG1E-MSG1S)
MSG2L  EQU  (MSG2E-MSG2S)
MSG3L  EQU  (MSG3E-MSG3S)
MSG4L  EQU  (MSG4E-MSG4S)
MSG5L  EQU  (MSG5E-MSG5S)
MSG6L  EQU  (MSG6E-MSG6S)
MSG7L  EQU  (MSG7E-MSG7S)
MSG0L  EQU  (MSG0E-MSG0S)
MSG10L EQU  (MSG10E-MSG10S)
END     USSEND
        END

```

NOTES- This USSTAB simplifies operator logon from the 3271 Model 11/12 under VTAM 2 and for 3271's with PU=YES under ACF/VTAM. Description and specification for USSTAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM.

## USSTAB FOR 3767 SDLC

```

*****
* USSTAB FOR 3767 *
*****
ASUSSTAB USSTAB
LOG      USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
        USSPARM PARM=P1,REP=APPLID
        USSPARM PARM=P2,REP=LOGMODE,
        USSPARM PARM=P3,REP=DATA
IMS      USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=IMS
        USSPARM PARM=LOGMODE,DEFAULT=INTERACT
        USSPARM PARM=ID,REP=DATA
CICS     USSCMD CMD=CICS,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=DBDCCICS
        USSPARM PARM=LOGMODE,DEFAULT=INTERACT
        USSPARM PARM=DATA
TSO      USSCMD CMD=TSO,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=TSO
        USSPARM PARM=LOGMODE,DEFAULT=INTERACT
        USSPARM PARM=DATA
VAPPL    USSCMD CMD=VAPPL,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=VAPPL
        USSPARM PARM=LOGMODE,DEFAULT=INTERACT
        USSPARM PARM=DATA
TEST     USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=ISTOLTEP
        USSPARM PARM=LOGMODE,DEFAULT=INTERACT
        USSPARM PARM=DATA
LOGOFF   USSCMD CMD=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=COND
        USSPARM PARM=HOLD,DEFAULT=YES
EOD      USSCMD CMD=EOD,REP=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=UNCOND
        USSPARM PARM=HOLD,DEFAULT=NO
        USSEND
        END

```

NOTES- This USSTAB simplifies operator logon from the 3767 SDLC unit. Description and specification for USSTAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM.

## VTAM SESSION PARAMETERS

### USSTAB FOR 3770 SDLC

```
ASUSST70 USSTAB
LOG      USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
        USSPARM PARM=P1,REP=APPLID
        USSPARM PARM=P2,REP=LOGMODE
        USSPARM PARM=P3,REP=DATA
SIGNON  USSCMD CMD=SIGNON,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=JES2
        USSPARM PARM=LOGMODE,DEFAULT=BUF256
        USSPARM PARM=USER,REP=DATA
IMS     USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=IMS
        USSPARM PARM=LOGMODE,DEFAULT=BATCH
TEST    USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=ISTOLTEP
        USSPARM PARM=LOGMODE,DEFAULT=INTERACT
RMT1    USSCMD CMD=RMT1,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=JES2
        USSPARM PARM=LOGMODE,DEFAULT=BUF512
        USSPARM PARM=DATA,DEFAULT=RMT1
POWER   USSCMD CMD=POWER,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=POWER
        USSPARM PARM=LOGMODE,DEFAULT=BATCH
        USSPARM PARM=DATA,DEFAULT=006
LOGOFF  USSCMD CMD=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=COND
        USSPARM PARM=HOLD,DEFAULT=YES
EOD     USSCMD CMD=EOD,REP=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=UNCOND
        USSPARM PARM=HOLD,DEFAULT=NO
SIGNOFF USSCMD CMD=SIGNOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=COND
        USSPARM PARM=HOLD,DEFAULT=YES
        USSEND
        END
```

NOTES- This USSTAB simplifies operator logon from the 3770 SDLC unit. Description and specification for USSTAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM.

USSTAB FOR 3274/3276 SDLC

\*\*\*\*\*
\* SOURCE FOR USSTAB FOR SNA 3274/3276
\*\*\*\*\*

USST3270 USSTAB

LOG USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
USSPARM PARM=P1,REP=APPLID
USSPARM PARM=P2,REP=LOGMODE,
USSPARM PARM=P3,REP=DATA
IMS USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=IMS
USSPARM PARM=P1,REP=LOGMODE
IMS115 USSCMD CMD=IMS115,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=IMS115
USSPARM PARM=P1,REP=LOGMODE
CICS14 USSCMD CMD=CICS14,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=CICS14
USSPARM PARM=P1,REP=LOGMODE
CICS13 USSCMD CMD=CICS13,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=CICS13
USSPARM PARM=P1,REP=LOGMODE
NOSP USSCMD CMD=NOSP,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=NOSP1
USSPARM PARM=LOGMODE,DEFAULT=DSILGMOD
TSO USSCMD CMD=TSO,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=TSO
USSPARM PARM=LOGMODE
USSPARM PARM=P1,REP=DATA
LOGOFF USSCMD CMD=LOGOFF,FORMAT=BAL
USSPARM PARM=APPLID
USSPARM PARM=TYPE,DEFAULT=UNCOND
USSPARM PARM=HOLD,DEFAULT=YES
EOD USSCMD CMD=EOD,REP=LOGOFF,FORMAT=BAL
USSPARM PARM=APPLID
USSPARM PARM=TYPE,DEFAULT=UNCOND
USSPARM PARM=HOLD,DEFAULT=NO
VSPC USSCMD CMD=VSPC,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=VSPC
USSPARM PARM=LOGMODE
USSPARM PARM=P1,REP=DATA

\* THE FOLLOWING CODE IS POSITIONALLY DEPENDENT.....DO NOT CHANGE
\*

\*IF DOS/V5, A CHARACTER IS REQUIRED IN COLUMN 16 OF THE TEXT ON

\* ALL THE STATEMENTS CONTAINING 71 BLANKS.

MESSAGES USSMSG MSG=1,TEXT='MAXIMUM MESSAGE

X
X

VTAM SESSION PARAMETERS

USSMSG MSG=2,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X  
X

USSMSG MSG=3,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=4,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=5,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=6,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=7,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=0,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

USSMSG MSG=10,TEXT='MAXIMUM MESSAGE

X  
X  
X  
X

PATCHBK EQU \*  
 ORG ISTT0001+1 ORG BACK TO OVERLAY MESSAGE  
 MSG1S EQU \*  
 DC X'4015' SKIP TO LINE 2  
 DC C'INVALID COMMAND SYNTAX, ENTER:',X'15'



VTAM SESSION PARAMETERS

```

DC      X'4015'
DC      C'LOG applid logmode data',X'15'
DC      C'IMS',X'15'
DC      C'CICS14',X'15'
DC      C'CICS13',X'15'
DC      C'TSO tsoid/password',X'15'
DC      C'NOSP',X'15'
DC      C'VSPC ID=nnnnnn'
MSG1E  EQU      *
        ORG      ISTT0002+1      ORG BACK TO OVERLAY MESSAGE
MSG2S  EQU      *
DC      X'4015'          SKIP TO LINE 2
DC      C'% COMMAND NOT RECOGNIZED, ENTER:',X'15'
DC      X'4015'
DC      C'LOG applid logmode data',X'15'
DC      C'IMS',X'15'
DC      C'CICS14',X'15'
DC      C'CICS13',X'15'
DC      C'TSO tsoid/password',X'15'
DC      C'NOSP',X'15'
DC      C'VSPC ID=nnnnnn'
MSG2E  EQU      *
        ORG      ISTT0003+1      ORG BACK TO OVERLAY MESSAGE
MSG3S  EQU      *
DC      X'4015'          SKIP TO LINE 2
DC      C'% PARAMETER NOT RECOGNIZED, ENTER:',X'15'
DC      X'4015'
DC      C'LOG applid logmode data',X'15'
DC      C'IMS',X'15'
DC      C'CICS14',X'15'
DC      C'CICS13',X'15'
DC      C'TSO tsoid/password',X'15'
DC      C'NOSP',X'15'
DC      C'VSPC ID=nnnnnn'
MSG3E  EQU      *
        ORG      ISTT0004+1      ORG BACK TO OVERLAY MESSAGE
MSG4S  EQU      *
DC      X'4015'          SKIP TO LINE 2
DC      C'% PARAMETER INVALID, ENTER:',X'15'
DC      X'4015'
DC      C'LOG applid logmode data',X'15'
DC      C'IMS',X'15'
DC      C'CICS14',X'15'
DC      C'CICS13',X'15'
DC      C'TSO tsoid/password',X'15'
DC      C'NOSP',X'15'
DC      C'VSPC ID=nnnnnn',X'15'
DC      X'4015'

```

VTAM SESSION PARAMETERS

```

MSG4E  DC    C'NOTE: The application may not be active'
      EQU    *
      DC    ISTT0005+1    ORG BACK TO OVERLAY MESSAGE
MSG5S  EQU    *
      DC    X'4015'          SKIP TO LINE 2
      DC    C'UNSUPPORTED FUNCTION, ENTER:',X'15'
      DC    X'4015'
      DC    C'LOG applid logmode data',X'15'
      DC    C'IMS',X'15'
      DC    C'CICS14',X'15'
      DC    C'CICS13',X'15'
      DC    C'TSO tsoid/password',X'15'
      DC    C'NOSP',X'15'
      DC    C'VSPC ID=nnnnnn'
MSG5E  EQU    *
      DC    ISTT0006+1    ORG BACK TO OVERLAY MESSAGE
MSG6S  EQU    *
      DC    X'4015'          SKIP TO LINE 2
      DC    C'SEQUENCE ERROR:',X'15'
      DC    X'40154015'
      DC    C'1. You are attempting to logoff from a terminal '
      DC    C'that is not in session'
      DC    X'4015'
      DC    C'2. You are attempting to logon from a terminal that '
      DC    C'is already in session'
MSG6E  EQU    *
      DC    ISTT0007+1    ORG BACK TO OVERLAY MESSAGE
MSG7S  EQU    *
      DC    X'40154015'      SKIP TO LINE 3
      DC    C'SESSION NOT BOUND BECAUSE:',X'15'
      DC    X'40154015'
      DC    C'1. This terminal is already in session',X'15'
      DC    X'4015'
      DC    C'2. The host application rejected the logon request'
      DC    X'154015'
      DC    C'3. The terminal rejected the bind',X'15'
MSG7E  EQU    *
      DC    ISTT0008+1    ORG BACK TO OVERLAY MESSAGE
MSG0S  EQU    *
      DC    X'40154015'      SKIP TO LINE 3
      DC    C'COMMAND COMPLETED OK:'
      DC    X'4015401540154015'
      DC    C'If LOGON, press ALT/SYS REQ (TEST REQ/CLEAR for 3277)'
      DC    X'401540154015'
      DC    C'If LOGOFF, enter next command or press enter for '
      DC    C'logon command syntax'
MSG0E  EQU    *
      DC    ISTT0009+1    ORG BACK TO OVERLAY MESSAGE

```

VTAM SESSION PARAMETERS

```

MSG10S  EQU  *
        DC  X'40154015'          SKIP TO LINE 3
        DC  C'          PALO ALTO SYSTEMS CENTER, ACF/VTAM SYSTEM'
        DC  X'40154015401540154015'
        DC  C'For logon command syntax, press enter'
MSG10E  EQU  *
        ORG  PATCHBK
* MAKE SURE EACH MESSAGE DOES NOT EXCEED 249 BYTES
MSG1L   EQU  (MSG1E-MSG1S)
MSG2L   EQU  (MSG2E-MSG2S)
MSG3L   EQU  (MSG3E-MSG3S)
MSG4L   EQU  (MSG4E-MSG4S)
MSG5L   EQU  (MSG5E-MSG5S)
MSG6L   EQU  (MSG6E-MSG6S)
MSG7L   EQU  (MSG7E-MSG7S)
MSG0L   EQU  (MSG0E-MSG0S)
MSG10L  EQU  (MSG10E-MSG10S)
END      USSEND
        END

```

NOTES- This USSTAB simplifies operator logon from the 3274/3276 SDLC unit. Description and specification for USSTAB generation is found in the appropriate System Programmers Guide for VTAM and ACF/VTAM.

VTAM SESSION PARAMETERS

REFERENCES

DOS/VS VTAM System Programmers Guide	GC27-6957
ACF/VTAM System Programmers Guide (DOS)	SC38-0268
OS/VS1 VTAM System Programmer's Guide	GC27-6996
OS/VS2 SVS VTAM System Programmer's Guide	GC27-0049
OS/VS2 VTAM System Programming Library:VTAM	GC28-0688
ACF/VTAM System Programmers Guide	SC38-0258

CHAPTER 5 : SAMPLE SYSTEM DEPENDENT JCL5.1 : DOS/VS SAMPLES

The examples included in this section should assist in the installation of a DOS/VS system with local 3270's and a local attached 3705.

REFERENCES

DOS/VS VTAM System Programmers Guide	GC27-6957
DOS/VS System Management Guide	GC33-5371
DOS/VS System Control Statements	GC33-5376
DOS/VS System Generation	GC33-5377
DOS/VS System Utilities	GC33-5381
DOS/VS VTAM Reference Summary	GX27-0033
ACF/VTAM System Programmers Guide (DOS)	SC38-0268
ACF/VTAM Installation Guide (DOS)	SC38-0270
ACF/VTAM Reference Summary (DOS)	SX27-3022



```

PC=YES,                REQUIRED FOR VTAM                X
PCIL=YES,              X                                X
PD=YES,                X                                X
PFIY=YES,              REQUIRED FOR POWER/VS AND VTAM   X
PRTY=(BG,F5,F4,F3,F2,F1),  F1-VTAM F2-POWER   X

**** VTAM must have the highest priority

PSLD=12,               X
RELLDR=YES,            REQUIRED FOR POWER/VS AND VTAM   X
RPS=YES,               X                                X
SLD=15,                X                                X
SYSFIL=YES,            REQUIRED FOR VTAM                X
TOD=YES,               REQUIRED FOR VTAM                X
TRKHLD=12,             X                                X
USERID=SIPOSUP1MOD2VMLE, X                                X
VSAM=YES,              REQUIRED BY SSS                 X
WAITM=YES,             X                                X
XECB=YES,              INTER-PARTITION COMMUNICATION (R32) X
ZONE=(WEST,7,00)

$PIOCS EQU *
      PIOCS                X
      BLKMPX=YES,         X
      BMPX=YES,           X
      DISK=(3330,3340,3350), X
      TAPE=9

$VSTAB EQU *
      VSTAB                X
      RSIZE=512K,         X
      VSIZE=7680K,       8 MEG VIRTUAL MACHINE   X
      BUFSIZE=150,       X
      SVA=(570K,40K)

$ALLOC EQU *
      ALLOC                X
      F1=2048K,           VTAM RUNNING AT THE HIGHEST PRTY X
      *** Usually 800K to 900k for average VTAM system ***
      *** Usually 1500 to 2000k for large systems and if RESTART option.
      F2=512K,           POWER/VS SNA/RJE          X
      F3=2048K,          CICS/VS + DL/1 + VSAM OR VTAM X
      F4=1024K,          CICS/VS BUT NOT EVERYTHING X
      F5=450K            PRODUCTION
      *                  BG = 1024K          BG = VSIZE - (SVA + F1 + F2 + F3 + F4 + F5
$ALLOCR EQU *
      ALLOCR                X
      BGR=80K,            X
      F4R=40K,            X
      F5R=80K,            X
      F3R=80K,            X

```

```

                F2R=56K,                POWER RSIZE                X
                F1R=40K
*** Usually 36K to 40K for average VTAM system ***
*                (BGR + F1R + F2R + F3R + F4R + F5R + 20K + SUPERVISOR)
*                MUST BE NO GREATER THAN 'RSIZE'.
$IQTAB  EQU    *
        IOTAB                                X
        BGPGR=40,                            X
        CHANQ=64,                            X
        D3330=16,                            X
        D3340=32,                            X
        D3350=8,                             X
        D3420=8,                             X
        F1PGR=24,                            X
        F2PGR=40,                            X
        F3PGR=39,                            X
        F4PGR=39,                            X
        F5PGR=10,                            X
        IODEV=110,                          X
        JIB=200,                             X
        NRES=64                                REQUIRED FOR VSAM II
$DVCGEN EQU    *                'REAL' DEVICES
DVCGEN CHUN=X'00C',DVCTYP=2540R    READER FOR DMS
DVCGEN CHUN=X'01C',DVCTYP=2501    DUMMY READER FOR 'SPM II'
DVCGEN CHUN=X'00D',DVCTYP=2540P    PUNCH FOR DMS
DVCGEN CHUN=X'04D',DVCTYP=3525P
DVCGEN CHUN=X'00E',DVCTYP=1403U
DVCGEN CHUN=X'00B',DVCTYP=1403U
DVCGEN CHUN=X'009',DVCTYP=1050A
DVCGEN CHUN=X'030',DVCTYP=2703    2703/OR 370X IN EMULATION
DVCGEN CHUN=X'031',DVCTYP=2703    2703/OR 370X IN EMULATION
DVCGEN CHUN=X'060',DVCTYP=3791L    LOCAL 3274
DVCGEN CHUN=X'070',DVCTYP=3705,MODE=X'01' 370X NATIVE MODE
DVCGEN CHUN=X'080',DVCTYP=3705,MODE=X'02' 370X NATIVE MODE
DVCGEN CHUN=X'040',DVCTYP=3277    LOCAL 3270 FOR MONITOR, CICS
DVCGEN CHUN=X'041',DVCTYP=3277    LOCAL 3270 FOR APPLIC.
DVCGEN CHUN=X'042',DVCTYP=3277,MODE=X'01' LOC. 3286 PRT
DVCGEN CHUN=X'043',DVCTYP=3277    FOR CONSOLE SUPPORT
*
*
*    MULTIPLE PRINTERS FOR POWER/VS CONTROL
        DVCGEN CHUN=X'01E',DVCTYP=1403U
        DVCGEN CHUN=X'02E',DVCTYP=1403U
        DVCGEN CHUN=X'08E',DVCTYP=1403U
*
*
        DVCGEN CHUN=X'140',DVCTYP=3350
        DVCGEN CHUN=X'141',DVCTYP=3350

```



```

*
*
*
DVCGEN CHUN=X'160',DVCTYP=3340
DVCGEN CHUN=X'161',DVCTYP=3340
DVCGEN CHUN=X'162',DVCTYP=3340
*
DVCGEN CHUN=X'280',DVCTYP=3420T9
DVCGEN CHUN=X'281',DVCTYP=3420T9
*
DVCGEN CHUN=X'350',DVCTYP=3330
DVCGEN CHUN=X'351',DVCTYP=3330
DVCGEN CHUN=X'352',DVCTYP=3330
*
DVCGEN CHUN=X'370',DVCTYP=3330B
DVCGEN CHUN=X'371',DVCTYP=3330B
DVCGEN CHUN=X'372',DVCTYP=3330B
*
$ASSGN EQU *
*   SYS
    ASSGN SYSLOG,X'009'
    ASSGN SYSREC,X'160'
    ASSGN SYSCAT,X'160'           VSAM MASTER CATALOG
    ASSGN SYSCAT,X'160',F4       VSAM MASTER CATALOG THESE ASSGNS
    ASSGN SYSCAT,X'160',F5       VSAM MASTER CATALOG SHOULD NOT BE
    ASSGN SYSCAT,X'160',F3       VSAM MASTER CATALOG   NEEDED, BUT
    ASSGN SYSCAT,X'160',F2       VSAM MASTER CATALOG   WERE FOUND TO
    ASSGN SYSCAT,X'160',F1       VSAM MASTER CATALOG   BE NECESSARY.
*   BG
    ASSGN SYSRDR,X'00C' BG
    ASSGN SYSIPT,X'00C' BG
    ASSGN SYSPCH,X'00D' BG
    ASSGN SYSLST,X'00E' BG
*
    ASSGN SYSLNK,X'161' BG
    ASSGN SYS001,X'161' BG
    ASSGN SYS002,X'161' BG
    ASSGN SYS003,X'161' BG
    ASSGN SYS004,X'161' BG
*   F5
    ASSGN SYSRDR,X'05C',F5
    ASSGN SYSIPT,X'05C',F5
    ASSGN SYSPCH,X'05D',F5
    ASSGN SYSLST,X'05E',F5
*   F4
    ASSGN SYSRDR,X'00C',F4
    ASSGN SYSIPT,X'00C',F4
    ASSGN SYSPCH,X'00D',F4

```

DOS/VS SAMPLES

```
      ASSGN SYSLST,X'00E',F4
      ASSGN SYSLNK,X'161',F4
      ASSGN SYS001,X'161',F4
      ASSGN SYS002,X'161',F4
      ASSGN SYS003,X'161',F4
      ASSGN SYS004,X'161',F4
*     F3
      ASSGN SYSRDR,X'00C',F3
      ASSGN SYSIPT,X'00C',F3
      ASSGN SYSPCH,X'00D',F3
      ASSGN SYSLST,X'00E',F3
*     F2  POWER/VS PARTITION
      ASSGN SYSLST,X'00E',F2
      ASSGN SYS000,X'161',F2
      ASSGN SYS001,X'161',F2
      ASSGN SYS002,X'161',F2
*     F1  VTAM PARTITION
      ASSGN SYSLST,X'01E',F1
*
*
$SEND  EQU  *
      SEND
      ENTRY NUCEND          IDENTIFY ACTUAL END OF SUPERVISOR.
      SUPPARMS             LIST PARAMETERS, AHEAD OF PRINT GEN
      END
/*
// EXEC LNKEDT
/;&
```

NOTE- Information for preparing the DOS/VS system is found in Chapter 2 of the DOS/VS VTAM System Programmer's Guide (GC27-6957), and the DOS/VS System Generation Guide (GC33-5377). If installing ACF/VTAM, the ACF/VTAM System Programmer's Guide (SC38-0268) and ACF/VTAM Installation Guide (SC38-0270) are required.

## DOS/VS POWER DEFINITION

```

// JOB POWERASM
// EXEC PROC=$$RESET
// OPTION ERRS,LIST,XREF,NODECK,NOEDECK,CATAL
// EXEC ASSEMBLY,SIZE=128K
      TITLE 'POWER SNA - RELEASE 34'
      PRINT GEN
POWSNA  POWER DBLK=1966,                                X
          TRACKGP=3,                                    X
          LTAB=(10,00,05,10,15,20,25,30,35,40,45,50,56), X
          PRI=5,                                        X
          SUBLIB=P,                                     X
          ACCOUNT=YES,                                 X
          STDLINE=(10000,10000),                       X
          STDCARD=(500,500),                           X
          JLOG=YES,                                    X
          JSEP=(2,0),                                  X
          RBS=(0,0),                                   X
          RDREXIT=YLZ1REX,                             X
          PAUSE=NO,                                    X
          SPOOL=YES,                                   X
          SNA=(20,,POWER)

      EJECT
      PLINE ADDR=X'030',                                X
          SWITCH=YES,                                  X
          TRNSP=YES
      PLINE ADDR=X'031',                                X
          SWITCH=YES,                                  X
          TRNSP=YES

      EJECT
      PRMT REMOTE=1,                                    X
          TYPE=3780,                                    X
          TRNSP=YES,                                    X
          TRACE=YES
      PRMT REMOTE=2,                                    X
          TYPE=3780,                                    X
          SCE=YES,                                      X
          TRACE=YES
      PRMT REMOTE=3,                                    X
          TYPE=2770,                                    X
          TRNSP=NO,                                    X
          SCE=YES,                                      X
          BE=YES,                                       X
          ABE=YES,                                       X
          TRACE=YES
      PRMT REMOTE=4,                                    X

```

DOS/VS SAMPLES

```
TYPE=2770, X
TRANSP=YES, X
SCE=NO, X
BE=YES, X
ABE=YES, X
TRACE=YES
EJECT
PRMT REMOTE=5, X
TYPE=LUT1, X
CONSOLE=NO, X
SESSLIM=1, X
LU=(P76ALU1)
PRMT REMOTE=6, X
TYPE=LUT1, X
CONSOLE=YES, X
LU=(P76ALU1,P76ALU2,P76ALU3,P76ALU4,P76ALU5,P76ALU6), X
SESSLIM=6
PRMT REMOTE=7, X
TYPE=LUT1, X
CONSOLE=YES, X
LU=(RJE01,RJE02,RJE03,RJE04,RJE05), X
SESSLIM=5
END
/*
// EXEC LNKEDT
/*
/&
```

## DOS/VS VTAM OR ACF/VTAM NETWORK INSTALL JCL

```
// JOB CATAL VTAM NETWORK DEFINITION
// EXEC MAINT
      CATALS B.node name
      BKEND B.node name
```

Insert network definition deck here

```
      BKEND
/*
/ &
```

NOTE- Chapter 3 of the DOS/VS VTAM System Programmer's Guide describes the filing of network definition decks. Sample network definitions for the NCP are described in Chapter 6. Chapter 7 contains a sample Switches SNA node definition and Chapter 8 contains sample local device definitions.

## DOS/VS VTAM OR ACF/VTAM START PARAMETER DEFINITION EXAMPLE

```
      CATALS B.ATCSTR00
      BKEND B.ATCSTR00
*****
*                                                                 *
*  MINIMUM VTAM SYSTEM --- NO NCP                               *
*  THIS WILL NOT SUPPORT AN NCP UNLESS VTAM BUFFER VALUES ARE *
*  ENTERED WHEN PROMPTED BY VTAM AT STARTUP.                   *
*****
CONFIG=00,      PREDEFINED LIST OF MAJOR NODES (ATCCON00)      X
MAXSUBA=15,     MAXIMUM NUMBER OF MAJOR NODES                  X
SSCPID=01      REQUIRED FOR VTAM-2 or ACF/VTAM
      BKEND
```

DOS/VS VTAM START DEFINITION (TEST - REPLACES INITIAL)

```

CATALS B.ATCSTR01
BKEND B.ATCSTR01
*****
* NOTE: THE LFBUF (BSZ) PARAMETER MUST EQUAL THE UNITSZ VALUE *
* IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE *
* BUFFER POOL START PARAMETERS IS EITHER *
* XXBUF=(BNO,BSZ,BTHZ) OR XXBUF=VBSZ AS INDICATED BELOW. *
*****
CONFIG=01, PREDEFINED LIST OF MAJOR NODES (ATCCON01) X
SSCPID=01, VTAM IDENTIFIER REQUIRED FOR VTAM-2 (RELEASE 32) X
NETSOL=NO, NETWORK SOLICITOR NOT TO BE STARTED X
SUPP=NOSUP, DO NOT SUPPRESS VTAM MESSAGES X
MAXSUBA=31, MAXIMUM NUMBER OF MAJOR NODES X
PROMPT, ALLOW NETWORK OPERATOR TO ENTER VTAM START DATA X
APBUF=(23,,21), ACTIVE & INACTIVE BUFFER POOL - PAGEABLE STORAGE X
LFBUF=(39,88,37), LARGE FIXED STORAGE I/O BUFFER POOL X
LPBUF=(20,,18), LARGE PAGEABLE-STORAGE BUFFER POOL X
NPBUF=(11,,9), DEVICE CONNECTION BUFFER POOL, PAGEABLE X
PPBUF=(8,88,6), PAGEABLE DATA BUFFER POOL X
SFBUF=(1,,1), SMALL FIXED STORAGE BUFFER POOL X
SPBUF=(46,,43), SMALL PAGEABLE-STORAGE BUFFER POOL X
WPBUF=(8,,6), DEVICE CONNECTION BUFFER POOL - PAGEABLE X
UECBUF=(20,,18), SESSION AND SIMLOGON BFR POOL - PAGEABLE X
VFBUF=6144,VPBUF=120000
BKEND

```

NOTE- Defining and filing DOS VTAM start parameters is described in Chapter 4 of the DOS/VS VTAM System Programmer's Guide (GC27-6957).

ATCSTR00 is required by VTAM even if all defaults are taken. The system defaults will not support more than one active application program, including the Network Solicitor, and will not support an active NCP. ATCSTR01 specifies the values necessary to support a small NCP, application definitions, and local definitions. A VTAM virtual partition size should be about 900K and the ALLOCR size should be at least 36K.

## DOS/VS ACF/VTAM START PARAMETER DEFINITION (TEST)

```

CATALS B.ATCSTRAC
BKEND B.ATCSTRAC
*****
*
* ATCSTR00 IS REQUIRED OR THIS DEFINITION CAN REPLACE IT.
*
* NOTE: THE IOBUF (BUFSIZE) PARAMETER MUST EQUAL THE UNITSZ VALUE
* IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE
* BUFFER POOL START PARAMETERS IS EITHER
* XXBUF=(BASENO,BUFSIZE,SLOWPT,XPANNO,XPANPT)
* OR XXBUF=VBSZ AS INDICATED BELOW.
* XPANNO OF 1 WILL CAUSE ACF/VTAM TO ACQUIRE 1 PAGE OF
* BUFFERS SINCE THEY ARE ALWAYS ACQUIRED IN PAGE
* INCREMENTS.
*****
SSCPID=01,          VTAM IDENTIFIER REQUIRED FOR ACF/VTAM          X
CONFIG=AC,         PREDEFINED LIST OF MAJOR NODES (ATCCONAC)    X
HOSTSA=12,        HOST SUBAREA FOR THIS ACF/VTAM              X
MAXSUBA=31,       MAXIMUM NUMBER OF MAJOR NODES                X
VTAMEAS=100,     X
MAXAPPL=50,      MAXIMUM NUMBER OF APPLICATION STATEMENTS      X
NETSOL=NO,       NETWORK SOLICITOR NOT TO BE STARTED           X
PROMPT,          ALLOW VTAM OPERATOR TO ENTER VTAM START DATA X
SUPP=NOSUP,     ALL ACF/VTAM MESSAGES TO BE PRINTED           X
APBUF=(64,,0,1,5), 64- ACTIVE & INACTIVE BUF POOL - PAGEABLE STOR X
LFBUF=(46,136,2,1,24), 136- LARGE FIXED STORAGE I/O BUFFER POOL X
  Note - The difference between SLOWPT and XPANPT must be greater than
         the largest MAXBFRU defined in any NCP or Local definition.
LPBUF=(3,,0,2,1),  1131- LARGE PAGEABLE - STORAGE BUFFER POOL    X
NPBUF=(14,,0,1,3), 288- DEVICE CONNECTION BUFFER POOL - PAGEABLE X
PPBUF=(30,136,0,1,5), 136- PAGEABLE DATA BUFFER POOL            X
SFBUF=(34,,0,1,5), 120- SMALL FIXED STORAGE BUFFER POOL         X
SPBUF=(26,,0,1,3), 156- SMALL PAGEABLE - STOR BUFFER POOL       X
UECBUF=(40,,4,1,10), 100- SESSION & SIMLOGON BFR POOL - PAGEABLE X
WPBUF=(24,,0,1,3), 164- DEVICE CONNECTION BUF POOL - PAGEABLE   X
VFBUF=8000,VPBUF=180000
BKEND

```

NOTE- The VTAM virtual partition size should be adjusted to 2048K, and the ALLOCR value should be 36K. These buffer values will support the initialization of a large NCP definition, a switched SNA node, local 3270's and NETSOL. The above values should be adjusted after the system has been checked out.

DOS/VS START DEFINITION WITH AUTO-START OF VTAM TRACES

```
CATALS B.ATCSTR11
BKEND B.ATCSTR11
*****
*
*   AUTO LOAD OF NCP   WITH VTAM TRACES
*
*****
CONFIG=11,      PREDEFINED LIST OF MAJOR NODES (ATCCON11)      X
TRACE,TYPE=BUF, ID=NCPBS,                                       X
TRACE,TYPE=BUF, ID=CL3790,                                       X
TRACE,TYPE=BUF, ID=SD3767,                                       X
TRACE,TYPE=BUF, ID=INBATCH1,                                       X
TRACE,TYPE=BUF, ID=INQDEMO2,                                       X
TRACE,TYPE=BUF, ID=TR3767SD,                                       X
TRACE,TYPE=IO, ID=NCPBS,                                           X
TRACE,TYPE=IO, ID=CL3790,                                           X
TRACE,TYPE=IO, ID=SD3767,                                           X
TRACE,TYPE=IO, ID=INBATCH1,                                       X
TRACE,TYPE=IO, ID=INQDEMO2,                                       X
TRACE,TYPE=IO, ID=TR3767SD
BKEND
```

NOTE- The above start list assumes the required buffer definitions are specified in ATCSTR00. If they are not, then all the start parameters in the normal start list should be included.



## DOS/VS VTAM APPLICATION PARAMETER EXAMPLE

```

CATALS B.APPCON01
BKEND B.APPCON01
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*     PRTCT=PASSWORD,      PASSWORD MUST ALSO BE DEFINED IN
*                           APPLICATION PROGRAM 'ACB'.
*     BUFFACT=N|1,        MAXIMUM NUMBER OF VTAM PPBUF'S. IT
*                           MAY NEED TO BE ADJUSTED FOR BATCH
*                           INPUT.
*     AUTH=(ACQ|NOACQ,    ALLOWS APPLICATION PROGRAM TO USE
*                           THE OPNDST MACRO WITH THE
*                           ACQUIRE OPTION.
*     BLOCK|NOBLOCK,     NOT USED WITH SDLC OR 3270.
*     PASS|NOPASS)       ALLOWS USE OF CLSDST MACRO
*                           WITH THE PASS OPTION.
*
*****
SAMP1  APPL  AUTH=(ACQ)
CICS   APPL  AUTH=(ACQ),BUFFACT=4
PROG1  APPL  AUTH=(ACQ)
INQALL APPL  PRTCT=OKAYOKAY
INQ    APPL  AUTH=(ACQ)
BATCH  APPL  AUTH=(ACQ),BUFFACT=2
INQ3790 APPL AUTH=(NOACQ)
TEST3  APPL  AUTH=(ACQ)
SYSSSS APPL  AUTH=(ACQ)
      BKEND

```

NOTE- Chapter 3 of the DOS/VS VTAM System Programmer's Guide (GC27-6957) describes the definition and filing of the application programs.

DOS/VS SAMPLES

DOS/VS ACF/VTAM APPLICATION PARAMETER EXAMPLE

```

CATALS B.APPCONAC
BKEND B.APPCONAC
APPCONAC VBUILD TYPE=APPL
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*
*     ACBNAME=ACBNAME,      MINOR NODE NAME. DEFAULTS TO NAME
*                           ON APPL STATEMENT.
*
*     PRTCT=PASSWORD,      PASSWORD MUST ALSO BE DEFINED IN
*                           APPLICATION PROGRAM 'ACB'.
*
*     BUFACT=N|1,          MAXIMUM NUMBER OF VTAM PPBUF'S. IT
*                           APPLIES TO BASIC MODE ONLY.
*
*     VPACING=N,           MAXIMUM NUMBER OF NORMAL-FLOW
*                           REQUESTS FROM LU.
*
*     MODETAB=MODETAB NAME, NAME OF MODETAB TO BE USED BY THE
*                           APPLICATION.
*
*     DLOGMOD=DEFAULT LOG-  NAME OF LOGMODE ENTRY TO BE USED
*                           MODE ENTRY IF NONE IS OTHERWISE PROVIDED.
*
*     EAS=N|404,           NUMBER OF CONCURRENT SESSIONS THIS
*                           APPLICATION PROGRAM WILL HAVE WITH
*                           ANY LOGICAL UNITS.
*
*     AUTH=(ACQ|NOACQ,     ALLOWS APPLICATION PROGRAM TO USE
*                           THE OPNDST MACRO WITH THE
*                           ACQUIRE OPTION.
*
*     PPO|SPO|NOPO,       DEFAULTS TO NOPO. SEE THE PROGRAM
*                           OPERATOR GUIDE FOR ITS USE.
*
*     BLOCK|NOBLOCK,      BASIC MODE ONLY.
*     VPACE|NVPACE,       DETERMINES IF APPLICATION IS TO BE
*                           SUBJECT TO VPACING FOR LU. DEFAULTS
*                           TO VPACING.
*
*     PASS|NOPASS)        ALLOWS USE OF CLSDST MACRO
*                           WITH THE PASS OPTION.
*
*****
SAMP1  APPL  AUTH=(ACQ),DLOGMOD=S3270,EAS=2
CICS   APPL  AUTH=(ACQ),EAS=40
PROG1  APPL  AUTH=(ACQ),EAS=10
INQALL APPL  PRTCT=OKAYOKAY,EAS=10
INQ    APPL  AUTH=(ACQ),EAS=10
BATCH  APPL  AUTH=(ACQ),EAS=1
INQ3790 APPL AUTH=(NOACQ),MODETAB=MODE3790,EAS=4
TEST3  APPL  AUTH=(ACQ),EAS=1
SYSSSS APPL  AUTH=(ACQ),DLOGMOD=BATCH,EAS=1
BKEND

```

## DOS/VS NETWORK CONFIGURATION DEFINITION

```

CATALS B.ATCCON00
BKEND B.ATCCON00
*****
* CONFIGURATION DEFINITION *
* NETWORK INCLUDES APPLICATION PROGRAM LIST ONLY *
*****
APPCON01
BKEND
CATALS B.ATCCONAC
BKEND B.ATCCONAC
*****
* CONFIGURATION DEFINITION *
* NETWORK INCLUDES APPLICATION PROGRAM LIST, AND *
* LOCAL 3270 DEFINITION. *
*****
APPCONAC,LOCCONAC
BKEND
CATALS B.ATCCON03
BKEND B.ATCCON03
*****
* CONFIGURATION DEFINITION *
* NETWORK INCLUDES APPLICATION PROGRAM LIST, NCPBS AND SWITCH01. *
*****
APPCON01,NCPBS,SWITCH01
BKEND
CATALS B.ATCCON11
BKEND B.ATCCON11
*****
*
* CONFIGURATION DEFINITION *
* NETWORK INCLUDES APPLICATION PROGRAM LIST, LOCAL 3270, *
* NCPBS AND SWITCH02. THE BUFFER VALUES ARE PICKED UP FROM *
* ATCSTR00. *
*****
APPCON01,NCPBS,LOCCON01,SWITCH02
BKEND

```

NOTE- ATCCON00 is used when first bringing up VTAM with the initial start definition. It maybe used afterwards by specifying CONFIG=00,LIST=00 at VTAM startup time.

DOS/VS SAMPLES

DOS/VS USSTAB INSTALLATION JCL

```
// JOB USSTAB
// OPTION CATAL
  PHASE name,*
// EXEC ASSEMBLY,REAL
Source Deck
/*
// EXEC LNKEDT
/*
/&
```

DOS/VS MODETAB INSTALLATION JCL

```
// JOB MODETAB
// OPTION CATAL
  PHASE name,*
// EXEC ASSEMBLY,REAL
Source Deck
/*
// EXEC LNKEDT
/*
/&
```

DOS/VS INTERPRET TABLE INSTALLATION JCL

```
// JOB ASSEMBLE
// OPTION CATAL
  PHASE name,*
// EXEC ASSEMBLY,REAL,SIZE=64K
Source Deck
/*
// EXEC LNKEDT
/&
```

## DOS/VS EXAMPLE FOR LINKING 3704/5 LOAD UTILITY CSECTS TO VTAM

```

// JOB PUNCH NCP CSECT MODULES
// ASSGN SYS001,3330,VOL=RGW110,SHR
// DLBL IJSYSPR,'NCP PRL'
// EXEC CORGZ
  MERGE PRV,RES
  COPYR CXWMAXI1,CXWMAXI2,CXWMINI1,CXWMINI2
/*
/&
// JOB LINKEDIT NCP MODULES
// OPTION CATAL
  PHASE CXWMAXI1,*
  INCLUDE CXWMAXI1
  PHASE CXWMAXI2,*
  INCLUDE CXWMAXI2
  PHASE CXWMINI1,*
  INCLUDE CXWMINI1
  PHASE CXWMINI2,*
  INCLUDE CXWMINI2
// EXEC LNKEDT
/*
/&

```

NOTE- This step is required for DOS/VS VTAM. VTAM must have these modules link-edited in order to load the NCP.

## DOS/VS EXAMPLE FOR INSTALLING 3704/5 INITIAL TESTS

```

// JOB CREATE 3704/5 INITIAL TEST FILE
// DLBL IJSYSPH,'INITTEST',300
// EXTENT SYSPCH,,,,7220,14
ASSGN SYSPCH,SYSRES
// EXEC CSERV
  PUNCH IFU3705D,IFU3705E
/*
/&
CLOSE SYSPCH,X'00D'
/&

```

NOTE- This step is required for DOS/VS VTAM. VTAM must have these modules in a direct access file.

## DOS/VS SAMPLES

### DOS/VS VTAM START PROCEDURE

```
// JOB CATALP VTAM START PROCEDURE
// EXEC MAINT
    CATALP $INET,VM=0.0,EOP=/+
* START VTAM EXECUTION
// ASSGN SYS000,UA
// DLBL TRFILE,'VTRACE',0
// EXTENT SYS001,,,,7600,19
// ASSGN SYS001,SYSRES
// DLBL NCP45F,'NCP FOR SSS'
// EXTENT SYS008
// DLBL NCPSN2,'HAL NCP'
// EXTENT SYS008
// ASSGN SYS008,SYSRES
// DLBL DIAGFLE,'INITTEST'
// EXTENT SYS008,,,,7220,14
// ASSGN SYS008,SYSRES
// DLBL NCPDUMP,,0,DA
// EXTENT SYS007,,,,6880,12
// ASSGN SYS007,SYSRES
// OPTION NODUMP
// PAUSE ENTER // EXEC ISTINCVT,SIZE=350K
/+ END OF PROCEDURE
/*
/&
```

NOTE- This procedure allows the operator to select either of two NCP load modules. The use of this procedure allows VTAM to be executed in 'F1' only. It also allows update of the procedure catalog while VTAM is being executed. The sample does include the file that holds the NCP initial test, therefore NCP initial test may be specified in the PCCU macro of the NCP definition.

## DOS/VS ACF/VTAM START PROCEDURE (ONE NCP)

```
// JOB CATALP VTAM START PROCEDURE
// EXEC MAINT
    CATALP $INNET,VM=0.0,EOP=/+
* START VTAM EXECUTION
* MUST DEFINE A TRACE FILE
// ASSGN SYS000,UA
// DLBL TRFILE,'VTRACE',0
// EXTENT SYS001,,,,7896,48
// ASSGN SYS001,3340,VOL=DOS111,SHR
// DLBL NCPACFI,'HAL NCP'
// EXTENT SYS008,DOS111,1,0,2880,60
// ASSGN SYS008,3340,VOL=DOS111,SHR
// PAUSE ENTER // EXEC ISTINCVT,SIZE=500K
/+ END OF PROCEDURE
/*
/&
```

NOTE- This procedure allows the operator to select either of two NCP load modules. The use of this procedure allows VTAM to be executed in 'F2' only. It also allows update of the procedure catalog while VTAM is being executed. The sample does include the file that holds the NCP initial test, therefore NCP initial test may be specified in the PCCU macro of the NCP definition.

DOS/VS SAMPLES

DOS/VS NCP STAGE 1 GENERATION JCL

```
// JOB NCP STAGE1 GENERATION
// ASSGN SYSSLB,3330,VOL=RGW110,SHR
// DLBL IJSYSSL,'NCP PSL'
// OPTION DECK
// EXEC IFZASM,SIZE=64K
*****
*
*          SOURCE FOR NCP3 DOS
*
*****
/*
/ &
```

NOTE- This step will produce the cards necessary for the rest of the NCP generation. The output of this stage will have to be adjusted to point to the NCP macro library, if the NCP macros are put in a private library. The assemblies produced by the stage 1 job stream should be error free. The link-edit stage will have unresolved EXTRNS, but if all the assembly steps were correct, these can be ignored.

PLEASE NOTE

The stage 1 output should be closely examined. Default: do not create MNOTES. All defaults should be checked for correct value.



## DOS/VS EXAMPLE OF STAGE 2 NCP GENERATION JCL

```

// JOB SATLTCT
// ASSGN SYSSLB,3330,VOL=RGW110,SHR
// DLBL IJSYSSL,'NCP PSL'
// OPTION DECK,NOXREF
// EXEC IFZASM,SIZE=64K
PUNCH ' CATALR SATLTCT'
$SATLTCT CSECT
        CXTLTC SWTD=NO,OLTT=1
* PUT STATE ADDRESS TABLES ON 64 BYTE BOUNDARY
PADSAT EQU 64+64*((*-$SATLTCT-1)/64)-(*-$SATLTCT)
        DS (PADSAT)X
* STATE ADDRESS TABLES
* BSC EBCDIC
        RNSTAEB BSCPTPT=0,BSCNTL=1,MPTRB=0
* DUPLEX LINE CONTROL
        CXBDLST
        SPACE
        END

/*
/&

```

NOTE- This is an example of the job stream needed for the assembly of one of the NCP stages. There are approximately 15 stages. Each of the stages will produce an object module that should be stored using the next example. The final step is a link-edit that will store the generated NCP load module in the system core-image library.

## DOS/VS JCL TO STORE NCP OBJECT MODULES FROM STAGE 2

```

// JOB STORE NCP OBJECT MODULES
// ASSGN SYSRLB,3330,VOL=DOS111,SHR
// DLBL IJSYSRL,'NCP PRL'
// EXEC MAINT
*****
*
*       INSERT OBJECT FROM NCP ASSEMBLY HERE
*       STEP STORES OBJECT IN FILE FOR LINK-EDIT STAGE
*
*****
/*
/&

```

## DOS/VS SAMPLES

NOTE- This library is used by the link-edit stage. If a new NCP generation is required, a different library should be specified unless the old NCP is not to be updated.

### DOS/VS SAMPLE FOR MOVING NCP LOAD MODULE

```
// JOB PUNCH NCPSSS
// DLBL IJSYSPH,'HAL NCP',300
// EXTENT SYSPCH,DOS111,1,0,2880,60
ASSGN SYSPCH,SYSRES
// EXEC CSERV
  PUNCH NCPSN2
/*
/&
CLOSE SYSPCH,X'00D'
/&
```

NOTE- This step is required for DOS/VS VTAM. VTAM expects to find the NCP load module in a library specified in the VTAM start procedure. If the NCP Generation is done on another DOS system, at least two modules must be punched for the new system, NCPXXX and NCPxxxr where NCPxxx is the NCP name specified in the newname parameter of the NCP build macro. NCPxxxR is the resource resolution table required by the access method (EXTM or VTAM). If block handlers were specified for Start/Stop or BSC devices, NCPxxxB should also be punched.

DOS/VS SAMPLE JCL TO DUMP A 3705 AND PRINT THE DUMP

```
// JOB DUMP DOS NCP
// ASSGN SYS007,X'0BF'
// DLBL NCPDUMP,'NCP3DUMP',,DA
// EXTENT SYS008,,,,6880,12
// ASSGN SYS008,SYSRES
// EXEC IFUREAD
  DUMP FROMADDR=200,FORMAT=Y,BUF=Y
/*
/ &
```

NOTE- Options for this procedure are found in Chapter 8 of the NCP Generation Manual, GC30-3008. This example uses the same area defined in the VTAM start procedure.

DOS/VS SAMPLE JCL TO PRINT A 3705 DUMP TAKEN BY VTAM

```
// JOB PRINT DOS NCP
// DLBL NCPDUMP,,0,DA
// EXTENT SYS007,,,,6880,12
// ASSGN SYS007,SYSRES
// EXEC IFUDUMP
  DUMP FROMADDR=200,FORMAT=Y,BUF=Y
/*
/ &
```

NOTE- Options for this procedure are found in Chapter 8 of the NCP Generation manual, GC30-3008. This example operates on the dump area that is defined in the VTAM start procedure.

OS/VS1 SAMPLES

5.2 : OS/VS1 SAMPLES

REFERENCES

OS/VS1 Planning and Use Guide	GC24-5090
OS/VS1 System Generation Reference	GC26-3791
OS/VS1 Access Methods Services	GC26-3840
OS/VS1 VTAM System Programmer's Guide	GC27-6996
OS/VS1 JCL Reference	GT28-0618
OS/VS VTAM Reference Summary	GX27-0034
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269
ACF/VTAM Reference Summary	SX27-3021

OS/VS1 SYSTEM GENERATION MACRO INSTRUCTIONS

The actual SYSGEN specifications are not included. VTAM and GTF should be included as part of the sysgen. The samples included are based on the availability of two 3330 drives, an additional scratch drive and a tape drive. The VTAM system specifications are consistent with the NCP samples in Chapter 7 of this manual.

```

*****
*
* THIS IS A PORTION OF STAGE 1 SYSGEN FOR THE VS/1-R6.0
*
*****
TITLE 'VS1/REL6.0 - HARDWARE SPECIFICATION - CHANNEL 0'
  CHANNEL ADDRESS=0,TYPE=MULTIPLEXOR
  IODEVICE ADDRESS=00A,UNIT=3505
  IODEVICE ADDRESS=00B,UNIT=3525,FEATURE=TWOLINE
  IODEVICE ADDRESS=00C,UNIT=2540R,MODEL=1
  IODEVICE ADDRESS=00D,UNIT=2540P,MODEL=1
  IODEVICE ADDRESS=00E,UNIT=3211
  IODEVICE ADDRESS=00F,UNIT=1403,MODEL=N1,FEATURE=UNVCHSET
  IODEVICE ADDRESS=(010,2),UNIT=3791L (3790 LOCAL)

```

```

        IODEVICE ADDRESS=01F,UNIT=3215,MODEL=1
TITLE 'VSI/REL6.0 - HARDWARE SPECIFICATION - CHANNEL 0 (3270 LOCAL)'
        IODEVICE ADDRESS=(020,3),UNIT=3277,MODEL=2,
        FEATURE=(EBKY3277,AUDALRM,MAGCDRD,NUMLOCK,SELPEN,DOCHAR) *
        IODEVICE ADDRESS=023,UNIT=3286,MODEL=2,FEATURE=DOCHAR
        IODEVICE ADDRESS=(024,2),UNIT=3284,MODEL=2,FEATURE=DOCHAR
        IODEVICE ADDRESS=(026,14),UNIT=3277,MODEL=2,
        FEATURE=(EBKY3277,AUDALRM,MAGCDRD,NUMLOCK,SELPEN,DOCHAR) *
TITLE 'VSI/REL6.0 - HARDWARE SPECIFICATION - CHANNEL 0 (3705)'
        IODEVICE ADDRESS=05F,UNIT=3705,ADAPTER=CA1
        IODEVICE ADDRESS=0BF,UNIT=3705,ADAPTER=CA2
TITLE 'VSI/REL6.0 - HARDWARE SPECIFICATION - CHANNEL 1'
        CHANNEL ADDRESS=1,TYPE=SELECTOR
        IODEVICE ADDRESS=(130,4),UNIT=2314,IOREQUE=PRIORITY
        IODEVICE ADDRESS=(160,8),UNIT=3330,IOREQUE=PRIORITY
TITLE 'VSI/REL6.0 - HARDWARE SPECIFICATION - CHANNEL 2'
        CHANNEL ADDRESS=2,TYPE=BLKMPXR
        IODEVICE ADDRESS=(230,8),UNIT=2314,IOREQUE=PRIORITY
        IODEVICE ADDRESS=(260,8),UNIT=3330,IOREQUE=PRIORITY
TITLE 'VSI/REL6.0 - HARDWARE SPECIFICATION - CHANNEL 3'
        CHANNEL ADDRESS=3,TYPE=SELECTOR
        IODEVICE ADDRESS=(330,6),UNIT=2314,IOREQUE=PRIORITY
        IODEVICE ADDRESS=(360,8),UNIT=3330,IOREQUE=PRIORITY
        IODEVICE ADDRESS=(380,4),UNIT=3420,MODEL=3,
        FEATURE=(9-TRACK,DUALDENS) *
        IODEVICE ADDRESS=3BF,UNIT=3705,ADAPTER=CA2
TITLE 'VSI/REL6.0 - CONTROL PROGRAM SPECIFICATIONS'
        CTRLPROG ASCII=INCLUDE,          INCLUDE ASCII SUPPORT *
        AUTO=(VMSTART,NOLIST),          AUTO START LIST *
        DYNINTR=(10,50,200,10000),      DYNAMIC DISPATCH PARAMETERS *
        DYNPART=(P3-P5),                PARTITIONS IN DYNAMIC DISPATCH *
        FETCH=STD,                      NO PCI FETCH (VM SYS) *
        MAXIO=80,                       GENERATE 80 12-STAR *
        OPTIONS=(BLDL,NODDRSYS,NODEBCHK,RDE,RER,TRSVCTBL), *
        OVERLAY=ADVANCED,                FULL-OVERLAY CHECKING *
        RESIDNT=(ACSMETH,ERP,RENTCODE,TR SVC),          VTAM REQ *
        SECURITY=FPROT,                  FETCH PROTECT PARTITIONS *
        SYSQUE=16,                      16K SQA INITIALLY *
        TRACE=20,                       20 ENTRY SYSTEM TRACE TABLE *
        TZ=(W,5,0),                    5 HOURS WEST OF GMT IS LOCAL *
        VIRTUAL=4096,                   4 MEG VIRTUAL MACHINE *

```

VTAM REQUIRED

```

VSAM=INCLUDE          VIRTUAL SEQ ACCESS METHOD  VTAM REQ

```

VTAM REQUIRED

OS/VSI SAMPLES

```

DATAMGT ACSMETH=(BTAM,ISAM,TCAM,VTAM), ALL ADDITIONAL VTAM REQ*
IND=YES INCLUDE INDUSTRY SUB-SYSTEM
EDITOR SIZE=(200,40)
GRAPHICS GSP=EXCLUDE,PORRTNS=EXCLUDE NO GRAPHICS
JES ALCUNIT=73608, SPOOL ALLOCATION UNIT *
BUFSIZE=3952, JES BUFFER SIZE (3952+144=4096) *
JOBLOG=YES, LOG WTO AND WTORS *
JOBQEXT=25, JOBQ EXTENTION ENTRIES *
JOBQINT=200, INITIAL RESIDENT ENTRIES *
JOBQNX=10, NUMBER OF EXTENTIONS *
JOBQVOL=VSIR60, VOL SER OF SYS1.JOBQUEUE *
JOUTLIM=0, NO MAX TO OUTPUT LINES *
NUMBUFS=100, NUMBER OF I/O BUFFERS IN POOL *
RDR=(R=2,Y=5,B=800,A=2,N=84), *
SPOLCAP=80, 80 PERCENT SPOOL GIVES MESSAGE *
SPOLVOL=VSIR60, VOL SER OF SYS1.SYSPPOOL *
STEPWTP=60, MAX WTP PER JOB STEP *
SWDSLMT=80, NUMBER OF RESERVED JOBQ BLOCKS *
WTLRCDS=2000, MAX WTL HELD PER DATA SET *
WTR=(W=4,U=0,Z=6,B=2660)
LOADER SIZE=256
MACLIB EXCLUDE=(GPS,OCR), NOT NEEDED *
INCLUDE=ISSP INDUSTRY SYSTEM SUPPORT MACROS
PAGE DEV=3330, PAGING DEVICE TYPE (FOR NON-VM USE) *
SIZE=(CYL,35), 35 CYLINDERS OF AREA *
VOLNO=VSIR60 VOLSER OF PAGING PACK

```

INCLUDE PARTITION FOR GTF

```

PARTITNS P0(C-*,S-128), SYSTEM PARTITION-NEED 128K for VSAM *
P1(C-*,S-64), SYSTEM PARTITION *
P2(C-F,S-256), HI-PRIORITY USER PARTITION *
P3(C-A,S-320), NORMAL USER PARTITION *
P4(C-B,S-320), .... *
P5(C-C,S-320), .... *
P6(C-N,S-768), LARGE USER PARTITION *
P7(C-M,S-320), LOW-PRIORITY USER PARTITION *
P8(C-*,S-0) LOW-PRIORITY SYSTEM PARTITION
SCHEDULR ALTCONS=029, ALTERNATE CONSOLE ADDRESS *
BCLMT=100, 100 SLOTS FOR BROADCAST *
CONSOLE=01F, PRIMARY CONSOLE ADDRESS *
ESV=SMF, I/O STATS TO SMF DATA SET *
EVA=(15,15), TEMP READ/WRITE THRESHOLD *
HARDCPY=SYSLOG, HARD COPY TO SYSPPOOL DATA SET *
IOC=01F, INTEGRATED OPERATOR CONSOLE *
JOBQLMT=400, 400 BLOCKS PER INIT *
JOBQLST=20, RESIDENT LIST ENTRIES *
JOBQTMT=100, BLOCKS FOR CRITICAL SITUATION *

```

```

OPTIONS=(MCS,REMOTE,VM), FULL USEFUL OPTIONS *
REPLY=5, NUMBER OF WTOR REPLY BUFFERS *
SMF=FULL, FULL-BLOWN SMF *
SYSWFMT=20, QUEUE BLOCKS PER LOGICAL TRACK *
SYSWTMT=2200, CRITICAL RDR, WTR REQUIREMENT *
VLMOUNT=AVR, AUTO VOLUME RECOGNITION *
WTLCLSS=L, SYSOUT=L FOR LOG *
WTOBFRS=60 NUMBER OF WTO BUFFERS *
TITLE 'VSI/REL6.0 - SECONDARY CONSOLE SPECIFICATION'
SECONSOLE AREA=(5,6,8), LOGICAL SCREEN AREAS *
CONSOLE=020, ADDRESS OF THIS CONSOLE *
PFK=12, USE ALL 12 PF KEYS *

```

VTAM REQUIRES SYSTEM CONSOLES TO HAVE ROUTCDE=ALL

```

ROUTCDE=ALL, ROUTE ALL MESSAGES *
VALDCMD=(1,2,3) ALL COMMANDS ARE VALID
SPACE 2
SECONSOLE AREA=(5,6,8), LOGICAL SCREEN AREAS *
CONSOLE=021, ADDRESS OF THIS CONSOLE *
PFK=12, USE ALL 12 PF KEYS *
ROUTCDE=ALL, ROUTE ALL MESSAGES *
VALDCMD=(1,2,3) ALL COMMANDS ARE VALID
SECONSOLE AREA=(5,6,8), LOGICAL SCREEN AREAS *
CONSOLE=022, ADDRESS OF THIS CONSOLE *
PFK=12, USE ALL 12 PF KEYS *
ROUTCDE=ALL, ROUTE ALL MESSAGES *
VALDCMD=(1,2,3) ALL COMMANDS ARE VALID
TITLE 'VSI/REL6.0 - USER SVC SPECIFICATION'
SVCTABLE SVC-255-D1-S0, USER SVC - TYPE 1
TITLE 'VSI/REL6.0 - PRINTER UNIVERSAL CHARACTER SET SPECIFICATION'
UCS DEFAULT=(H11,HN),IMAGE=ALL
TITLE 'VSI/REL6.0 - GENERATE - STAGE 2 SYSGEN INPUT'
GENERATE GENTYPE=ALL, FULL SYSGEN *
INDEX=SYS1, INDEX SYSTEM DATASETS SYS1 *
RESVOL=(VSI60,3330) SYSTEM RESIDENCE VOLUME
END

```

NOTE- Information for preparing the OS/VSI system for VTAM is found in OS/VSI System Programming Library: VTAM (GC27-6996), and the OS/VSI Sysgen Reference (GC26-3791)

OS/VSI SAMPLES

OS/VSI SYSTEM PARAMETER DEFINITIONS

```
./ ADD NAME=IEAAPFPS,LEVEL=00,SOURCE=0,LIST=ALL
IMS.RESLIB USRLB2,
IMS.PGMLIB USRLB2,
SYS1.VTAMLIB IPOR21,
SYS1.NCPLIB USRLB2,
SYS1.LINKLIB2 USRLB1,
SYS2.LINKLIB USRLB1,
SYS1.OLTLIB USRLB1,
SYS1.CDSLIB USRLB1,
LAST.ENTRY DUMMY
```

```
./ ADD NAME=LNKLSTPS,LEVEL=00,SOURCE=0,LIST=ALL
      SYS1.LINKLIB,                XXXXXXXXXXXX
      SYS1.LINKLIB2,  USER    UTILITIES  XXXXXXXXXXXX
      IMS.RESLIB,      IMS LIBRARY  XXXXXXXXXXXXXXXXXXXX
      SYS1.TCAMLIB,    TCAM PROGRAMS  XXXXXXXXXXXXXXXXXXXX
      NCP6.SSPLIB,     NCP6 UTILITIES  XXXXXXXXXXXXXXXXXXXX
      SYS2.LINKLIB     USER LINK LIB
```

```
./ ADD NAME=VATLSTPS
USRLB1,1,0,3330-1 ,N LIBRARY PACK
USRLB2,1,0,3330-1 ,N LIBRARY PACK
DLIB01,1,2,3330 ,N VS1 DLIB
VS1RES,1,2,3330 ,N SYSRES
NCPLIB,1,0,3340 ,N NCP6 LIBRARY
```

NOTE- Information for preparing the OS/VSI system parameters is found in OS/VSI Sysgen Reference (GC26-3791)



## OS/VS1 START PARAMETER DEFINITION (VTAM AND ACF/VTAM)

```

./  ADD  NAME=ATCSTR00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*  MINIMUM STARTUP - SHOULD BE USED FOR OS/VS VTAM AND ACF/VTAM  *
*
*****
TRACE,TYPE=SMS,ID=VTAMBUF,                                     X
MAXSUBA=31,                                                    X
SSCPID=01,                                                      X
NETSOL=NO

```

NOTE- The above start-up definition can be used to initialize VTAM. The default buffer values are unusable and should be changed before activating any nodes.

OS/VSI VTAM START PARAMETER DEFINITION (TEST)

```

./ ADD NAME=ATCSTR01,LIST=ALL,SOURCE=0,LEVEL=00
*****
*
* VTAM START PARAMETERS
* NOTE: THE IOBUF (BSZ) PARAMETER MUST EQUAL THE UNITSZ VALUE
* IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE
* BUFFER POOL START PARAMETERS IS EITHER
* XXBUF=(BNO,BSZ,BTHZ) AS INDICATED BELOW.
*
*****
*****
CONFIG=01,          PREDEFINED LIST OF MAJOR NODES (ATCCON01)      X
SSCPID=01,          VTAM IDENTIFICATION                            X
TRACE,TYPE=SMS,ID=VTAMBUF,                                     X
NETSOL=NO,          NETWORK SOLICITOR IS NOT TO BE STARTED       X
MAXSUBA=15,         NUMBER OF MAJOR NODES, VALUE MUST ALSO BE IN NCP X
APBUF=(64,,58),     ACTIVE & INACTIVE BUFFER POOL - PAGEABLE STORAGE X
CRPLBUF=(120,,110), RPL-COPY POOL IN PAGEABLE STORAGE            X
IOBUF=(71,152,50),  FIXED STORAGE MESSAGE POOL                   X
LFBUF=(33,,33),     LARGE FIXED STORAGE I/O BUFFER POOL         X
LPBUF=(100,,90),    LARGE PAGEABLE-STORAGE BUFFER POOL          X
NPBUF=(100,,90),    DEVICE CONNECTION BUFFER POOL, PAGEABLE     X
PPBUF=(130,152,120), PAGEABLE DATA BUFFER POOL                  X
SFBUF=(40,,40),     SMALL FIXED STORAGE BUFFER POOL             X
SPBUF=(12,,12),     SMALL PAGEABLE-STORAGE BUFFER POOL          X
UECBUF=(130,,120),  USER-EXIT CONTROL BLOCK (UECB) POOL        X
WPBUF=(130,,120)    DEVICE CONNECTION BUFFER POOL - PAGEABLE
./      ENDUP
/*

```

NOTE- Details for coding and filing start parameters are found in Chapter 7 of the OS/VSI System Programmer's Guide(GC27-6996).

ATCSTR00 is required by VTAM even if all defaults are taken. The system defaults will not support more than one active application program, including the Network Solicitor, and will not support an active NCP. ATCSTR01 specifies the values necessary to support a small network consisting of an NCP with 6 Ports, 6 Start/Stop terminals, 4 local 3270's, 6 BSC terminals, 7 PU's, and 32 LU's.

## OS/VSI ACF/VTAM START PARAMETER DEFINITION (TEST)

```

./  ADD  NAME=ATCSTRAC,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*  ATCSTR00 IS REQUIRED OR THIS DEFINITION CAN REPLACE IT.
*
*  NOTE:  THE IOBUF (BUFSIZE) PARAMETER MUST EQUAL THE UNITSZ VALUE
*         IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE
*         BUFFER POOL START PARAMETERS IS EITHER
*         XXBUF=(BASENO,BUFSIZE,SLOWPT,XPANNO,XPANPT)
*         OR XXBUF=VBSZ AS INDICATED BELOW.
*         XPANNO OF 1 WILL CAUSE ACF/VTAM TO ACQUIRE 1 PAGE OF
*         BUFFERS SINCE THEY ARE ALWAYS ACQUIRED IN PAGE
*         INCREMENTS.
*****
TRACE,TYPE=SMS,ID=VTAMBUF,
TNSTAT,CNSL,TIME=10,
MAXSUBA=31,
NOPROMPT,
CONFIG=AC,
SSCPID=01,
HOSTSA=13,
MAXAPPL=40,
VTAMEAS=150,
NETSOL=NO,
SFBUF=(60,,2,,01,3),   *** XPANNO OF 1 WILL CAUSE ACF/VTAM TO ACQUIRE
LFBUF=(37,,2,,01,3),   1 PAGE OF BUFFERS SINCE THEY ARE ALWAYS
LPBUF=(32,,1,,01,2),   ACQUIRED IN PAGE INCREMENTS ***
NPBUF=(23,,2,,01,3),
CRPLBUF=(40,,2,,01,3),
IOBUF=(60,152,4,,01,26),
  Note - The difference between SLOWPT and XPANPT must be greater than
         the largest MAXBFRU defined in any NCP or Local definition.
APBUF=(66,,2,,01,3),
SPBUF=(66,,2,,01,3),
UECBUF=(39,,2,,01,3),
WPBUF=(27,,2,,01,3),
PPBUF=(29,152,2,,01,3)
./      ENDUP
/*
//

```

NOTE- Details for coding and filing start parameters are found in the ACF/VTAM System Programmers Guide: VTAM (SC38-0258).

OS/VSI SAMPLES

OS/VSI VTAM APPLICATION DEFINITION EXAMPLE

```

./      ADD      NAME=APPCON01,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*          PRTCT=PASSWORD,          PASSWORD MUST ALSO BE DEFINED IN
*          APPLICATION PROGRAM 'ACB'.
*          BUFFACT=N|1,             APPLIES ONLY TO BASIC NEWE.
*          AUTH=(ACQ|NOACQ,        ALLOWS APPLICATION PROGRAM TO USE
*          THE OPNDST MACRO WITH THE
*          ACQUIRE OPTION.
*          BLOCK|NOBLOCK,         NOT USED WITH SDLC OR 3270.
*          PASS|NOPASS,          ALLOWS USE OF CLSDST MACRO
*          WITH THE PASS OPTION.
*          TCAM)                 ALLOWS PATH TO TCAM
*
*****
SAMP1   APPL   AUTH=(ACQ)
DBDCCICS APPL   AUTH=(ACQ,BLOCK)
BATCH   APPL   AUTH=(ACQ)
VSPC    APPL   AUTH=(ACQ,NOBLOCK,NOPASS),PRTCT=ALVERTA
INQ3790 APPL   AUTH=(NOACQ)
INQALL  APPL   PRTCT=OKAYOKAY,AUTH=(ACQ)
HOSTPGM1 APPL  AUTH=(NOACQ)
INQ     APPL   AUTH=(ACQ,BLOCK)
TEST1   APPL   AUTH=(ACQ,PPO)
BASIC2  APPL   AUTH=(ACQ,PASS,SPO,BLOCK)
IEDQTCAM APPL  AUTH=(ACQ,TCAM,BLOCK),PRTCT=PASSWORD
TCAM    APPL   AUTH=(ACQ,TCAM,BLOCK),PRTCT=PASSITON
RTAM    APPL   AUTH=ACQ,BUFFACT=2
./      ENDUP
/*

```

NOTE- Defining application parameters is described in Chapter 5 (Defining Application Programs) of the OS/VSI VTAM Systems Programmer's Guide(GC27-6996).

The following applies to VTAM II, not ACF/VTAM:

When a definition is changed in SYS1.VTAMLST, the member name must be deleted from the SYS1.VTAMOBJ data set, otherwise VTAM will not use the new version. This applies to all members of SYS1.VTAMLST except the start and configuration definitions.

## OS/VSI ACF/VTAM APPLICATION DEFINITION EXAMPLE

```

./      ADD      NAME=APPCONAC
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*      ACBNAME=ACBNAME,      MINOR NODE NAME. DEFAULTS TO NAME
*                             ON APPL STATEMENT.
*      PRTCT=PASSWORD,      PASSWORD MUST ALSO BE DEFINED IN
*                             APPLICATION PROGRAM 'ACB'.
*      BUFFACT=N|1,          MAXIMUM NUMBER OF VTAM PPBUF'S. IT
*                             APPLIES TO BASIC MODE ONLY.
*      VPACING=N,           MAXIMUM NUMBER OF NORMAL-FLOW
*                             REQUESTS FROM LU.
*      MODETAB=MODETAB NAME, NAME OF MODETAB TO BE USED BY THE
*                             APPLICATION.
*      DLOGMOD=DEFAULT LOG-  NAME OF LOGMODE ENTRY TO BE USED
*                             MODE ENTRY IF NONE IS OTHERWISE PROVIDED.
*      EAS=N|404,           NUMBER OF CONCURRENT SESSIONS THIS
*                             APPLICATION PROGRAM WILL HAVE WITH
*                             ANY LOGICAL UNITS.
*      AUTH=(ACQ|NOACQ,     ALLOWS APPLICATION PROGRAM TO USE
*                             THE OPNDST MACRO WITH THE
*                             ACQUIRE OPTION.
*      PPO|SPO|NOPO,        DEFAULTS TO NOPO. SEE THE PROGRAM
*                             OPERATOR GUIDE FOR ITS USE.
*      BLOCK|NOBLOCK,      BASIC MODE ONLY.
*      VPACE|NVPACE,        DETERMINES IF APPLICATION IS TO BE
*                             SUBJECT TO VPACING FOR LU. DEFAULTS
*                             TO VPACING.
*      PASS|NOPASS)        ALLOWS USE OF CLSDST MACRO
*                             WITH THE PASS OPTION.
*
*****
SAMP1  APPL  AUTH=(ACQ),DLOGMOD=S3270,EAS=2
CICS   APPL  AUTH=(ACQ),EAS=40
PROG1  APPL  AUTH=(ACQ),EAS=10
INQALL APPL  PRTCT=OKAYOKAY,EAS=10
RTAM   APPL  AUTH=(ACQ),EAS=10
BATCn  AFPL  AUTH=(ACQ),EAS=1
INQ3790 APPL AUTH=(NOACQ),MODETAB=MODE3790,EAS=4
TEST3  APPL  AUTH=(ACQ),EAS=1
SYSSSS APPL  AUTH=(ACQ),DLOGMOD=BATCH,EAS=1
/*

```

OS/VSI SAMPLES

NOTE- Defining and filing application parameters is described in Defining VTAM Application Programs of the ACF/VTAM Systems Programmers Guide: (SC38-0258).

OS/VSI NCP DEFINITION EXAMPLE

```
./      ADD    NAME=NCPSN2,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
*****
*                                           *
*      SOURCE FOR NCP                      *
```

See NCP examples in Chapter 7.

```
*                                           *
*****
./      ENDUP
/*
```

Notes- Chapter 4 of the OS/VTAM System Programmer's Guide and the NCP/VTAM generation guide are required. The host macro definition must be consistent with the VTAM start parameters.

The source from the NCP generation should be used here after removing the assembler control cards. When testing the NCP the first time, all the PU's should contain the VTAM parameter 'ISTATUS=INACTIVE'. After loading the NCP they should be varied 'active' individually. Later, when the PU and its resources are operational, this member can be updated to change the ISTATUS to 'ACTIVE'.

The following applies to VTAM II, not ACF/VTAM:

When a definition is changed in SYS1.VTAMLST, the member name must be deleted from the SYS1.VTAMOBJ data set, otherwise VTAM will not use the new version. This applies to all members of SYS1.VTAMLST except the start and configuration definitions.

## OS/VS1 CONFIGURATION DEFINITION

```

./      ADD      NAME=ATCCON00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*   START-UP CONFIGURATION, APPLICATION CONFIGURATION ONLY
*
*****
APPCON01
./      ADD      NAME=ATCCON01,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*   START-UP CONFIGURATION, LOCAL 3270, AND NCP
*
*****
APPCON01,LOCCON01
./      ENDUP
/*
//

```

NOTE- To allow the operator to activate the NCP, ATCCON00 should be specified. To autoload the NCP, ATCCON01 should be specified.

## OS/VSI SAMPLES

### OS/VSI USSTAB INSTALLATION JCL

```
//USSTAB JOB 'USSTAB ASSEMBLY',CLASS=C
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
Source Deck
//LKED.SYSLMOD DD DSN=SYS1.VTAMLIB(Name),DISP=SHR
/*
```

### OS/VSI MODETAB ASSEMBLY

```
//MODETAB JOB 'MODETAB ASSEMBLY',MSGLEVEL=1,CLASS=C
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
Source Deck
//LKED.SYSLMOD DD DSN=SYS1.VTAMLIB(Modetab Name),DISP=SHR
/*
```

### OS/VSI INTERPRET TABLE INSTALLATION JCL

```
//LOGASM JOB 'LOGTAB ASSEMBLY'
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
Source Deck
//LKED.SYSLMOD DD DSN=SYS1.VTAMLIB(Name),DISP=SHR
/*
```

NOTE- The interpret table is required in order to allow non-SDLC terminals to 'logon' to application programs via the Network Solicitor. Chapter 9 of the OS/VSI VTAM System Programmers Guide describes the generation of the interpret table.



## OS/VSI EXAMPLE OF START PROCEDURE (VTAM OR ACF/VTAM)

```

//PROCUP JOB 123,'UPDATE PROCS',REGION=100K
//      EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD  DSN=SYS1.PROCLIB,DISP=SHR
//SYSIN DD  DATA
./      ADD LIST=ALL,NAME=NET,LEVEL=01,SOURCE=0
./      NUMBER NEW1=10,INCR=10
//NET EXEC PGM=ISTINA01
//VTAMLIB DD  DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD  DSN=SYS1.VTAMLST,DISP=SHR
//VTAMOBJ DD  DSN=SYS1.VTAMOBJ,DISP=SHR
//INITEST DD  DSN=SYS1.LINKLIB,DISP=SHR
//NCPLOAD DD  DSN=SYS1.NCPLOAD,DISP=SHR
//NCPDUMP DD  DSN=NCPDUMP,DISP=MOD
//OLTCDSDD DD  DSN=OLTLIB,DISP=SHR
//SYMSYM DD  DSN=SYMSYM,DISP=SHR
./      ADD LIST=ALL,NAME=NETSSC,LEVEL=01,SOURCE=0
./      NUMBER NEW1=10,INCR=10
//NET EXEC PGM=ISTINA01
//STEPCAT DD  DSN=USRVCAT,DISP=SHR
//VTAMLIB DD  DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD  DSN=SYS1.VTAMLST,DISP=SHR
//VTAMOBJ DD  DSN=SYS1.VTAMOBJ,DISP=SHR
//INITEST DD  DSN=SYS1.LINKLIB,DISP=SHR
//LRNCKPT DD  DSN=LRNCKPT,DISP=MOD
//NCP001 DD  DSN=NCP001,DISP=MOD
//LOC001 DD  DSN=LOC001,DISP=MOD
//SWT001 DD  DSN=SWT001,DISP=MOD
//NCPLOAD DD  DSN=SYS1.NCPLOAD,DISP=SHR
//NCPDUMP DD  DSN=NCPDUMP,DISP=MOD
./      ENDUP
//

```

NOTE- The DD cards for data sets OLTLIB and CDSLIB should be omitted unless the Customer Engineer has prepared these data sets. The system can be installed without these data sets but they must be installed if TOLTEP is to be used.

OS/VSI SAMPLES

OS/VSI RTAM GENERATION SAMPLE

```

LINE LINEID=1,LDESCR=(1,1), BSC,FDX,TRANSPARENCY X
  AUTOLOG=YES
LINE LINEID=2,LDESCR=(1,0), BSC,FDX,NO TRANSPARENCY X
  AUTOLOG=YES
LINE LINEID=3,LDESCR=(0,1), BSC,HDX,TRANSPARENCY X
  AUTOLOG=YES
LINE LINEID=4,LDESCR=(0,0), BSC,HDX,NO TRANSPARENCY X
  AUTOLOG=YES
* 2770 COMPRESS/NO TRANSPARENCY 512 BYTE BUFFER
  TERMINAL TDESCR=(3,0,3,6),LNUM=1,COMPRES=YES, X
  BUFXSIZ=512,TERMID=1
*
* 2770 COMPRESS/NO TRANSPARENCY 256 BYTE BUFFER
  TERMINAL TDESCR=(3,0,3,6),COMPRES=YES, X
  TERMID=2
* 3780 COMPRESS/NO TRANSPARENCY
  TERMINAL TDESCR=(3,7,3,1),COMPRES=YES,PCHS=0,TERMID=3
*
* 3780 COMPRESS/NO TRANSPARENCY/3781 CARD PUNCH
  TERMINAL TDESCR=(3,7,3,3),COMPRES=YES,TERMID=4
*
* 3780 NO COMPRESS/TRANSPARENCY/3781 CARD PUNCH
  TERMINAL TDESCR=(3,7,3,7),COMPRES=NO,TERMID=5
*
* 3770 SNA-----CONSOLE PRINTER ONLY
  TERMINAL TDESCR=(3,8,5,1),VBUF=3
  TERMINAL TDESCR=(3,8,5,1),VBUF=6
  TERMINAL TDESCR=(3,8,5,1),VPUF=9
  TERMINAL TDESCR=(3,8,5,1),VBUF=20
  TERMINAL TDESCR=(3,8,5,1),VBUF=45
* 3770 SNA-----CONSOLE PRINTER + LINE PRINTER
  TERMINAL TDESCR=(3,8,5,3),VBUF=3
  TERMINAL TDESCR=(3,8,5,3),VBUF=6
  TERMINAL TDESCR=(3,8,5,3),VBUF=9
  TERMINAL TDESCR=(3,8,5,3),VBUF=20
  TERMINAL TDESCR=(3,8,5,3),VBUF=45
* 3790 SNA --CONSOLE, RDR, 2 PTRS, 1 WTR (DISK)
  TERMINAL TDESCR=(3,8,5,2),RDRS=1,PTRS=3,PCHS=0, X
  PLGN=0,COMPRES=YES,BUFXSIZ=256,CNMSGNO=5,VBUF=9, X
  NODE=(RJE1F,RJE2F,RJE3F,RJE4F),SESSLIM=4,CFACTBL=NO
RTAM INTPR=YES,TPBFSIZ=512,MXINTBR=1024,PORTS=3, X
  SNACOMP=YES, X
  TPBUF=19,TPREAD=6,TPPRINT=8,TPPUNCH=4, X
  WAITIME=1,MSGFCTR=10,CFACT=YES
  END

```

## OS/VSI JCL FOR GTF PROCEDURE AND PARAMETERS FOR VTAM TRACE TO TAPE

```

//ADDGTF JOB MSGLEVEL=1,REGION=100K,CLASS=A
//      EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSN=SYS1.PROCLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTFTAPE,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//GTFTAPE PROC A=GTF2
//IEFPROC EXEC PGM=HHLGTF,
//      PARM='MODE=EXT,DEBUG=NO,TIME=YES'
//IEFRDR DD UNIT=2400-3,VOL=SER=GTFFXX,LABEL=(,NL),
//      DCB=(BLKSIZE=3500,RECFM=U),DISP=SHR
//SYSPRINT DD SYSOUT=A,SPACE=(TRK,(1,1))
//SYSLIB DD DSN=SYS1.PARMLIB(&A),DISP=SHR
./ ENDUP
/*
//PARMDEF JOB MSGLEVEL=1,REGION=100K
//      EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSN=SYS1.PARMLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTF2,LIST=ALL
TRACE=RNIO,USR
./ ENDUP
/*

```

NOTE- Information on this service aid may be found in the OS/VSI Services Aid SRL GC28-0665.

OS/VSI SAMPLES

OS/VSI JCL FOR PRINTING VTAM TRACE RECORDS

```
//ADDPRT JOB MSGLEVEL=1,REGION=100K,CLASS=A
//      EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSN=SYS1.PROCLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTFPRT,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//VPRDMP PROC A=GTFP2,ASREGN=128K
/* USE TO DUMP VTAM TRACE FILES
//DMP EXEC PGM=HMDPRDMP,REGION=&ASREGN
//PRINTER DD SYSOUT=A
//TAPE DD DSN=SYS1.TRACE,UNIT=2400-3,LABEL=(,NL),DISP=SHR,
//      VOL=SER=GTFXXX
//SYSUT1 DD DSN=&&WORK,SPACE=(CYL,(3,1)),UNIT=SYSDA
//SYSPRINT DD SYSOUT=A,SPACE=(TRK,(1,1))
//SYSIN DD DSN=SYS1.PARMLIB(&A),DISP=SHR
./ ENDUP
/*
//PARMUP JOB MSGLEVEL=1,REGION=100K
//      EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSN=SYS1.PARMLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTFP2,LIST=ALL
EDIT DDNAME=TAPE,RNIO,USR=CL01,USR=CL02,USR=TPIO,USR=LINE
END
./ ENDUP
/*
```

NOTE- Information on this service aid may be found in the OS/VSI Services Aid SRL GC28-0665.

5.3 : OS/SVS (OS/VS2 R1.7) SAMPLES.REFERENCES

OS/VS2 Sysgen Reference	GC26-3792
OS/VS2 SVS VTAM System Programmer's Guide	GC27-0049
OS/VS2 SVS VTAM Component Release Guide	GC27-0053
OS/VS2 JCL Reference	GT28-0618
OS/VS2 System Programming Library: Service Aids	GT28-0663
OS/VS VTAM Reference Summary	GX27-0034
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269
ACF/VTAM Reference Summary	SX27-3021

OS/SVS SAMPLES

OS/SVS SYSTEM GENERATION MACRO INSTRUCTIONS

The actual SYSGEN specifications are not included. The VTAM system definitions for OS/VS2 R1.7 are almost the same as OS/VS1 R6.

\*\*\*\*\*

IODEVICE MACRO INSTRUCTIONS REQUIRED FOR VTAM IF USED.

IODEVICE ADDRESS=(010,2),UNIT=3791L (3790 LOCAL)  
IODEVICE ADDRESS=(020,3),UNIT=3277,MODEL=2, \*  
FEATURE=(EBKY3277,AUDALRM,MAGCDRD,NUMLOCK,SELPEN,DOCHAR)  
IODEVICE ADDRESS=023,UNIT=3286,MODEL=2,FEATURE=DOCHAR  
IODEVICE ADDRESS=(024,2),UNIT=3284,MODEL=2,FEATURE=DOCHAR  
IODEVICE ADDRESS=05F,UNIT=3705,ADAPTER=CA1  
IODEVICE ADDRESS=0BF,UNIT=3705,ADAPTER=CA2

DATAMGT MACRO INSTRUCTION ADDITION.

DATAMGT ACSMETH=(VTAM,TCAM), REQUIRED FOR VTAM AND/OR TCAM X  
IND=YES INCLUDE INDUSTRY SUB-SYSTEM

DATASET MACRO SPECIFICATION CHANGES

DATASET VTAMLIB,VOL=(SSVS70,3330),SPACE=(CYL,(5,1,5)  
DATASET INDMAC,VOL=(SSVS70,3330)

NOTE- Information for preparing the OS/SVS system for VTAM is found in OS/VS2 SVS VTAM System Programmer's Guide (GC27-0049), and the OS/VS2 SVS VTAM Component Release Guide (GC27-0053).

## ACF/VTAM PARAMETER DEFINITIONS

For ACF/VTAM definitions, please refer to the ACF/VTAM definitions in the OS/VSI section.

## OS/SVS START PARAMETER DEFINITION EXAMPLE

```

./  ADD  NAME=ATCSTR00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*                                           *
*  MINIMUM VTAM SYSTEM --- NO NCP      *
*                                           *
*****
CONFIG=00,      PREDEFINED LIST OF MAJOR NODES (ATCCON00)      X
SSCPID=01      VTAM IDENTIFICATION
./  ADD  NAME=ATCSTR01,LIST=ALL,SOURCE=0,LEVEL=00
*****
*                                           *
*  VTAM START PARAMETERS                *
*  NOTE:  THE IOBUF (BSZ) PARAMETER MUST EQUAL THE UNITSZ VALUE *
*          IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE *
*          BUFFER POOL START PARAMETERS IS EITHER                *
*          XXBUF=(BNO,BSZ,BTHZ) OR XXBUF=VBSZ AS INDICATED BELOW.*
*                                           *
*****
CONFIG=01,      PREDEFINED LIST OF MAJOR NODES (ATCCON01)      X
NETSOL=NO,      NETWORK SOLICITOR IS NOT TO BE STARTED        X
MAXSUBA=15,     NUMBER OF MAJOR NODES, VALUE MUST ALSO BE IN NCP X
IOBUF=(71,152,50),  FIXED STORAGE MESSAGE POOL                X
PPBUF=(76,152,72),  PAGEABLE DATA BUFFER POOL                X
TRACE,TYPE=SMS,ID=VTAMBUF
./  ENDUP
/*

```

NOTE- Details for coding and filing start parameters are found in Chapter 5 of the OS/VSI SVS VTAM System Programmer's Guide (GC27-0049).

ATCSTR00 is required by VTAM even if all defaults are taken. The system defaults for IOBUF AND PPBUF should not be used. ATCSTR01 will support a small NCP and can be used for initial system checkout.

OS/SVS VTAM APPLICATION DEFINITION EXAMPLE

```

./      ADD      NAME=APPCON01,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*          PRTCT=PASSWORD,          PASSWORD MUST ALSO BE DEFINED IN
*          APPLICATION PROGRAM 'ACB'.
*          BUFFACT=N|1,             MAXIMUM PPBUF QUEUE FOR APPLICATION
*          AUTH=(ACQ|NOACQ,         ALLOWS APPLICATION PROGRAM TO USE
*          THE OPNDST MACRO WITH THE
*          ACQUIRE OPTION.
*          BLOCK|NOBLOCK,          NOT USED WITH SDLC OR 3270.
*          PASS|NOPASS)            ALLOWS USE OF CLSDST MACRO
*          WITH THE PASS OPTION.
*
*****
SAMP1  APPL      AUTH=(ACQ)
DBDCCICS APPL    AUTH=(ACQ)
BATCH  APPL      AUTH=(ACQ)
INQ3790 APPL    AUTH=(NOACQ)
INQALL APPL      PRTCT=OKAYOKAY,AUTH=(ACQ)
EMESG  APPL      PRTCT=VTAMMSG,AUTH=(ACQ,BLOCK)
INQ    APPL      AUTH=(ACQ,BLOCK)
TEST1  APPL      AUTH=(ACQ,PPO)
BASIC2 APPL      AUTH=(ACQ,PASS,SPO,BLOCK)
SYSSSS APPL      AUTH=(ACQ)
./      ENDUP
/*

```

NOTE- Defining and filing application parameters is described in Chapter 3 of the OS/VS2 SVS VTAM Systems Programmer's Guide.



## OS/SVS NCP DEFINITION EXAMPLE

```

./      ADD  NAME=NCPSN2,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
*****
*                                           *
*      SOURCE FOR NCP                       *
*                                           *

```

See NCP examples in Chapter 7.

```

*                                           *
*****
./      ENDUP
/*

```

NOTE- Chapter 2 of the SVS VTAM System Programmer's Guide and the NCP/VTAM generation guide are required. The host macro definition must be consistent with the VTAM start parameters.

The source from the NCP generation should be used here after removing the assembler control cards. When testing the NCP the first time, all the PU's should contain the VTAM parameter 'ISTATUS=INACTIVE'. After loading the NCP they should be varied 'active' individually. After a PU and its resources are operational, this member can be updated to change the ISTATUS to 'ACTIVE'.

The following applies to VTAM II, not ACF/VTAM:

When a definition is changed in SYS1.VTAMLST, the member name must be deleted from the SYS1.VTAMOBJ data set, otherwise VTAM will not use the new version. This applies to all members of the SYS1.VTAMLST except the start definition.

OS/SVS SAMPLES

OS/SVS CONFIGURATION DEFINITION

```
./      ADD      NAME=ATCCON00,LEVEL=00,SOURCE=0,LIST=ALL
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*      START-UP CONFIGURATION, APPLICATION CONFIGURATION ONLY      *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
APPCON01
./      ADD      NAME=ATCCON01,LEVEL=00,SOURCE=0,LIST=ALL
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*      START-UP CONFIGURATION, LOCAL 3270, AND NCP                  *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
APPCON01,LOCCON01,NCPSN2
./      ENDUP
/*
//
```

NOTE- To allow the operator to activate the NCP, ATCCON00 should be specified. To autoload the NCP, ATCCON01 should be specified.

## OS/SVS SAMPLE INSTALLATION JCL FOR USSTAB

```
//USSTAB JOB 'USSTAB ASSEMBLY',CLASS=C
//STEPI EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
```

Add source here:

```
//LKED.SYSLMOD DD DSN=SYS1.VTAMLIB(usstab),DISP=SHR
/*
```

NOTE- The System Programmers Guide for the applicable level of VTAM or ACF/VTAM should be referenced.

## OS/SVS SAMPLE JCL FOR INTERPRET TABLE INSTALLATION

```
//LOGASM JOB ' ' ,MSGLEVEL=1,REGION=200K
//STEPI EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
```

Add source here:

```
//LKED.SYSLMOD DD DSN=SYS1.VTAMLIB(table),DISP=SHR
/*
```

NOTE- The interpret table is required in order to allow non-SDLC terminals to 'logon' to application programs via the Network Solicitor. Chapter 9 of the OS/SVS VTAM System Programmers Guide describes the generation of the interpret table.

OS/SVS SAMPLES

OS/SVS EXAMPLE OF START PROCEDURE

```
./      ADD LIST=ALL,NAME=NET,LEVEL=01,SOURCE=0
./      NUMBER NEW1=10,INCR=10
/** ADD REGION SIZE IF TO BE RUN IN A REGION
//NET    EXEC  PGM=ISTINS01
//VTAMLIB DD   DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD   DSN=SYS1.VTAMLST,DISP=SHR
//VTAMOBJ DD   DSN=SYS1.VTAMOBJ,DISP=SHR
//INITEST DD   DSN=SYS1.LINKLIB,DISP=SHR
//NCPLOAD DD   DSN=SYS1.NCPLOAD,DISP=SHR
//NCPDUMP DD   DSN=NCPDUMP,DISP=MOD
//OLTCDSDD DD  DSN=OLTLIB,DISP=SHR
//SYMSYM DD   DSN=SYMSYM,DISP=SHR
./      ADD LIST=ALL,NAME=NETSSC,LEVEL=01,SOURCE=0
./      NUMBER NEW1=10,INCR=10
//NET    EXEC  PGM=ISTINS01
//STEPCAT DD   DSN=USRVCAT,DISP=SHR
//VTAMLIB DD   DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD   DSN=SYS1.VTAMLST,DISP=SHR
//VTAMOBJ DD   DSN=SYS1.VTAMOBJ,DISP=SHR
//INITEST DD   DSN=SYS1.LINKLIB,DISP=SHR
//LRNCKPT DD   DSN=LRNCKPT,DISP=MOD
//NCP001 DD   DSN=NCP001,DISP=MOD
//LOC001 DD   DSN=LOC001,DISP=MOD
//SWT001 DD   DSN=SWT001,DISP=MOD
//NCPLOAD DD   DSN=SYS1.NCPLOAD,DISP=SHR
//NCPDUMP DD   DSN=NCPDUMP,DISP=MOD
./      ENDUP
//
```

NOTE- The DD cards for data sets OLTLIB and CDSLIB should be omitted unless the Customer Engineer has prepared these data sets. The system can be installed without these data sets but they must be installed before TOLTEP can be used.

## OS/SVS JCL FOR GTF PROCEDURE AND PARAMETERS FOR VTAM TRACE TO TAPE

```

./ ADD NAME=GFTAPE,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//GFTAPE PROC A=GTF2
//IEFPROC EXEC PGM=AHLGTF,REGION=64K,
//          PARM='MODE=EXT,DEBUG=NO,TIME=YES'
//IEFRDER DD UNIT=2400-3,VOL=SER=GTFXXX,LABEL=(,NL),
//          DCB=(BLKSIZE=3500,RECFM=U),DISP=SHR
//SYSPRINT DD SYSOUT=A,SPACE=(TRK,(1,1))
//SYSLIB DD DSN=SYS1.PARMLIB(&A),DISP=SHR
./ ENDUP
/*
//PARMDEF JOB MSGLEVEL=1,REGION=100K
//          EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSNAME=SYS1.PARMLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTF2,LIST=ALL
TRACE=RNIO,USR
./ ENDUP
/*

```

NOTE- Information on this service aid may be found in the OS/VS Services Aid SRL GC28-0633.

OS/SVS SAMPLES

OS/SVS JCL FOR PRINTING VTAM TRACE RECORDS

```
./ ADD NAME=GTFPRT,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//VPRDMP PROC A=GTFP2,ASREGN=128K
/** USE TO DUMP VTAM TRACE FILES
//DMP EXEC PGM=AMDPRDMP,REGION=&ASREGN
//PRINTER DD SYSOUT=A
//TAPE DD DSN=SYS1.TRACE,UNIT=2400-3,LABEL=(,NL),DISP=SHR,
// VOL=SER=GTFXXX
//SYSUT1 DD DSN=&&WORK,SPACE=(CYL,(3,1)),UNIT=SYSDA
//SYSPRINT DD SYSOUT=A,SPACE=(TRK,(1,1))
//SYSIN DD DSN=SYS1.PARMLIB(&A),DISP=SHR
./ ENDUP
/*
//PARMUP JOB MSGLEVEL=1,REGION=100K
// EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSNAME=SYS1.PARMLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTFP2,LIST=ALL
EDIT DDNAME=TAPE,RNIO,USR=CL01,USR=CL02,USR=TPIO,USR=LINE
END
./ ENDUP
/*
```

NOTE- Information on this service aid may be found in the OS/VS Services Aid SRL GC28-0633.

5.4 : OS/MVS SAMPLES.REFERENCES

OS/VS2 Sysgen Reference	GC26-3792
OS/VS2 MVS Utilities	GC26-3902
OS/VS2 System Programming Library: Service Aids	GC28-0674
OS/VS2 System Programming Library: Initialization and Tuning Guide	GC28-0681
OS/VS2 VTAM System Programming Library:VTAM	GC28-0688
OS/VS2 JCL	GC28-0692
Operator's Library: OS/VS2 Reference(JES2)	GC38-0210
OS/VS VTAM Reference Summary	GX27-0034
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269

OS/MVS SYSTEM GENERATION MACRO INSTRUCTIONS

The actual SYSGEN specifications are not included. VTAM must be included as part of the sysgen.

```

*****
* THIS IS A PORTION OF THE STAGE 1 SYSGEN LISTING FOR THE VS/2-R3.7 *
*****
*           MULTIPLEXER CHANNEL IO DEVICES (PARTIAL)           *
*****
          IODEVICE UNIT=3215,                3158 KB CONSOLE   X
              ADDRESS=009
I3705     IODEVICE UNIT=3705,                X
              ADAPTER=CA1,                    X
              ADDRESS=019
          IODEVICE UNIT=3215,                X
              ADDRESS=01F

```

OS/MVS SAMPLES

```

* CHANNEL 1 IO DEVICES *
*****
PRT3800 IODEVICE UNIT=3800,ADDRESS=(110),FEATURE=CGS2 158,168(610)
        IODEVICE UNIT=2305, X
        MODEL=2, X
        ADDRESS=1D0
* CHANNEL 2 IO DEVICES *
*****
DSK220 IODEVICE UNIT=3330,MODEL=11,ADDRESS=(220,4),OPTCHAN=9, *
        FEATURE=ALTCTRL
* CHANNEL 3 IO DEVICES *
*****
DSK348 IODEVICE UNIT=3330,MODEL=1, X
        OPTCHAN=8,FEATURE=ALTCTRL, X
        ADDRESS=(348,8)
* CHANNEL 4 IO DEVICES *
*****
I37052 IODEVICE UNIT=3705,ADAPTER=CA1, 3705-I, CA4, X
        ADDRESS=418
E37052 IODEVICE UNIT=3705,ADAPTER=CA1, 3705-E, CA4, X
        ADDRESS=41A FUTURE
C37052 IODEVICE UNIT=3705,ADAPTER=CA2, 3705-C, CA2, X
        ADDRESS=41C FUTURE
J3705 IODEVICE UNIT=3705,ADAPTER=CA1, 3705-J, CA4, X
        ADDRESS=498
        IODEVICE UNIT=3277,MODEL=2, X
        ADDRESS=(4A0,32), X
        FEATURE=(DOCHAR, X
        SELPEN,EBKY3277,KB78KEY,NUMLOCK,AUDALRM)
        IODEVICE UNIT=3277,MODEL=2, X
        ADDRESS=(4C0,32), X
        FEATURE=(DOCHAR, X
        SELPEN,EBKY3277,KB78KEY,NUMLOCK,AUDALRM)
        IODEVICE UNIT=3791L,ADDRESS=4E0 3274
* CHANNEL 5 IO DEVICES *
*****
DSK530 IODEVICE UNIT=2314, X
        ADDRESS=(530,8)
T5808 IODEVICE UNIT=3420,MODEL=8,ADDRESS=(580,6), *
        FEATURE=(OPT1600,SHARABLE),OFFLINE=YES
***** SYSTEM CONSOLES *****
*****
CONM CONSOLE MCONS=01F,ALTCONS=01A, MASTER CONSOLE UNDER VM X
        ROUTCDE=ALL, NO DEFAULT X
        OLDWTOR=1, OLDWTOR=ALL X
        IOC=YES DEFAULT=NO
CON1 CONSOLE SECONS=01A,ALTCONS=009, 3158 CONSOLE X
        AREA=10, X

```



```

          PFK=12              NO DEFAULT
CON4     CONSOLE SECONS=4A0,VALDCMD=(1,2,3), 158 SEC CONS 3270      X
          ROUTCDE=ALL,                                             X
          AREA=10,ALTCONS=4A1,PFK=12
***** 'MVS/REL3 - CONTROL PROGRAM SPECIFICATION'
CTRL     CTRLPROG  OPTIONS=(DEVSTAT,RDE,RER,BLDL,CRH),SQA=9,REAL=256,  H
          TZ=(W,8),ASCII=INCLUDE,STORAGE=16777216,                X
          CSA=3000,VRREGN=512,PAGNUM=(9,9),                        X
          ACRCODE=YES,APFLIB=(SYS1.VTAMLIB,MVSRES,SYS1.VTAMOBJ,    +
          MVSRES)
SCHEDULR SCHEDULR  BCLMT=100,PRISUB=JES2,                            X
          SUBSYS=(JES3,ECSS,ECST,JES0,JESP,JESQ,JESR,JES,JEST,    X
          JES4,JES5,JES6,JES7,JES8,JES9),                          +
          HARDCPY=(SYSLOG,ALL,CMDS),                               X
          DEVPREF=(3330-1,3330,2305-2,2305-1,3350,3340,2314,2400)
*   JES3 GENNED IN FOR SECONDARY SUBSYSTEM SUPPORT
          JES     CNS=((009,3215)),LOCLJES=NO
CHKPT    CKPTREST ELIGBLE=(20,100,101,102,103,110,120,140,160,4092)
          EJECT
DATAMAN  DATAMGT   ACSMETH=(BTAM,TCAM,ISAM,GAM,VTAM),                X
          GRAPHCS=(PORRTNS,GSP),                                   X
          TABLE=ALL,UCSDFLT=ALL,IND=YES
TSO      TSO       LOGTIME=20000
EDIT     EDIT      DSTYPE=SYSTEST,BLOCK=800,FORMAT=FIXED,FIXED=(80-80),X
          CONVERT=CAPSONLY
***** DATASET SPECIFICATIONS *****
SPACE    DATASET   BRODCAST,SPACE=(CYL,(1))
          DATASET   CMDLIB,SPACE=(CYL,(3,1,112))
          DATASET   TELCMLIB,SPACE=(CYL,(2,1,84))
          DATASET   VTAMLIB,SPACE=(CYL,(2,1,56))
          AFFINITY  AFF-AFFPGM00-0,AFF-AFFPGM01-0,AFF-AFFPGM02-0,    X
          AFF-AFFPGM03-0,                                           X
          AFF-AFFPGM04-0,                                           X
          AFF-AFFPGM05-0,                                           X
          AFF-AFFPGM06-1,                                           X
          AFF-AFFPGM07-1,                                           X
          AFF-AFFPGM08-1,                                           X
          AFF-AFFPGM09-1,                                           X
          AFF-AFFPGM10-1

```

NOTE- Information for preparing the OS/MVS system for VTAM is found in OS/MVS System Programming Library: VTAM (GC28-0688), and the OS/MVS System Generation Reference (GC26-3792)

## OS/MVS SYSTEM PARAMETER DEFINITIONS

```

./ ADD NAME=IEASYS00,LEVEL=00,SOURCE=0,LIST=ALL
APF=PS, AUTHORIZATION LIST
APG=07, AUTOMATIC PRIORITY GROUP IS 7 DEFAULT
BLDLF=00, FIX IEABLD00 TABLE
CMD=00, SET TOD PROMPT,SDUMP,TRACE ON DEFAULT
CSA=3644, CONSIDER SETTING TO LIMIT USER REG TO 8 MEG
DUMP=DASD, PLACE SVC DUMPS ON DASD DEVICES DEFAULT
FIX=00, FIX MODULES SPECIFIED IN BASE AND TSO LIST
HARDCPY=(SYSLOG, HARDCOPY LOG IS SYSTEM LOG(SYSLOG)
ALL, RECORD ALL WTO/WTOR WITH ROUTE CODES
CMDS), RECORD ALL COMMANDS AND RESPONSES
IPS=00, SELECT IEAIPS00 INSTALL PERF SPECS FOR SRM
LNK=PS, SPECIFY LNKLST00 AS LINK LIST
LOGCLS=A, WILL NOT BE PRINTED BY DEFAULT
LOGLMT=999999, MUST BE 6 DIGITS, MAX WTL MESSAGES QUEUED
MAXUSER=36, (SYS TASKS + INITS + TSOUSERS) < 36
PAGNUM=(3,2), ALLOW ADDITION OF 3 PAGE D/S & 2 SWAP D/S
OPI=YES, ALLOW OPERATOR OVERRIDE TO IEASYS00
OPT=00, SPECIFY IEAOPT00 (SRM TUNING PARMETERS)
PAGE=(PAGE.IPOJ2101, PLPA PAGE DATA SET
PAGE.IPOJ2102, COMMON PAGE DATA SET
PAGE.IPOJ2103,L), USER(LOCAL) PAGE DATA SET
REAL=128, ALLOWS 2 64K JOBS OR 1 128K JOB TO RUN V=R
RSU=0, NO RECONFIG STORAGE UNITS DEFAULT
SMF=00, SELECT SMFPRM00, SMF PARMETERS DEFAULT
SQA=5, SIZE=(3+3)*64K=384K VIRTUAL STORAGE
VAL=PS, SELECT VATLST00 DEFAULT
VRREGN=128, DEFAULT REAL-STORAGE REGION SIZE DEFAULT
WTOBFRS=250,CVIO, SET NUMBER OF WTO BUFFERS
WTORPLY=10 SET NUMBER OF WTOR BUFFERS
/* THIS COMPLETES THE SYSP LIST
/*
/* NOTE 1: NOTE THAT SCAN OF THE SYSP PARAMETERS ENDS
/* AT FIRST PARAMETER WITHOUT A COMMA.
/* WHEN MODIFYING ANY PARAMETER EXCEPT THE LAST SPECIFIED,
/* INCLUDE THE COMMA.
/*
/* NOTE 2: PAGE PARAMETER SPECIFIED AT IPL TIME MERGES WITH IEASYSXX
/* SEE INIT AND TUNING GUIDE GC28-0755-0 -
/* IEASYS00 SOURCE OF PAGE PARAMETER
/*
/* NOTE 3: THE FOLLOWING PARAMETERS HAVE BEEN OMITTED BY CHOICE
CLPA RE-CREATION OF PLPA IS OPERATOR CHOICE
CVIO DO NOT DELETE VIO D/S - CLPA IMPLIES CVIO
DUPLEX= NO DUPLEX D/S - OPTIONAL WITH SU 7

```

```

MLPA=                NO MLPA PARAMETERS
NUCMAP
PURGE                DO NOT DEMOUNT MSS VOLUMES
SWAP=                NO SWAP DATASET SPECIFIED
SYSP=00             SPECIFIED BY OPERATOR AT IPL FOR THIS SYSP
                    NOT A VALID PARMETER FOR IEASYSXX
/*                  THIS IS THE END OF IEASYS00

```

```

./ ADD NAME=IEAFIX00,LEVEL=00,SOURCE=0,LIST=ALL
SYS1.LPALIB IEAVAR00, /* 6816 RCT INIT/TERM */
            IEWFBOSV, /* 6384 PROGRAM FETCH */
            IEWMSEPT, /* FETCH ALIAS SEE ABOVE */
            IGC0001F, /* 5072 PURGE(SVC16) */
            IGC0001G, /* 368 RESTORE(SVC17) */
            IGC0003C, /* 2656 IO HALT */
            IGC0004F, /* 3000 TTIMER */
            IGC0004G, /* 3000 STIMER */
            ISTAPC61, /* ACF/VTAM */
            ISTAPC62, /* ACF/VTAM */
            ISTAPC63, /* ACF/VTAM */
            ISTAPC64, /* ACF/VTAM */
            ISTAPC66, /* ACF/VTAM */
            ISTAPC67, /* ACF/VTAM */
            ISTAPC83, /* ACF/VTAM */
            ISTAPC64, /* ACF/VTAM */
            ISTRACCA, /* ACF/VTAM */
            ISTRACIO, /* ACF/VTAM */
            ISTRACTB, /* ACF/VTAM */
            ISTRAMTR, /* ACF/VTAM */
            ICHRRCD, /* RACF REL. 3 */
            ICHRFC00, /* RACF REL. 3 */
            ICHRGL00, /* RACF REL. 3 */
            ICHRGL01, /* RACF REL. 3 */
            ICHRGL03 /* RACF REL. 3 */

```

```

./ ADD NAME=IEAAPFPS,LEVEL=00,SOURCE=0,LIST=ALL
IMS.RESLIB USRLB2,
IMS.PGMLIB USRLB2,
SYS1.VTAMLIB IPOR21,
SYS1.NCPLIB USRLB2,
SYS1.LINKLIB2 USRLB1,
SYS2.LINKLIB USRLB1,
SYS1.OLTLIB USRLB1,
SYS1.CDSLIB USRLB1,
LAST.ENTRY DUMMY

```

OS/MVS SAMPLES

```
./ ADD NAME=LNLSTPS,LEVEL=00,SOURCE=0,LIST=ALL
SYS1.LINKLIB,SYS1.TSOLIB,      TSO PROGRAM PRODUCTS          XXXXXXXXXX
      SYS1.COMDLIB,          TSO COMMAND LIB              XXXXXXXXXXXXXXXX
      SYS1.LINKLIB2,        USER UTILITIES              XXXXXXXXXXXXXXXX
      IMS.RESLIB,          IMS LIBRARY                  XXXXXXXXXXXXXXXX
      SYS1.TCAMLIB,        TCAM PROGRAMS                XXXXXXXXXXXXXXXX
      NCP6.SSPLIB,        NCP6 UTILITIES              XXXXXXXXXXXXXXXX
      SYS2.LINKLIB,        USER LINK LIB                XXXXXXXXXXXXXXXX
      SYS1.PPLINK,        P. P. LOAD LIB              XXXXXXXXXXXXXXXX
      SYS1.COBLIB,        COBOL LIBRARY                XXXXXXXXXXXXXXXX
      SSS4.LINKLIB,        PVS AND SSS PROGRAMS        XXXXXXXXXX
      IPO21.LINKLIB       IPO PROGRAMS                  XXXXXXXXXXXXXXXX
```

```
./ ADD NAME=VATLSTPS
USRLB1,1,0,3330-1 ,N      LIBRARY PACK
USRLB2,1,0,3330-1 ,N      LIBRARY PACK
DLIB21,1,2,3330 ,N      MVS DLIB FOR IPO21
IPOR21,1,2,3330 ,N      IPO REL. 2.1 SYSRES
IPOJ21,1,2,3330 ,N      IPO REL. 2.1 CATALOG SPOOL PAGING
NCPLIB,1,0,3340 ,N      NCP6 LIBRARY
```

```
./ ADD NAME=TSOKEYPS
USERMAX=30, X
RECONLIM=10, X
BUFRSIZE=512, X
SCRFSIZE=1920 USED FOR 3277'S ONLY
```

NOTE- Information for preparing the OS/MVS system parameters is found in OS/MVS Sysgen Reference (GC26-3792)

## OS/MVS JES2 PARAMETER DEFINITIONS(VTAM OR ACF/VTAM)

```

./ ADD NAME=SNAPARM
*-----*
* JES2PARAM *
*-----*
* SU 25 JES 4.1 *
*****
*****
* *
* RJE RELATED PARAMETERS *
* *
LOGON1 APPLID=JES2 APPL ID TO VTAM *
&NUMLINES=9 MAX NUMBER OF RJE LINES INCLUDING SNA LINES *
&NUMRJE=110 MAX NUMBER OF RJE DEFINITIONS ALLOWED *
&NUMTPBF=20 NUMBER OF TP BUFFERS GENERATED FOR RJS *
&TPBFSIZ=800 TP BUFFER SIZE *
&MAXSESS=25 MAX NUMBER OF VTAM SESSIONS=LINES AT 5 LU EAC*
&WAITIME=15 15 SECONDS FOR RMT CMD(FROM 1 DEFAULT) *
COMPACT=40,15,A,C,D,E,H,I,L,N,O,R,S,T,U,40,0, HRS15* C
          B,F,G,J,K,M,P,Q,V,W,X,Y,Z,1,2,3 HRS16*
COMPACT=41,16,0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F HRS16*
&NUMTPBF=8 NUMBER OF BUFFERS GENERATED FOR RJE *
&TPIDCT=66 NUMBER OF LINES ON HEADER PAGE REMOTE PRINTR*
LINE1 UNIT=SNA *
LINE2 UNIT=SNA *
LINE3 UNIT=SNA *
LINE4 UNIT=SNA *
LINE5 UNIT=SNA *
LINE6 UNIT=SNA *
***** RMT1 IS A 3777
RMT1 LUTYPE1,BUFSIZE=512,COMP,COMPCT,NUMPR=1, *
      NUMRD=1,SETUPMSG *
R1.PR1 PRWIDTH=132,FCBLOAD *
R1.RD1 PUDEST=1,PULCL *
***** RMT2 IS A 3777
RMT2 LUTYPE1,BUFSIZE=512,COMP,COMPCT,NUMPR=1,LUNAME=LU3777R, *
      NUMRD=1,SETUPMSG *
R2.PR1 PRWIDTH=132,FCBLOAD *
R2.RD1 PUDEST=1,PULCL *
***** RMT90 is a 3790
RMT90 LUTYPE1,BUFSIZE=256,COMP,COMPCT,CONSOLE,NUMPR=3, *
      SETUPHDR *
R90.PR1 DRAIN,PRWIDTH=120
R90.PR2 DRAIN,CLASS=X
R90.PR3 PRWIDTH=132
*+++++ RMT95 = ID ASSIGNED TO 3776

```

```

RMT95 LUTYPE1,BUFSIZE=256,COMP,NUMPR=1,
      SETUPMSG
R95.PR1 PRWIDTH=132,FCBLOAD
*
*
* - RMT LINE DEFAULTS - CODEA,LOWSPEED,IFACEA,ADISCON,EBCDIC,HDUPLEX
*
* - RMT NUM DEFAULTS - BLOCKED,NOMRF,NOTRANSP,HARDWARE,NOTABS,NUMPR=1,
*                   NUMRD=1,NUMPU=0,VARIABLE,NOBUFEX,NOABUFEX,
*                   NOCOMP,NOCON,DISCINTV=0,PASSWORD=,LINE=
*
* - RMT PRT DEFAULTS - OPERATOR,CLASS=AJ,START,NOFCBLOD,SEP,SUSPEND,
*                   PRWIDTH=120,FORMS=STD.,UCS=,FCB=
*
* - RMT PUN DEFAULTS - OPERATOR,CLASS=BK,START,SEP,SUSPEND,FORMS=STD.
*
* - RMT RDR DEFAULTS - CLASS=A,MSGCLASS=A,START,NOHOLD,PRDEST=,
*                   PRIOLIM=15,PRIOINC=,PUDEST=
*

```

OS/VS START PARAMETER DEFINITION (VTAM AND ACF/VTAM)

```

./ ADD NAME=ATCSTR00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
* MINIMUM STARTUP - SHOULD BE USED FOR OS/VS VTAM AND ACF/VTAM
*
*****
TRACE,TYPE=SMS,ID=VTAMBUF,
MAXSUBA=31,
SSCPID=01,
NETSOL=NO

```

## OS/MVS VTAM START PARAMETER DEFINITION (TEST)

```

./  ADD  NAME=ATCSTRPS,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*  ATCSTR00 IS REQUIRED
*
*  VTAM START PARAMETERS --- DEFAULT VALUES
*  NOTE:  THE IOBUF (BSZ) PARAMETER MUST EQUAL THE UNITSZ VALUE
*         IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE
*         BUFFER POOL START PARAMETERS IS EITHER
*         XXBUF=(BNO,BSZ,BTHZ) AS INDICATED BELOW.
*
*****
MAXSJBA=31,
NOPROMPT,
CONFIG=PS,
SSCPID=01,
NETSOL=NO,
SFBUF=(271,,271),
LFBUF=(40,,32),
LPBUF=(52,,32),
NPBUF=(153,,145),
CRPLBUF=(171,,162),
IOBUF=(102,156,80),
APBUF=(154,,146),
SPBUF=(15,,15),
UECBUF=(269,,256),
WPBUF=(132,,132),
PPBUF=(135,156,128)
./      ENDUP
/*
//

```

NOTE- Details for coding and filing start parameters are found in the OS/MVS System Programming Library: VTAM (GC28-0688).

OS/MVS ACF/VTAM START PARAMETER DEFINITION (TEST)

```

./  ADD  NAME=ATCSTRAC,LEVEL=00,SOURCE=0,LIST=ALL
*****
*  ATCSTR00 IS REQUIRED OR THIS DEFINITION CAN REPLACE IT.          *
*  NOTE:  THE IOBUF (BUFSIZE) PARAMETER MUST EQUAL THE UNITSZ VALUE *
*         IN THE NCP HOST MACRO DEFINITION. THE FORMAT OF THE     *
*         BUFFER POOL START PARAMETERS IS EITHER                   *
*         XXBUF=(BASENO,BUFSIZE,SLOWPT,XPANNO,XPANPT)              *
*         OR XXBUF=VBSZ AS INDICATED BELOW.                        *
*         XPANNO OF 1 WILL CAUSE ACF/VTAM TO ACQUIRE 1 PAGE OF   *
*         BUFFERS SINCE THEY ARE ALWAYS ACQUIRED IN PAGE         *
*         INCREMENTS.                                             *
*****
TRACE,TYPE=SMS,ID=VTAMBUF,                                         X
TNSTAT,CNSL,TIME=10,                                             X
MAXSUBA=31,NOPROMPT,CONFIG=AC,SSCPID=01,                          X
HOSTSA=13,                                                         X
MAXAPPL=50,                                                         X
VTAMEAS=150,                                                       X
NETSOL=NO,                                                         X
SFBUF=(60,,2,,01,3),      *** XPANNO OF 1 WILL CAUSE ACF/VTAM TO ACQUIRE X
LFBUF=(37,,2,,01,3),      1 PAGE OF BUFFERS SINCE THEY ARE ALWAYS     X
LPBUF=(32,,1,,01,2),      ACQUIRED IN PAGE INCREMENTS ***           X
NFBUF=(23,,2,,01,3),                                           X
CRPLBUF=(40,,2,,01,3),                                         X
IOBUF=(60,152,4,,01,26),
NOTE - The difference between SLOWPT and XPANPT must be greater than
       the largest MAXBFRU defined in any NCP or Local definition.
APBUF=(66,,2,,01,3),                                           X
SPBUF=(66,,2,,01,3),                                           X

NOTE: For Networks with greater than 100 BSC 3277's,
       expansion of SPBUF is not recommended. BASENO must be larger
       that the number of BASIC sessions if no expansion.
or SPBUF=(100,,10),                                           X
UECBUF=(39,,2,,01,3),                                         X
WPBUF=(27,,2,,01,3),                                           X
PPBUF=(29,152,2,,01,3)
./  ENDUP

```

NOTE- Details for coding and filing start parameters are found in the ACF/VTAM System Programmers Guide: VTAM (SC38-0258).



## OS/MVS VTAM APPLICATION DEFINITION EXAMPLE

```

./      ADD      NAME=APPCON01,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*          PRTCT=PASSWORD,      PASSWORD MUST ALSO BE DEFINED IN
*                                APPLICATION PROGRAM 'ACB'.
*          BUFFACT=N|1,         APPLIES ONLY TO BASIC NEWE.
*          AUTH=(ACQ|NOACQ,     ALLOWS APPLICATION PROGRAM TO USE
*                                THE OPNDST MACRO WITH THE
*                                ACQUIRE OPTION.
*          BLOCK|NOBLOCK,      NOT USED WITH SDLC OR 3270.
*          PASS|NOPASS,        ALLOWS USE OF CLSDST MACRO
*                                WITH THE PASS OPTION.
*          TCAM)               ALLOWS PATH TO TCAM
*
*****
SAMP1  APPL  AUTH=(ACQ)
DBDCCICS APPL  AUTH=(ACQ)
BATCH  APPL  AUTH=(ACQ)
INQ3790 APPL  AUTH=(NOACQ)
INQALL  APPL  PRTCT=OKAYOKAY,AUTH=(ACQ)
HOSTPGM1 APPL  AUTH=(NOACQ)
INQ     APPL  AUTH=(ACQ,BLOCK)
TEST1  APPL  AUTH=(ACQ,PP0)
BASIC2  APPL  AUTH=(ACQ,PASS,SPO,BLOCK)
IEDQTCAM APPL  AUTH=(ACQ,TCAM,BLOCK),PRTCT=PASSWORD
TCAM    APPL  AUTH=(ACQ,TCAM,BLOCK),PRTCT=PASSITON
SYSSSS  APPL  AUTH=(ACQ)
./      ENDUP
/*

```

NOTE- Defining and filing application parameters is described in Defining VTAM Application Programs of the OS/MVS Systems Programming Library: VTAM(GC28-0688).

OS/MVS SAMPLES

OS/MVS ACF/VTAM APPLICATION DEFINITION EXAMPLE

```

./      ADD      NAME=APPCONAC
*****
*
* APPLICATION PROGRAM DEFINITION FOR VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*          PRTCT=PASSWORD,          PASSWORD MUST ALSO BE DEFINED IN
*          APPLICATION PROGRAM 'ACB'.
*          BUFFACT=N|1,             APPLIES ONLY TO BASIC SESSIONS.
*          AUTH=(ACQ|NOACQ,        ALLOWS APPLICATION PROGRAM TO USE
*          THE OPNDST MACRO WITH THE
*          ACQUIRE OPTION.
*          BLOCK|NOBLOCK,         NOT USED WITH SDLC OR 3270.
*          PASS|NOPASS,           ALLOWS USE OF CLSDST MACRO
*          WITH THE PASS OPTION.
*          TCAM)                  ALLOWS PATH TO TCAM
*
*****
IMS      APPL AUTH=ACQ
VAPPL   APPL AUTH=(ACQ, PPO)
SYSSSS  APPL AUTH=ACQ
BTS3770 APPL AUTH=ACQ
DSPRINT APPL AUTH=ACQ
IKJACCNT APPL AUTH=ACQ
JES2    APPL AUTH=ACQ
VTAMWHO APPL
./      ADD      NAME=TSOAPAC,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
TSO     APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=10
TS00001 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00002 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00003 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00004 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00005 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00006 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00007 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00008 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00009 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
TS00010 APPL AUTH=(NOBLOCK,PASS,NOPO,TSO,NVPACE),EAS=1
./      ENDUP
/*

```

NOTE- Defining and filing application parameters is described in Defining VTAM Application Programs of the ACF/VTAM Systems Programmers Guide: (SC38-0258).

## OS/MVS NCP DEFINITION EXAMPLE

```

./      ADD   NAME=NCPRAL,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
*****
*                                           *
*      SOURCE FOR NCP4.1 OS/MVS VTAM      *
*                                           *
*****
./      ENDUP
/*

```

NOTE- The OS/MVS System Programming Library: VTAM and the NCP/VTAM generation guide are required. The HOST macro definition must be consistent with the VTAM start parameters.

The source from the NCP generation should be used here after removing the assembler control cards. When testing the NCP the first time, all the PU's should contain the VTAM parameter 'ISTATUS=INACTIVE'. After loading the NCP they should be varied 'active' individually. After a PU and it's resources are operational, the member can be updated to change the ISTATUS to 'ACTIVE'.

OS/MVS SAMPLES

OS/MVS VTAM CONFIGURATION DEFINITION

```
./      ADD      NAME=ATCCON00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*      START-UP CONFIGURATION, NO NCP
*
*****
APPCON01,LOCCON01
./      ADD      LIST=ALL,SSI=20001103,NAME=ATCCONPS
APPCON01,LOCCON01,NCPRAL
./      ENDUP
/*
//
```

NOTE- If 00 is activated, it will be necessary to vary the NCP 'active' via the operator. To autoload the NCP, LIST=RA should be specified at VTAM start time.

OS/MVS ACF/VTAM CONFIGURATION DEFINITION

```
./      ADD      NAME=ATCCON00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*      START-UP CONFIGURATION, NO NCP
*
*****
LOC3272,TSOAPAC
./      ADD      NAME=ATCCONAC
LOC3272,SWITCHAC,NCPCAF,APPACONAC,TSOAPAC
./      ENDUP
/*
//
```

## OS/MVS EXAMPLE OF LOGON TABLE GENERATION

```
//LOGASM JOB 'LOGTAB ASSEMBLY',MSGLEVEL=1,REGION=200K
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
  Source deck
//LKED.SYSLMOD DD DSN=SYS1.LPALIB(Table Name),DISP=SHR
```

NOTE- The interpret table is required in order to allow non-SDLC terminals to 'logon' to application programs via the Network Solicitor. Terminal-Initiated Logons in OS/MVS System Programmers Library: VTAM describes the generation of the interpret table.

## OS/MVS MODETAB ASSEMBLY

```
//MODETAB JOB 'MODETAB ASSEMBLY',MSGLEVEL=1,CLASS=C
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
  Source Deck
//LKED.SYSLMOD DD DSN=SYS1.LPALIB(Modetab Name),DISP=SHR
/*
/*
```

NOTE- This modetab is a subset of the IBM supplied Logon Mode Table. Adding it this way simplifies operator logon from the 3270 SDLC unit. Terminal-Initiated Logons in OS/MVS System Programmers Library: VTAM Chapter 4 describes Logon Mode Tables. If the terminal is to be acquired by an application, this modetab is required.

OS/MVS SAMPLES

OS/MVS EXAMPLE OF START PROCEDURE

START PROCEDURE FOR VTAM2

```
./      ADD LIST=ALL,NAME=NET,LEVEL=01,SOURCE=0
./      NUMBER NEW1=10,INCR=10
//NET    EXEC  PGM=ISTINM01,REGION=500K
//VTAMLIB DD   DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD   DSN=SYS1.VTAMLST,DISP=NEW
//VTAMOBJ DD   DSN=SYS1.VTAMOBJ,DISP=SHR
//INITEST DD   DSN=SYS1.LINKLIB,DISP=SHR
//OLTCDSDD DD  DSN=OLTLIB,DISP=SHR
//SYSMSYM DD   DSN=CDSLIB,DISP=SHR
//NCPLOAD DD   DSN=SYS1.NCPLOAD,DISP=SHR
//NCPDUMP DD   DSN=NCPDUMP,DISP=NEW
//SYSABEND DD  SYSOUT=A
./      ENDUP
.sp 2
.uc Start Procedure for ACF/VTAM
.sp 2
./      ADD LIST=ALL,NAME=NET,LEVEL=01,SOURCE=0
./      NUMBER NEW1=10,INCR=10
//NET    EXEC  PGM=ISTINM01,REGION=1536K,DPRTY=(15,15),PERFORM=8
//VTAMLIB DD   DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD   DSN=VTAM.LIST.SOURCE,DISP=SHR
//NCPLIB  DD   DSN=SYS2.NCPLIB,DISP=SHR
//VTAMOBJ DD   DSN=SYS1.VTAMOBJ,DISP=SHR
//NCPDUMP DD   DSN=SYS1.NCPDUMP,DISP=SHR
//OLTCDSDD DD  DSN=SYS1.OLTLIB,DISP=SHR
//SYMSYM  DD   DSN=SYS1.CDSLIB,DISP=SHR
//SYSUDUMP DD  SYSOUT=A           Used when Z NET,CANCEL executed.
//INITEST DD   DSN=NCP6.SSPLIB,DISP=SHR
./      ENDUP
//
```

NOTE- The DD cards for data sets OLTLIB and CDSLIB should be omitted unless the Customer Engineer has prepared these data sets. The system can be installed without these data sets but they must be installed before TOLTEP can be used.

5.5 : OS/VS SAMPLES (COMMON CODE)

The samples contained here are for either a VS1 or VS2 System.

REFERENCES

IBM 3704 And 3705 Communications Controllers Network Control Program/VS Generation And Utilities Guide And Reference Manual (for OS/VS And DOS/VS VTAM Users)	GC30-3008
IBM 3705 Advanced Communications Function for Network Control Program/VS Generation And Utilities Guide And Reference Manual	SC30-3116
OS/VS1 Service Aids	GC28-0665
OS/VS1 Access Methods Services	GC26-3840
OS/VS1 VTAM System Programmer's Guide	GC27-6996
OS/VS1 JCL Reference	GT28-0618
OS/VS VTAM Reference Summary	GX27-0034
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269
ACF/VTAM Reference Summary	SX27-3021
OS/VS2 SVS VTAM System Programmer's Guide	GC27-0049
OS/VS2 MVS Utilities	GC26-3902
OS/VS2 System Programming Library: Service Aids	GC28-0674
OS/VS2 JCL	GC28-0692
OS/VS TCAM System Programmer's Guide	GC30-2051
OS/VS TCAM Installation and Migration Guide	GC30-3039
OS/VS TCAM Program Reference Summary	GY30-1024
ACF/TCAM System Programmer's Guide	SC30-3117
ACF/TCAM Installation and Migration Guide	SC30-3121
ACF/TCAM Program Reference Summary	LY30-3037

OS/VS SAMPLES (COMMON CODE)

VTAM FILE ALLOCATION SAMPLE FOR OS/VS1

```
//ALLOC JOB   MSGLEVEL=(1,1)
//ALLOC EXEC  PGM=IEFBR14
//*   THIS STEP WILL ALLOCATE THE NECESSARY VTAM DATA SETS.
//DD1 DD UNIT=SYSDA,VOL=SER=SNA001,DISP=(,CATLG),SPACE=(CYL,(5,1,10)),
//   DCB=(LRECL=80,RECFM=FB,BLKSIZE=800),DSN=SYS1.VTAMLST
//DD2 DD UNIT=SYSDA,VOL=SER=SNA001,DISP=(,CATLG),SPACE=(CYL,(2,1,10)),
//   DCB=(LRECL=3152,RECFM=F,BLKSIZE=3152),DSN=SYS1.VTAMOBJ
//DD3 DD UNIT=SYSDA,VOL=SER=SNA001,DISP=(,CATLG),SPACE=(CYL,(1)),
//   DSN=NCPDUMP
```

VSAM DATA SET ALLOCATION FOR VTAM

```
//VSAMCAT JOB CLASS=A
// EXEC PGM=IDCAMS
//TARGETVOL DD DISP=OLD,VOL=SER=SNA001,UNIT=3330,DISP=OLD
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
  DEFINE UCAT(NAME(USRVCAT) FILE(TARGETVOL) VOL(SNA001) CYL(2,1) -
    TO(99999))
/*
//VSAMALC JOB CLASS=a
//JOB CAT DD DISP=OLD,DSN=USRVCAT
// EXEC PGM=IDCAMS
//FSPACE1 DD DISP=OLD,UNIT=3330,VOL=SER=SNA001
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
  DEFINE SPACE(FILE(FSPACE1) VOL(SNA001) CYL (50,5))
  DEFINE CLUSTER (NAME(LRNCKPT) -
    VOL(SNA001) -
    KEYS(2,0) -
    TRACKS(2) -
    RECSZ(10,10) -
    SHR(4,4) -
    FREESPACE(1))
  DEFINE CLUSTER (NAME(NCP001) -
    KEYS(4,0) -
    VOL(SNA001) -
    TRACKS(2) -
    FSPC(1) -
    SHR(4,4) -
```



```
        RECSZ(24,24))
DEFINE CLUSTER (NAME(LOC001) -
        KEYS(4,0) -
        VOL(SNA001) -
        TRACKS(2) -
        FSPC(1) -
        SHR(4,4) -
        RECSZ(24,24))
DEFINE CLUSTER (NAME(SWT001) -
        KEYS(4,0) -
        VOL(SNA001) -
        TRACKS(2) -
        FSPC(1) -
        SHR(4,4) -
        RECSZ(24,24))
```

/\*

NOTES- Appendix G of the OS/VS1 VTAM System Programmer's Guide should be referenced. (VTAM Level 2 only).

OS/VS SAMPLES (COMMON CODE)

NCP FILE ALLOCATION AND INSTALLATION SAMPLE FOR OS/VS (2314)

The following sample is for NCP/VS Release 5.0.

```
//ALLOC JOB   MSGLEVEL=(1,1)
//ALLOC EXEC  PGM=IEFBRI4
//* THIS STEP WILL ALLOCATE THE NECESSARY NCP DATA SETS.
//DD1 DD UNIT=2314,VOL=SER=NCPR50,DISP=(,CATLG),SPACE=(CYL,(37,4,11)),
//   DSN=SYS1.GEN3705,DCB=(LRECL=80,RECFM=FB,BLKSIZE=3520)
//DD2 DD UNIT=2314,VOL=SER=NCPR50,DISP=(,CATLG),SPACE=(CYL,(64,5,36)),
//   DSN=SYS1.MAC3705,DCB=(LRECL=80,RECFM=FB,BLKSIZE=3520)
//DD3 DD UNIT=2314,VOL=SER=NCPR50,DISP=(,CATLG),SPACE=(CYL,(8,2,30)),
//   DCB=(LRECL=80,RECFM=FB,BLKSIZE=400),DSN=SYS1.OBJ3705
//DD4 DD UNIT=2314,VOL=SER=NCPR50,DISP=(,CATLG),SPACE=(CYL,(2,1,10)),
//   DCB=(LRECL=80,RECFM=FB,BLKSIZE=400),DSN=SYS1.NCPOBJ
//DD5 DD UNIT=2314,VOL=SER=NCPR50,DISP=(,CATLG),SPACE=(CYL,(5,2,10)),
//   DSN=SYS1.NCPLOAD1
//STA EXEC  PGM=IEHMOVE
//* THIS STEP WILL COPY THE DATA FROM THE TAPE TO THE DISK
//SYSPRINT DD  SYSOUT=A
//SYSUT1 DD  UNIT=2314,SPACE=(CYL,(5,5))
//TAPEIN DD   UNIT=2400,VOL=SER=DISSTP,LABEL=(,NL),
//   DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),DISP=(OLD,PASS)
//DISKOUT DD  UNIT=2314,VOL=SER=NCPR50,DISP=OLD
//SYSIN DD   *
SSP      COPY  PDS=SYS1.SSPLIB,FROM=2400=(DISSTP,1),
TO=2314=NCPR50,FROMDD=TAPEIN
NCPMAC1  COPY  PDS=SYS1.GEN3705,FROM=2400=(DISSTP,2),
FROMDD=TAPEIN,TO=2314=NCPR50
NCPMAC2  COPY  PDS=SYS1.MAC3705,FROM=2400=(DISSTP,3),
FROMDD=TAPEIN,TO=2314=NCPR50
NCPOBJ   COPY  PDS=SYS1.OBJ3705,FROM=2400=(DISSTP,4),
FROMDD=TAPEIN,TO=2314=NCPR50
/*
```

NOTES- This job stream allocates space for the data sets required for an NCP installation and generation. The PDS SYS1.SSPLIB must be copied to the SYS1.LINKLIB as noted in the next sample. The storage requirements may vary between release levels of NCP/VS. The Program Directories shipped with the NCP tape should always be consulted.

NCP INSTALLATION CONTINUED, UPDATE LINKLIST

```
./ ADD NAME=LNKLSTxx
      SYS1.LINKLIB,  SYSTEM LINKLIB          XXXXXXXXXX
      SYS1.LINKLIB2, USER UTILITIES        XXXXXXXXXXXX
      IMS.RESLIB,   IMS LIBRARY             XXXXXXXXXXXXXXXXXXXX
      SYS1.SSPLIB   NCP UTILITIES
```

NOTES- This stage is necessary. VTAM expects to find the 370x loader in the SYS1.LINKLIB and VTAM will be unable to load the 3705 if it can not find the loader. NCP utilities may be placed in SYS1.LINKLIB.

OS/VS SAMPLES (COMMON CODE)

NCP JOB CONTROL FOR STAGE 1 - OS/VS

```
//SCRNCP4 JOB MSGLEVEL=(1,1)
//      EXEC  PGM=IEHPRGM
//SYSPRINT DD  SYSOUT=A
//DD3   DD    UNIT=2314,VOL=SER=NCPR50,DISP=OLD
//SYSIN DD *
      SCRATCH DSN=NCSTG1,VOL=2314=NCPR50,PURGE
/*
//STAGE1 EXEC PGM=CWAX00,REGION=320K
//SYSLIB DD DSN=SYS1.GEN3705,DISP=SHR
//OBJ1 DD UNIT=2314,VOL=SER=NCPR50,DISP=(,CATLG),SPACE=(CYL,(2,1,10)),
//      DCB=(LRECL=80,RECFM=FB,BLKSIZE=400),DSN=SYS1.NCPOBJ1
//SYSUT1 DD    UNIT=SYSDA,SPACE=(1700,(800,800)),DCB=(OPTCD=C)
//SYSUT2 DD    UNIT=SYSDA,SPACE=(1700,(800,800)),DCB=(OPTCD=C)
//SYSUT3 DD    UNIT=SYSDA,SPACE=(1700,(800,800)),DCB=(OPTCD=C)
//SYSPRINT DD  SYSOUT=A
//SYSPUNCH DD DSN=NCSTG1,VOL=SER=NCPR50,DISP=(,KEEP),
//      UNIT=2314,SPACE=(CYL,(2,1)),DCB=(LRECL=80,RECFM=FB,BLKSIZE=800)
//SYSIN DD *
//SYSIN DD *
*****
*
*      SOURCE FOR NCP3 OS VTAM
*
*****
/*
//
```

NOTES- The JCL sample punches the Stage 1 output to a sequential data set. This sample allows Stage 2 to be started by reading from the file. The listing from Stage 1 must be examined for defaults and MNOTES. The punched output from this stage should allow an error free NCP generation. There may be unresolved EXTRNs in the link edit stage. The letter to users, that comes with the NCP installation materials, lists these unresolved EXTRNs. Normally these unresolved items can be ignored. Unlike DOS/VS, there are no additional steps after the link edit stage. The NCP load is ready to be used as soon as the last step is completed.

## OS/VS NCP LOAD SAMPLE

```
//LOAD JOB MSGLEVEL=(1,1)
/** THIS ROUTINE LOADS THE LOCAL 3705
// EXEC PGM=IFLOADRN
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD DSN=NCP.NCPSN2,DISP=SHR
/** NEXT STATEMENT SPECIFIES INITIAL TEST LIBRARY
//SYSUT3 DD DSN=SYS1.LINKLIB,DISP=SHR
//CUNAME DD UNIT=0BF
//SYSIN DD *
LOAD LOADMOD=NCPSN2,3705=CUNAME,DIAG=Y8
/*
//
```

NOTES- Options for this routine are covered in Chapter 7 of the NCP Generation manual, GC30-3008. This routine maybe used to check the NCP with initial test, prior to loading the 370x using VTAM. If the NCP is defined with 'Automatic Network Shutdown', the NCP will go back to the load state after the 'TIMEOUT' value specified in the NCP 'HOST' parameter has expired.

## SAMPLE JCL TO DUMP AND PRINT NCP ON OS/VS

```
//DUMP JOB MSGLEVEL=(1,1)
/** THIS ROUTINE DUMPS AND PRINTS THE LOCAL 3705 STORAGE CONTENTS
// EXEC PGM=IFLREAD
//SYSPRINT DD SYSOUT=A
/** SYSUT1 SPECIFIES THE 3705 ADDRESS
//SYSUT1 DD UNIT=0BF
/** SYSUT2 SPECIFIES THE TEMORARY DASD WORK DATA SET
//SYSUT2 DD UNIT=SYSDA,DISP=NEW, X
// SPACE=(512,(513),,CONTIG),DCB=(DSORG=DA)
//SYSIN DD *
DUMP FROMADDR=200,BUF=Y,FORMAT=Y
/*
//
```

NOTES- Options for this procedure are covered in Chapter 8 of the NCP Generation Manual, GC30-3008.

OS/VS SAMPLES (COMMON CODE)

SAMPLE JCL FOR STARTING AND STOPPING VTAM TRACE

```
//PROCUJ JOB 'UPDATE PROCLIB',MSGLEVEL=1,REGION=100K
//      EXEC  PGM=IEBUPDTE,PARM=MOD
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD   DSNAME=SYS1.PROCLIB,DISP=SHR
//SYSUT2 DD   DSNAME=SYS1.PROCLIB,DISP=SHR
//SYSIN  DD   DATA
./  ADD NAME=GOTRACE,LIST=ALL
//TRACE PROC
// MODIFY NET,TRACE,TYPE=IO,ID=NCPSN2
// MODIFY NET,TRACE,TYPE=BUF,ID=NCPSN2
// MODIFY NET,TRACE,TYPE=IO,ID=CL3790
// MODIFY NET,TRACE,TYPE=BUF,ID=CL3790
// MODIFY NET,TRACE,TYPE=IO,ID=INBATCH1
// MODIFY NET,TRACE,TYPE=BUF,ID=INBATCH1
// MODIFY NET,TRACE,TYPE=IO,ID=INQDEM02
// MODIFY NET,TRACE,TYPE=BUF,ID=INQDEM02
// VARY NET,ACT,ID=CL3790
//STEP1 EXEC PGM=IEFBRI4
// * OPERATOR COMMANDS TO SET UP FOR TRACE
./  ADD NAME=NOTRACE,LIST=ALL
//NOTRACE PROC
// MODIFY NET,NOTRACE,TYPE=IO,ID=NCPSN2
// MODIFY NET,NOTRACE,TYPE=BUF,ID=NCPSN2
// MODIFY NET,NOTRACE,TYPE=IO,ID=CL3790
// MODIFY NET,NOTRACE,TYPE=BUF,ID=CL3790
// MODIFY NET,NOTRACE,TYPE=IO,ID=INBATCH1
// MODIFY NET,NOTRACE,TYPE=BUF,ID=INBATCH1
// MODIFY NET,NOTRACE,TYPE=IO,ID=INQDEM02
// MODIFY NET,NOTRACE,TYPE=BUF,ID=INQDEM02
// * OPERATOR COMMANDS TO STOP VTAM TRACE
//STEP1 EXEC PGM=IEFBRI4
./  ENDUP
/*
```

NOTES- This procedure allows an operator to execute a list of operator commands. It reduces operator error and insures that trace is started or stopped on specified nodes. The same operation can be accomplished by entering the commands through the card reader.

## SAMPLE JCL FOR PRINTING TCAM TRACE RECORDS

```

//PROCUP JOB 'UPDATE PROCLIB',MSGLEVEL=1,REGION=100K
//      EXEC PGM=IEBUPDTE,PARM=MOD
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD DSN=SYS1.PROCLIB,DISP=SHR
//SYSUT2 DD DSN=SYS1.PROCLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=TRACES,LIST=ALL
//PIU EXEC PGM=IEDQXB,PARM='PIUT'
//SYSUT1 DD DSN=TCAM.COMWRITE,DISP=OLD
//SYSPRINT DD SYSOUT=R,SPACE=(CYL,(5,1))
//BUFF EXEC PGM=IEDQXB,PARM='BUFF'
//SYSUT1 DD DSN=TCAM.COMWRITE,DISP=OLD
//SYSPRINT DD SYSOUT=R,SPACE=(CYL,(5,1))
//LINE EXEC PGM=IEDQXB,PARM='LINT,LIN3'
//SYSUT1 DD DSN=TCAM.COMWRITE,DISP=OLD
//SYSPRINT DD SYSOUT=R,SPACE=(CYL,(5,1))
//IOTR EXEC PGM=IEDQXB,PARM='IOTR'
//SYSUT1 DD DSN=TCAM.COMWRITE,DISP=OLD
//SYSPRINT DD SYSOUT=R,SPACE=(CYL,(5,1))
//STCB EXEC PGM=IEDQXB,PARM='STCB'
//SYSUT1 DD DSN=TCAM.COMWRITE,DISP=OLD
//SYSPRINT DD SYSOUT=R,SPACE=(CYL,(5,1))
./ ENDUP
/*

```

OS/VS SAMPLES (COMMON CODE)

SAMPLE JCL FOR RUNNING TCAM

```
//PROCUP JOB 'UPDATE PROCLIB',MSGLEVEL=1,REGION=100K
//      EXEC  PGM=IEBUPDTE,PARM=MOD
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD  DSN=SYS1.PROCLIB,DISP=SHR
//SYSUT2 DD  DSN=SYS1.PROCLIB,DISP=SHR
//SYSIN  DD  DATA
./ ADD NAME=TCAM,LIST=ALL
//SCRQ   EXEC  PGM=IEFBR14
//REQUEUE DD DSN=TCAM.REQUEUE,DISP=(OLD,DELETE)
//FORMATQ EXEC PGM=IEDQXA
//IEDQDATA DD DSN=TCAM.REQUEUE,DISP=(,CATLG),DCB=KEYLEN=156,
//          VOL=SER=SCLIB1,UNIT=3330-1,SPACE=(CYL,(5,5),,CONTIG)
//ACFTCAM EXEC PGM=IEDQTCAM,TIME=1440,DPRTY=(11,10),REGION=600K
//STEPLIB DD DSN=SYS2.NCPLIB,DISP=SHR
//REQUEUE DD DSN=TCAM.REQUEUE,DISP=SHR
//COMWRITE DD DSN=TCAM.COMWRITE,DISP=SHR
//NCPDUMP DD DSN=TCAM.NCPDUMP,DISP=SHR
//DDIPL   DD DSN=SYS2.NCPLIB,DISP=SHR
//NCP     DD UNIT=019,DCB=IPLTXID=NCPACFI
//DD3270L DD UNIT=4C8
//        DD UNIT=4C9
//QOPCTLI DD QNAME=AOPCTLI
//QOPCTLO DD QNAME=AOPCTLO
//QOPCTLP DD QNAME=AOPCTLP
//QSOFO   DD QNAME=ASOFO
//Q3270I  DD QNAME=A3270I
//Q32700  DD QNAME=A32700
//QDLQI   DD QNAME=DLQ
//QDLQ0   DD SYSOUT=R
//SYSUDUMP DD SYSOUT=A,SPACE=(CYL,(5,1))
./ ENDUP
/*
```



CHAPTER 6 : ACF/TCAM SAMPLE

This section contains a sample MCP for ACF/TCAM and the USS table definitions for the devices supported in the MCP.

REFERENCES

TCAM Migration To NCP and SNA Featuring IBM 3790	GG22-9100
ACF/TCAM General Information	GC30-2050
ACF/TCAM Concepts and Planning	GC30-3049
ACF/TCAM System Programmer's Guide	SC30-3117
ACF/TCAM Macro Reference Guide	SC30-3118
ACF/TCAM Application Programmer's Guide	SC30-3119
ACF/TCAM Installation and Migration Guide	SC30-3121
ACF/TCAM MSNF Program Reference Summary Supplement	LD21-0003
ACF/TCAM Program Reference Summary	LY30-3037

ACF/TCAM SAMPLE

ACF/TCAM SAMPLE MCP

```
TITLE '                                TCAM SAMPLE MCP'
*****
*                                *
* ACF/TCAM SYSTEM OPERATION *
*                                *
*****
*
*
* TO START TCAM ENTER:          S TCAM
*
* TO ACTIVATE AND USE LOCAL 3270'S ENTER:
* FROM THE OS CONSOLE: V 4C8,ONTP
*
* TO STOP TCAM:
* 1) FROM THE CONSOLE ENTER:    C TCAM(,DUMP)
* OR
* 2) FROM A LOGGED ON 3270 ENTER: CLOSE
*                               THEN: // Z TP,QUICK
*
* TO PRINT THE TRACES ENTER:    S TRACES
*
* TO PRINT THE MESSAGE QUEUE ENTER: S PRTQ
*
*****

*****
*
* TO INITIATE A SESSION THE FOLLOWING COMMANDS MAY BE USED - ENTER:
*
* INITS          (FOR TCAM SESSIONS)
* TCAM           (FOR TCAM SESSIONS)
* LOGON (TSOID/PASSWORD) (FOR TSO)
* TSO   (TSOID/PASSWORD) (FOR TSO)
* IMS      (FOR VTAM SESSIONS)
* CICS     (FOR VTAM SESSIONS)
*
* TO TERMINATE A SESSION THE FOLLOWING COMMANDS MAY BE USED - ENTER:
*
* TERMS          (FOR TCAM SESSIONS)
* LOGOFF         (FOR TSO)
* TERMI          (FOR VTAM SESSIONS)
* TERMC         (FOR VTAM SESSIONS)
*
* ALL FORMATS ARE VALID IN UPPER OR LOWER CASE.
*
```

\* MODIFICATIONS TO THE SSCPMH (SEE FURTHER DISCUSSIONS THERE) WILL \*  
 \* ENABLE THESE COMMANDS TO BE INTERPERTED FOR THE CORRECT LU AND \*  
 \* BIND PARAMETERS. NOTE THAT THE REGULAR INITS AND TERMS FORMATS \*  
 \* MAY STILL BE USED TO OVERRIDE THE DEFAULTS. \*  
 \*

\*\*\*\*\*

\* MESSAGE DEFINITION: \*

* TYPE	* FORMAT	* MEANING
* I	* I XXXXXX	* INQUIRY
* M	* M DEST / (DATA)	* MESSAGE SWITCH
* O	* // (CMD)	* OPERATOR CONTROL
* X	* X (CMD)	* EXTENDED OPERATOR CONTROL
* N	* NDS X (X IS MODEL NO)	* NDS TEST MESSAGE FOR ALL MODELS
* S	* /TCAMXXXX	* SOF OPERATOR COMMANDS (OUTPUT GOES TO SDLC76P7)

\*\*\*\*\*

\*\*\*\*\*  
 \* ACF/TCAM: PROGID=IEDQTCAM ACF/NCP: NEWNAME=NCPACFI \*  
 \* SYSTEM AS OF \* UNITSZ=156 UNITSZ=156 \*  
 \* 01/05/79 \* MAXSUBA=31 MAXSUBA=31 \*  
 \* SUBAREA=14 SUBAREA=21 \*  
 \* MAXBFRU=20 \*  
 \*\*\*\*\*

*TYPE	GROUP	LINE	CLUSTER(PU)	TERM(LU)	MESSAGE TYPES
* NCP	SDLCGV1	SDLCI29	PU3270V	LU3270V0 LU3270V1 TO LU3270V7	I,M,O,X,S
		SDLCI22	SDLC3274	SDLCPA01 TO SDLCPA08	I,M,O,X,N,S

ACF/TCAM SAMPLE

```

*
*          SDLCI23
*          SDLC3276      SDLC76P1      I,M,O,X,N,S
*                        TO
*                        SDLC76P8
*
*          BSCI25
*          BSC3270      BSC32700      I,M,O,X,N,S
*                        TO
*                        BSC32707
*
*.....*
*
* OTHER TCAM LU'S: IEDQTCAM (DEFAULT MHS3270)
*          MHS3270 (3270 BSC,SDLC & LOCAL)  I,M,O,X,S
*          NDSMH   (3270 NDS)              I,M,O,X,N,S
*          TSOMH
*
*****

```

```

TCAM      CSECT
EXTRN IEDN25      REQUIRED FOR USER EBCF TRANS TABLE
INTRO ABEFMT=(PCB,SIB,PLCB,OPT),APDUMP=NO,APWAS=4024,      X
      AUTHA=YES,BFRRTN=LO,BRACKET=YES,BTRACE=030,CDRVT=40,  X
      CIB=10,CKREQS=0,COMWRTE=YES,CONTROL=//,CPB=30,        X
      CPINTVL=1800,CPRCDS=2,CROSSRF=0,DISK=YES,DLQ=DLQ,    X
      DTRACE=(500,POST),ENVIRON=MIXED,                      X
      FEATURE=(, , , ,MIXD3705,MIXDSNA,NETWORK),            X
      INTVAL=0,LINETY= BOTH, LNUNITS=300,MAXSUBA=31,MSMAX=70, X
      MSMIN=1,MSUNITS=150,OLTEST=0,PASSWRD=0,PLCBNO=15,    X
      PRIMARY=SYSCON,PROGID=IEDQTCAM,RESTART=0,ROUTE=NO,   X
      SIBCNT=80,STARTUP=C,SUBAREA=14,THRESH=(255,1,1,1),   X
      TOPMSG=YES,TRACE=(50,ON),TTRACE=200,UNITSZ=156,      X
      USEREG=0,VM=YES

```

```

LTR      15,15
BZ       AOK          BRANCH IF NO ERROR
ABEND 4095,DUMP

```

```

*****
DC       C'ACF/TCAM SNA MCP COMPILED'
DC       C' &SYSDATE &SYSTIME'
*****

```

```

AOK      OPEN (REQUEUE,(INOUT))  OPEN MESSAGE QUEUES DATA SET
LTR      R15,R15                TEST OPEN RETURN CODE
BNZ      BADOPEN                IF OPEN FAILED, BRANCH
OPEN     (LOC3270,(INOUT,IDLE))  OPEN LOCAL 3270 DCB
LTR      R15,R15                TEST OPEN RETURN CODE
BNZ      BADOPEN                IF OPEN FAILED, BRANCH

```

```

OPEN (NCPDCB,(INOUT)) OPEN 3705 NCP
LTR R15,R15 TEST OPEN RETURN CODE
BNZ BADOPEN IF OPEN FAILED, BRANCH
ATTACH EP=APPL3270
ATTACH EP=OPCTL
ATTACH EP=APPLMDR
WTO 'TCAM IS UP ..... '
READY GMSG=GDMRNG READY WITH GOOD MORNING ROUTINE
CLOSE NCPDCB CLOSE 3705
CLOSE LOC3270 CLOSE LOCAL 3270
CLOSE REQUEUE CLOSE MESSAGE QUEUES DATA SET
L 13,4(13) RESTORE SAVE AREA POINTER
RETURN (14,12),RC=0 RETURN TO CALLER
BADOPEN ABEND 4094,DUMP AN OPEN MACRO WAS UNSUCCESSFUL
*****
* THIS GOOD MORNING ROUTINE GETS CONTROL AT STARTUP. *
* IT IS EXECUTED ONCE FOR EACH TERMINAL IN THE TERMINAL *
* TABLE. THE TERMMODE OPTION FIELD IS CHECKED FOR A X'10'. *
* IF A X'10' IS FOUND A GOOD MORNING MESSAGE IS GENERATED. *
*****
      USING *,R15
GDMRNG STM R0,R14,SAVE SAVE REGISTERS AND ESTABLISH
      LA R13,SAVE ADDRESSABILITY
      BALR R6,0
      USING *,R6
      L R4,4(R1)
      TM 10(R4),X'10' TERMMODE SPECIFY GM MSG ?
      BNO NOGMSG NO, BRANCH
      LA R15,GMSG REG 15 IS ADDR OF GM MSG
RETOS LM R0,R14,0(R13) RESTORE REGISTERS
      BR R14 RETURN TO OS
NOGMSG SR R15,R15 CLEAR REG 15
      B RETOS
GMSG DC AL1(18)
      DC C'TCAM IS AVAILABLE'
      DROP R6
SAVE DC 15F'0'
*****
PCBDLQ PCB MH=MHDLP, BUFSIZE=1024, BUFIN=2, BUFOUT=2
PCBOPCTL PCB MH=MHOPCTL, BUFSIZE=256, BUFIN=2, BUFOUT=2
PCB3270 PCB MH=MH3270AP, BUFSIZE=256, BUFIN=10, BUFOUT=10
REQUEUE DCB DSORG=TQ, MACRF=(G,P), DDNAME=REQUEUE, OPTCD=R
NCPDCB DCB DSORG=TR, MACRF=(G,P), DDNAME=NCP
DUMPDCB DCB DSORG=PS, MACRF=(WP), DDNAME=NCPDUMP, BLKSIZE=512, RECFM=F, X
      LRECL=512
LOC3270 DCB DSORG=TX, MACRF=(G,P), DDNAME=DD3270L, MH=MHS3270, CPRI=S, X
      PCI=(N,N), BUFIN=1, BUFOUT=2, BUFMAX=2, BUFSIZE=2028, X
      SCT=EBCD, TRANS=IEDN25, INVLIST=(LLST1,,LLST2)

```

ACF/TCAM SAMPLE

```

*****
R0      EQU    0
R1      EQU    1
R2      EQU    2
R3      EQU    3
R4      EQU    4
R5      EQU    5
R6      EQU    6
R7      EQU    7
R8      EQU    8
R9      EQU    9
R10     EQU    10
R13     EQU    13
R14     EQU    14
R15     EQU    15

```

```

TITLE '                                TERMINAL TABLE'
*****
*          TERMINAL TABLE                                *
*                                                                 *
* TERMTYPE X'80' 3270 TERMINAL                             *
*          X'40' 2770/3770 TERMINAL                       *
*          X'20' 2741/3767 TERMINAL                       *
*          X'10' NDS 3270 TERMINAL                       *
*          X'08' S/S, BSC LINE CONTROL EP MODE           *
*          X'04' S/S, BSC LINE CONTROL NCP MODE           *
*          X'02' LOCAL SUPPORT                             *
*          X'01' SDLC LINE CONTROL                       *
*                                                                 *
* TERMMODE X'80' BATCH                                    *
*          X'40' INQUIRY                                   *
*          X'20' MESSAGE SWITCH                           *
*          X'10' GOOD MORNING MESSAGES REQUIRED            *
*          X'08' NO IDLES NEEDED                          *
*          X'04' SCREEN DEVICE                            *
*          X'02' IDLES NEEDED                             *
*          X'01' PRINTER                                  *
*                                                                 *
*****

```

```

TTABLE MAXLEN=8, LAST=BSC32707
TERMNAME OPTION CL8      1  TERMINAL NAME FIELD
PATHSW  OPTION XL1      2  OPTION FIELD FOR PATH SWITCH
TERMTYPE OPTION XL1      3  TERMINAL TYPE & LINE CONTROL
TERMMODE OPTION XL1      4  TERMINAL AND APPL CHARACTERISTICS
ERRCT   OPTION XL1      5  TRANS ERROR COUNTER (IEDVOFF)
IEDLMODE OPTION CL8      6  BIND NAME FOR HOST INITIATED SESSION
PRNT3270 OPTION CL8      7  NAME OF 328X FOR 3277 TO PRINT
IEDLUNAM OPTION CL8      8  DMH FOR HOST INITIATED SESSION
IEDQFSCR OPTION XL1      9  TSO FULL SCREEN SUPPORT
*****

```

```

ERRQ      TPROCESS PCB=PCB3270,QUEUES=DR
DLQ       TPROCESS PCB=PCBDLQ,QUEUES=DR,ALTDEST=DLQ
DLQ0      TPROCESS PCB=PCBDLQ
AOPCTLI   TPROCESS PCB=PCBOPCTL,QUEUES=DR,LU=YES
AOPCTLO   TPROCESS PCB=PCBOPCTL,QUEUES=DR
AOPCTLP   TPROCESS PCB=PCBOPCTL,ALTDEST=AOPCTLO,SECTERM=YES
ASOFO     TPROCESS PCB=PCBOPCTL,ALTDEST=SDLC76P7,SECTERM=YES
A3270I    TPROCESS PCB=PCB3270,QUEUES=DR,ALTDEST=A3270I
A32700    TPROCESS PCB=PCB3270
APPLS     TLIST TYPE=D,LIST=(A3270I,AOPCTLI,DLQ)

```

## ACF/TCAM 3270 LOCAL TERMINALS

```

*****
*          3270 LOCAL TERMINALS                4C8,4C9          *
*****
L3277A    TERMINAL TERM=327L,DCB=LOC3270,RLN=1,QBY=T,QUEUES=MRT,      X
          ALTDEST=L3277A,SECTERM=YES,UTERM=NO,                      X
          SCRSIZE=(24,80),FEATURE=(NOBREAK,NOATTN),                 X
          OPDATA=(L3277A,0,82,74,0,,LU3270V1,,0)
L3277B    TERMINAL TERM=327L,DCB=LOC3270,RLN=2,QBY=T,QUEUES=MRT,      X
          ALTDEST=L3277B,SECTERM=YES,UTERM=NO,                      X
          SCRSIZE=(24,80),FEATURE=(NOBREAK,NOATTN),                 X
          OPDATA=(L3277B,0,82,74,0,,LU3270V1,,0)
*****
*          TERMINAL ENTRIES FOR 3705 NCP AND SSCP                *
*****
NCP       TERMINAL TERM=LNCP,DCB=NCPDCB,DUMPDCB=DUMPDCB,ACTIVE=NO
SSCP      TERMINAL TERM=SSCP

```

## ACF/TCAM CDRM DEFINITION

```

*****
*          VTAM GROUP,CDRM AND CDRM RESOURCES                    *
*****
VTAM      GROUP MH=HOSTMH,BUFSIZE=256,BUFOUT=5,BUFMAX=10
MVSVMVT   TERMINAL TERM=CDRM,GROUP=VTAM,RLN=1,NETADDR=(13,1),ACTIVE=YES
IMS       TERMINAL TERM=LUNT,GROUP=VTAM,RLN=1,QBY=T,QUEUES=DR,LUCAP=PRI,X
          TCMSESN=LUTERM,OPDATA=(IMS)
CICS14    TERMINAL TERM=LUNT,GROUP=VTAM,RLN=1,QBY=T,QUEUES=DR,LUCAP=PRI,X
          TCMSESN=LUTERM,OPDATA=(CICS14)

```

ACF/TCAM SAMPLE

ACF/TCAM 3270 MODEL 12

```

*****
*          GROUP          *
*****
GSNA      GROUP MH=MHS3270,TRANS=EBCF,BUFMAX=7,OPACING=5,BUFSIZE=2028
*****
*          LINE 1        *
*****
SDLCI29  TERMINAL TERM=LINE,GROUP=GSNA,RLN=1,ACTIVE=YES
*****
*          3270 LEASED LINE SDLC          *
*****
PU3270V  TERMINAL TERM=PUNT
LU3270V0 TERMINAL TERM=LUNT,GROUP=GSNA,RLN=1,QBY=T,QUEUES=MRT,USS=3270,X
          ALTDEST=LU3270V0,SECTERM=YES,          X
          SCRSIZE=(24,80),FEATURE=(NOBREAK,NOATTN), X
          OPDATA=(LU3270V0,0,81,64,0,BI3270NB,LU3270V1,MHS3270,0)
LU3270V1 TERMINAL TERM=LUNT,GROUP=GSNA,RLN=1,QBY=T,QUEUES=DR,USS=3270, X
          ALTDEST=LU3270V1,          X
          OPDATA=(LU3270V1,0,81,61,0,BI3270NB,,MHS3270)

```

```

*****
Code deleted.
*****

```

```

LU3270V7 TERMINAL TERM=LUNT,GROUP=GSNA,RLN=1,QBY=T,QUEUES=MRT,USS=3270,X
          ALTDEST=LU3270V7,SECTERM=YES,          X
          SCRSIZE=(24,80),FEATURE=(NOBREAK,NOATTN), X
          OPDATA=(LU3270V7,0,81,64,0,BI3270NB,LU3270V1,MHS3270,0)

```

ACF/TCAM 3274 LEASED LINE

```

*****
*          LINE 2        *
*****
SDLCI22  TERMINAL TERM=LINE,GROUP=GSNA,RLN=2,ACTIVE=YES
*****
*          3274 LEASED LINE SDLC          *
*****
SDLC3274 TERMINAL TERM=PUNT
SDLCPA01 TERMINAL TERM=LUNT,GROUP=GSNA,RLN=2,QBY=T,QUEUES=MRT,USS=SCS, X
          ALTDEST=SDLCPA01,SECTERM=YES,BUFSIZE=3588, X
          SCRSIZE=(24,80,43,80),FEATURE=(NOBREAK,NOATTN), X
          OPDATA=(SDLCPA01,0,11,64,0,NDS3278,SDLCPA07,NDSMH,0)

```



\*\*\*\*\*  
Code deleted.  
\*\*\*\*\*

SDLCPA08 TERMINAL TERM=LUNT, GROUP=GSNA, RLN=2, QBY=T, QUEUES=DR, USS=SCS, X  
ALTDEST=SDLCPA08, X  
OPDATA=(SDLCPA08, 0, 11, 61, 0, NDS8789, , NDSMH)

ACF/TCAM 3276 LEASED LINE

\*\*\*\*\*  
\* LINE 3 \*  
\*\*\*\*\*  
SDLCI23 TERMINAL TERM=LINE, GROUP=GSNA, RLN=3, ACTIVE=YES  
\*\*\*\*\*  
\* 3276 LEASED LINE SDLC \*  
\*\*\*\*\*  
SDLC3276 TERMINAL TERM=PUNT, ACTIVE=YES  
SDLC76P1 TERMINAL TERM=LUNT, GROUP=GSNA, RLN=3, QBY=T, QUEUES=MRT, USS=SCS, X  
ALTDEST=SDLC76P1, SECTERM=YES, X  
SCRSIZE=(24, 80, 24, 80), FEATURE=(NOBREAK, NOATTN), X  
OPDATA=(SDLC76P1, 0, 11, 64, 0, NDS3278, SDLC76P7, NDSMH, 0)

\*\*\*\*\*  
Code deleted.  
\*\*\*\*\*

SDLC76P8 TERMINAL TERM=LUNT, GROUP=GSNA, RLN=3, QBY=T, QUEUES=DR, USS=SCS, X  
ALTDEST=SDLC76P8, X  
OPDATA=(SDLC76P8, 0, 11, 61, 0, NDS8789, , NDSMH)

ACF/TCAM BSC 3270

\*\*\*\*\*  
\* GROUP \*  
\*\*\*\*\*  
GBSC GROUP MH=MHS3270, TRANS=EBCF, BUFSIZE=2028, PCI=(, N)  
\*\*\*\*\*  
\* LINE 1 \*  
\*\*\*\*\*  
BSCI25 TERMINAL TERM=LINE, GROUP=GBSC, RLN=1, ACTIVE=NO

ACF/TCAM SAMPLE

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*           3271 LEASED LINE BSC                                     *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
BSC3270  TERMINAL TERM=327C,GROUP=GBSC,RLN=1,QBY=T
BSC32700 TERMINAL TERM=327R,GROUP=GBSC,RLN=1,QBY=T,QUEUES=DRT,      X
          ALTDEST=BSC32700,SECTERM=YES,                             X
          SCRSIZE=(24,80),FEATURE=(NOBREAK,NOATTN),                 X
          OPDATA=(BSC32700,0,84,74,0,,BSC32706,,0)

```

```

*****
Code deleted.
*****

```

```

BSC32707 TERMINAL TERM=327R,GROUP=GBSC,RLN=1,QBY=T,QUEUES=DR,      X
          ALTDEST=BSC32707,OPDATA=(BSC32707,0,84,71,0)

```

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*           3270 LOCAL INVITATION LIST                             *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
LLST1   INVLIST  ORDER=(L3277A+06)      LOCAL 3270 INVITATION LIST.
LLST2   INVLIST  ORDER=(L3277B+06)      ONE REQUIRED PER LOCAL DEVICE
*           MUST BE DEFINED IN THE SAME SEQUENCE AS THE TERMINAL MACROS
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

```

          TSINPUT
          TITLE '          SSCP MESSAGE HANDLER'
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*           MESSAGE HANDLER FOR SYSTEM SERVICES CONTROL POINT      *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*           IEDMHGEN SSCP=YES,TOTE=NO
IEDSCPMH STARTMH MH=SSCP
IEDDCT1  EQU   X'01'          DISPLACEMENT FOR DCTBYTE1
IEDPREFG EQU   X'03'          DISPLACEMENT FOR PRFLFLG1
IEDFDDCT EQU   X'05'          DISPLACEMENT FOR DCTBYTE5
IEDTRMB0 EQU   X'0A'          DISPLACEMENT FOR TRMBYTE0
IEDCINDX EQU   X'10'          DISPLACEMENT FOR TRMCHIN
IEDSRCE  EQU   X'10'          DISPLACEMENT FOR PRFSRCE
IEDDEST  EQU   X'28'          DISPLACEMENT FOR PRFDEST
IEDSTAT2 EQU   X'47'          DISPLACEMENT FOR LCBRSP
IEDFSTCH EQU   X'100'        DISPLACEMENT FOR AVTCSTCS
IEDMKLEN EQU   X'3E8'        DISPLACEMENT FOR AVTDCTLN
IEDLRSP  EQU   X'01'          EQUATE FOR LCBRESP
IEDTRMSN EQU   X'02'          EQUATE FOR TRMSNA
IED3270R EQU   X'04'          EQUATE FOR DCT3270
IEDCNVTD EQU   X'08'          EQUATE FOR PRFLUSS
IEDRHFMT EQU   X'08'          EQUATE FOR FORMATTED INDICATOR
IEDPFLCB EQU   X'0C'          EQUATE FOR PRFLCB
IEDF3270 EQU   X'40'          EQUATE FOR DCTL3270

```

```

INHDR
L      6,IEDADBUF      GET BUFFER ADDRESS
SLR    1,1            CLEAR REGISTER
ICM    1,3,IEDSRCE(6)  GET SOURCE TERMINAL'S TNT
L      15,IEDRNMP      GET ADDRESS OF TNT ROUTINE
BALR   14,15          CONVERT TNT TO TTE
LR     8,1            SAVE SOURCE TERMINAL'S TTE ADDR
LH     11,IEDMKLEN(13) GET LENGTH FOR DCT MASK
SLR    2,2            CLEAR REGISTER
IC     2,IEDCINDX(8)  GET DEVICE CHAR TABLE INDEX
BCTR   2,0            SUB 1 FROM DEVICE CHAR INDEX
MR     10,2           MULT DCT MASK LENGTH BY INDEX
AL     11,IEDFSTCH(13) ADD ADDRESS FOR FIRST ENTRY
LR     7,1            GET TTE ADDRESS
SL     7,IEDTTPFL      BACK UP TO START OF NEG PREFIX
TM     IEDTRMB0(7),IEDTRMSN IS SOUREC A FID1 DEVICE
BNZ    IEDFID1        YES
TM     IEDDCT1(11),IED3270R IS SOURCE A REMOTE 3270
BZ     IEDNR327        NO
MSGEDIT ((R,,SCAN,(5))),BLANK=NO REMOVE CU DEV AID CUR CUR
MSGEDIT ((RA,,X'11',(2))) REMOVE SBA ADDR ADDR
B      IEDTRYFT        FORMAT 3270 FID0 INPUT
IEDNR327 MSGEDIT ((RA,,X'15'))
MSGEDIT ((RA,,X'3C'))
MSGEDIT ((RA,,X'1E'),(RA,,X'1F')) REMOVE IRS IUS
B      IEDTRYFT        FORMAT FID0 INPUT
IEDFID1 TM IEDFDDCT(11),IEDF3270 IS THIS 3270 DATA STREAM ?
BZ     IEDN3270        NO
MSGEDIT ((RA,,X'01',(3)),(RA,,X'11',(2)),(RA,,X'7D',(2))), X
      BLANK=NO (SOH % / STX),(SBA ADDR ADDR),(AID CUR CUR)
B      IEDCKFMT        SEE IF FORMATTED
IEDN3270 MSGEDIT ((RA,,X'15')) REMOVE NL
IEDCKFMT IEDRH RHIND=(+FMH)
LTR    15,15          RU FORMATTED ?
BZ     IEDSCPF        YES
***** PASC
CODE IEDN25           OP CTL AND TRANSLATE PASC
***** PASC
SETSCAN C'IEDTOTE/',BLANK=NO
LTR    15,15          IS THIS A TOTE COMMAND
BNZ    IEDTRYFT        NO
FORWARD TASK=TOTE
L      6,IEDADBUF      GET BUFFER ADDRESS
MVI    0(6),X'1C'      SET PRFKEY FOR TOTE
B      IEDNDPRC        BRANCH TO END PROCESSING
IEDTRYFT EQU *
***** PASC
* THIS CHANGE TESTS FOR A USS TYPE OF DEVICE AND FORMATS THE PASC

```

ACF/TCAI SAMPLE

```

* MESSAGES ACCORDING TO A USS TABLE FOR THAT TYPE OF DEVICE. PASC
* PASC
* EACH USS TABLE HAS STANDARD DEFAULTS THUS ELIMINATING THE PASC
* REQUIREMENT TO KEY THESE IN AT SESSION INITIATION OR PASC
* TERMINATION TIME BUT STILL ALLOWING USERS TO OVERRIDE THE PASC
* DEFAULTS IF REQUIRED. PASC
* PASC
* IN ORDER TO LOGON TO TSO USING: LOGON TSOID/PASSWORD PASC
* EACH USS TABLE HAS THE USER DATA FIELD DEFINED (LENGTH 14). PASC
* PASC
* THESE CHANGES ARE DEPENDENT ON USING THE TERMTYPE OPTION FIELD PASC
* FOR EVERY TERMINAL AS DEFINED BELOW: PASC
* PASC
* TERMTYPE OPTION XLI X'80' 3270 TERMINAL PASC
* X'40' 3770 TERMINAL PASC
* X'20' 3767 TERMINAL PASC
* X'10' NDS 3270 TERMINAL PASC
***** PASC
          LOCOPT TERMTYPE,(5)          IS OPTION FIELD PRESENT PASC
          LTR 15,15          TEST RETURN PASC
          BNZ SSCPFMT          NO - EXIT PASC
          TM 0(5),X'80'          3270 PASC
          BO SSCP3270          YES PASC
          TM 0(5),X'20'          3767 PASC
          BO SSCP3767          YES PASC
          TM 0(5),X'40'          3770 PASC
          BO SSCP3770          YES PASC
          TM 0(5),X'10'          NDS 3270 PASC
          BO SSCPNDS          YES PASC
          B SSCPFMT          NONE OF THESE - EXIT PASC
SSCP3270 EQU * PASC
          IEDFMT IN=IEDAREA1,OUT=IEDAREA2, TABLE=USS3270 PASC
          B IEDSCPF D PASC
SSCP3767 EQU * PASC
          IEDFMT IN=IEDAREA1,OUT=IEDAREA2, TABLE=USS3767 PASC
          B IEDSCPF D PASC
SSCP3770 EQU * PASC
          IEDFMT IN=IEDAREA1,OUT=IEDAREA2, TABLE=USS3770 PASC
          B IEDSCPF D PASC
SSCPNDS EQU * PASC
          IEDFMT IN=IEDAREA1,OUT=IEDAREA2, TABLE=USSNDS PASC
          B IEDSCPF D PASC
SSCPFMT EQU * PASC
***** PASC
          IEDFMT IN=IEDAREA1,OUT=IEDAREA2, TABLE=IEDUSSTB PASC
IEDSCPF D EQU *
          L 6,IEDADBUF          GET BUFFER ADDRESS
          L 4,IEDPFLCB(6)          GET PLCB ADDRESS

```

```

NI      IEDSTAT2(4),X'FF'-IEDLRSP SO NO RESPONSE IS SENT
FORWARD TASK=SSCP
IEDNDPRC INEND
        OUTHDR
        L      2,IEDADBUF          GET BUFFER ADDRESS
        S      2,IEDNGPRF         BACK UP TO NEGATIVE PREFIX
        TM     IEDPREFG(2),IEDCNVTD  NEED TO BE CONVERTED
        BZ     IEDNFMT            NO
        IEDFMT IN=IEDAREA1,OUT=IEDAREA2, TABLE=IEDFSSTB
        B      IEDOUTPC          BRANCH TO OUTEND PROCESSING
IEDNFMT  L      6,IEDADBUF          GET BUFFER ADDRESS
        SLR    1,1              CLEAR REGISTER
        ICM    1,3,IEDDEST(6)     GET DEST'S TERMINAL'S TNT
        L      15,IEDRNMP        GET ADDRESS OF TNT ROUTINE
        BALR   14,15            CONVERT TNT TO TTE
        LR     8,1              SAVE DESTINATION'S TTE ADDR
        LH     11,IEDMKLEN(13)    GET LENGTH FOR DCT MASK
        SLR    2,2              CLEAR REGISTER
        IC     2,IEDCINDX(8)     GET DEVICE CHAR TABLE INDEX
        BCTR   2,0              TAKE 1 FROM DEV CHAR INDEX
        MR     10,2             MUTPLY DCT MASK LEN * INDEX
        AL     11,IEDFSTCH(13)   ADDRESS FOR FIRST ENTRY
        S      6,IEDNGPRF         GET NEGATIVE PREFIX
        TM     0(6),IEDRHFM      RU FORMATTED ?
        BO     IEDOUTPC          YES
        TM     IEDFDDCT(11),IEDF3270  IS THIS 3270 DATA STREAM?
        BZ     IEDCKFD0          CK FOR NL INSERTION
        TM     IEDPREFG(6),IEDCNVTD  CONVERTED DATA ?
        BO     IEDOUTPC          YES - EXIT
        MSGEDIT ((I,XL2'F1C3',,))
        B      IEDOUTPC          EXIT
IEDCKFD0 TM     IEDTRMB0(8),IEDTRMSN  FID1?
        BZ     IEDOUTPC          NO
        MSGEDIT ((I,X'15',,))      INSERT NL AT START OF BUFFER
        MSGEDIT ((I,X'15',0,)),LAST=YES  INSERT NL AT END OF MSG
IEDOUTPC OUTEND
        DS     0F
IEDTTPFL DC     F'18'           LENGTH OF TERM. NEGATIVE PREFIX
IEDNGPRF DC     F'8'           LENGTH OF BUFFER NEGATIVE PREFIX
IEDAREA1 DC     XL6'010000000000'  AREA FOR IEDFMT MACRO
        DC     XL256'00'
IEDAREA2 DC     XL6'010000000000'  AREA FOR IEDFMT MACRO
        DC     XL256'00'
        TITLE '                APPLICATION MESSAGE HANDLERS'
*****
*      MESSAGE HANDLER FOR OPERATOR CONTROL PROGRAM      *
*****
MHOPCTL STARTMH

```

ACF/TCAM SAMPLE

INHDR
IEDOPCTL
FORWARD DEST=PUT
INEND
OUTEND

\*\*\*\*\*
\* MESSAGE HANDLER FOR 3270 INQUIRY APPLICATION PROGRAM \*
\*\*\*\*\*
MH3270AP STARTMH

INHDR
FORWARD DEST=PUT
INEND
OUTEND

\*\*\*\*\*
\* MESSAGE HANDLER FOR ALL MESSAGES SENT TO THE DEAD LETTER QUEUE \*
\*\*\*\*\*
MHDLQAP STARTMH

INHDR
FORWARD DEST=PUT
INEND
OUTEND

\*\*\*\*\*
\* CROSS DOMAIN MH \*
\*\*\*\*\*
HOSTMH STARTMH BEXIT=(BINDXHH),DFC=NONE

INHDR
INEND
OUTEND

TITLE ' 3270 BSC,SDLC AND LOCAL MH'

\*\*\*\*\*
\* 3 2 7 0 M E S S A G E H A N D L E R \*
\* THIS MH SUPPORTS 3270 LOCAL,BSC AND SDLC. \*
\* INPUT DATA WILL APPEAR AS FOLLOWS: \*
\* A. C D A C C S B B \*
\* U V I U U B U U (USER TEXT) \*
\* C D R R A F F \*
\* B. 4 SNA SENSE BYTES \*
\* CU AND DVC ARE PRESENT FOR BSC ONLY. \*
\* SBA, BUF AND BUF ARE PRESENT WITH FORMATTED SCREENS ONLY. \*

\*\*\*\*\*
MHS3270 STARTMH DFC=FULL,LU=YES,ALTMH=T50MH
INHDR
PATH X'00',PATHSW RESET PATHSW TO IDENTIFY ERRORS
\* LOCATE THE ERRCT OPTION FIELD. IF IT IS EQUAL TO ZERO THEN IT

```

*      MUST BE RESET TO ONE TO PREVENT IEDVOFF FROM SUBTRACTING TO
*      MINUS ON GOOD TRANS.  SEE INMSG AND OUTMSG.
      LOCOPT  ERRCT,(7)          REG 7 IS ADDR OF ERRCT OPTION
      LTR     R15,R15           GOOD RETURN CODE ?
      BNZ     S32LOPT          NO, FORGET IT, BRANCH
      CLI     0(R7),X'00'      TEST ERRCT EQUAL ZERO
      BNE     S32LOPT          BRANCH NOT EQUAL ZERO
      MVI     0(R7),X'01'      SET TO ONE TO PREVENT MINUS ON VOFF
S32LOPT  LOCOPT  TERMTYPE,(4)   REG 4 IS ADDR OF TERMTYPE OPTION
      LTR     R15,R15           GOOD RETURN CODE ?
      BZ      S32MODE          YES, GO LOCATE TERMMODE OPTION
S32PATH1 PATH  X'01',PATHSW    SET OPTION NOT FOUND PATHSW
      B       S32FMSG
S32MODE  LOCOPT  TERMMODE,(5)   REG 5 IS ADDR OF TERMMODE OPTION
      LTR     R15,R15           GOOD RETURN CODE ?
      BZ      S32TYPE          GO CHECK TERMTYPE
      PATH    X'01',PATHSW    SET OPTION NOT FOUND PATHSW
      B       S32FMSG
S32TYPE  SETSCAN 0             SET SCAN POINTER
      LTR     R15,R15           TEST RC FOR -4 (ZERO LENGTH BUFFER)
      BM      S32FMSG          DO NOT PROCESS ZERO LENGTH BUFFERS
      LR      R3,R15           SAVE ADDR OF DATA-1 FROM SETSCAN
      CLC     1(3,R3),STATUS   IS IT STATUS MSG
      BE      S32STAT          YES
      TM      0(R4),X'81'      3270 SDLC
      BO      S32RH            YES
      TM      0(R4),X'82'      3270 LOCAL
      BO      S32CLR            YES
      MSGEDIT ((R,,(2))),BLANK=NO
      TM      0(R4),X'84'      3270 BSC
      BO      S32CLR            YES
      PATH    X'04',PATHSW    TERMTYPE ERROR
      B       S32FMSG
S32RH    IEDRH  RHIND=(+EXR)    TEST FOR SENSE INCLUDED MSG
      CLM     R15,1,=X'08'    TEST RETURN CODE
      BNE     S32SENSE        YES EXR, BRANCH
S32CLR   CLI     1(R3),X'6D'    CLEAR KEY ?
      BNE     S32RPA1          NO, GO TEST FOR PA1
      TERRSET                                FOR CLEAR MSGGEN - DO NOT FORWARD
      B       S32IMG10
S32RPA1  CLI     1(R3),X'6C'    PA1 KEY ?
      BE      S32PRINT          YES, GO TO PRINT ROUTINE
      CLI     1(R3),X'7D'      ENTER KEY ?
      BNE     S32UKWN          NO, GO TO UNKNOWN INPUT
      CLI     4(R3),X'11'      IS 4TH BYTE AN SBA (FORMATTED)
      BNE     S32DEL3          NO, UNFORMATTED BRANCH
      MSGEDIT ((R,,(6))),BLANK=NO  DEL AID 2(CUR) SBA 2(BUF)
      B       S32CODE          ONLY DATA LEFT, GO PROCESS

```

ACF/TCAM SAMPLE

```

S32DEL3 MSGEDIT ((R,,(3))),BLANK=NO DELETE AID 2(CUR)
*****
* DATA STREAM IS NOW USER DATA ONLY. *
*****
S32CODE CODE
LOGON
*****
* PROCESS EXTENDED OPERATOR CONTROL COMMANDS *
*****
CLI 1(3),C'/'
BNE S32MTYP
TERRSET
B S32MFWD
S32MTYP MSGTYPE X
S32MFWD FORWARD DEST=C'AOPCTLI'
B S32IMG10
*****
* PROCESS MESSAGE SWITCH M DEST / USER MESSAGE *
*****
MSGTYPE M
FORWARD DEST=**,EOA=/
TERRSET
B S32IMG10
*****
* PROCESS INQUIRY MESSAGE I 999999 *
*****
MSGTYPE I
B S32FWD
*****
* PROCESS CLOSE MSG TO CLOSE APPLICATIONS *
*****
MSGTYPE CLOSE
TERRSET
FORWARD DEST=C'APPLS'
B S32IMG10
*****
* PROCESS OTHER MESSAGES *
*****
MSGTYPE , UNIDENTIFIED MESSAGE
S32UKWN PATH X'10',PATHSW SET UNKNOWN INPUT PATHSW
B S32FMSG
*****
* THIS ROUTINE WILL PROCESS PA1 REQUEST TO PRINT THE LAST *
* MESSAGE SENT TO A DISPLAY. TO ALLOW THIS FUNCTION, THE *
* PRNT3270 OPTION FIELD MUST BE DEFINED FOR THE 3277 GIVING *
* THE NAME OF THE 328X PRINTER TO RECEIVE THE MESSAGE. *
* A SPECIAL PRINT REQUEST MESSAGE WILL BE BUILT AND SENT TO *
* THE 3270 APPLICATION. THE MESSAGE WILL CONTAIN THE NAME OF *

```



```

*      THE PRINTER AND THE SEQUENCE NUMBER OF THE LAST OUTPUT      *
*      MESSAGE SENT TO THE DISPLAY. THE APPLICATION WILL RETRIEVE   *
*      THAT MESSAGE USING POINT AND GET MACROS AND BUILD A PRINT    *
*      MESSAGE.                                                       *
*****
S32PRINT LOCOPT PRNT3270,(6)      REG 6 ADDR OF PRINTER NAME OPTION
          LTR    R15,R15          GOOD RETURN CODE ?
          BZ     S32PR01         YES, GO TO BUILD PRINT MESSAGE
          PATH   X'20',PATHSW    SET PRINTER OPTION NOT FOUND PATHSW
          B      S32FMSG
S32PR01  MVC    S32MHPRT,0(R6)    MOVE PRINTER NAME TO MHPUT AREA
          L      R6,IEDADBUF      REG 6 IS ADDRESS OF CURRENT BUFFER
          LH     R1,16(0,R6)      LOAD TNT OFFSET INTO REG 1
*      IEDRNMP1 IS AVT FIELD CONTAINING ADDRESS FOR ROUTINE IN
*      TERMINAL TABLE THAT CONVERTS TNT OFFSET TO TTE ADDRESS.
*      THIS ROUTINE EXPECTS TNT OFFSET IN LOWER TWO BYTES OF REG 1
          L      R15,IEDRNMP1     REG 15 IS ADDR OF TNT CONV ROUTINE
          BALR   R14,R15          CONVERT TNT OFFSET TO TTE ADDRESS
          LH     R6,6(0,R1)       REG 1 PLUS 6 IS OUTPUT SEQ NUM
          SH     R6,=H'1'         SEQ NUM ALWAYS NEXT NUM TO BE USED
          STH    R6,S32SEQWK      STORE SEQ NUM
          MVC    S32MHSEQ,S32SEQWK PUT SEQ NUM IN MESSAGE
          MHPUT  WORK=S32MHWRK    PUT NEW PRINT REQUEST MSG IN BUFFER
          LTR    R15,R15          GOOD RETURN CODE ?
          BZ     S32SETER         YES, GO TO FORWARD MESSAGE
          PATH   X'80',PATHSW    SET BAD MHPUT PATHSW
          B      S32FMSG
*****
*      SENSE INCLUDED MESSAGES FOR 3270S CONTAIN 4 SENSE BYTES      *
*      PRECEDING THE USER DATA. THE FIRST 2 BYTES ARE SNA SENSE   *
*      INFORMATION THAT IS MAPPED INTO THE MER BITS. THE 3RD AND    *
*      4TH BYTES ARE 'USER BYTES' AND FOR SDLC 3270S CONTAIN       *
*      INFORMATION SIMILAR TO THE BSC 3270 SOH % R STATUS          *
*      MESSAGES. WHEN BYTES 3 AND 4 ARE NONZERO THE UNDEFINED ERROR *
*      BIT 31 IS SET IN THE MER. THIS IS EQUIVALENT TO BIT 15 THE  *
*      STATUS MESSAGE BIT FOR BSC DEVICES. THIS MH WILL CANCEL A   *
*      MESSAGE IF ANY SNA BITS ARE PRESENT, BUT IF ONLY 3270 SENSE *
*      INFORMATION IS PRESENT, IT WILL NOT BE ANALYZED OR CANCELED. *
*****
S32SETER TERRSET                SET USER BIT FOR CLEAR MSGGEN
S32FWD  FORWARD DEST=C'A3270I'
          B      S32IMG10
S32STAT CLC    6(2,R3),DVCAVAIL  IS USER SENSE DEVICE AVAILABLE ?
          BNE    S32FMSG          NO, BRANCH
          B      S32RLS
S32SENSE CLC   3(2,R3),SDVCAVL  IS USER SENSE DEVICE AVAILABLE ?
          BNE    S32FMSG          NO, BRANCH
S32RLS  IEDRELS                RELEASE QUEUE, DEVICE IS AVAIL

```

```

*           IT IS POSSIBLE TO HAVE SNA SENSE BYTES WITH A ZERO LENGTH
*           BUFFER. SINCE IT WILL BE AN ERROR AND WILL BE IN THE MER
*           BITS, NO EXAMINATION WILL BE DONE HERE.
S32FMSG FORWARD DEST=C'DLQ'           THIS MESSAGE IS TO BE CANCELED
*                                           A FORWARD IS REQ'D IF ERRORMSG USED
*****
*           INMESSAGE SUBGROUPS ARE EXECUTED AFTER THE ENTIRE           *
*           MESSAGE HAS BEEN RECEIVED AND THE MESSAGE ERROR           *
*           BITS ARE SET. ONLY ONE SUBGROUP WILL EXECUTE AND           *
*           IT WILL BE THE FIRST ONE WHOSE PATH IS SATISFIED.           *
*****
S32IMG10 INMSG  PATH=(PATHSW,X'01')   OPTION FIELD NOT DEFINED
        CANCELMSG ,                   CANCEL THE MSG
        ERRORMSG ,DATA=S32MSG04,HEADER=NO
        IEDHALT ,                     BREAK SESSION
        INMSG  PATH=(PATHSW,X'04')   TERMTYPE NOT 3270 SDLC
        CANCELMSG ,                   CANCEL THE MSG
        ERRORMSG ,DATA=S32MSG05,HEADER=NO
        IEDHALT ,                     BREAK SESSION
        INMSG  PATH=(PATHSW,X'10')   UNKNOWN INPUT AID OR MSG TYPE
        CANCELMSG ,                   CANCEL THE MSG
        ERRORMSG ,DATA=S32MSG06,HEADER=NO
        INMSG  PATH=(PATHSW,X'20')   PRNT3270 NOT DEFINED NO PRINT
        CANCELMSG ,                   CANCEL THE MSG
        ERRORMSG ,DATA=S32MSG07,HEADER=NO
        INMSG  PATH=(PATHSW,X'80')   MHPUT FAILED
        CANCELMSG ,                   CANCEL THE MSG
        ERRORMSG ,DATA=S32MSG08,HEADER=NO
        INMSG  PATH=(TERMTYPE,X'02') 3270 LOCAL
        CANCELMSG X'430EC7F7FF'
        MSGGEN X'0000080000',S32RSETL
        INMSG ,                       WHATS LEFT SHOULD BE 3270 SDLC
        CANCELMSG X'430EC6F7FF' NOTE: BIT 31 UNDEF ERR NOT CANCELED
        MSGGEN X'0000080000',S32RSETN RESET 3277 NCP IF USER BIT
*           THE NEXT THREE IEDVOFF MACROS ARE TO COUNT TRANS ERRORS AND
*           IF 10 ERRORS ARE FOUND BEFORE GOOD TRANS RESET THE COUNTER TO
*           ZERO, THEN POLLING WILL BE STOPPED FOR THAT TERMINAL FOR ONE
*           MINUTE. THE SYSTEM CONSOLE WILL RECEIVE A TERMINAL STOPPED
*           MESSAGE.
*           TO PREVENT ERRCT FROM GOING NEGATIVE BECAUSE OF SUBTRACTING
*           ON GOOD MESSAGES, CODE IN INHDR AND OUTHDR RESETS ERRCT TO
*           ONE WHEN IT REACHES ZERO.
        IEDVOFF X'010445F7FF',COUNT=(ERRCT,GT,9),INTVL=60
*                                           ADD TO COUNTER IF ERROR. IF COUNTER EQUAL OR
*                                           GREATER 8, STOP POLLING FOR 1 MINUTE, CLEAR
*                                           COUNTER, NOTIFY SYSTEM CONSOLE.
        IEDVOFF ,COUNT=(ERRCT,EQ,250),UPDATE=SUB EVERY MESSAGE
        IEDVOFF X'010445F7FF',COUNT=(ERRCT,EQ,250) BAD MSG ONLY

```

```

ERRORMSG X'010405F7FF',DATA=S32MSG01,HEADER=NO
ERRORMSG X'0200820000',DATA=S32MSG02,HEADER=NO
ERRORMSG X'4002400000',DATA=S32MSG03,HEADER=NO
ERRORMSG X'FF7FF7FF00',DATA=S32XX,DEST=C'ERRQ',EXIT=ERMSGXIT
INEND
OUTHDR
PATH X'00',PATHSW RESET PATHSW TO IDENTIFY ERRORS
* LOCATE THE ERRCT OPTION FIELD. IF IT IS EQUAL TO ZERO, THEN
* RESET TO ONE TO PREVENT IEDVOFF FROM SUBTRACTING TO MINUS
* FOR GOOD TRANS. SEE INMSG AND OUTMSG.
LOCOPT ERRCT,(7) REG 7 IS ADDR OF ERRCT OP
LTR R15,R15 GOOD RETURN CODE ?
BNZ S32SCANA NO, IGNORE IT, BRANCH
CLI 0(R7),X'00' TEST ERRCT EQUAL ZERO
BNE S32SCANA BRANCH NOT EQUAL TO ONE
MVI 0(R7),X'01' SET TO ONE TO PREVENT MINUS ON VOFF
S32SCANA SETSCAN 0 SET SCAN POINTER
LTR R15,R15 TEST FOR ZERO LENGTH BUFFER
BM S320MG10 RC -4 IS ZERO BUFFER DO NOT PROCESS
LR R3,R15 SAVE ADDR OF DATA-1 FROM SETSCAN
LOCOPT TERMTYPE,(4) REG 4 IS ADDR OF TERMTYPE OPTION
LTR R15,R15 GOOD RETURN CODE ?
BZ S320MODE YES, GO LOCATE TERMMODE OPTION
PATH X'01',PATHSW SET OPTION NOT FOUND PATHSW
B S320MG10 OUTHDR COMPLETE, GO CHECK MER BITS
S320MODE LOCOPT TERMMODE,(5) REG 5 IS ADDR OF TERMMODE OPTION
LTR R15,R15 GOOD RETURN CODE ?
BZ S32ESC YES
PATH X'01',PATHSW SET OPTION NOT FOUND PATHSW
B S320MG10 OUTHDR COMPLETE, GO CHECK MER BITS
S32ESC CLI 1(R3),X'27' IS IT FORMATTED?
BE S32RESC YES - DO NOT FORMAT
MSGEDIT ((I,X'27',SCAN))
MSGEDIT ((I,X'F17B1140401D4013',SCAN))
S32RESC TM 0(R4),X'82' IS IT LOCAL?
BNE S32DESC NO
SCREEN WEA,RETRV=YES SCREEN REQD FOR LOCALS
MSGEDIT ((R,,(2))) REMOVE ESC AND CMD
B S32DEOT
S32DESC TM 0(R4),X'84' IS IT BSC?
BO S32DEOT YES
MSGEDIT ((RA,,XL1'27')) REMOVE ESC FOR DATA STREAM
S32DEOT MSGEDIT ((RA,,XL1'37')) REMOVE ANY EOTS (IED MSGS USUALLY)
* IF THE USER WANTS TO EXAMINE THE SNA SENSE BYTES PRIOR TO
* OUTMSG, THE CODE SHOULD BE INSERTED HERE.
*****
* OUTMESSAGE SUBGROUPS ARE EXECUTED AFTER THE COMPLETE *
* MESSAGE HAS BEEN SENT. ONLY ONE SUBGROUP WILL EXECUTE *

```

```

*          AND IT WILL BE THE FIRST ONE WHOSE PATH IS SATISFIED.          *
*****
S320MG10 OUTMSG  PATH=(PATHSW,X'01')  OPTION FIELD NOT DEFINED
        HOLD      ,                    HOLD AND NOTIFY TCAM PRINTER
        ERRORMSG ,DATA=S32MSG04,DEST=C'LU3270V1',HEADER=NO
        OUTMSG    PATH=(ERRCT,X'F8')  ERRCT 8 OR MORE
        HOLD      ,                    HOLD FOR UNRECOVERABLE ERROR
        IEDVOFF   ,COUNT=(ERRCT,GE,0) CLEAR ERRCT
        OUTMSG
        HOLD      X'000003F7FF',INTVL=15      RESEND AFTER 15 SEC
*          THE NEXT THREE IEDVOFF MACROS ARE TO COUNT TRANS ERRORS AND
*          THE NUMBER OF TEMPORARY HOLDS (HOLD WITH INTERVAL).
*          WHEN THE ERRCT IS 8, THEN A DIFFERENT OUTMSG WILL EXECUTE
*          WHICH WILL ISSUE A PERMANENT HOLD. IEDVOFF IS ONLY BEING
*          USED FOR ITS COUNTER CAPABILITY.
*          TO PREVENT ERRCT FROM GOING NEGATIVE BECAUSE OF SUBTRACTING
*          ON GOOD MESSAGES, CODE IN INHDR AND OUTHDR RESETS ERRCT TO
*          ONE WHEN IT REACHES ZERO.
        IEDVOFF  X'000003F7FF',COUNT=(ERRCT,EQ,250)  ADD IF ERROR
        IEDVOFF  ,COUNT=(ERRCT,EQ,250),UPDATE=SUB    EVERY MSG
        IEDVOFF  X'000003F7FF',COUNT=(ERRCT,EQ,250)  BAD MSGS ONLY
        ERRORMSG X'FF7FF7FF00',DATA=S32XX,DEST=C'ERRQ',EXIT=ERMSGXIT
        OUTEND

```

```

*****
*          ERROR MESSAGES USED BY ERRORMSG MACRO AND WORK AREAS          *
*****

```

```

S32XX   DC      AL1(25)
        DC      C'ERROR= XXXXXXXX
S32MSG01 DC     AL1(35)          MESSAGE LENGTH
        DC     C'S32-01 TRANSMISSION ERROR, RE-ENTER'
S32MSG02 DC     AL1(42)          MESSAGE LENGTH
        DC     C'S32-02 SYSTEM UNDER STRESS, RE-ENTER LATER'
S32MSG03 DC     AL1(34)          MESSAGE LENGTH
        DC     C'S32-03 DESTINATION ERROR, RE-ENTER'
S32MSG04 DC     AL1(25)          MESSAGE LENGTH
        DC     C'S32-04 OPTION FIELD ERROR'
S32MSG05 DC     AL1(38)          MESSAGE LENGTH
        DC     C'S32-05 TERMTYPE NOT 3270 SDLC OR LOCAL'
S32MSG06 DC     AL1(30)          MESSAGE LENGTH
        DC     C'S32-06 UNKNOWN INPUT, RE-ENTER'
S32MSG07 DC     AL1(42)          MESSAGE LENGTH
        DC     C'S32-07 PRINT NOT DEFINED FOR THIS TERMINAL'
S32MSG08 DC     AL1(31)          MESSAGE LENGTH
        DC     C'S32-08 MHPUT FAILED, CANT PRINT'
S32RSETN DC     AL1(08)          SDLC 3277 CLEAR SCREEN
        DC     X'F5C31140401D4013'
S32RSETL DC     AL1(10)          LOCAL 3277 CLEAR SCREEN
        DC     X'C31140401D4013124040'

```

```

*****
*          WORK AREA TO BUILD PRINT REQUEST MESSAGE WHEN PA1 RECEIVED *
*****
S32MHWRK DS      0CL21          MHPUT WORKAREA
              DC      X'0000'    RESERVED
              DC      X'000F'    USER DATA LENGTHOF 15
              DC      X'0000'    RESERVED
              DC      C'PRINT'   MESSAGE TYPE FOR APP
S32MHPRT DC      CL8' '        PRINTER NAME
S32MHSEQ DC      CL2' '        SEQ NUMBER OF MSG TO BE PRINTED
*****
*          OTHER CONSTANTS AND WORKAREAS *
*****
STATUS  DC      X'6CD902'      STATUS MESSAGE % R STX
DVCAVAIL DC     X'C240'        BSC SENSE FOR DEVICE AVAILABLE
SDVCAVL DC     X'0200'        SDLC SENSE FOR DEVICE AVAILABLE
S32SEQWK DC     H'0'          SEQ NUMBER WORK AREA
      LTORG
      TITLE '          NDS MESSAGE HANDLER'
*****
*          NDS MESSAGE HANDLER *
*
*          WILL HANDLE BRACKETS AND CHANGE OF DIRECTION *
*          USING HALF DUPLEX FLIP-FLOP PROTOCOL *
*
*          INPUT DATA WILL APPEAR AS FOLLOWS: *
*          A.  A C C S B B *
*              I U B U U (USER TEXT) *
*              D R R A F F *
*
*          B. (4 BYTES SNA SENSE)(DATA OR DFC COMMAND) *
*
*          SBA, BUF AND BUF ARE PRESENT WITH FORMATTED SCREENS ONLY. *
*****
NDSMH  STARTMH DFC=FULL,LU=YES,BEXIT=NDSBXIT
      INHDR
      PATH  X'00',PATHSW      RESET PATHSW
      SETSCAN 0          TEST FOR ZERO LENGTH BUFFER
      LTR   R15,R15        TEST RC FOR -4 (ZERO LENGTH BUFFER)
      BM    NDSZERO        DO NOT PROCESS ZERO LENGTH BUFFERS
      LR    R3,R15        SAVE ADDR OF DATA-1 FROM SETSCAN
      IEDRH RHIND=(+DFC)   GET RH
      CLM   R15,1,=X'08'   DFC COMMAND
      BE    NDNOTDFC       BRANCH IF NO
      IEDRH RHIND=(+EXR)   GET RH
      CLM   R15,1,=X'08'   EXCEPTION REQUEST
      BE    NDNOEXR1       BRANCH IF NO
*          ADD SENSE ERROR TEST IF REQUIRED

```

ACF/TCAM SAMPLE

```

NDNOEXRI  SETSCAN 4                SKIP 4 SENSE BYTES TO COMMAND
MSGTYPE X'83'                CANCEL COMMAND?
PATH X'01',PATHSW           SET PATH FOR CANCEL
B NDSIBF10
MSGTYPE X'04'                LUSTAT COMMAND
IEDRELS                      START OUTPUT
B NDSIBF10
MSGTYPE X'C1'                SHUTDOWN COMPLETE COMMAND
HOLD                          STOP OUTPUT
B NDSIBF10
MSGTYPE ,                    ALL OTHER DFC
B NDSIBF10                    NO PROCESSING TO DO
NDNOTDFC CLI 1(R3),X'6D'     CLEAR KEY ?
BNE NDSENTR                  NO, GO TEST FOR ENTER
TERRSET                      FOR CLEAR MSGGEN - DO NOT FORWARD
B NDSIBF10
NDSENTR  CLI 1(R3),X'7D'     ENTER KEY ?
BNE NDSUKWN                  NO, GO TO UNKNOWN INPUT
CLI 4(R3),X'11'             IS 4TH BYTE AN SBA (FORMATTED)
BNE NDSDEL3                  NO, UNFORMATTED BRANCH
MSGEDIT ((R,,(6))),BLANK=NO DEL AID 2(CUR) SBA 2(BUF)
B NDSCODE                    ONLY DATA LEFT, GO PROCESS
NDSDEL3  MSGEDIT ((R,,(3))),BLANK=NO DELETE AID 2(CUR)
*****
* DATA STREAM IS NOW USER DATA ONLY. *
*****
NDSCODE  INHDR                THIS INHDR RESETS MSGTYPE
CODE
*****
* PROCESS EXTENDED OPERATOR CONTROL COMMANDS *
*****
CLI 1(3),C'/'
BNE NDSMTYP
TERRSET
B NDSMFWD
NDSMTYP  MSGTYPE X
NDSMFWD  FORWARD DEST=C'AOPCTLI'
B NDSIMG10
*****
* PROCESS MESSAGE SWITCH M DEST / USER MESSAGE *
*****
MSGTYPE M
FORWARD DEST=**,EOA=/
TERRSET
B NDSIBF10
*****
* PROCESS INQUIRY MESSAGE I 99999 *
*****

```

```

MSGTYPE I
FORWARD DEST=C'A3270I'
B      NDSIBF10
*****
*      PROCESS NDS MESSAGE      *
*****
MSGTYPE NDS
FORWARD DEST=C'A3270I'
B      NDSIBF10
*****
*      PROCESS CLOSE MSG TO CLOSE APPLICATIONS      *
*****
MSGTYPE CLOSE
TERRSET
FORWARD DEST=C'APPLS'
B      NDSIBF10
*****
*      PROCESS OTHER MSGS      *
*****
MSGTYPE , UNIDENTIFIED MESSAGE
NDSUKWN PATH X'10',PATHSW SET UNKNOWN INPUT PATHSW
B      NDSFMSG
NDSZERO IEDRELS RELEASE QUEUE ON ERROR TO AVOID
*      MULTIPLE TIME DELAY ELEMENTS FOR
*      THIS QUEUE.
NDSFMSG FORWARD DEST=C'DLQ' THIS MESSAGE IS TO BE CANCELED
*      A FORWARD IS REQ'D IF ERRORMSG USED
NDSIBF10 INBUF
IEDRH RHIND=(+CHNGDIR) CK FOR CHG DIR
CLM R15,1,=X'08'
BE NDSIMG10 NO
IEDRELS RELEASE QUEUE
NDSIMG10 INMSG PATH=(PATHSW,X'01') CANCEL RECEIVED
CANCELMSG , CANCEL THE MSG
INMSG PATH=(PATHSW,X'10') UNKNOWN INPUT AID OR MSG TYPE
CANCELMSG , CANCEL THE MSG
ERRORMSG ,DATA=NDSMSG04,HEADER=NO
INMSG , WHATS LEFT SHOULD BE 3270 SDLC
CANCELMSG X'430EC6F7FF' NOTE: BIT 31 UNDEF ERR NOT CANCELED
MSGGEN X'0000080000',NDSRSETN,RH=X'0380E0'
ERRORMSG X'010405F7FF',DATA=NDSMSG01,HEADER=NO
ERRORMSG X'0200820000',DATA=NDSMSG02,HEADER=NO
ERRORMSG X'4002400000',DATA=NDSMSG03,HEADER=NO
ERRORMSG X'FF7FF7FF00',DATA=NDXX,DEST=C'ERRQ',EXIT=ERMSGXIT
INEND
OUTHDR BEGIN OUT HEADER PROCESSING
PATH X'00',PATHSW RESET PATHSW TO IDENTIFY ERRORS
SETSCAN 0 TEST FOR DATA IN BUFFER

```

ACF/TCAM SAMPLE

```

LTR      R15,R15          ZERO LENGTH BUFFER
BP       NDNOZERO        BRANCH IF NO
IEDSENSE AREA=NDSENSE   GET THE SNA SENSE
LTR      R15,R15        TEST RETURN CODE
BNZ      NDSOMG10       NO SENSE AVAILABLE
*        ADD SNA SENSE ERROR TEST IF REQUIRED
B        NDSOMG10       BRANCH
NDNOZERO LR      R3,R15  SAVE ADDR OF DATA-1 FROM SETSCAN
IEDRH RHIND=(*BB,*EB)  TCAM CONTROLS BRACKETS
LOCOPT  TERMMODE,(5)   REG 5 IS ADDR OF TERMMODE OPTION
TM      0(5),X'01'    PRINTER ?
BO      NDSPRTR        YES
MSGEDIT ((I,X'F1F31140401D4013',SCAN))
NDSDESC MSGEDIT ((RA,,XL1'27'))  REMOVE ESC
MSGEDIT ((RA,,XL1'37'))  REMOVE ANY EOTS (IED MSGS USUALLY)
MSGEDIT ((RA,X'15',X'35',1))
B        NDSOMG10
NDSPRTR MSGEDIT ((I,X'15',,,))  INSERT NL AT START OF PRINTER MSGS
B        NDSDESC
NDSOMG10 OUTMSG
HOLD    X'0004000013',RELEASE
HOLD    X'0000006000',INTVL=10 RETRY AFTER WAIT
HOLD    X'0000010600',INTVL=03 HOLD ON NON RECOV ERRORS
ERRORMSG X'FF7FF7FF00',DATA=NDXX,DEST=C'ERRQ',EXIT=ERMSGXIT
OUTEND
NDXX    DC      AL1(25)
DC      C'ERROR= XXXXXXXX
NDSMSG01 DC     AL1(42)          MESSAGE LENGTH
DC      C'N32-01 TRANSMISSION ERROR, PLEASE RE-ENTER'
NDSMSG02 DC     AL1(49)          MESSAGE LENGTH
DC      C'N32-02 SYSTEM UNDER STRESS, PLEASE RE-ENTER LATER'
NDSMSG03 DC     AL1(34)          MESSAGE LENGTH
DC      C'N32-03 DESTINATION ERROR, RE-ENTER'
NDSMSG04 DC     AL1(30)          MESSAGE LENGTH
DC      C'N32-04 UNKNOWN INPUT, RE-ENTER'
NDSRSETN DC     AL1(08)          SDLC 3277 CLEAR SCREEN
DC      X'F5C31140401D4013'
NDSSENSE DC     XL4'00000000'    SNA SENSE
LTORG
TITLE  '                      TSO MESSAGE HANDLER'
TSOMH  STARTMH TSOMH=YES,STOP=YES,CONV=YES,LC=IN,DFC=FULL,LU=YES,  X
        ALTMH=MHS3270,BEXIT=NDSBXIT
INHDR
CODE
LOGON
IEDHALT CHARS=C'LOGOFF',FLUSH=YES
IEDHALT CHARS=X'939687968686',FLUSH=YES
INBUF

```



```

CUTOFF 3800
CARRIAGE
SPFSCRN
SIMATTN
INMSG
ATTEN
HANGUP
MSGGEN X'1000000000',C'IKJ54011I TSO IS NOT ACTIVE'
MSGGEN X'8000000000',C'IKJ54012A ENTER LOGON -'
MSGGEN X'4000000000',C'IKJ54013I LOGON FAILED, INVALID COMMAND'
MSGGEN X'2000000000',C'IKJ54014I TERMINAL IS NOT USABLE WITH TSO'
MSGGEN X'0000200000',C'IKJ54015I TSO MSGS CANNOT REACH THIS TERMINAL'
MSGGEN X'0800000000',C'IKJ54016I MAXIMUM USERS LOGGED ON, TRY LATER'
MSGGEN X'0000004000',C'IKJ54017A TERMINAL ERROR, REENTER INPUT'
MSGGEN X'0100000000',C'IKJ54018A MESSAGE TOO LONG, REENTER INPUT'
MSGGEN X'0200000000',C'IKJ54020A MESSAGE LOST, REENTER INPUT'
MSGGEN X'0000800000',X'06145AC915'
MSGGEN X'0000400000',X'06145AC415'
MSGGEN X'0000120000',X'06145A15'
MSGGEN 0,X'FF'
INEND
OUTHDR
IEDRH RHIND=(*BB)
OUTBUF
SPFMCHK
CODE
OUTMSG
ATTEN
HANGUP
MSGGEN X'0000800000',X'06145AC915'
MSGGEN X'0000120000',X'06145A15'
MSGGEN X'0000200000',C'IKJ54015I TSO MSGS CANNOT REACH THIS TERMINAL'
MSGGEN 0,X'FF'
OUTEND
LTORG

TITLE '                                ERRORMSG EXIT ROUTINE'
* R1 HAS ADDR OF HEADER BUFFER
* R5 HAS ADDR OF ERRORMSG TEXT
*
* THIS ROUTINE WILL SEND A MESSAGE TO THE ERRQ THAT CONTAINS
* THE CONTENTS OF THE MER IN TRANSLATED FORMAT
USING *,15
ERMSGXIT LR    4,1                PUT ADDR OF BUFFER IN 4
L          4,12(4)              GET PLCB ADDR
L          4,92(4)              GET SCB ADDR
LA         4,16(4)              LOAD ADDR OF MER
LA         5,7(5)               POINT TO 1ST POS TO PUT MER
BAL        6,CNVT              CONVERT BYTE 1

```

ACF/TCAM SAMPLE

	BAL	6,CNVT	CONVERT BYTE 2
	BAL	6,CNVT	CONVERT BYTE 3
	BAL	6,CNVT	CONVERT BYTE 4
	BR	14	RETURN
CNVT	SR	7,7	CLEAR R1
	IC	7,0(4)	INSERT CHAR TO TRANSLATE
	LA	2,15	INSERT X'0F'
	NR	2,7	PUT RIGHT 4 BITS IN REG 2
	SRL	7,4	SHIFT LEFT 4 BITS TO LOW ORDER
	STC	7,0(5)	STORE IN ERROR MSG
	STC	2,1(5)	STORE IN ERROR MSG
	TR	0(1,5),HEXTRAN	TRANSLATE HEX DIGIT
	TR	1(1,5),HEXTRAN	TRANSLATE HEX DIGIT
	LA	4,1(4)	BUMP POINTER BY 1
	LA	5,2(5)	BUMP POINTER BY 2
	BR	6	RETURN
HEXTRAN	DC	C'0123456789ABCDEF'	HEX TRANSLATE TABLE
	LTORG		
TITLE	'		BIND EXITS'
BINDXHH	CSECT		
	USING	*,15	
	NI	5(4),256-X'20'	NO BRACKETS
	NI	6(4),256-X'C0'	SET FDX
	LA	15,2	RESOLVE CONTENTION
	BR	14	RETURN
	DROP	15	
NDSBXIT	CSECT		
	USING	*,15	
	STM	0,15,SVE	
	LR	12,15	
	USING	NDSBXIT,12	
	DROP	15	
	IEDLSCR		MOVE TTE SCREEN SIZE TO BIND
	LM	0,14,SVE	
	BR	14	
SVE	DS	16F	
	LTORG		

ACF/TCAM BIND PARAMETERS

TITLE	'	BIND IMAGE TABLES'
NDS3278	IEDBTAB	CBI=(BI3767,EMU3790,BTCH3790,BI3770A,BI3270NB)
	IEDBENT	COMPROT=XL2'3080',PRIPROT=X'B1',SECROT=X'90',
		TSPROF=X'03',FMPROF=X'03',TSUSAGE=XL6'000087F80000',
		FMTYPE=X'01',
		X
		X
		X

```

      LUPROF=X'02',PRESERC=XL11'0000000000185018507F00'
NDS8789 IEDBENT COMPROT=XL2'3080',PRIIPROT=X'B1',SECIPROT=X'90',      X
      TSPROF=X'03',FMIPROF=X'03',TSUSAGE=XL6'000087C60000',      X
      FMITYPE=X'01',      X
      LUPROF=X'01',PRESERC=XL11'000000E10000000000000000'
      ENTRY IEDTSOB0
IEDTSOB0 IEDBENT COMPROT=XL2'2000',PRIIPROT=X'21',SECIPROT=X'40',      X
      TSPROF=X'02',FMIPROF=X'02',TSUSAGE=XL6'0100000000100',      X
      LUPROF=X'00',PRESERC=XL11'00',FMITYPE=X'01',      X
      LOGON=C' LOGON ',USRDATA=C'
      ENTRY IEDTSOB1
IEDTSOB1 IEDBENT COMPROT=XL2'3040',PRIIPROT=X'A1',SECIPROT=X'90',      X
      TSPROF=X'03',FMIPROF=X'03',TSUSAGE=XL6'010085850100',      X
      LUPROF=X'01',PRESERC=XL11'00',FMITYPE=X'01',      X
      LOGON=C' LOGON ',USRDATA=C'
      ENTRY IEDTSOB2
IEDTSOB2 IEDBENT COMPROT=XL2'3080',PRIIPROT=X'B1',SECIPROT=X'B0',      X
      TSPROF=X'03',FMIPROF=X'03',TSUSAGE=XL6'000085850000',      X
      LUPROF=X'02',FMITYPE=X'01',      X
      PRESERC=XL11'0000000000185018507E00',      X
      LOGON=C' LOGON ',USRDATA=C'
      ENTRY IEDTSOB8
IEDTSOB8 IEDBENT COMPROT=XL2'3080',PRIIPROT=X'B1',SECIPROT=X'90',      X
      TSPROF=X'03',FMIPROF=X'03',TSUSAGE=XL6'000087F80000',      X
      LUPROF=X'02',PRESERC=XL11'0000000000185018507F00',      X
      FMITYPE=X'01',      X
      LOGON=C' LOGON ',USRDATA=C'
IEDTBEND TSO=NO,TOTE=NO

```

ACF/TCAM SAMPLE

ACF/TCAM USS TABLES

```
PRINT NOGEN
USS3270 IEDUTAB GEN=NO
        IEDUVERB INITS,CMD=INITS
        IEDUPARM INLU
        IEDUVAL
        IEDUVAL ,C'MHS3270'
        IEDUPARM INMODE
        IEDUVAL
        IEDUVAL ,C'BI3270NB'
        IEDUVERB TCAM,CMD=INITS
        IEDUPARM INLU
        IEDUVAL
        IEDUVAL ,C'MHS3270'
        IEDUPARM INMODE
        IEDUVAL
        IEDUVAL ,C'BI3270NB'
        IEDUVERB LOGON,CMD=INITS,UDATLEN=14
        IEDUPARM INUDATA
        IEDUVAL
        IEDUPARM INLU
        IEDUVAL
        IEDUVAL ,C'TSOMH'
        IEDUPARM INMODE
        IEDUVAL
        IEDUVAL ,C'IEDTSOB0'
        IEDUVERB TSO,CMD=INITS,UDATLEN=14
        IEDUPARM INUDATA
        IEDUVAL
        IEDUPARM INLU
        IEDUVAL
        IEDUVAL ,C'TSOMH'
        IEDUPARM INMODE
        IEDUVAL
        IEDUVAL ,C'IEDTSOB0'
        IEDUVERB IMS,CMD=INITS
        IEDUPARM INLU
        IEDUVAL
        IEDUVAL ,C'IMS'
        IEDUPARM INMODE
        IEDUVAL
        IEDUVAL ,C'BI3270NB'
        IEDUVERB CICS,CMD=INITS
        IEDUPARM INLU
        IEDUVAL
        IEDUVAL ,C'CICS'
```

```

IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'BI3270NB'
IEDUVERB TERMS,CMD=TERMS
IEDUPARM TMLU
IEDUVAL
IEDUVAL ,C'MHS3270'
IEDUVERB LOGOFF,CMD=TERMS
IEDUPARM TMLU
IEDUVAL
IEDUVAL ,C'TSOMH'
IEDUVERB TERMI,CMD=TERMS
IEDUPARM TMLU
IEDUVAL
IEDUVAL ,C'IMS'
IEDUVERB TERMC,CMD=TERMS
IEDUPARM TMLU
IEDUVAL
IEDUVAL ,C'CICS'
IEDUEND
END

```

```

*
*
*

```

```

USSNDS PRINT NOGEN
IEDUTAB GEN=NO
IEDUVERB INITS,CMD=INITS
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'NDSMH'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'NDS3278'
IEDUVERB TCAM,CMD=INITS
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'NDSMH'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'NDS3278'
IEDUVERB LOGON,CMD=INITS,UDATLEN=14
IEDUPARM INUDATA
IEDUVAL
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'TSOMH'
IEDUPARM INMODE
IEDUVAL

```

ACF/TCAM SAMPLE

```
IEDUVAL ,C'IEDTSOB8'  
IEDUVERB TSO,CMD=INITS,UDATLEN=14  
IEDUPARM INUDATA  
IEDUVAL  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'TSOMH'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'IEDTSOB8'  
IEDUVERB IMS,CMD=INITS  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'IMS'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'NDS3278'  
IEDUVERB CICS,CMD=INITS  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'CICS'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'NDS3278'  
IEDUVERB TERMS,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'NDSMH'  
IEDUVERB LOGOFF,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'TSOMH'  
IEDUVERB TERMI,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'IMS'  
IEDUVERB TERMC,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'CICS'  
IEDUEND  
END
```

\*  
\*  
\*

```
PRINT NOGEN  
USS3767 IEDUTAB GEN=NO  
IEDUVERB INITS,CMD=INITS
```

```

IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'MH3767'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'BI3767'
IEDUVERB TCAM,CMD=INITS
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'MH3767'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'BI3767'
IEDUVERB LOGON,CMD=INITS,UDATLEN=14
IEDUPARM INUDATA
IEDUVAL
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'TSOMH'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'IEDTSOBI'
IEDUVERB TSO,CMD=INITS,UDATLEN=14
IEDUPARM INUDATA
IEDUVAL
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'TSOMH'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'IEDTSOBI'
IEDUVERB IMS,CMD=INITS
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'IMS'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'BI3767'
IEDUVERB CICS,CMD=INITS
IEDUPARM INLU
IEDUVAL
IEDUVAL ,C'CICS'
IEDUPARM INMODE
IEDUVAL
IEDUVAL ,C'BI3767'
IEDUVERB TERMS,CMD=TERMS
IEDUPARM TMLU
IEDUVAL

```

ACF/TCAM SAMPLE

```
IEDUVAL ,C'MH3767'  
IEDUVERB LOGOFF,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'TSOMH'  
IEDUVERB TERMI,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'IMS'  
IEDUVERB TERMC,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'CICS'  
IEDUEND  
END
```

\*  
\*  
\*

```
PRINT NOGEN  
USS3770 IEDUTAB GEN=NO  
IEDUVERB INITS,CMD=INITS  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'SNAMH'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'BI3770A'  
IEDUVERB TCAM,CMD=INITS  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'SNAMH'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'BI3770A'  
IEDUVERB LOGON,CMD=INITS,UDATLEN=14  
IEDUPARM INUDATA  
IEDUVAL  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'TSOMH'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'IEDTSOBI'  
IEDUVERB TSO,CMD=INITS,UDATLEN=14  
IEDUPARM INUDATA  
IEDUVAL  
IEDUPARM INLU  
IEDUVAL
```



```
IEDUVAL ,C'TSOMH'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'IEDTSOB1'  
IEDUVERB IMS,CMD=INITS  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'IMS'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'BI3770A'  
IEDUVERB CICS,CMD=INITS  
IEDUPARM INLU  
IEDUVAL  
IEDUVAL ,C'CICS'  
IEDUPARM INMODE  
IEDUVAL  
IEDUVAL ,C'BI3770A'  
IEDUVERB TERMS,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'SNAMH'  
IEDUVERB LOGOFF,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'TSOMH'  
IEDUVERB TERMI,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'IMS'  
IEDUVERB TERMC,CMD=TERMS  
IEDUPARM TMLU  
IEDUVAL  
IEDUVAL ,C'CICS'  
IEDUEND  
END
```



CHAPTER 7 : SAMPLE NCP SOURCE

Two NCP samples are included. The first NCP source is designed to operate on an IBM 3704. The larger NCP illustrates various mixes of device types. All supported line disciplines are illustrated and are based on actual experience and industry recommendations. The DOS/VS or the OS/VS JCL for the assembly of these NCP's are contained in the appropriate section of this guide.

REFERENCES

IBM 3704 And 3705 Communications Controllers Network Control Program/VS Generation And Utilities Guide And Reference Manual (for OS/VS And DOS/VS VTAM Users)	GC30-3008
Teleprocessing Preinstallation Guide For IBM 3704 And 3705 Communication Controllers	GC30-3020
IBM 3705 Advanced Communications Function for Network Control Program/VS Generation And Utilities Guide And Reference Manual	SC30-3116
DOS/VS VTAM System Programmers Guide	GC27-6957
ACF/VTAM System Programmers Guide (DOS)	SC38-0268
ACF/VTAM Installation Guide (DOS)	SC38-0270
ACF/VTAM Reference Summary (DOS)	SX27-3022
OS/VS1 VTAM System Programmer's Guide	GC27-6996
OS/VS VTAM Reference Summary	GX27-0034
OS/VS2 SVS VTAM System Programmer's Guide	GC27-0049
OS/VS2 VTAM System Programming Library:VTAM	GC28-0688
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269

SAMPLE NCP SOURCE

ACF/VTAM Reference Summary	SX27-3021
OS/VS TCAM Concepts and Applications	GC30-2049
OS/VS TCAM System Programmer's Guide	GC30-2051
OS/VS TCAM Macro Reference Guide	GC30-2052
OS/VS TCAM Application Programmer's Guide	GC30-3036
OS/VS TCAM Installation and Migration Guide	GC30-3039
OS/VS TCAM Program Reference Summary	GY30-1024
TCAM Migration To NCP and SNA Featuring IBM 3790	GG22-9100
ACF/TCAM General Information	GC30-2050
ACF/TCAM Concepts and Planning	GC30-3049
ACF/TCAM System Programmer's Guide	SC30-3117
ACF/TCAM Macro Reference Guide	SC30-3118
ACF/TCAM Application Programmer's Guide	SC30-3119
ACF/TCAM Installation and Migration Guide	SC30-3121
ACF/TCAM MSNF Program Reference Summary Supplement	LD21-0003
ACF/TCAM Program Reference Summary	LY30-3037

7.1 : SAMPLE NCP FOR 3704

```

*****
*           NCP 5 ONLY, NOT SUPPORTED BY ACF/NCP/V5           *
*           SOURCE FOR NCP GENERATION (ALL VTAM LEVELS AND TCAM 10) *
*           SUPPORTS BATCH AND INQUIRY FOR SDLC PHYSICAL UNITS   *
*           THIS GENERATION IS FOR IBM 3704                     *
*****

```

```

*****
*           PCCU SPECIFICATIONS - OS/VS   (VTAM ONLY)           *
*           *                                                   *
*****

```

```

NCPSTART PCCU  CUADDR=07F,           3704 CONTROL UNIT ADDRESS      X
                AUTODMP=NO,          PROMPT BEFORE DUMPING NCP      X
                AUTOIPL=YES,         AUTOIPL AND RESTART           X
                DUMPDS=NCPDUMP,      AUTODUMP REQUESTED           X
                INITEST=YES          NCP INITIALIZATION TEST

```

```

*****
*           PCCU SPECIFICATIONS FOR DOS/VS   (VTAM ONLY)       *
*           *                                                   *
*****

```

```

NCPSTART PCCU  CUADDR=07F,           3704 CONTROL UNIT ADDRESS      X
                AUTODMP=NO,          PROMPT WHEN NCP FAILS        X
                AUTOIPL=YES,         NO AUTOIPL AND RESTART       X
                DUMPDS=SYS007,       DS FOR DUMP OPTION          X
                INITEST=NO,          NO INITIAL TEST             X
                NCPLUB=SYS008        LOAD MODULE NAME

```

SAMPLE NCP FOR 3704

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          BUILD MACRO SPECIFICATIONS FOR OS
*
*
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  
```

```

NCPBUILD BUILD MAXSUBA=3,          MUST BE SAME AS IN VTAM STR DEF      X
      LOADLIB=NCPLOAD,            LIBRARY FOR NCP LOAD MODULE          X
      OBJLIB=NCPBAT,              LIBRARY FOR ASSEMBLER OUTPUTS       X
      LESIZE=320,                 REGION SIZE FOR LINK-EDIT           X
      TYP SYS=OS,                 OS USED FOR STAGE 2                 X
      QUALIFY=SYS1,              1ST LEVEL QUALIFIER                 X
      UNIT=SYSDA,                 DATA SET FOR ASSEMBLY              X
      MEMSIZE=64,                 3704 STORAGE SIZE IS 64K BYTES     X
      TYPGEN=NCP,                 NCP ONLY                             X
      ABEND=YES,                  ABEND FACILITY INCLUDED             X
      ANS=YES,                     AUTOMATIC NETWORK SHUTDOWN (DEFAULT)X
      ASMXREF=NO,                 NO ASSEMBLER CROSS-REFERENCE        X
      BFRS=64,                     NCP BUFFER SIZE                     X
      CHANTYP=TYPE1,              PRIMARY CHANNEL ADAPTER              X
      ERASE=NO,                    DO NOT ERASE BUFFERS (DEFAULT)      X
      ENABLTO=2.2,                 LEASED LINE ONLY (DEFAULT)          X
      JOBCARD=MULTI,              JOBCARDS PROVIDED BY NCP GEN        X
      MODEL=3704,                  X
      NEWNAME=NCPBAT,             NAME OF THIS LOAD MODULE             X
      OLT=YES,                     ONLINE TEST AVAILABLE(DEFAULT)       X
      SLOWDOWN=12,                 SLOWDOWN WHEN 12% OF BUFFERS AVAIL X
      SUBAREA=3,                   SUBAREA ADDRESS = 3                  X
      TRACE=(YES,10)              10 ADDRESS-TRACE ENTRIES(DEFAULT)
  
```

```

*****
*
*       BUILD MACRO SPECIFICATIONS DOS
*
*****

```

```

NCPBUILD BUILD MAXSUBA=3,           MUST BE SAME AS IN VTAM STR DEF      X
          TYPYSYS=DOS,             DOS USED FOR STAGE 2                  X
          MEMSIZE=64,              3704 STORAGE SIZE IS 64K BYTES      X
          TYPGEN=NCP,              NCP ONLY                              X
          ABEND=YES,               ABEND FACILITY INCLUDED              X
          ANS=YES,                 AUTOMATIC NETWORK SHUTDOWN(DEFAULT) X
          ASMXREF=NO,              NO ASSEMBLER CROSS-REFERENCE(DEFAULT) X
          BFRS=64,                 NCP BUFFER SIZE                      X
          CHANTYP=TYPE1,           PRIMARY CHANNEL ADAPTER               X
          ERASE=NO,                DO NOT ERASE BUFFERS (DEFAULT)       X
          ENABLTO=2.2,             LEASED LINE ONLY(DEFAULT)            X
          JOBCARD=MULTI,           JOBCARDS PROVIDED BY NCP GEN         X
          MODEL=3704,              X
          NEWNAME=NCPBAT,          NAME OF THIS LOAD MODULE              X
          OLT=YES,                 ONLINE TEST AVAILABLE (DEFAULT)       X
          SLOWDOWN=12,             SLOWDOWN WHEN 12% OF BUFFERS AVAIL  X
          SUBAREA=3,               SUBAREA ADDRESS = 3                  X
          TRACE=(YES,10)           10 ADDRESS-TRACE ENTRIES(DEFAULT)   X

```

```

*****
*
*       SYSCNTRL OPTIONS FOR VTAM OR TCAM
*
*       NOTE THAT OPERATOR CONTROLS ARE NOT INCLUDED.
*
*****
NCPSYSC SYSCNTRL OPTIONS=(MODE,      X
          RCNTRL, RCOND, RECMD, RIMM, ENDCALL, X
          BHSASSC)

```

SAMPLE NCP FOR 3704

```
*****
*      HOST MACRO SPECIFICATIONS OS VTAM      *
*      UNITSZ TIMES MAXBFRU MINUS BFRPAD EQUALS MAX MESSAGE SIZE *
*      FOR INBOUND MESSAGES                    *
*****
```

```
NCPHOST  HOST  INBFRS=5,          INITIAL 3704 ALLOCATION      X
          MAXBFRU=4,          VTAM BUFFER UNIT ALLOCATION X
          UNITSZ=84,          *
          BFRPAD=28,          VTAM(OS=28, DOS=15, ACF=0), EXTM=2  X
          DELAY=.2,          .2 SECOND ATTENTION DELAY      X
          STATMOD=YES,       YES VTAM, NO FOR EXTM          X
          TIMEOUT=(120.0)    AUTO SHUT DOWN IF NO RESP IN 120SEC
```

```
*****
*      HOST MACRO SPECIFICATIONS DOS/VS      *
*      DOS VTAM REQUIRES BFRPAD=15         *
*                                           *
*****
```

```
NCPHOST  HOST  INBFRS=5,          INITIAL 3704 ALLOCATION      X
          MAXBFRU=6,          VTAM BUFFER UNIT ALLOCATION X
          UNITSZ=88,          VTAM BUFFER SIZE MUST BE MULT OF 8 X
          BFRPAD=15,          DOS VTAM 15, EXTM=2            X
          DELAY=.5,          .5 SECOND ATTENTION DELAY      X
          STATMOD=YES,       YES FOR DOS VTAM, NO FOR EXTM  X
          TIMEOUT=(120.0)    AUTO SHUT DOWN IF NO RESP IN 120SEC
```

```
*****
*      CSB MACRO SPECIFICATIONS              *
*                                           *
*****
```

```
NCPCSB   CSB   SPEED=(134),        BUS MACH CLOCK            X
          MOD=0,             SCANNER ADDRESS 000 TO 01F      X
          TYPE=TYPE1        TYPE 1 COMM SCANNER (DEFAULT)
```



```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
* SPECIFICATIONS FOR SDLC LEASED LINES *
* GROUP MACRO SPECIFICATIONS *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  
```

```

SDLCGP1  GROUP LNCTL=SDLC,          SYNCHRONOUS DATA LINK      X
          DIAL=NO,                 REQUIRED FOR LEASED LINE     X
          REPLYTO=1.0,             USE DEFAULT                 X
          TYPE=NCP                 NCP ONLY
  
```

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
* LINE MACRO SPECIFICATION - FULL-DUPLEX, LEASED *
* MAY BE USED FOR 3790, 3600, OR 3650 *
*
* NOTE: LINE SPEED MAY BE RAISED TO 2400 FOR *
* ALL PHYSICAL UNITS AND TO 4800 FOR 3600 AND 3650 *
* WITHOUT DOING A NEW GEN OF NCP. *
* RETRIES VALUE FOR LINE SHOULD BE GREATER THAN 30 *
* SECONDS AND LESS THAN ONE MINUTE FOR 3650. *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  
```

```

SDLC1  LINE  ADDRESS=(000),          TRANSMIT AND RECEIVE ADDRESS  X
        DUPLEX=HALF,                REQUIRED FOR SWITCHED BACKUP   X
  
```

OR

```

SDLC1  LINE  ADDRESS=(000,001),     TRANSMIT AND RECEIVE ADDRESSES X
        DUPLEX=FULL,                MODEM IS STRAPPED FOR FULL DUPLEX X
        SPEED=1200,                 SPEED MAY BE HIGHER(SEE NOTES) X
        NRZI=YES,                   SPECIFY YES ONLY IF REQUIRED    X
        NEWSYNC=NO,                 CHECK MODEM REQUIREMENTS      X
        CLOCKNG=EXT,                MODEM PROVIDES CLOCKING       X
        POLLED=YES,
        RETRIES=(5,10,4)           5 RETRIES PER RECOVERY SEQUENCE X
  
```

SAMPLE NCP FOR 3704

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          SERVICE ORDER FOR SDLC LINK
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
          SERVICE ORDER=(CL3790)

```

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          PU MACRO SPECIFICATION FOR 3790 LINK
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

CL3790	PU	ADDR=C1,	PU ADDRESS = A (EBCDIC)	X
		MAXDATA=265,	MAXIMUM AMOUNT OF DATA	X
		PUTYPE=2,		X
		PACING=(1,1),	MAX FOR 3790	X
		VPACING=(2,1),	TWICE PACING VALUE	X
		PASSLIM=7,	EQUAL TO MAXOUT	X
		MAXOUT=7,	MAX PATH INFO UNITS BEFORE RES	X
		ISTATUS=INACTIVE	ACTIVATE VIA OPERATOR	

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          LOGICAL UNIT SPECIFICATIONS
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

INBATCH2	LU	LOCADDR=1,	IN REQ'D FOR 1ST LU	X
		ISTATUS=ACTIVE		
INQDEM12	LU	LOCADDR=2,		X
		ISTATUS=ACTIVE		
INQDEM13	LU	LOCADDR=3,		X
		ISTATUS=ACTIVE		
INQDEM14	LU	LOCADDR=4		

```

*****
*
*      SERVICE ORDER FOR 3600'S FOR SSS TRANSFER ONLY AND FOR
*      OPERATIONAL USE.
*
*****
      SERVICE ORDER=(CL3600,C36SS)
  
```

```

*****
*
*      PU MACRO SPECIFICATION FOR 3600 LINK
*
*****
  
```

```

CL3600  PU      ADDR=C1,          PU ADDRESS = A (EBCDIC)      X
          PUTYPE=2,              X
          MAXDATA=80,            MATCH BUFFER VALUE IN 3601  X
          MAXOUT=3,              MAX PATH INFO UNITS BEFORE RES X
          PASSLIM=1,             X
          PACING=(0),            BEST FOR INQUIRY RESPONSE    X
          VPACING=(0),           CHANGE IF NCP SLOWDOWN      X
          ISTATUS=INACTIVE       ACTIVATE VIA OPERATOR      X
  
```

```

*****
*
*      LOGICAL UNIT SPECIFICATIONS
*
*****
  
```

```

FALUA1  LU      LOCADDR=1, ISTATUS=INACTIVE      X
FALUA2  LU      LOCADDR=2,
          ISTATUS=ACTIVE                          X
FALUA3  LU      LOCADDR=3,
          ISTATUS=ACTIVE                          X
FALUA4  LU      LOCADDR=4,
          ISTATUS=ACTIVE                          X
  
```

SAMPLE NCP FOR 3704

```
*****
*
*          PU MACRO SPECIFICATION FOR 3600 FOR SSS          *
*
*****
CL36SS  PU      ADDR=C1,          PU ADDRESS = A (EBCDIC)      X
          PUTYPE=2,              *
          MAXDATA=265,           MAXIMUM AMOUNT OF DATA      X
          MAXOUT=3,             MAX PATH INFO UNITS BEFORE RES X
          PASSLIM=1,            *
          ISTATUS=INACTIVE      ACTIVATE VIA OPERATOR        X
*****
*
*          LOGICAL UNIT SPECIFICATIONS                      *
*
*****
FALUAISS LU  LOCADDR=1,          FA REQ'D FOR 1ST LU          X
          PACING=(3,1),          *
          VPACING=(4,1),        IF NO SLOWDOWN, INCREASE VPACING X
          ISTATUS=ACTIVE
*****
```

```

*****
*
*          SERVICE ORDER FOR SDLC 3650 (FULL DUPLEX)
*
*****
          SERVICE ORDER=(STORE1)
    
```

```

*****
*
*          PU MACRO SPECIFICATION FOR 3650
*
*****
    
```

```

STORE1  PU      ADDR=C4,          PU ADDRESS = D (EBCDIC)      X
          CUTYPE=SDLC1,          X
          MAXOUT=7,              MAX PATH INFO UNITS BEFORE RES X
          MAXDATA=265,          6 BYTE TH, 3 BYTE RH, 256 BYTE RU X
          PASSLIM=5,            LIMIT IS 5 PIUS PER INDUSTRY SPEC X
          ISTATUS=INACTIVE,      ACTIVATE VIA OPERATOR        X
          PACING=(1,1),          X
          VPACING=(3,1)          X
    
```

```

*****
*
*          LOGICAL UNIT SPECIFICATIONS
*
*****
    
```

```

QESTORE1 LU      LOCADDR=1,          REQ'D FOR 1ST LU      X
          PACING=(7,1),          IMPROVES LOADING 3651 X
          VPACING=(4,1),          DECREASE IF SLOWDOWN WITH SSS X
          ISTATUS=ACTIVE
QECREDIT LU      LOCADDR=2,          X
          PACING=(0),            X
          VPACING=(0)
QE365311 LU      LOCADDR=3
QE365312 LU      LOCADDR=4
QE365313 LU      LOCADDR=5
QE365314 LU      LOCADDR=6
QE365315 LU      LOCADDR=7
QE327511 LU      LOCADDR=8
QE327512 LU      LOCADDR=9,PACING=(2,1)
QE327513 LU      LOCADDR=10,PACING=(2,1)
QE327514 LU      LOCADDR=11,PACING=(2,1)
QE327515 LU      LOCADDR=12,PACING=(2,1)
QEINT1  LU      LOCADDR=13,PACING=(2,1)
QEINT2  LU      LOCADDR=14
    
```

SAMPLE NCP FOR 3704

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*                                                                 *
*          GENEND DELIMITER                                     *
*                                                                 *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
          GENEND
          END
/*
```

7.2 : SAMPLE NCP FOR 3705 (MULTI-PURPOSE)

```

*****
*          SOURCE FOR NCP 5.0 OR ACF/NCP/V5          *
*          SUPPORTS BASIC, SDLC AND REMOTE 370X      *
*****
    
```

PCCU SPECIFICATIONS - OS/V5 (VTAM)

\*\*\*\*\*

```

NCPSTART PCCU  CUADDR=0BF,          3705 CONTROL UNIT ADDRESS          X
                AUTODMP=NO,         PROMPT BEFORE DUMPING NCP        X
                AUTOSYN=NO,         PROMPT OPERATOR IF NCP LOADED    X
                MAXDATA=3000,       ALLOW FOR 3270 BSC                X
                CONFGDS=NCP001,     VTAM 2 ONLY                       X
                AUTOIPL=YES,        AUTOIPL AND RESTART              X
                DUMPDS=NCPDUMP,     AUTODUMP REQUESTED               X
                INITEST=YES         NCP INITIALIZATION TEST
    
```

PCCU SPECIFICATIONS FOR DOS/V5(VTAM)

\*\*\*\*\*

```

NCPSTART PCCU  CUADDR=0BF,          3705 CONTROL UNIT ADDRESS          X
                AUTODMP=NO,         PROMPT WHEN NCP FAILS            X
                AUTOSYN=YES,        NO PROMPT IF ALREADY LOADED      X
                MAXDATA=3000,       ALLOW FOR 3270 BSC                X
                AUTOIPL=YES,        AUTOIPL AND RESTART              X
                DUMPDS=SYS007,     DS FOR DUMP OPTION               X
                INITEST=NO,         NO INITIAL TEST                  X
                NCPLUB=SYS008      LOAD MODULE NAME
    
```

NOTE: MAXDATA must be less than MAXBFRU X UNITSZ - BFRPAD. It must be greater than the largest PIU passed through the NCP.

SAMPLE NCP FOR 3705

PCCU SPECIFICATIONS FOR ACF/VTAM OS/VS

\* PCCU SPECIFICATIONS - ACF/VTAM OS/VS \*

\*\*\*\*\*

NCPACF	PCCU	CUADDR=418,	3705 CONTROL UNIT ADDRESS	X
		MAXDATA=3000,	MAX OUTBOUND PIU	X
		AUTOSYN=YES,	NO PROMPT IF ALREADY LOADED	X
		AUTODMP=NO,	PROMPT BEFORE DUMPING NCP	X
		AUTOIPL=YES,	AUTOIPL AND RESTART NOT AUTO	X
		DUMPDS=NCPDUMP,	AUTODUMP REQUESTED	X
		SUBAREA=13,	SAME AS HOST MACRO	X
		INITEST=NO	NCP INITIALIZATION TEST	

PCCU SPECIFICATIONS FOR ACF/VTAM DOS/VS

\* PCCU SPECIFICATIONS - ACF/VTAM DOS/VS

\*\*\*\*\*

NCPACF	PCCU	CUADDR=070,	3705 CONTROL UNIT ADDRESS	X
		AUTODMP=NO,	PROMPT WHEN NCP FAILS	X
		MAXDATA=3000,	ALLOW FOR 3270 BSC	X
		AUTOIPL=YES,	AUTOIPL AND RESTART	X
		DUMPDS=SYS007,	DS FOR DUMP OPTION	X
		INITEST=NO,	NO INITIAL TEST	X
		AUTOSYN=YES,	NO PROMPT IF ALREADY LOADED	X
		SUBAREA=12,	SAME AS HOST MACRO	X
		NCPLUB=SYS008	LOAD MODULE NAME	

NOTE: MAXDATA must be less than MAXBFRU X UNITSZ - BFRPAD. It must be greater than the largest PIU passed through the NCP. If using IBM 3278 Model 4, MAXDATA should be 4000.



BUILD MACRO SPECIFICATIONS FOR OS/V5

\*\*\*\*\*

NCPBUILD BUILD	MAXSUBA=15,	MUST BE SAME AS IN VTAM STR DEF	X
	LOADLIB=NCPLoad,	LIBRARY FOR NCP LOAD MODULE	X
	OBJLIB=NCPOBJ,	LIBRARY FOR ASSEMBLER OUTPUTS	X
	LESize=320,	REGION SIZE FOR LINK-EDIT	X
	TYPsys=OS,	OS USED FOR STAGE 2	X
	QUALIFY=SYS1,	1ST LEVEL QUALIFIER	X
	UNIT=SYSDA,	DATA SET FOR ASSEMBLY	X
	MEMSize=112,	3705 STORAGE SIZE IS 112K BYTES	X
	TYPgen=NCP-LR,	NCP WITH REMOTE SUPPORT	X
	ABEND=YES,	ABEND FACILITY INCLUDED	X
	ANS=YES,	AUTOMATIC NETWORK SHUTDOWN	X
NOTE: Should be yes for PEP generation.			
	ASMXREF=NO,	NO ASSEMBLER CROSS-REFERENCE	X
	BFRS=64,	NCP BUFFER SIZE	X
NOTE: Note channel type			
	CHANtYP=TYPE2,	PRIMARY CHANNEL ADAPTER	X
	CSMHDR=27F5C711C3F0405C40C8C4D9405C,	3270 CRITSIT HEADER	X
	CSMHDRc=40E3C5E7E3405C5C,	3270 CRITST HEADER EXTRA TEXT	X
	CSMSG=C3D9C9E3E2C9E35A40E385819440F040,	CRITSIT MESG	X
	CSMSGc=6040C1D5E240828587A4954B,	CRITST MESG EXTRA TEXT	X
	CUID=,	NO SWITCHED BSC ID SEQUENCE DEVICES	X
	ERASE=NO,	DO NOT ERASE BUFFERS	X
	ENABLTO=,	NO SWITCHWD BACK_UP SUPPORT	X
	ITEXTTO=60,	TEXT TIME OUT PROVIDED BY BUILD MACRX	X
	JOBCARD=MULTI,	JOBCARDS PROVIDED BY NCP GEN	X
	MODEL=3705,		X
	MTARTO=30,		X
	MTARTRY=10,		X
	NEWNAME=NCPSDL,	NAME OF THIS LOAD MODULE	X
	PNLTEST=YES,	PANEL TEST INCLUDED	X
	OLT=YES,	ONLINE TEST AVAILABLE	X
	SLOWDOWN=12,	SLOWDOWN WHEN 12% OF BUFFERS AVAIL	X
	SUBAREA=3,	SUBAREA ADDRESS = 3	X
	TIME=,	NO TIME ON STAGE 2 EXEC CARDS	X
	TRACE=(YES,64),	64 ADDRESS-TRACE ENTRIES	X
	UT1=SYSUT1,	PREALLOCATED WORK SPACE	X
	UT2=SYSUT2,	PREALLOCATED WORK SPACE	X
	UT3=SYSUT3,	PREALLOCATED WORK SPACE	X
	XBREAK=4,	4 BREAK CHARS. FOR 300 BPS	X
	XITB=NO	NO ITB SUPPORTED BSC UNITS	X

SAMPLE NCP FOR 3705

BUILD MACRO SPECIFICATIONS DOS/V5

\*\*\*\*\*

NCPBUILD BUILD	MAXSUBA=15,	MUST BE SAME AS IN VTAM STR DEF	X
	TYPYSYS=DOS,	DOS USED FOR STAGE 2	X
	MEMSIZE=112,	3705 STORAGE SIZE IS 112K BYTES	X
	TYPGEN=NCP-LR,	NCP WITH REMOTE SUPPORT	X
	ABEND=YES,	ABEND FACILITY INCLUDED	X
	ANS=YES,	AUTOMATIC NETWORK SHUTDOWN	X
NOTE: Should be yes for PEP generation.			
	ASMXREF=NO,	NO ASSEMBLER CROSS-REFERENCE	X
	BFRS=64,	NCP BUFFER SIZE	X
NOTE: Note channel type			
	CA=TYPE2,	NEW FOR NCP5	X
	CHANTYP=TYPE2,	PRIMARY CHANNEL ADAPTER	X
	CSMHDR=27F5C711C3F0405C40C8C4D9405C,	3270 CRITSIT HEADERX	X
	CSMHDR=40E3C5E7E3405C5C,	3270 CRITST HEADER EXTRA TEXT	X
	CSMSG=C3D9C9E3E2C9E35A40E385819440F040,	CRITSIT MMSG	X
	CSMSGC=6040CID5E240828587A4954B,	CRITST MMSG EXTRA TEXT	X
	CUID=,	NO SWITCHED BSC ID SEQUENCE DEVICES	X
	ERASE=NO,	DO NOT ERASE BUFFERS	X
	ENABLTO=,	NO MANUAL SWITCHED BACKUP	X
	ITEXTTO=60,	TEXT TIME OUT PROVIDED BY BUILD MACRX	X
	JOBCARD=MULTI,	JOBCARDS PROVIDED BY NCP GEN	X
	MODEL=3705,		X
	MTARTO=30,		X
	MTARTRY=10,		X
	NEWNAME=NCP500,	NAME OF THIS LOAD MODULE	X
	PNLTEST=YES,	PANEL TEST INCLUDED	X
	OLT=YES,	ONLINE TEST AVAILABLE	X
	SLOWDOWN=12,	SLOWDOWN WHEN 12% OF BUFFERS AVAIL	X
	SUBAREA=3,	SUBAREA ADDRESS = 3	X
	TIME=,	NO TIME ON STAGE 2 EXEC CARDS	X
	TRACE=(YES,64),	64 ADDRESS-TRACE ENTRIES	X
	XBREAK=4,	4 BREAK CHARS FOR 300 BPS	X
	XITB=NO	NO ITB SUPPORTED BSC UNITS	X

BUILD MACRO SPECIFICATIONS FOR OS/V5 (TWO CHANNELS)

```

*
*          BUILD MACRO SPECIFICATIONS - TWO TYPE 4 CHANNELS
*
*
*****
HONEDEV  BUILD TYPGEN=NCP,
          MAXSUBA=31,
          PARTIAL=NO,
          MAXSSCP=2,          BOTH HOSTS ACTIVE
          MEMSIZE=256,
          MODEL=3705-2,
          NEWNAME=NCPACFI,
          CA=(TYPE4,TYPE4-0),
          NCPCA=(ACTIVE,ACTIVE),
          LTRACE=2,
          TYP SYS=OS,
          LESIZE=200,
          QUALIFY=NCP6,
          LOADLIB=NCPLIB,
          OBJLIB=NCPACFI,
          ABEND=YES,          ABEND FACILITY INCLUDED
          ANS=YES,           AUTOMATIC NETWORK SHUTDOWN
NOTE: Should be yes for PEP generation.
          ASMXREF=NO,        NO ASSEMBLER CROSS-REFERENCE
          BFRS=64,          NCP BUFFER SIZE
          CSMHDR=27F5C711C3F0405C40C8C4D9405C, 3270 CRITSIT HEADERX
          CSMHDC=40E3C5E7E3405C5C, 3270 CRITST HEADER EXTRA TEXT X
          CSMSG=C3D9C9E3E2C9E35A40E385819440F040, CRITSIT MESG X
          CSMSGC=6040C1D5E240828587A4954B, CRITST MESG EXTRA TEXT X
          ERASE=NO,         DO NOT ERASE BUFFERS
          JOBCARD=MULTI,    JOBCARDS PROVIDED BY NCP GEN
          OLT=YES,          ONLINE TEST AVAILABLE
          SLOWDOWN=12,      SLOWDOWN WHEN 12% OF BUFFERS AVAIL
          SUBAREA=21,
          TIME=,            NO TIME ON STAGE 2 EXEC CARDS
          TRACE=(YES,64),   64 ADDRESS-TRACE ENTRIES
          UNIT=VIO,         DATA SET FOR ASSEMBLY AND LINK EDIT
          XITB=NO           NO ITB SUPPORTED BSC UNITS

```

SAMPLE NCP FOR 3705

SYSCNTRL OPTIONS FOR VTAM AND TCAM

```

*****
NCPSYSC SYSCNTRL OPTIONS=(MODE,
                        RCNTRL,RCOND,RECMD,RIMM,ENDCALL,SSPAUSE,
                        BHSASSC,NAKLIM,SESSION,XMTLMT)

```

NOTE: If the NCP does not contain Start/Stop or BSC devices, SYSCNTRL options will not be included in the ACF/NCP generation even if included in the source deck.

HOST MACRO SPECIFICATIONS OS/V5 (VTAM)

```

*      OS/V5 VTAM REQUIRES BFRPAD=28, STATMOD=YES, SUBAREA = 1      *
*****
NCPHOST  HOST  INBFRS=4,          INITIAL 3705 ALLOCATION          X
                MAXBFRU=20,       VTAM BUFFER UNIT ALLOCATION      X
                UNITSZ=152,        OS VTAM BUFFER SIZE             X
                BFRPAD=28,         OS VTAM 28, DOS VTAM 15,ETM 2     X
                DELAY=.1,          .1 SECOND ATTENTION DELAY -OS   X
                STATMOD=YES,       YES OS AND DOS VTAM, NO EXTM     X
                TIMEOUT=(120.0)    AUTO SHUT DOWN IF NO RESP IN 120SEC

```

HOST MACRO SPECIFICATIONS DOS/V5 (VTAM)

```

*      DOS VTAM REQUIRES BFRPAD=15, STATMOD=YES, SUBAREA = 1      *
*****
NCPHOST  HOST  INBFRS=4,          INITIAL 3705 ALLOCATION          X
                MAXBFRU=20,       VTAM BUFFER UNIT ALLOCATION      X
                UNITSZ=88,        VTAM BUFFER SIZE MUST BE MULT OF 8 X
                BFRPAD=15,        OS VTAM 28, DOS VTAM 15           X
                DELAY=.1,          .1 SECOND ATTENTION DELAY       X
                STATMOD=YES,       NO FOR EXTM                       X
                TIMEOUT=(120.0)    AUTO SHUT DOWN IF NO RESP IN 120SEC

```

NOTE: UNITSZ times MAXBFRU minus BFRPAD equals MAX message size for HOST inbound messages.

HOST MACRO SPECIFICATIONS ACF/TCAM OR TCAM 10

```

*****
*
*          HOST MACRO SPECIFICATIONS OS ACF/TCAM OR TCAM 10
*
*****
NCPHOST3 HOST  INBFRS=8,           INITIAL 3705 ALLOCATION           X
                MAXBFRU=20,        TCAM BUFFER UNIT ALLOCATION      X
                SUBAREA=14,
                UNITSZ=156,        MUST MATCH MCP UNITSZ         X
                BFRPAD=17,
                DELAY=.1,          .1 SECOND ATTENTION DELAY       X
                STATMOD=YES,
                TIMEOUT=(180)      AUTO SHUT DOWN IF NO RESP IN 180SEC X

```

HOST MACRO SPECIFICATIONS ACF/VTAM

```

*****
*
*          HOST MACRO SPECIFICATIONS OS ACF/VTAM
*
*****
NCPHOST4 HOST  INBFRS=8,           INITIAL 3705 ALLOCATION           X
                MAXBFRU=20,        VTAM BUFFER UNIT ALLOCATION      X
                SUBAREA=13,
                UNITSZ=152,
                BFRPAD=0,
                DELAY=.1,          .1 SECOND ATTENTION DELAY -OS    X
                STATMOD=YES,
                TIMEOUT=(180)      AUTO SHUT DOWN IF NO RESP IN 180SEC X

```

```

*****
*
*          HOST MACRO SPECIFICATIONS DOS ACF/VTAM
*
*****
NCPHOST4 HOST  INBFRS=8,           INITIAL 3705 ALLOCATION           X
                MAXBFRU=20,        VTAM BUFFER UNIT ALLOCATION      X
                SUBAREA=12,
                UNITSZ=136,

```

SAMPLE NCP FOR 3705

BFRPAD=0, X  
DELAY=.1, .1 SECOND ATTENTION DELAY -05 X  
STATMOD=YES, X  
TIMEOUT=(180) AUTO SHUT DOWN IF NO RESP IN 180SEC

PATH MACRO SPECIFICATIONS ACF

NCPPATH4 PATH ADJSUB=14, X  
DESTSUB=9

CSB MACRO SPECIFICATIONS

XX

NCPCSB CSB SPEED=(134,300,1200), BUS MACH CLOCKS X  
MOD=0, SCANNER ADDRESS 020 TO 05F X  
TYPE=TYPE2 TYPE 2 COMM SCANNER

LUPPOOL MACRO SPECIFICATION

\* (MUST BE SPECIFIED BEFORE FIRST GROUP MACRO)\*  
XX

POOL1 LUPPOOL NUMBER=120 ALLOW FOR LARGE POOL

MTA SUPPORT

```
*  MTALCST MACROS  -  MULTIPLE TERMINAL ACCESS  *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
C2741COR MTALCST GROUP=G2741,CLOCKNG=INT,CODE=COR,      X
          LCTYPE=2741,SPEED=134
```

```
*  MTALIST MACRO  *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
MTALIST1 MTALIST LCTYPE=(2741)
```

```
*  MTATABL MACROS  *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
T3767COR MTATABL LCST=(C2741COR),LCTYPE=2741,CODE=COR
```

```
*  MTA GROUP  *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
MTAGROUP GROUP CRETRY=6,DIAL=YES,LNCTL=SS,      X
          TYPE=NCP
```

```
*  START-STOP LINE SPECIFICATIONS  *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
LNMTA LINE ADDRESS=025,SPEED=134,MTALIST=MTALIST1,POLLED=NO,      X
          DUPLEX=FULL,CALL=IN,RETRIES=(2,1,2),TRANSFR=2,      X
          MONITOR=YES,DIRECTN=INOUT,      X
          LOGAPPL=NETSOL,LOGTAB=TABLE01
```

```
MTA      TERMINAL TERM=MTA,CTERM=YES,ATTN=ENABLED,      X
          FEATURE=(ATTN,BREAK,TOSUPPR),CRDLAY=YES
```

```
VMTA     VTERM LCST=C2741COR,BUFLIM=2
```

Note- This sample will work with VSPC and TSO through TCAM9/VTAM.

SAMPLE NCP FOR 3705

2740 MULTI-DROP LINE

\*\*\*\*\*

EURGRP GROUP CDATA=NO,CRETRY=5,DIRECTN=INOUT,ENDTRNS=EOT, X  
CLOCKNG=EXT,DUPLEX=HALF,LNCTL=SS,SPEED=1200,TYPE=NCP, X  
LOGAPPL=NETSOL,LOGTAB=TABLE01

EURLINE LINE ADDRESS=026,CODE=EBCD,SERVLIM=1,POLLED=YES, X  
RETRIES=(8,6,2),CUTOFF=1,SESSION=2,CRITSIT=YES, X  
SERVPRI=OLD,TERM=2740-2,XMITLIM=1,FEATURE=(CHECK), X

\*\*\* This POLIMIT will reduce system overhead but increase response time.

POLIMIT=(20,QUEUE)

SERVICE ORDER=(LON,BON)

LON TERMINAL ADDR=C1,POLL=C1

BON TERMINAL ADDR=C2,POLL=C2



3767 SWITCHED LINE AT 300 BAUD START/STOP

\*\*\*\*\*

G3767	GROUP	CRETRY=6,	RETRY 6 TIMES	X
		DIAL=YES,	SWITCHED LINE	X
		CRDLAY=YES,	REQUIRED	X
		CRRATE=5,	REQUIRED FOR 300 BPS	X
		LINESIZ=130,		X
		MONITOR=YES,		X
		REPLYTO=NONE,	NO REPLY TIME OUT	X
		TEXTTO=NONE,	NO TEXT TIME OUT	X
		LNCTL=SS	START STOP LINE TYPE	
L3767	LINE	ADDRESS=027,	LINE ADDRESS	X
		SPEED=300,	LINE SPEED 300 BPS	X
		CALL=IN,	CALL IN ONLY	X
		DIRECTN=INOUT,		X
		TYPE=NCP,	NCP ONLY	X
		CLOCKNG=INT,	INTERNAL CLOCKING	X
		CODE=EBCD,	EBCD CODE CONVERSION	X
		DUPLEX=FULL	MODEM STRAPPING IS FULL DUPLEX	
T3767	TERMINAL	TERM=2741,	3767 DEFINED AS 2741	X
		UTERM=T3767A,	LOGICAL TERMINAL NAME	X
		ATTN=ENABLED,	ENABLE ATTENTION FUNCTION	X
		LOGAPPL=NETSOL,		X
		LOGTAB=TABLE01,		X
		FEATURE=(ATTN,BREAK,TOSUPPR),		X
		CTERM=YES	LOGICAL CONNECTION	

Note- This sample will work with VSPC and TSO through TCAM9/VTAM.

SAMPLE NCP FOR 3705

2741 SWITCHED LINE AT 134 BAUD START/STOP

\*\*\*\*\*

G2741	GROUP	CRETRY=6,	RETRY 6 TIMES	X
		CRDLAY=YES,		X
		DIAL=YES,	SWITCHED LINE	X
		MONITOR=YES,		X
		REPLYTO=NONE,		X
		TEXTTO=NONE,		X
		LNCTL=SS	START STOP LINE TYPE	
L2741	LINE	ADDRESS=028,	LINE ADDRESS	X
		SPEED=134,	LINE SPEED 134 BPS	X
		TYPE=NCP,		X
		MONITOR=YES,		X
		DIRECTN=INOUT,		X
		CALL=IN,	CALL IN ONLY	X
		CLOCKNG=INT,	INTERNAL CLOCKING	X
		CODE=COR2,	COR2 CODE CONVERSION	X
		DUPLEX=FULL	MODEM STRAPPING IS FULL DUPLEX	
T2741	TERMINAL	TERM=2741,	2741 DEFINED AS 2741	X
		UTERM=T2741A,	LOGICAL TERMINAL NAME	X
		ATTN=ENABLED,	ENABLE ATTENTION FUNCTION	X
		LOGAPPL=NETSOL,		X
		LOGTAB=TABLE01,		X
		FEATURE=(ATTN,BREAK,TOSUPPR),		X
		CTERM=YES	LOGICAL CONNECTION	

Note- This sample will work with VSPC and TSO through TCAM9/VTAM.

SWITCHED TWX GROUP

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*   TTY SWITCHED LINE   AT 300 BAUD START/STOP MODE
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
GTTY   GROUP CRETRY=6,          RETRY 6 TIMES          X
        DIAL=YES,              SWITCHED LINE          X
        REPLYTO=NONE,          NO REPLY TIME OUT     X
        TEXTTO=NONE,          NO TEXT TIME OUT      X
        LNCTL=SS              START STOP LINE TYPE
LTTY   LINE ADDRESS=029,       LINE ADDRESS          X
        MONITOR=YES,          TEST FOR BREAK        X
        TYPE=NCP,             NCP ONLY              X
        CRDLAY=YES,           X
        DIRECTN=INOUT,        X
        CRRATE=10,            X
        LINESIZ=80,           X
        CODE=DIC3,            X
        CUTOFF=1,             STOP RUNAWAY TTY     X
        SPEED=300,            LINE SPEED 300 BPS   X
        CALL=IN,              CALL IN ONLY          X
        CLOCKNG=INT,          INTERNAL CLOCKING     X
        DUPLEX=FULL           MODEM STRAPPING IS FULL DUPLEX
TTY1   TERMINAL TERM=TWX,     TTY DEFINED AS TWX   X
        UTERM=TTY1A,          LOGICAL TERMINAL NAME X
        ATTN=ENABLED,         ENABLE ATTENTION FUNCTION X
        FEATURE=(ATTN,BREAK,TOSUPPR), X
        LOGAPPL=NETSOL,       X
        LOGTAB=TABLE01,       X
        CTERM=YES             LOGICAL CONNECTION   X

```

Note- This sample will work with VSPC and TSO through TCAM9/VTAM.

SWITCHED BSC LINE GROUP

\*\*\*\*\*

SWBSCLG	GROUP	DIAL=YES,	SWICHED BSC	X
		LNCTL=BSC,	BSC LINE CONTROL	X
		TYPE=NCP,	FOR USE BY NCP ONLY	X
		WACKCNT=15,	WACK COUNT OF 15	X
		LOGAPPL=NETSOL,		X
		WAKDLAY=2.2,	WACK DELAY OF 2.2 SEC	X
		SYNDLAY=1,	SYNC INTERVAL RATE	X
		REPLYTO=3	REPLY TIME OUT = 3 SECONDS	

\*\*\*\*\*

\* \* \* \* \*

\* LINE SPEC FOR DIAL-IN BSC TERMINALS \* \* \* \* \*

\* \* \* \* \*

SWBSCLA	LINE	ADDRESS=045,	LINE ADDRESS ON 3705	X
		CLOCKNG=EXT,	EXTERNAL MODEM CLOCKING	X
		TRANSFR=5,	PASS IT ON IF LARGER THAN 5	X
		SPEED=1200,	LINE SPEED	X
		CODE=EBCDIC,	EBCDIC ONLY	X
		DUPLEX=HALF,	MODEM STRAPPING IS HALF DUPLEX	X
		CALL=IN,	INCOMING CALLS ONLY	X
		INTPRI=1,	INTERRUPT PRIORITY IS 1	X
		NEWSYNC=NO,	3705 WILL NOT PROVIDE NEW SYNC	X
		CUTOFF=10,	ALLOW FOR FULL RECEIPT OF MESSAGE	X
		RETRIES=(4,1,6)	4 RETRY EVERY 1 SEC FOR 6 TIMES	

\*\*\*\*\*

\* \* \* \* \*

\* TERMINAL MACROS \* \* \* \* \*

\* \* \* \* \*

T3780	TERMINAL	TERM=3780,	3770 DEFINED AS 2770	X
		CTERM=YES,		X
		UTERM=T3780A	CONTROLLING STATION	

PT. TO PT. BSC LINES

```

*****
*
*          GROUP SPECIFICATION FOR LEASED POINT TO POINT LINE
*
*****
    
```

```

GRPPTPT GROUP  DIAL=NO,          NON-SWITCHED LINES          X
                LNCTL=BSC,       BSC LINE CONTROL           X
                TRANSFR=5,       LIMIT NUMBER OF RECEIVE BUFFERS X
                CUTOFF=10,       LIMIT NUMBER OF SUBBLOCKS   X
                TYPE=NCP,        FOR USE BY NCP ONLY        X
                REPLYTO=3        REPLY TIME OUT
    
```

```

*****
*
*          LINE SPEC FOR PT TO PT BSC LINK SYSTEM/7
*          LINE CODED TO SUPPORT SDLC/BSC PATH FUNCTION
*
*****
    
```

```

LINE48  LINE  ADDRESS=048,      LINE ADDRESS ON 3705        X
                CLOCKNG=EXT,    EXTERNAL MODEM CLOCKING    X
                SPÉED=2400,     LINE SPEED                  X
                CODE=EBCDIC,    EBCDIC ONLY                 X
                DUPLEX=HALF,    MODEM STRAPPING IS HALF DUPLEX X
                YIELD=NO,      NCP DOES NOT YIELD IN CONTENTION X
                TERM=SYS3
    
```

```

*****
*
*          TERMINAL MACRO SYSTEM/7
*
*****
    
```

```

SYSTEM7  TERMINAL BHEXEC=PT3,          X
                BHSET=BHSET,           X
                EXEC=YES,               X
                CONV=YES,               X
                PT3EXEC=YES,           X
                CRITSIT=YES,           X
                TERM=SYS3
    
```

NOTE- This line will interface with the SDLC/BSC Path function.

SAMPLE NCP FOR 3705

```
*****  
*                                                                 *  
*   LINE SPEC FOR PT TO PT BSC LINK SYSTEM/3                   *  
*   MAYBE USED AS STATION FOR PREVIOUS LINE                     *  
*                                                                 *  
*****
```

```
LINE49  LINE  ADDRESS=049,      LINE ADDRESS ON 3705      X  
          CLOCKNG=EXT,        EXTERNAL MODEM CLOCKING  X  
          SPEED=2400,         LINE SPEED                    X  
          CODE=EBCDIC,        EBCDIC ONLY                X  
          DUPLEX=HALF,        MODEM STRAPPING IS HALF DUPLEX X  
          YIELD=YES,          NCP DOES YIELDS TO CONTENTION X  
          TERM=SYS3
```

```
*****  
*                                                                 *  
*   TERMINAL MACRO SYSTEM/3                                     *  
*                                                                 *  
*****
```

```
SYSTEM3  TERMINAL TERM=SYS3,      X  
          CONV=YES
```

Note- This line may be used as a driver for line on the preceeding page.

3270 BSC SPECIFICATIONS

\* GROUP SPECIFICATION FOR REMOTE 3270'S \*  
 \*\*\*\*\*

BSC3270 GROUP	DIAL=NO,	NON-SWITCHED LINES	X
	CRETRY=7,	TIME OUT WILL TAKE ABOUT 63 SECONDS	X
	LNCTL=BSC,	BSC LINE CONTROL	X

\*\*\* TRANSFR times the BFRS value in the BUILD macro should be a value greater than 256 but not exceed 400.

TRANSFR=5,	LIMIT NUMBER OF RECEIVE BUFFERS	X
------------	---------------------------------	---

\*\*\* CUTOFF=1 is required for 3270 BSC cluster control units.

CUTOFF=1,	LIMIT NUMBER OF SUBBLOCKS	X
TYPE=NCP,	FOR USE BY NCP ONLY	X

\*\*\* XMITLIM=1 is required for BSC 3270 Clusters.

XMITLIM=1,	TRANSMISSION LIMIT	X
WACKCNT=15,	WACK COUNT OF 15	X
WAKDLAY=2.2,	WACK DELAY OF 2.2 SEC	X
SYNDLAY=1,	SYNC INTERVAL RATE	X
REPLYTO=3	REPLY TIME OUT	

SAMPLE NCP FOR 3705

```

*           LINE SPEC FOR 3271                               *
*****
SSCBSC LINE ADDRESS=044,           LINE ADDRESS ON 3705      X
           ISTATUS=INACTIVE,       ACF/VTAM USE ONLY      X
           CLOCKNG=EXT,             EXTERNAL MODEM CLOCKING  X
           SPEED=4800,              LINE SPEED                X
           CODE=EBCDIC,             EBCDIC 3270'S ONLY      X
           DUPLEX=FULL,             DUPLEX FACILITY IS USED X

*** NEWSYNC=NO is required for IBM 3274/3276 if DUPLEX=FULL is coded.

           NEWSYNC=YES,             3705 WILL PROVIDE NEW SYNC  X
           INTPRI=1,               INTERRUPT PRIORITY IS 1    X

*** POLIMIT=(1,QUEUE) is recommended for best performance.

           POLIMIT=(1,QUEUE),       X
           POLLED=YES,              POLLED DEVICE            X
           NEGPOLP=.1,             NEGATIVE POLL PAUSE      X
           PAUSE=1,                DELAY BETWEEN SERVICE CYCLES X
           RETRIES=(7,4,3),        X
           SERVPRI=OLD,            PRIORITY TO OLD SESSIONS X

*** The SESSION=N should be equal to the number of clusters and
    terminals on the link.

           SESSION=8,              SPECIFY 1 FOR EACH CLUSTER  X
                                   AND TERMINAL

*** The following parameter is for ACF/VTAM only.

           PU=YES                   ACF/VTAM ONLY

*** The following parameter may be used with VTAM or ACF/VTAM
    but can not be used with PU=YES.

           LOGAPPL=NETSOL

*** LOGTAB= is required when the terminals are allocated to NETSOL.

           LOGTAB=TABLE01          LOGON TABLE FOR NETSOL

```



\* SERVICE ORDER MACRO SPECIFICATIONS \*  
 \*\*\*\*\*

\*\*\* Each cluster and terminal must be contained in the SERVICE macro.

SSCSOR SERVICE ORDER=(SSC3270,SSCT1,SSCT2,SSCT3, X  
 SSCT4,SSCT5,SSC3275,SSCT6)

\* CLUSTER MACRO FOR 3270 VTAM2, ACF/VTAM BASIC, OR ACF/TCAM \*  
 \*\*\*\*\*

SSC3270 CLUSTER CUTYPE=3271, 3271 DEFINED X  
 FEATUR2=(MODEL2,ANKEY,PFK), 3277 FEATURES X  
 CRITSIT=YES, SEND CLOSE-DOWN MESSAGE X  
 GPOLL=40407F7F GENERAL POLL ADDRESS

\* CLUSTER MACRO FOR 3270 ACF/VTAM (PU=YES) \*  
 \*\*\*\*\*

SSC3270 CLUSTER CUTYPE=3271, 3271 DEFINED X  
 CRITSIT=YES, SEND CLOSE-DOWN MESSAGE X  
 GPOLL=40407F7F, GENERAL POLL ADDRESS X

\*\*\* The following parameters are ACF/VTAM only.

DLOGMOD=S3270, MODE FOR BSC3270 X  
 USSTAB=VUSS3270, X  
 MODETAB=NOSPTAB MODETAB FOR BSC3270

```

*          TERMINAL MACROS
*****
SSCT1     TERMINAL TERM=3277,          3277 DISPLAY STATION           X
          FEATUR2=(MODEL2,ANKEY,PFK), 3277 FEATURES                 X
*** ACF/VTAM requires FEATUR2= to be on terminal macro.
          ISTATUS=ACTIVE,           WILL ACTIVATE WITH CLUSTER       X
          ADDR=60604040,            SELECTION ADDRESS FOR T1         X
          POLL=40404040             POLL ADDRESS OF TERM T1
SSCT2     TERMINAL TERM=3277,          3277 DISPLAY STATION           X
          FEATUR2=(MODEL2,ANKEY,PFK), 3277 FEATURES                 X
          ISTATUS=ACTIVE,           WILL ACTIVATE WITH CLUSTER       X
          ADDR=6060C1C1,            SELECTION ADDRESS FOR T2         X
          POLL=4040C1C1             POLL ADDRESS FOR T2
SSCT3     TERMINAL TERM=3277,          3277 DISPLAY STATION           X
          FEATUR2=(MODEL2,ANKEY,PFK), 3277 FEATURES                 X
          ISTATUS=ACTIVE,           WILL ACTIVATE WITH CLUSTER       X
          ADDR=6060C2C2,            SELECTION ADDRESS FOR T3         X
          POLL=4040C2C2             POLL ADDRESS FOR T3
SSCT4     TERMINAL TERM=3277,          3277 DISPLAY TERMINAL          X
          FEATUR2=(MODEL2,ANKEY,PFK), 3277 FEATURES                 X
          ISTATUS=ACTIVE,           WILL ACTIVATE WITH CLUSTER       X
          ADDR=6060C3C3,            SELECTION ADDRESS FOR T4         X
          POLL=4040C3C3             POLL ADDRESS FOR T4
SSCT5     TERMINAL TERM=3286,          3286 PRINTER                   X

*** DIRECTN=OUT is required by VTAM.

          DIRECTN=OUT,              REQUIRED FOR VTAM                   X
          ISTATUS=ACTIVE,           WILL ACTIVATE WITH CLUSTER       X
          ADDR=6060C4C4,            SELECTION ADDRESS FOR T5         X
          BFRDLAY=13,               ALLOW 13 SECONDS TIME DELAY      X
          POLL=4040C4C4             SELECTION ADDRESS FOR T5
    
```

\*\*\*\* Terminal addresses must be sequential. No address may be skipped and no device should be attached to the 3271 controller that is not defined in the NCP generation.

CLUSTER MACRO FOR 3275

```

*****
SSC3275 CLUSTER CUTYPE=3275,      3275 DEFINED                X
        FEATUR2=(MODEL2,ANKEY,PFK,PRINTR),    3275 FEATURES    X
        CRITSIT=YES,      SEND CLOSE-DOWN MESSAGE            X
        GPOLL=C1C17F7F,   GENERAL POLL ADDRESS              X
        ISTATUS=INACTIVE, DO NOT ACTIVATE
    
```

\*\*\*\*\*

```

*      TERMINAL MACROS
*
SSCT6  TERMINAL TERM=3275,      3275 DISPLAY STATION        X
        ISTATUS=ACTIVE,    WILL ACTIVATE WITH CLUSTER        X
        BFRDLAY=13,        REQUIRED IF 3275 HAS PRINTER        X
        ADDR=61614040,     SELECTION ADDRESS FOR T6           X
        POLL=C1C14040      POLL ADDRESS OF TERM T6
    
```

GROUP SPECIFICATIONS FOR SDLC LEASED LINES

\*\*\*\*\*

SDLCGP1	GROUP LNCTL=SDLC,	SYNCHRONOUS DATA LINK	X
	DIAL=NO,	REQUIRED FOR LEASED LINE	X
	REPLYTO=1.0,	USE DEFAULT	X
	TYPE=NCP	NCP ONLY	

LINE MACRO SPECIFICATION - HALF-DUPLEX, LEASED

\* MAY BE USED FOR 3790, 3600, 3650, 3770, 3270 AND 3767 \*

\*\*\*\*\*

\*\*\* The following line will also work as a manual switched backup line if the ENABLTO parameter on the BUILD macro is increased from the default to at least 60.

SDLC1	LINE ADDRESS=(022),	TRANSMIT AND RECEIVE ADDRESS	X
	DUPLEX=HALF,	MODEM IS STRAPPED FOR HALF DUPLEX	X
	SPEED=1200,	LINE SPEED TO BE 1200 OR HIGHER	X
	NRZI=NO,		X
	NEWSYNC=NO,		X
	CLOCKNG=EXT,	MODEM PROVIDES CLOCKING	X
	POLLED=YES,		X
	RETRIES=(5)	5 RETRIES PER RECOVERY SEQUENCE	

LINE MACRO SPECIFICATION - HALF-DUPLEX, LEASED, INTERNAL CLOCK

\* MAY BE USED FOR 3790, 3600, 3650, 3770, 3270 AND 3767 \*

\*\*\*\*\*

SDLC1A	LINE ADDRESS=(024),	TRANSMIT AND RECEIVE ADDRESS	X
	DUPLEX=FULL,		X
	SPEED=1200,	CSB TIMER IS 1200	X
	NRZI=YES,	REQUIRED FOR INTERNAL CLOCKING	X
	NEWSYNC=NO,		X
	CLOCKNG=INT,	INTERNAL CLOCKING	X
	POLLED=YES,		X
	RETRIES=(5)	5 RETRIES PER RECOVERY SEQUENCE	

SDLC LINE MACRO SPECIFICATION FULL DUPLEX LINK

```

*****
SDLC2  LINE  ADDRESS=(020,021),  TRANSMIT AND RECEIVE ADDRESSES  X
        DUPLEX=FULL,           MODEM STRAPPING IS FULL-DUPLEX  X
        SPEED=2400,            LINE SPEED IS 2400 BPS  X
        NEWSYNC=NO,            CHECK IF MODEM REQUIRES IT  X
        CLOCKNG=EXT,           MODEM PROVIDES CLOCKING  X
        NRZI=NO,                DEPENDS ON MODEM  X
        POLLED=YES,
        RETRIES=(5)            5 RETRIES PER RECOVERY SEQUENCE  X

```

SDLC DUPLEX LINE SPECIFICATION (SINGLE PORT)

```

*****
SDLC3  LINE  ADDRESS=(046),      TRANSMIT AND RECEIVE ADDRESS  X
        DUPLEX=FULL,           MODEM STRAPPING IS FULL DUPLEX  X
        SPEED=2400,            SPEED IS 2400BPS  X
        CLOCKNG=EXT,           MODEM PROVIDES CLOCKING  X
        POLLED=YES,
        RETRIES=(5)            5 RETRIES PER RECOVERY SEQUENCE  X

```

SERVICE MACRO FOR SDLC LINK

```

*   EACH PU MUST BE IN SERVICE ORDER LIST  *
*                                           *
*****
        SERVICE ORDER=(PU3790Y,CL3600,STORE1,PU3770R,HD3767,CL3270D)

```

SAMPLE NCP FOR 3705

3790 PU MACRO SPECIFICATION

\*\*\*\*\*

PU3790Y	PU	ADDR=C1,		X
		PUTYPE=2,		X
		ISTATUS=INACTIVE,		X
		MODETAB=MODE3790,		X
		MAXOUT=7,	MAX PATH INFO UNITS BEFORE RESPONSE	X
		MAXDATA=265,	MAXIMUM AMOUNT OF DATA	X

\*\*\* MAXDATA = 265 is required for 3790

		PASSLIM=7,		X
		RETRIES=(,1,4)	4 RETRIES, 1 SECOND BETWEEN	

3790 LOGICAL UNIT SPECIFICATIONS

\*\*\*\*\*

INBATCHY	LU	LOCADDR=1,PACING=(2,2),VPACING=(4,2),ISTATUS=ACTIVE
BT3790Y1	LU	LOCADDR=2,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
BT3790Y2	LU	LOCADDR=3,PACING=(7,7),VPACING=(10,7),ISTATUS=ACTIVE
CM3790Y1	LU	LOCADDR=4,PACING=(0),VPACING=(0),ISTATUS=ACTIVE
CM3790Y2	LU	LOCADDR=5,PACING=(0),VPACING=(0),ISTATUS=ACTIVE
RJE1Y	LU	LOCADDR=8,PACING=(3,3),VPACING=(4,3),ISTATUS=ACTIVE
RJE2Y	LU	LOCADDR=9,PACING=(3,1),VPACING=(4,2),ISTATUS=ACTIVE
RJE3Y	LU	LOCADDR=10,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
RJE4Y	LU	LOCADDR=11,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
INQ1Y	LU	LOCADDR=12,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
INQ2Y	LU	LOCADDR=13,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
INQ3Y	LU	LOCADDR=14,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
INQ4Y	LU	LOCADDR=15,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
INQ5Y	LU	LOCADDR=16,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
BP3790Y1	LU	LOCADDR=17,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
BP3790Y2	LU	LOCADDR=18,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
UP3790Y1	LU	LOCADDR=19,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE
UP3790Y2	LU	LOCADDR=20,PACING=(1,1),VPACING=(2,1),ISTATUS=ACTIVE

NOTE - If ACF/VTAM, all pacing parameters will be changed to (m,1). After generating the NCP with the above definitions, change the source to VTAM to indicate a pacing of (m,1).

3600 CLUSTER MACRO SPECIFICATION

\*\*\*\*\*

CL3600	PU	ADDR=C1,	pu	ADDRESS = A (EBCDIC)	X
		PUTYPE=2,			X

\*\*\* The MAXDATA value should be 9 greater then the buffer value defined in the 3600 CPGEN. The retries operand for the SDLC link should be less than the Time-Out value specified in the CPGEN.

MAXDATA=265,	MAXIMUM AMOUNT OF DATA	X
MAXOUT=7,	MAX PATH INFO UNITS BEFORE RES	X
PASSLIM=7,		X
ISTATUS=INACTIVE,	ACTIVATE VIA OPERATOR	X
RETRIES=(,4,2),	SHOULD BE LESS THAN 20 SECONDS	X
PACING=(0),		
VPACING=(0)		

3600 LOGICAL UNIT SPECIFICATIONS

\*\*\*\*\*

FALUA1SS	LU	LOCADDR=1,	FA REQ'D FOR 1ST LU	X
		PACING=(3,1),		X
		VPACING=(6,1),		X
		ISTATUS=INACTIVE		
FALUA2	LU	LOCADDR=2,		X
		ISTATUS=ACTIVE		
FALUA3	LU	LOCADDR=3,		X
		ISTATUS=ACTIVE		
FALUA4	LU	LOCADDR=4,		X
		ISTATUS=ACTIVE		

3650 CLUSTER MACRO SPECIFICATION

\*\*\*\*\*

STORE1	PU	ADDR=C4,	PU ADDRESS = D (EBCDIC)	X
		PUTYPE=2,		X
		MAXOUT=7,	MAX PATH INFO UNITS BEFORE RES	X

\*\*\* MAXDATA = 265 is required for 3650

MAXDATA=265,	6 BYTE TH, 3 BYTE RH, 256 BYTE RU	X
PASSLIM=7,		X
ISTATUS=INACTIVE,	ACTIVATE VIA OPERATOR	X
RETRIES=(,10,3),	SHOULD BE LESS THAN 60 SECONDS	X
PACING=(1,1),		X
VPACING=(2,1)		

3650 LOGICAL UNIT SPECIFICATIONS

\*\*\*\*\*

QESTORE1	LU	LOCADDR=1,	REQ'D FOR 1ST LU	X
		PACING=(7,1),	IMPROVES LOADING 3651	X
		VPACING=(7,6),		X
		BATCH=YES,		X
		ISTATUS=ACTIVE		
QECREDIT	LU	LOCADDR=2,MODETAB=CRMOTB,DATASW=SYSTEM7		
QE365311	LU	LOCADDR=3		
QE365312	LU	LOCADDR=4		
QE365313	LU	LOCADDR=5		
QE365314	LU	LOCADDR=6		
QE365315	LU	LOCADDR=7		
QE327511	LU	LOCADDR=8		
QE327512	LU	LOCADDR=9,PACING=(2,1),VPACING=(3,1)		
QE327513	LU	LOCADDR=10,PACING=(2,1),VPACING=(3,1)		
QE327514	LU	LOCADDR=11,PACING=(2,1),VPACING=(3,1)		
QE327515	LU	LOCADDR=12,PACING=(2,1),VPACING=(3,1)		
QEINT1	LU	LOCADDR=13,PACING=(2,1)		
QEINT2	LU	LOCADDR=14		



3777 PU SPECIFICATION

\*\*\*\*\*

PU3777R	PU	ADDR=C2,		X
		ISTATUS=ACTIVE,		X
		PACING=(1,1),		X
		MODETAB=RJEMODE,		X
		VPACING=(2,1),		X
		MAXDATA=521,	MAXIMUM AMOUNT OF DATA	X

\*\*\* MAXDATA = 265 or 521 may be specified for 3777.

		MAXOUT=1,	MAX PATH INFO UNITS BEFORE RES	X
		PASSLIM=1,		X
		PUTYPE=2	DEFINE AS PU	

3770 LU SPECIFICATION

\* IBM 3777-1 REQUIRES ONE LU \*

LU3777R	LU	LOCADDR=1,		X
		ISTATUS=ACTIVE,		X
		SSCPFM=USSSCS,	REQUIRED FOR 3770	X
		USSTAB=ASUSST70,	USSTAB FOR 3770	X
		BATCH=YES	BATCH DEVICE	

SAMPLE NCP FOR 3705

3770 PU SPECIFICATION (MLU)

\*\*\*\*\*

\*\*\*\*\*

```

*
*          PU SPECIFICATION FOR  IBM 3770 PROGRAMABLE
*
*****
PU70P    PU      ADDR=C1,          PU ADDRESS = A (EBCDIC)      X
          PACING=(1,1),
          ISTATUS=ACTIVE,
          VPACING=(2,1),
          MAXDATA=265,          MAXIMUM AMOUNT OF DATA      X
          MAXOUT=1,           MAX PATH INFO UNITS BEFORE RES  X
          PASSLIM=1,
          PUTYPE=2            DEFINE AS PU                      X
    
```

3770 LU SPECIFICATION (MLU)

\*\*\*\*\*

```

P70LU1   LU      LOCADDR=1,
          MODETAB=MODE3770,   REQUIRED FOR 3770 SLU1      X
          SSCPFM=USSSCS,     REQUIRED FOR 3770          X
          USSTAB=ASUSST70,   USSTAB FOR 3770          X
          ISTATUS=ACTIVE,
          BATCH=YES          BATCH DEVICE                      X
*****
P70LU2   LU      LOCADDR=2,
          SSCPFM=USSSCS,     REQUIRED FOR 3770          X
          USSTAB=ASUSST70,   USSTAB FOR 3770          X
          ISTATUS=INACTIVE,
          BATCH=YES          BATCH DEVICE                      X
P70LU3   LU      LOCADDR=3,
          SSCPFM=USSSCS,     REQUIRED FOR 3770          X
          USSTAB=ASUSST70,   USSTAB FOR 3770          X
          ISTATUS=INACTIVE,
          BATCH=YES          BATCH DEVICE                      X
    
```

3271 SDLC PU SPECIFICATION

```

*****
CL3270D  PU      ADDR=C5,           CONTROLLER ADDRESS= E (EBCDIC)    X
                PUTYPE=1,           REMOTE NCP                          X
                BNNSUP=3270,        REQUIRED FOR 3270'S                 X
                SSCPFM=USS3270,
                MODETAB=S3270,      REQUIRED IF LU IS TO BE ACQUIRED   X
    
```

\*\*\* MAXDATA = 261 is required for 3270

```

                MAXDATA=261,        MAXIMUM AMOUNT OF DATA           X
                ISTATUS=INACTIVE,    ACTIVATE VIA OPERATOR             X
                PASSLIM=12,          MAXIMUM OUTBOUND PIU             X
                MAXOUT=7,            MAX PATH INFO UNITS              X
                USSTAB=ASUSST70,     LOGON USSTAB                     X
                RETRIES=(,10,4),     4 RETRIES, 10 SECONDS BETWEEN    X
                PACING=(1,1)
    
```

3271 LU SPECIFICATION

```

*****
CL3270D0 LU     LOCADDR=0, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D1 LU     LOCADDR=1, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D2 LU     LOCADDR=2, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D3 LU     LOCADDR=3, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D4 LU     LOCADDR=4, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D5 LU     LOCADDR=5, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D6 LU     LOCADDR=6, ISTATUS=ACTIVE, USSTAB=VUSS3270
CL3270D7 LU     LOCADDR=7, ISTATUS=ACTIVE          NO USSTAB FOR PRINTER
    
```

3274 SDLC PU SPECIFICATION

```

*****
SDLC3274 PU      ADDR=C1,                                X
                  PUTYPE=2,                              X
                  ISTATUS=ACTIVE,                        X
                  MODETAB=MT3274C,                      X
                  SSCPFM=USSSCS,                        X
                  MAXOUT=7,                             MAX PATH INFO UNITS BEFORE RESPONSE X
                  MAXDATA=265,                          MAXIMUM AMOUNT OF DATA           X
                  PASSLIM=7,                             X
                  PACING=0,                              FOR DISPLAYS AND DSC PRINTERS     X
                  VPACING=0,                             FOR DISPLAYS AND DSC PRINTERS     X
                  DISCNT=(NO),                           X
                  RETRIES=(,1,4)                        4 RETRIES, 1 SECOND BETWEEN

```

```

*****
*
*          LOGICAL UNIT SPECIFICATIONS
*
*****

```

```

SDLCPA01 LU      LOCADDR=2,USSTAB=USST3270,DLOGMOD=T3278M4
SDLCPA02 LU      LOCADDR=3,USSTAB=USST3270,DLOGMOD=T3278M4
SDLCPA03 LU      LOCADDR=4,USSTAB=USST3270,DLOGMOD=T3278M3
SDLCPA04 LU      LOCADDR=5,USSTAB=USST3270,DLOGMOD=T3278M3
SDLCPA05 LU      LOCADDR=6,USSTAB=USST3270,DLOGMOD=T3278M2
SDLCPA06 LU      LOCADDR=7,USSTAB=USST3270,DLOGMOD=T3278M4
SDLCPA07 LU      LOCADDR=8,DLOGMOD=DSC4K,MODETAB=MTNDSPTR
SDLCPA08 LU      LOCADDR=9,DLOGMOD=SCS,MODETAB=MTNDSPTR
SDLCPB01 LU      LOCADDR=10,USSTAB=USST3270,DLOGMOD=T3277M2
SDLCPB02 LU      LOCADDR=11,USSTAB=USST3270,DLOGMOD=T3277M2
SDLCPB03 LU      LOCADDR=12,USSTAB=USST3270,DLOGMOD=T3277M2
SDLCPB04 LU      LOCADDR=13,USSTAB=USST3270,DLOGMOD=T3277M2

```

NOTE - USSTAB should be specified at LU level to eliminate sending USS Message 10 to printers.

```

*****
*
*          PU MACRO SPECIFICATION FOR 3276
*
*****
SDLC3276 PU      ADDR=C2,                X
                 PUTYPE=2,                X
                 ISTATUS=INACTIVE,         X
                 MODETAB=MT3276,          X
                 SSCPFM=USSSCS,           X
                 MAXOUT=7,                 MAX PATH INFO UNITS BEFORE RESPONSE X
                 MAXDATA=265,              MAXIMUM AMOUNT OF DATA           X
                 PASSLIM=7,                X
                 PACING=0,                  FOR DISPLAYS                     X
                 VPACING=0,                FOR DISPLAYS                     X
                 DISCNT=(NO),              X
                 RETRIES=(,1,4)            4 RETRIES, 1 SECOND BETWEEN         X

```

```

*****
*
*          LOGICAL UNIT SPECIFICATIONS
*
*****
SDLC76P1 LU      LOCADDR=2,USSTAB=USST3270,DLOGMOD=T3278M2
SDLC76P2 LU      LOCADDR=3,USSTAB=USST3270,DLOGMOD=T3278M2
SDLC76P3 LU      LOCADDR=4,USSTAB=USST3270,DLOGMOD=T3278M2
SDLC76P4 LU      LOCADDR=5,USSTAB=USST3270,DLOGMOD=T3278M2
SDLC76P5 LU      LOCADDR=6,USSTAB=USST3270,DLOGMOD=T3278M2
SDLC76P6 LU      LOCADDR=7,USSTAB=USST3270,DLOGMOD=T3278M2
SDLC76P7 LU      LOCADDR=8,DLOGMOD=DSC4K,MODETAB=MTNDSPTR
SDLC76P8 LU      LOCADDR=9,DLOGMOD=SCS,MODETAB=MTNDSPTR

```

NOTE - USSTAB should be specified at LU level to eliminate sending USS Message 10 to printers.

SAMPLE NCP FOR 3705

3767 PU SPECIFICATION

```
*****  
HD3767  PU      ADDR=C2,          PU ADDRESS = B (EBCDIC)      X  
                PUTYPE=1,        TERMINAL NODEX                X
```

\*\*\* MAXDATA = 261 is required for 3767

```
                MAXDATA=261,     MAXIMUM AMOUNT OF DATA      X  
                MAXOUT=1,        MAX PATH INFO UNITS BEFORE RES X  
                PACING=(1,1)
```

3767 LU SPECIFICATION

```
*          IBM 3767 REQUIRES ONE LU          *  
*****  
TR3767HD LU  LOCADDR=0,          X  
                ISTATUS=ACTIVE,   X  
                USSTAB=ASUSSTAB,  X  
                SSCPFM=USSSCS,    X  
                MODETAB=ALL3767    OPTIONAL, DEPENDING UPON APPLICATION
```

SDLC DIAL GROUP SPECIFICATIONS

```

*****
SDLCGP2  GROUP LNCTL=SDLC,          SYNCHRONOUS DATA LINK          X
          DIAL=YES,                REQUIRED FOR DIAL LINE            X
          TYPE=NCP                  NCP ONLY
    
```

SDLC LINE MACRO SPECIFICATION - HALF-DUPLEX, SWITCHED

```

*          MAY BE USED FOR 3790, 3650, 3770, AND 3767          *
*****
SDLC4    LINE  ADDRESS=(023),        TRANSMIT AND RECEIVE ADDRESS    X
          CALL=INOUT,              REQUIRED BY VTAM FOR IN/OUT      X
          DUPLEX=HALF,             MODEM IS STRAPPED FOR HALF DUPLEX X
          SPEED=1200,              3601 TO OPERATE AT 1200 BPS    X
          NRZI=NO,                 UNITS NOT SPECIFIED WITH NRZI   X
          CLOCKNG=EXT,             MODEM PROVIDES CLOCKING         X
          POLLED=YES,              *
          RETRIES=(5,10,3),        5 RETRIES PER RECOVERY SEQUENCE X
          VPACING=(2,1)            SEND 2 FOR 1
*****
*
*          NO SERVICE ORDER FOR SDLC SWITCHED LINE            *
*
*****
    
```

PU MACRO SPECIFICATION FOR SWITCHED LINK

```

*****
PU1      PU    PUTYPE=(1,2),        SUPPORT TYPE 1 AND 2 PU'S      X
          MAXLU=60                  MAXIMUM NUMBER OF LU'S FOR LINE
    
```

\*\*\* MAXLU = must be greater than total LU's on PU.

SAMPLE NCP FOR 3705

SPECIFICATIONS FOR REMOTE NCP

```
*          GROUP MACRO SPECIFICATIONS          *
*****
SDLCGP3  GROUP LNCTL=SDLC,      SYNCHRONOUS DATA LINK      X
          DIAL=NO,              REQUIRED FOR LEASED LINE      X
          TYPE=NCP              NCP ONLY
*****
*
* FULL DUPLEX SDLC LINE SPECIFICATIONS FOR REMOTE NCP INTERFACE *
*
*****
REMLN   LINE ADDRESS=(040,041), TRANSMIT AND RECEIVE ADDRESSES  X
          NEWSYNC=NO,          DO NOT USE WITH REMOTE NCP      X
          DUPLEX=FULL,        MODEM STRAPPING IS FULL DUPLEX  X
          SPEED=2400,         SPEED IS 2400BPS                 X
          CLOCKNG=EXT,        MODEM PROVIDES CLOCKING         X
          POLLED=YES,
          RETRIES=(7)         7 RETRIES PER RECOVERY SEQUENCE X
*****
*
* SERVICE ORDER FOR DUPLEX LINK *
*
*****
          SERVICE ORDER=NCPVR      ONLY ONE REMOTE CONTROLLER
*****
* PU4 (INNODE) SPECIFICATION FOR REMOTE NCP *
*
*****
NCPVR   PU   ADDR=C1,          CONTROLLER ADDRESS= A (EBCDIC)  X
          PUTYPE=4,           REMOTE NCP                      X
          MAXOUT=7,           MAX PATH INFO UNITS BEFORE RESTORE X
          RETRIES=(,10,5),    5 RETRIES, 10 SECONDS BETWEEN  X
          SUBAREA=5,          REMOTE SUBAREA ADDRESS=5       X
          DATMODE=FULL        FULL DUPLEX DATA TRANSFER
```



BLOCK HANDLER DEFINITIONS

```
*****  
*          BLOCK HANDLER DEFINITIONS FOR SDLC/BSC PATH FUNCTION          *  
*                                                                                   *
```

```
STARTBH  STARTBH BHEXEC=PT3  
SPAFPT3  SPAFPT3  
ENDBH    ENDBH  
          SPACE 2  
BHSET    BHSET EXEC=YES,PT3=STARTBH
```

GENEND DELIMITER

```
*****  
          GENEND  
          END  
/*
```

SAMPLE NCP FOR 3705

CHAPTER 8 : SWITCHED SNA DEFINITIONSREFERENCES

DOS/VS VTAM System Programmers Guide	GC27-6957
DOS/VS VTAM Reference Summary	GX27-0033
ACF/VTAM System Programmers Guide (DOS)	SC38-0268
ACF/VTAM Installation Guide (DOS)	SC38-0270
ACF/VTAM Reference Summary (DOS)	SX27-3022
OS/VS1 VTAM System Programmer's Guide	GC27-6996
OS/VS VTAM Reference Summary	GX27-0034
OS/VS2 SVS VTAM System Programmer's Guide	GC27-0049
OS/VS2 VTAM System Programming Library:VTAM	GC28-0688
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269
ACF/VTAM Reference Summary	SX27-3021

SWITCHED SNA DEFINITIONS

VBUILD MACRO SPECIFICATIONS - SWITCHED

```

*
*****
*****
*****
SWITCH01 VBUILD TYPE=SWNET,          SWITCHED NET          X
          SUBAREA=4,                SUBAREA ADDRESS = 4    X
          CONFGDS=SWT001,           RESTART FILE          X
          MAXNO=4,                  4 DIALNO              X
          MAXGRP=1                   1 PATH GROUP

```

IBM 3790 SWITCHED DEFINITION

```

*****
CL3790A PU  ADDR=C1,                CLUSTER ADDRESS = I (EBCDIC) X
          PUTYPE=2,                  IDENTIFICATION BLOCK   X
          IDBLK=006,                 IDENTIFICATION NUMBER   X
          IDNUM=03791,               MAXIMUM AMOUNT OF DATA X
          MAXDATA=265,               MAX PATH INFO UNITS BEFORE RES X
          MAXOUT=7,                  DIAL-IN ONLY           X
          MAXPATH=1,                 EQUAL TO MAXOUT        X
          PASSLIM=7,                 PACING=(1,1),          X
          VPACING=(2,1),              ISTATUS=ACTIVE,       X
          MODETAB=MODE3790,           IRETRY=YES            X

```

```

*****
*
*          PATH STATEMENT
*
*****

```

```

PATH01  PATH  GID=1,                NCP SWITCHED LINE GROUP X
          GRPNM=SDLCGV2,             ID FOR THIS PATH       X
          PID=1,                     USE=YES,                X
          DIALNO=3464

```

```

*****
*
*          LOGICAL UNIT SPECIFICATIONS
*
*****

```

SWITCHED SNA DEFINITIONS

```

*
*****
INBATCH1 LU      LOCADDR=1, ISTATUS=ACTIVE, BATCH=YES
INQ02   LU      LOCADDR=2, ISTATUS=ACTIVE
INQ03   LU      LOCADDR=3, ISTATUS=ACTIVE
INQ04   LU      LOCADDR=4, ISTATUS=ACTIVE
INQ05   LU      LOCADDR=5, ISTATUS=ACTIVE
BT379011 LU     LOCADDR=20, ISTATUS=ACTIVE
BT379012 LU     LOCADDR=21, ISTATUS=ACTIVE
RJE01   LU      LOCADDR=25, ISTATUS=ACTIVE
RJE02   LU      LOCADDR=26, ISTATUS=ACTIVE
RJE03   LU      LOCADDR=27, ISTATUS=ACTIVE
RJE04   LU      LOCADDR=28, ISTATUS=ACTIVE
RJE05   LU      LOCADDR=29, ISTATUS=ACTIVE
CM379011 LU     LOCADDR=30, ISTATUS=ACTIVE
CM379012 LU     LOCADDR=31, ISTATUS=ACTIVE
CM379013 LU     LOCADDR=32, ISTATUS=ACTIVE
CM379014 LU     LOCADDR=33, ISTATUS=ACTIVE
BP379011 LU     LOCADDR=35, ISTATUS=ACTIVE
BP379012 LU     LOCADDR=36, ISTATUS=ACTIVE
BP379013 LU     LOCADDR=37, ISTATUS=ACTIVE
UP379011 LU     LOCADDR=40, ISTATUS=ACTIVE
UP379013 LU     LOCADDR=42, ISTATUS=ACTIVE
UP379014 LU     LOCADDR=43, ISTATUS=ACTIVE
UP379015 LU     LOCADDR=44, ISTATUS=ACTIVE
UP379016 LU     LOCADDR=45, ISTATUS=ACTIVE
UP379017 LU     LOCADDR=46, ISTATUS=ACTIVE
UP379018 LU     LOCADDR=47, ISTATUS=ACTIVE
UP379019 LU     LOCADDR=48, ISTATUS=ACTIVE
UP379021 LU     LOCADDR=50, ISTATUS=ACTIVE
UP379022 LU     LOCADDR=51, ISTATUS=ACTIVE
UP379023 LU     LOCADDR=52, ISTATUS=ACTIVE
UP379024 LU     LOCADDR=53, ISTATUS=ACTIVE
UP379025 LU     LOCADDR=54, ISTATUS=ACTIVE
UP379026 LU     LOCADDR=55, ISTATUS=ACTIVE
UP379027 LU     LOCADDR=56, ISTATUS=ACTIVE
UP379028 LU     LOCADDR=57, ISTATUS=ACTIVE
UP379029 LU     LOCADDR=58, ISTATUS=ACTIVE

```

IBM 3650 SWITCHED DEFINITION

```

*          PU STATEMENT FOR 3650          *
*****
STORS1  PU      ADDR=C4,          CLUSTER ADDRESS = D (EBCDIC)      X
          PUTYPE=2,                                     X

```

SWITCHED SNA DEFINITIONS

```

MAXOUT=7,          MAX PATH INFO UNITS BEFORE RES     X
MAXDATA=265,      6 BYTE TH, 3 BYTE RH, 256 BYTE RU   X
PASSLIM=5,        PER INDUSTRY SPECS                  X
PACING=(1,1),                                           X
MAXPATH=0,        NO DIAL OUT PATH                    X
MODETAB=ISTINCLM, LOGMODE=IBM3650                     X
IDBLK=005,        IDENTIFICATION BLOCK(WRONG ?)       X
IDNUM=03651,      IDENTIFICATION NUMBER              X
ISTATUS=INACTIVE, ACTIVATE VIA OPERATOR              X
VPACING=(2,1),    X
IRETRY=YES        X

```

```

*          PATH STATEMENT                               *
*****
PATH02  PATH  GID=1,                                   X
          GRPNM=SDLCGP2,    NCP SWITCHED LINE GROUP(NCPRAL) X
          PID=4,           ID FOR THIS PATH                X
          USE=YES,         X
          DIALNO=3650     X

```

```

*          LOGICAL UNIT SPECIFICATIONS                  *
*****
QESTORS1 LU  LOCADDR=1,          REQ'D FOR 1ST LU        X
             PACING=(7,1),      IMPROVES LOADING 3651   X
             VPACING=(7,6),     X
             ISTATUS=ACTIVE     X

```

NOTE:  
The rest of the LU's are for backup only. The system operator must activate each one as needed.

```

QECREDST LU  LOCADDR=2,          X
             PACING=(0),         X
             VPACING=(0)
QE3653S1 LU  LOCADDR=3
QE3653S2 LU  LOCADDR=4
QE3653S3 LU  LOCADDR=5
QE3653S4 LU  LOCADDR=6
QE3653S5 LU  LOCADDR=7
QE3275S1 LU  LOCADDR=8
QE3275S2 LU  LOCADDR=9,PACING=(2,1)
QE3275S3 LU  LOCADDR=10,PACING=(2,1)

```

## IBM 3770 SWITCHED DEFINITION

```

*****
*
*          PU SPECIFICATION FOR  IBM 3770
*
*****
CL3770  PU      ADDR=C3,          PU ADDRESS = C (EBCDIC)      X
          PUTYPE=2,          DEFINE AS TYPE 2 PU              X
          MODETAB=RJEMODE,          X
          IDBLK=004,          IDENTIFICATION BLOCK            X
          IDNUM=03770,          IDENTIFICATION NUMBER          X
          MAXDATA=265,          MAXIMUM AMOUNT OF DATA        X
          MAXPATH=2,          2 PATHS                          X
          MAXOUT=7,          MAX PATH INFO UNITS BEFORE RES    X
          PASSLIM=7,          EQUAL TO MAXOUT                  X
          ISTATUS=INACTIVE,      ACTIVATE VIA OPERATOR        X
          PACING=(1,1),          X
          VPACING=(2,1),          X
          IRETRY=YES
*
* 1ST  PATH STATEMENT
*
*****
PATH03  PATH  GID=1,          X
          GRPNM=SDLCGP2,          NCP SWITCHED LINE GROUP(NCPRAL) X
          PID=2,          ID FOR THIS PU                        X
          DIALNO=84422215
*
* 2ND  PATH STATEMENT
*
*****
PATH03B PATH  GID=1,          X
          GRPNM=SDLCGP2,          NCP SWITCHED LINE GROUP(NCPRAL) X
          PID=3,          ID FOR THIS PU                        X
          DIALNO=19197552215
*
*          IBM 3770 REQUIRES ONE LU
*
*****
CL3770SU LU  LOCADDR=1,          X
          BATCH=YES          BATCH DEVICE

```

SWITCHED SNA DEFINITIONS

IBM 3767 SWITCHED DEFINITION

```
*****
*****
*****
*
*          PU SPECIFICATION FOR  IBM 3767
*
*****
*****
*****
SD3767  PU      ADDR=C2,          PU ADDRESS = B (EBCDIC)      X
          PUTYPE=1,          TERMINAL NODEX                  X
          MAXDATA=261,       MAXIMUM AMOUNT OF DATA        X
          IDBLK=007,         IDENTIFICATION BLOCK            X
          IDNUM=00000,       IDENTIFICATION NUMBER           X
          MAXOUT=1,         MAX PATH INFO UNITS BEFORE RES  X
          MAXPATH=0,        DIAL-IN ONLY                     X
          PASSLIM=1,        EQUAL TO MAXOUT                  X
          ISTATUS=INACTIVE,  ACTIVATE VIA OPERATOR           X
          PACING=(1,1),
          VPACING=(2,1),
          IRETRY=YES
*****
*
*          NO PATH STATEMENT IBM3767 DIAL-IN ONLY
*
*****
*
*          IBM 3767 REQUIRES ONE LU
*
*****
TR3767SD LU    LOCADDR=0,
               ISTATUS=ACTIVE,
               SSCPFM=USSSCS,
               MODETAB=ALL3767
*****
```

Notes- The VTAM System Programmer's Guide describes the definition of Switched SNA major nodes.



CHAPTER 9 : LOCAL DEVICE DEFINITIONSREFERENCES

DOS/VS VTAM System Programmers Guide	GC27-6957
DOS/VS VTAM Reference Summary	GX27-0033
ACF/VTAM System Programmers Guide (DOS)	SC38-0268
ACF/VTAM Installation Guide (DOS)	SC38-0270
ACF/VTAM Reference Summary (DOS)	SX27-3022
OS/VS1 VTAM System Programmer's Guide	GC27-6996
OS/VS VTAM Reference Summary	GX27-0034
OS/VS2 SVS VTAM System Programmer's Guide	GC27-0049
OS/VS2 VTAM System Programming Library:VTAM	GC28-0688
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Installation Guide	SC38-0269
ACF/VTAM Reference Summary	SX27-3021

LOCAL DEVICE DEFINITIONS

VBUILD MACRO SPECIFICATIONS - LOCAL 3274-1A

LHA3274A VBUILD SUBAREA=7,TYPE=LOCAL

IBM 3274-1A PU DEFINITION

LHA3274	PU	BUFLIM=10,		X
		CUADDR=4F0,	*** NOTE: Defined to OS as local 3791 ***	X
		DISCNT=NO,		X
		ISTATUS=INACTIVE,		X
		USSTAB=USST3270,		X
		MAXBFRU=15,		X
		MODETAB=MT3274A,		X
		PUTYPE=2,		X
		SSCPFM=USSCS,	*** NOTE: USSCS ***	X
		VPACING=0		

## LOCAL DEVICE DEFINITIONS

### IBM 3274-1A LU DEFINITION

LHAPA01	LU	LOCADDR=2, ISTATUS=ACTIVE	*** NOTE: LOCADDR=2 ***
LHAPA02	LU	LOCADDR=3, ISTATUS=ACTIVE	
LHAPA03	LU	LOCADDR=4, ISTATUS=ACTIVE	
LHAPA04	LU	LOCADDR=5, ISTATUS=ACTIVE	
LHAPA05	LU	LOCADDR=6, ISTATUS=ACTIVE	
LHAPA06	LU	LOCADDR=7, ISTATUS=ACTIVE	
LHAPA07	LU	LOCADDR=8, ISTATUS=ACTIVE	
LHAPA08	LU	LOCADDR=9, ISTATUS=ACTIVE	
LHAPB01	LU	LOCADDR=10, ISTATUS=ACTIVE	
LHAPB02	LU	LOCADDR=11, ISTATUS=ACTIVE	
LHAPB03	LU	LOCADDR=12, ISTATUS=ACTIVE	
LHAPB04	LU	LOCADDR=13, ISTATUS=ACTIVE	

Notes- The VTAM System Programmer's Guide describes the definition of Local SNA major nodes.

LOCAL DEVICE DEFINITIONS

LOCAL(3270) TERMINAL DEFINITION (VTAM)

```
*****
*
* LOCAL 3270 TERMINAL DEFINITION
*
*****
LOC11 LBUILD SUBAREA=5 SHOULD BE BETWEEN 2 AND VALUE OF MAXSUBA
*****
*
* LOCAL OPERAND OPTIONS ARE AS FOLLOWS:
*
* CUADDR=ADDRESS, CHANNEL ADDRESS
* TERM=3277|3284|3286, TERMINAL TYPE
* BUFLIM=N|2, READ AHEAD BUFFERS
* FEATURE2=(MODEL1|MODEL2, MODEL NUMBER
* ANKEY|NOANKEY, ALPHANUMERIC KEYBOARD
* DEKEY|NODEKEY, DATA-ENTRY KEYBOARD
* PFK|NOPFK, PROGRAM FUNCTION KEYS
* SELPEN|NOSELPEN), SELECTOR PEN
* ISTATUS=ACTIVE|INACTIVE, INITIAL VTAM STATUS
* LOGAPPL=NAME, NAME OF APPLICATION PROGRAM IF
* AUTO LOG ON WHEN TERMINAL
* IS MADE ACTIVE BY VTAM.
* LOGTAB=NAME NAME OF LOGON TABLE
*
*****
LOC20 LOCAL CUADDR=020,TERM=3277,FEATUR2=(MODEL2,ANKEY,PFK), X
LOGTAB=TABLE01,LOGAPPL=NETSOL
LOC21 LOCAL CUADDR=021,TERM=3277,FEATUR2=(MODEL2,ANKEY), X
ISTATUS=INACTIVE
LOC23 LOCAL CUADDR=023,TERM=3277,FEATUR2=(MODEL2,ANKEY)
LOC24 LOCAL CUADDR=024,TERM=3286
```

NOTES- Chapter 3 of the VTAM System Programmer's Guide describes the definition and filing of local terminals. This example will allow cause VTAM to 'LOG' LOC20 on to the 'NETSOL' when 'NETSOL' is started.

LOCAL DEVICE DEFINITIONS

LOCAL SNA(3790) DEFINITION(VTAM)

```

*****
*
* LOCAL 3790 TERMINAL DEFINITION
*
*****
LOCAL      VBUILD TYPE=LOCAL,          LOCAL MAJOR NODE          = X
           SUBAREA=7,                  SUBAREA ADDRESS          ++
LC3790    PU      ISTATUS=INACTIVE,    ACTIVATE VIA OPERATOR    $$  ++ X
           MAXBFRU=14,                  NO. OF BUFFERS NEEDED FOR READ  ++ X
           CUADDR=010,                  3790 ADDRESS              X
           DISCNT=NO                      HOLD CONN AFTER END OF LU SESS  ++
INCL3790  LU      LOCADDR=1,            IN REQ'D FOR 1ST LU FOR SSS    $$  = X
           ISTATUS=ACTIVE,              ACTIVATE WITH PU           ++ X
           VPACING=(1,1)                 AVOID BUFFER FLOODING 3790     +
PGM3      LU      LOCADDR=2,            INTERACT LU USED FOR APPL     $$  = X
           ISTATUS=ACTIVE,              ACTIVATE WITH PU           ++ X
           BUFLIM=4,                      X
           VPACING=(1,1)                 AVOID BUFFER FLOODING 3790     +

```

NOTES- Chapter 3 of the DOS/VS VTAM System Programmer's Guide describes the definition and filing of local SNA terminals. Local terminals do not have to be on the same control unit to be defined in a local major node. If the local terminals do not exist, it is better not to put them in the VTAM definition as VTAM tables are created for each defined terminal.

LOCAL DEVICE DEFINITIONS

ACF/VTAM LOCAL 3277 TERMINAL DEFINITION

```
*****
*
* LOCAL 3270 TERMINAL DEFINITION
*
*****
      LBUILD SUBAREA=8
*****
*
* LOCAL OPERAND OPTIONS ARE AS FOLLOWS:
*
*      CUADDR=ADDRESS,      CHANNEL ADDRESS
*      TERM=3277|3284|3286,  TERMINAL TYPE
*      BUFLIM=N|2,          READ AHEAD BUFFERS,
*      FEATURE2=(MODEL1|MODEL2, MODEL NUMBER
*      ANKEY|NOANKEY,       ALPHANIMERIC KEYBOARD
*      DEKEY|NODEKEY,       DATA-ENTRY KEYBOARD
*      PFK|NOPFK,           PROGRAM FUNCTION KEYS
*      SELPEN|NOSELPEN),    SELECTOR PEN
*      ISTATUS=ACTIVE|INACTIVE, INITIAL VTAM STATUS
*      LOGAPPL=NAME,        NAME OF APPLICATION PROGRAM IF
*                          AUTO LOG ON WHEN TERMINAL
*                          IS MADE ACTIVE BY VTAM.
*      DLOGMODE=S3270,     DEFAULT MODETAB ENTRY
*      LOGTAB=NAME         NAME OF LOGON TABLE
*
*****
LU4C0 LOCAL CUADDR=4C0,TERM=3277,DLOGMOD=S3270,
      FEATUR2=(MODEL2,ANKEY,PFK),ISTATUS=ACTIVE,
      LOGAPPL=NETSOL,LOGTAB=TABLE01
LU4C1 LOCAL CUADDR=4C1,TERM=3277,DLOGMOD=S3270,
      FEATUR2=(MODEL2,ANKEY,PFK),ISTATUS=ACTIVE,
      LOGAPPL=NETSOL,LOGTAB=TABLE01
LU4C2 LOCAL CUADDR=4C2,TERM=3277,DLOGMOD=S3270,
      FEATUR2=(MODEL2,ANKEY,PFK),ISTATUS=ACTIVE,
      LOGAPPL=NETSOL,LOGTAB=TABLE01
LU4C3 LOCAL CUADDR=4C3,TERM=3277,DLOGMOD=S3270,
      FEATUR2=(MODEL2,ANKEY,PFK),ISTATUS=ACTIVE,
      LOGAPPL=NETSOL,LOGTAB=TABLE01
LU4C4 LOCAL CUADDR=4C4,TERM=3277,DLOGMOD=S3270,
      FEATUR2=(MODEL2,ANKEY,PFK),ISTATUS=ACTIVE,
      LOGAPPL=NETSOL,LOGTAB=TABLE01
LU4C5 LOCAL CUADDR=4C5,TERM=3277,DLOGMOD=S3270,
      FEATUR2=(MODEL2,ANKEY,PFK),ISTATUS=ACTIVE,
      LOGAPPL=NETSOL,LOGTAB=TABLE01
```

CHAPTER 10 : MSNF NETWORK DEFINITIONS

The following definitions are samples used to define a Multidomain operation that allows communication between ACF/VTAM on an MVS system with either ACF/TCAM on a MVS system or ACF/VTAM on a DOS system. The cross domain path between the domains is via a multi-tailed 3705. The sample ACF/TCAM MCP in Chapter 6 contains the MSNF definitions for ACF/VTAM from the ACF/TCAM end.

Each VTAM node in the network which wants to become an owner of a certain NCP must provide that VTAM node with access to the NCP generation Stage I input source. (Access method sends an Activate Physical to NCP to become an owner) The Resource Resolution Table (RRT) produced by Stage II of the NCP generation must also be provided to the host access method node (VTAM and TCAM). The NCP load modules must be provided to any host access method which will load the 3705. Installation planning should consider how these files will be provided to the necessary locations. This is especially important when host CPU's are in multiple geographic locations.

REFERENCES

ACF/VTAM System Programmers Guide (DOS)	SC38-0268
ACF/VTAM Installation Guide (DOS)	SC38-0270
ACF/VTAM Reference Summary (DOS)	SX27-3022
ACF/VTAM System Programmers Guide	SC38-0258
ACF/VTAM Network Operating Procedures	SC38-0259
ACF/VTAM Installation Guide	SC38-0269
ACF/VTAM Reference Summary	SX27-3021
ACF/TCAM General Information	GC30-2050
ACF/TCAM Concepts and Planning	GC30-3049
ACF/TCAM System Programmer's Guide	SC30-3117
ACF/TCAM Macro Reference Guide	SC30-3118
ACF/TCAM Application Programmer's Guide	SC30-3119
ACF/TCAM Installation and Migration Guide	SC30-3121
ACF/TCAM Operator's Guide	SC30-3123
ACF/TCAM MSNF Program Reference Summary Supplement	LD21-0003
ACF/TCAM Program Reference Summary	LY30-3037

MSNF NETWORK DEFINITIONS

10.1 : NETWORK DEFINITIONS (AUTO-STARTED)

VTAM STARTUP CONFIGURATION DEFINITION

IMSAPAC, TSOAPAC, CICSAPAC, JESAPAC, NOSP, DSXAPPL, X  
SWITCHAC, LOC3272, NCPACFI, LHA3274A, X  
CDRPATH, CDRMLIST, CAPLSDOS, CAPLSTCM

The following ACF/VTAM definitions are started at start-up time.

VBUILD MACRO SPECIFICATIONS - CDRM: CDRMLIST (MVS SYSTEM)

CDRMLIST VBUILD TYPE=CDRM  
MVSVTAM CDRM SUBAREA=18, ELEMENT=1, ISTATUS=INACTIVE  
MVSVMVT CDRM SUBAREA=13, ELEMENT=1, ISTATUS=ACTIVE, VPACING=2  
MVSVMTC CDRM SUBAREA=14, ELEMENT=0, ISTATUS=ACTIVE, VPACING=2  
VS1VTAM CDRM SUBAREA=11, ELEMENT=1, ISTATUS=INACTIVE  
DOSVTAM CDRM SUBAREA=12, ELEMENT=1, ISTATUS=ACTIVE, VPACING=2

VBUILD MACRO SPECIFICATIONS - CDR PATHS: CDRPATH (MVS SYSTEM)

MVSVMTC PATH ADJSUB=21, DESTSUB=(14)  
MVSVTAM PATH ADJSUB=22, DESTSUB=(18)  
VS1VTAM PATH ADJSUB=22, DESTSUB=(11)  
DOSVTAM PATH ADJSUB=21, DESTSUB=(12)

VBUILD MACRO SPECIFICATIONS - CDRSC: CAPLSDOS (DOS APPLICATION)

CAPLSDOS VBUILD TYPE=CDRSC  
POWER CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
CICSA CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
CICSB CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE



NOSPD CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 NOSPD000 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 NOSPD001 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 NOSPD002 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 NOSPD003 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 NOSPD004 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 NOSPD005 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE

VBUILD MACRO SPECIFICATIONS - CDRSC: CAPLSTCM (TCAM APPLICATIONS)

CAPLSTCM VBUILD TYPE=CDRSC  
 NDSMH CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
 MHS3270 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
 TSOMH CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE

10.2 : NETWORK DEFINITIONS (ACTIVATED AS REQUIRED)

The following definitions are activated as required.

VBUILD MACRO SPECIFICATIONS - CDRSC: C3270DOS (DOS OWNED 3270)

C3270DOS VBUILD TYPE=CDRSC  
 LU3270V0 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V1 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V2 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V3 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V4 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V5 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V6 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
 LU3270V7 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE

VBUILD MACRO SPECIFICATIONS - CDRSC: C3270TCM (TCAM OWNED 3270)

C3270TCM VBUILD TYPE=CDRSC  
 LU3270V0 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE

MSNF NETWORK DEFINITIONS

LU3270V1 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
LU3270V2 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
LU3270V3 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
LU3270V4 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
LU3270V5 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
LU3270V6 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
LU3270V7 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE

VBUILD MACRO SPECIFICATIONS - CDRSC: C3274DOS (DOS OWNED 3274)

C3274DOS VBUILD TYPE=CDRSC  
SDLCPA01 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA02 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA03 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA04 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA05 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA06 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA07 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE  
SDLCPA08 CDRSC CDRM=DOSVTAM, ISTATUS=ACTIVE

VBUILD MACRO SPECIFICATIONS - CDRSC: C3274TCM (TCAM OWNED 3274)

C3274TCM VBUILD TYPE=CDRSC  
SDLCPA01 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA02 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA03 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA04 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA05 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA06 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA07 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE  
SDLCPA08 CDRSC CDRM=MVSVMTTC, ISTATUS=ACTIVE

CHAPTER 11 : NOSP INSTALLATION

## NOSP INSTALLATION PRE-PLANNING

The following procedures should be done prior to the actual coding of the Network Operation Support Program (NOSP) definition statements.

1. Pictorially define the entire network as defined by the ACF/VTAM and ACF/NCP programs. This definition should initially be done assuming that there will be only one NOSP operator who will have all and complete authorization for the control of the network. However, since in most uses of NOSP there will be multiple NOSP operators each of whom will control different and sometimes overlapping parts of the network, the initial definition should be designed for the future and actual operation. In other words, plan for at least one operator that can control the entire network, and additional operators that have limited spans of control.

Terminals that may be NOSP operator stations must be defined ahead of time. Likewise, NOSP hardcopy terminals must be predefined. Part of the network definition must be to determine which LU's will be used as operator stations and hardcopy printers and what their various spans of control will be.

The people involved in the definition of the control of the network should include ACF/VTAM systems programmers as well as Operations personnel. This will insure that the operational aspects are thorough as well as practical. After all, it will be the Operations staff who will be using the product.

2. After the pictorial definition is complete, coding of the initial and single NOSP operator concept should take into consideration the future spans which will be assigned to other NOSP operators. By using this coding approach you will avoid having to recode the NOSP definition for the final configuration.
3. NOSP only requires the "SPAN" parameter if specific profiles are used. If you intend to have all global operators then omit the "SPAN" parameter. CAUTION: If you intend to run NOSP in a multidomain environment then omit the "SPAN" parameter. (See the example for coding RRD statements.)

## NOSP INSTALLATION

If specific profiles are used then NOSP requires that the 'SPAN' parameter be coded in the ACF/VTAM definition program, it would be judicious to plan for the inclusion of NOSP as early as possible. ACF/NCP and NCP/VS (5.0) will both ignore this parameter, thus it can be coded even before NOSP is installed. The only thing that might cause a recoding of the 'spanname' is that the network control definition is not complete at the time of the network definition. But since this is a VTAM parameter, it takes effect at VTAM initialization and can be easily changed. CAUTION: Always place spanname in parenthesis. eg SPAN=(spanname).

4. The various NOSP definitions are stored as several individual members in the NOSP data sets as opposed to, say, VTAM which has a single member for the definition of the network which is running at the time. Thus in order to ease your definition of the NOSP members, define one span of control at a time (as shown by your pictorial configuration).
5. To ease and confine the extent of the NOSP testing, bring up a single NOSP definition which controls the entire network. This test will check that the NOSP program and commands are working. As mentioned previously you will probably want to keep at least one operator in your final definition that has this global authority.
6. The next level of testing should be to define another NOSP operator in this single NOSP environment. This is done by adding another set of OPERATOR and PROFILE definitions to the NOSP definition. Keep the original (and completely authorized) operator definition intact. You will always want to have one operator who has the authority to control all of the network. After this definition is complete, then bring up and test all of the commands and extents of this operator's control in the network.

Continue doing this step as many times as there are NOSP operators to be defined in this NOSP definition. However, be sure to do this for only one operator at a time to assure that the testing is complete and controllable.

7. After the complete single NOSP definition is completely tested and is operational the way desired, and if there is to be more than one domain in the network, then start the NOSP definition for the next domain. Again, you want to step through the NOSP definition and testing one step at a time.
8. When two (or more) NOSP domain definitions are complete and working individually as desired, then test them together. Again, if there are other domains to be included, bring them on one at a time.

NOSP DOCUMENTATION

NOSP General Information	GC38-0251
NOSP Program Product Specifications	GC38-0277
NOSP Program Information and Maintenance Manual	SC38-0278
NOSP Operator's Manual	SC38-0281
NOSP Logic	LY27-8026

NOSP INSTALLATION STEPS

1. Install NOSP distribution tape and apply necessary PTF's.
2. Code and file NOSP definition statements. These statements may be filed as members in the ACF/VTAM definition library (SYS1.VTAMLST), or may be put into any partitioned data set. The following members are defined and filed:

MEMBER	CONTENTS
a. DSIOPF	OPERATOR and PROFILEN statements to define all operators, their passwords, and point to their profiles. (See example 1).
b. User defined profile name	PROFILE, ISPAN, SPAN, DOMAINS, and AUTH statements to define the operator's span of control. (See example 2).
c. DSISPN	SPANLIST which associates spans and major nodes. Defer this member until you need operators with specific profiles. Be sure to specify all defined profile names as valid for the master terminal operator or Systems Programmer. NOSP may be checked out with one operator by logging on with different profiles. OPERATOR PROFILEN prof1,prof2,...(prof1 is the default)
d. DSIDMN	NOSPID, POS, HARDCOPY, RRD, CDMNSESS, MAXSPAN, MAXABEND, and MAXLOGON which specify system information for NOSP as a whole, rather than a particular operator. (See example 3). MAXABEND should be a low number 2 or 3. This

## NOSP INSTALLATION

number determines when NOSP will place a device in ERROR status. If a device is NOT in error status, (ie. MAXABEND has not been reached) then the MOVE command will not work. MAXLOGON should be about 2 or 3. When this number is reached because of incorrect information on the logon screen, NOSP issues CLSDST RELEASE.

e. DSICMD            CMDMDL and PARMSYN which define all valid commands, including standard VTAM commands, that may be entered from a NOSP terminal. These statements may point to command lists or command processors. (See example 4).

f. User command    Command list(s). (See example 5).  
                    list name(s)

3. Create NOSP start procedure using a dataset for disk logging of all messages if desired. (See example 6).
4. Code, assemble, and linkedit any desired command processors and/or user exits. Defer this step until you are sure you need them. Once an exit is there it cannot be disabled.
5. Add NOSP APPL statements to current APPL major node or create a new major node and include it in the configuration list (ATCCONxx). (See example 7).
6. Modify logon mode tables. NOSP requires a mode table ENTRY of DSILGMOD for its bind. Therefore, each terminal type that uses NOSP must have a separate logon mode table with a DSILGMOD entry in it. (See example 8).
7. Update USS tables and logon intrepert tables as necessary for NOSP logon. (See examples 9 and 10).
8. Create procedure for printing a hard copy of NOSP's disk log. (See example 11).

## NOSP OPERATIONAL CONSIDERATIONS

1. VTAM messages will no longer go to the system console, they will go to the NOSP operator and the hard copy log. System operators will no longer be aware of many network problems, for example, line and modem problems. This, of course, is the intention of NOSP but it will require some operational changes that must be planned for. In addition it will require good communication between the system operators and the NOSP operators.
2. PFK's can be used for standard commands but cannot be used to point to a CLIST since a member name beginning with a numeric is not allowed by the Operating System. This may be handled by an exit routine (DSIEX01) which converts PFK input to something that begins with an alpha character, eg. convert 1 to P1, 2 to P2, etc. Then the member that DSICCP reads and executes will be P1, P2, etc.
3. Since NOSP operator terminals and hardcopy log must be predefined to NOSP by their LU name, some consideration should be given to a backup plan. If a NOSP terminal is unavailable for some reason (terminal problem, line problem, etc.) it would be ideal to have a backup terminal already defined. In this case the operator could move to the backup terminal, sign on and resume operation. In the case of a hardcopy log, the START and STOP commands may be used to change to a backup printer.
4. It is probably advisable to have at least one local NOSP operator station. In the case that the NCP becomes unavailable, it will be valuable to have a local operator who will be notified and take any recovery action necessary.
5. To terminate NOSP, any NOSP operator or the system operator can request a CLOSE. If a CLOSE IMMED is requested, NOSP abends and is terminated immediately. If entered without IMMED (the usual method of termination), each terminal will be sent a message that termination has been requested. Before termination occurs, all operators must logoff. The hardcopy terminal will be automatically logged off when the last operator using it logs off.
6. You MUST code FEATUR2=(MODEL2) on ALL 3270 definitions. Default is model 1 and NOSP does not support this terminal type. (The ACF/VTAM Systems Programmer's Guide left out the defaults.)
7. For NOSP in multiple domains you must have a BIND image and CDRSC definitions.
  - a. Here is the logmode entry for NOSP-to-NOSP sessions. Either same domain or X-domain.

## NOSP INSTALLATION

```
NOSPXDOM MODETAB
DSILGMOD MODEENT LOGMODE=DSILGMOD,FMPROF=X'03',TSPROF=X'03',      *
                    PRIPROT=X'20',SECPROT=X'20',COMPROT=X'4000',    *
                    PSERVIC=X'000000000000000000000000000000',RUSIZES=X'86A3'
MODEEND
END
```

b. Here is the CDRSC definition if NOSP were cross-domain to NOSPI

```
./ ADD NAME=NOSP2MJX
CDNOSP2 VBUILD TYPE=CDRSC
NOSPD      CDRSC CDRM=DOSVTAM,ISTATUS=ACTIVE
NOSPD000   CDRSC CDRM=DOSVTAM,ISTATUS=ACTIVE
NOSPD001   CDRSC CDRM=DOSVTAM,ISTATUS=ACTIVE
NOSPD002   CDRSC CDRM=DOSVTAM,ISTATUS=ACTIVE
NOSPD003   CDRSC CDRM=DOSVTAM,ISTATUS=ACTIVE
NOSPD004   CDRSC CDRM=DOSVTAM,ISTATUS=ACTIVE
```

8. For an operator with a specific profile to go cross domain you MUST code DOMAINS statement(s) in the PROFILE.
9. Do not use span of control initially. BE VERY CAREFUL about attempting to use span of control along with RRD statements in a multidomain environment. If you are planning to install NOSP in a single domain first then go to multiple domains DO NOT USE SPECIFIC profiles and RRD statements at all. You must CLEARLY understand the NOSP tables before undertaking such an environment.



## SPECIAL NOSP INSTALLATION CONSIDERATIONS

Five things must be done in order to implement SPECIFIC profiles and span of control.

1. You must code MAXSPAN in the DSIDMN member otherwise NOSP will not read the DSISPN member. This number should be a multiple of 8 and MUST be greater than or equal to the number of unique span names. If you don't do this NOSP will not initialize.
2. You must code ISPAN and/or SPAN statements in the PROFILE.
3. You must code AUTH CTL=SPECIFIC or let it default.
4. You must place SPANLIST statements in member DSISPN which point to the VTAM major node name. Failure to find a major node in VTAMLST will terminate NOSP initialization.
5. You must code SPAN= on EVERY resource in EVERY node which you want to be placed under control of an operator using a specific profile. NOTE: These five steps will cause the ART to be built in memory. It is sorted alphabetically after the names are read from VTAMLST. Duplicate names are merged into a single entry. If you leave off SPAN= from any node name (LINE, PU, or LU) then NOSP will not place the name in the ART. If a name is not in the ART then an operator using a specific profile can NEVER reference the resource.

# NOSP INSTALLATION

## NOSP INSTALLATION EXAMPLES

```
*****
** These examples define a single domain environment with two NOSP
** operators, both with global authority, and a hardcopy log.
*****
```

```
*****
```

### 1. DSIOPF Example

```
*****
```

```
./ ADD NAME=DSIOPF
OPER1  OPERATOR PASSWORD=AAA
        PROFILEN PROF1
OPER2  OPERATOR PASSWORD=BBB
        PROFILEN PROF1
        END
```

```
*****
```

### 2. PROF1- Example of profile pointed to by PROFILEN of DSIOPF

```
*****
```

```
./ ADD NAME=PROF1
PROF1  PROFILE HCL=LU3270V0
        AUTH CTL=GLOBAL,MSGRECVR=YES
        END
```

```
*****
```

### 3. DSIDMN Example

```
*****
```

```
./ ADD NAME=DSIDMN
D1     NOSPID DOMAINID=NOSP1
        POS     LU4C3,SDLCPA01,LU3270V3,LHAPA03,LU4D7
        HARDCOPY LU3270V0
NOSPD  RRD     DUMMY (Defines NOSPD to NOSP1 for global Operators)
        MAXABEND 3
        MAXLOGON 3
        END
```

### 4. DSICMD Example:

This member includes all standard NOSP and VTAM commands. It also has four user defined command lists. A clist definition must have MOD=DSICCP coded. Whenever a clist name is found the module DSICCP is invoked. This module processes all clists.

NOTE: Be sure to code ALL immediate commands as shown.

```
./ ADD NAME=DSICMD
*****
*           IMMEDIATE COMMANDS           *
```

```

*****
AUTO      CMDMDL MOD=DSIAWP,TYPE=I
AUTOWRAP  CMDMDL MOD=DSIAWP,TYPE=I
CANCEL    CMDMDL MOD=DSICAP,TYPE=I
CLOSE     CMDMDL MOD=DSICLP,TYPE=I
GO        CMDMDL MOD=DSIGOP,TYPE=I
RESET     CMDMDL MOD=DSIRSP,TYPE=I
CLEAR     CMDMDL MOD=DSICKP,TYPE=B
*   The above command name allows the word "CLEAR" to appear in
*   command lists to force a clear screen when desired.
*****
*   These three special symbols must be defined or the
*   associated key will not work at all!!!
'         CMDMDL MOD=DSINDP,TYPE=I,CTL=S  ENTER KEY W/ODATA (X'7D') QUOTE
_         CMDMDL MOD=DSICKP,TYPE=I,CTL=S  CLEAR KEY (X'6D') UNDERSCORE
>        CMDMDL MOD=DSINDP,TYPE=I,CTL=S  PA2  KEY W/ODATA (X'7D') QUOTE
*****
*   REGULAR COMMANDS *
*****
AGAIN     CMDMDL MOD=DSIAGAIN
* SHORT FORM OF LIST COMMAND
L         CMDMDL MOD=DSISHP
          PARMSYN CLIST,CL
          PARMSYN PROFILE,PR
          PARMSYN SPAN,SP
          PARMSYN STATUS,ST
          PARMSYN TASKS,TAS
          PARMSYN SPANS,SPA
          PARMSYN PROFILES,PRO
LIST     CMDMDL MOD=DSISHP
          PARMSYN CLIST,CL
          PARMSYN PROFILE,PR
          PARMSYN SPAN,SP
          PARMSYN STATUS,ST
          PARMSYN TASKS,TAS
          PARMSYN SPANS,SPA
          PARMSYN PROFILES,PRO
LOG      CMDMDL MOD=DSIENP
LOGOFF   CMDMDL MOD=DSIENP
MOVE     CMDMDL MOD=DSISWP
MSG      CMDMDL MOD=DSIMGP
PAUSE    CMDMDL MOD=DSIPSP
ROUTE    CMDMDL MOD=DSIRTP
RO       CMDMDL MOD=DSIRTP
START    CMDMDL MOD=DSISRP
          PARMSYN HCL,HC
          PARMSYN DOMAIN,DO
          PARMSYN TERM,TE

```

NOSP INSTALLATION

```

          PARMSYN SPAN,SP
          PARMSYN RESOURCE,RE
* SHORT FORM OF START COMMAND
S          CMDMDL MOD=DSISRP
          PARMSYN HCL,HC
          PARMSYN DOMAIN,DO
          PARMSYN TERM,TE
          PARMSYN SPAN,SP
          PARMSYN RESOURCE,RE
STOP      CMDMDL MOD=DSISTP
          PARMSYN HCL,HC
          PARMSYN DOMAIN,DO
          PARMSYN TERM,TE
          PARMSYN SPAN,SP
          PARMSYN RESOURCE,RE
* SHORT FORM OF STOP COMMAND
P          CMDMDL MOD=DSISTP
          PARMSYN HCL,HC
          PARMSYN DOMAIN,DO
          PARMSYN TERM,TE
          PARMSYN SPAN,SP
          PARMSYN RESOURCE,RE

```

```

*****
*          VTAM COMMANDS                                     *
*****

```

```

D          CMDMDL MOD=DSIVTP
DISPLAY   CMDMDL MOD=DSIVTP
F          CMDMDL MOD=DSIVTP
MODIFY    CMDMDL MOD=DSIVTP
R          CMDMDL MOD=DSIREP
REPLY     CMDMDL MOD=DSIREP
V          CMDMDL MOD=DSIVTP
VARY      CMDMDL MOD=DSIVTP

```

```

*****

```

```

* YOUR COMMAND LIST NAMES GO HERE
* THE MODULE NAME MUST BE DSICCP
* NAME      CMDMDL MOD=DSICCP

```

```

*****

```

```

ACT        CMDMDL MOD=DSICCP
INACT      CMDMDL MOD=DSICCP
TRACE      CMDMDL MOD=DSICCP
NOTRACE    CMDMDL MOD=DSICCP
END

```

5. Command Lists

\*\*\*CLIST to vary active: ACT

```

./ ADD NAME=ACT
VARY NET,ACT,ID=&1
*****

***CLIST to vary inactive: INACT

./ ADD NAME=INACT
VARY NET,INACT,ID=&1,&2

*****

***CLIST to start io and buffer trace: TRACE

./ ADD NAME=TRACE
F NET,TRACE,ID=&1,TYPE=IO
F NET,TRACE,ID=&1,TYPE=BUF

*****

***CLIST to stop io and buffer trace: NOTRACE

./ ADD NAME=NOTRACE
F NET,NOTRACE,ID=&1,TYPE=IO
F NET,NOTRACE,ID=&1,TYPE=BUF

```

6. NOSP start procedure

```

*****
***The first step of the procedure is to delete the NOSP disk log
***since it will be used again. The NOSP program is linked under
***the name DSIMNT. All the NOSP definition members are filed in
***a PDS named NOSP.CMND.LIST.
*****
//NOSP JOB
//ACFNOS1 EXEC PGM=IEFBR14,REGION=512K
//DD1 DD DSN=NOSPLOG,DISP=(OLD,DELETE,DELETE),VOL=SER=nnnnnn,
// UNIT=3340
//STEP2 EXEC PGM=DSIMNT,TIME=1440,REGION=1024K
//SYSPRINT DD SYSOUT=A
//SYSUDUMP DD SYSOUT=A
//DSICLD DD DSN=NOSP.CMND.LIST,DISP=SHR
//DSIPARM DD DSN=NOSP.CMND.LIST,DISP=SHR
//DSIVTAM DD DSN=SYS1.VTAMLST,DISP=SHR
//DSIPRF DD DSN=NOSP.CMND.LIST,DISP=SHR
//DSILOG DD DSN=NOSPLOG,VOL=SER=nnnnnn,SPACE=(CYL,(2,1)),

```

## NOSP INSTALLATION

```
// DCB=(LRECL=344,BLKSIZE=900,RECFM=VB,DSORG=PS),UNIT=3340,  
// DISP=(NEW,KEEP)
```

The PRINTLOG should be a step that prints the log or dumps it to tape. COND=EVEN should be coded, else if you forget to run the printlog then you will lose the data.

### 7. NOSP APPL statements

```
*****  
NOSP1 and NOSP1PPT are activated when NOSP is started. In addition,  
a subtask will be activated at startup for each hardcopy log  
specified in the HCL parameter of the PROFILE statement. The other  
subtasks will become active as operators sign on. This definition  
allows five operators and/or hardcopy logs to be active concurrently.  
*****  
HIAPPLS VBUILD TYPE=APPL  
NOSP1 APPL AUTH=(ACQ,PASS,NVPACE),PRTCT=NOSP1,EAS=1  
NOSP1PPT APPL AUTH=(PPO),EAS=1  
NOSP1000 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2  
NOSP1001 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2  
NOSP1002 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2  
NOSP1003 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2  
NOSP1004 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2
```

Note: EAS should be greater than or equal to the number of domains.

### 8. Logon Mode Table entry

```
*****  
* MODE TABLE FOR 3277 LOCAL OR REMOTE MOD 1/2 AND 11/12 FOR NOSP  
*****  
NOSP TAB MODETAB  
MODEENT LOGMODE=DSILGMOD, X  
FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71', X  
SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000', X  
PSERVIC=X'00000000000000000000200'  
MODEEND  
END
```

### 9. USS Table

```
*****  
*** This USS table entry allows the operator to sign on to NOSP by  
keying in NOSP. NOSP1 is the name on the first APPL statement.  
*****  
NOSP USSCMD CMD=NOSP,REP=LOGON,FORMAT=BAL
```

```
USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NOSP1
USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=DSILGMOD
USSPARM PARM=P1,REP=DATA
```

10. Logon Intrepet Table

```
*****
*** Make sure to put in both upper and lower case entry since NETSOL
    does not translate.
*****
LOGTAB  INTAB
        *
        *
        LOGCHAR APPLID=(APPLICID,NOSP1),SEQNCE='NOSP'
        LOGCHAR APPLID=(APPLICID,NOSP1),SEQNCE='nosp'
        *
        *
        ENDINTAB
        END
```

11. Procedure for printing disk log

```
*****
//NOSPRT EXEC PGM=DSIPRT
//DSILOG DD DSN=NOSPLOG,VOL=SER=nnnnnn,UNIT=3340,
// DCB=(LRECL=344,BLKSIZE=900,RECFM=VB,DSORG=PS),DISP=(OLD,KEEP)
//DSIINP DD DUMMY,DCB=(BLKSIZE=80)
//DSILST DD SYSOUT=A,DCB=(BLKSIZE=133)
//SYSPRINT DD SYSOUT=A
```

NOSP INSTALLATION

NOSP FLOW

This is a very brief overview of some NOSP processing logic. It is related to the above examples of a single domain system. This logic flow does not include all exit processing, does not include much of the communication with the system operator, does not include the handling of unsolicited messages from VTAM, nor does it include error processing. It is intended to help show how the various dataset members, CLISTS, user exits, and command processors are used during NOSP execution. AN \* beside a member or dataset name means they may be user defined.

\*\*\*\*\*

	INPUT USED	ACTIVITY
1. Start-up	Start-up proc	NOSP is started.
		The member DSICMD is read into main storage at init. time. All exits must be placed in the LINKLIB in the form DSIEXnn (nn=01 thru 14). These are loaded at init. time.
	(See example 6)	
	APPL statements (See example 7)	Activate NOSPL.  Activate NOSPLPPT.
	Profile statement (See example 2)	Activate 1 subtask for each hardcopy log (HCL) specified.
		Leave outstanding message for system operator to enter valid NOSP system operator command.
		Wait for logons (assuming no automatic logons).
2. Logon	USSTAB, MODETAB, LOG. INTREP. TABLE (See ex. 8-9-10)	Operator enters logon for NOSP.
		Nosp displays logon screen.
		Operator keys id and password.
	DSIOPF member of	NOSP validates id and password.



NOSP.CMND.LIST\*  
(See example 1)

APPL statements  
(See example 6)

NOSP opens ACB for this operator subtask (need APPL statement which will be activated).

PROFL\* member of  
NOSP.CMND.LIST\*

Acquire hardcopy log (HCL) for this operator if specified, or if already acquired on behalf of another operator, then begin sending traffic to the Hardcopy Task.

Display message to operator, send message to hardcopy log and disk log.

### 3. Command Execution

Operator enters command.

DSIEX01 member  
of LINKLIB\*

Execute user exit if present.

Validate command syntax.

DSICMD member of  
NOSP.CMND.LIST\*

Search for entry with label = the verb (eg. VARY).

Send message to operator that command was accepted, log request and NOSP response on hardcopy log and disk log. (Execute DSIEX02 and DSIEX04, if they exist).

If NOSP cannot find the command name in the System Command Table or if the name points to MOD=DSICCP and the CLIST is NOT on disk the same error message is produced.

DSIVTP, DSISRP,  
DSICCP, etc.  
members of  
LINKLIB\*

Execute code in member that is specified in MOD parameter of DSICMD entry. This may be a NOSP supplied member or a user written command processor.

### 4. Command Lists

This logic is used only when the MOD specified was DSICCP, which

## NOSP INSTALLATION

- must be the MOD for all command lists.
- ACT\*, TRACE\*, etc. members of NOSP.CMND.LIST\*
- DSICCP searches for 'member' with same name as this user-defined command verb (eg. ACT, TRACE).
- Command list is executed in sequence.
5. VTAM COMMANDS
- This logic is used only when the command is a standard VTAM command. When a VTAM command is entered then DSIVTP is the command processor which is invoked. If an operator is using a SPECIFIC profile than the SPAN is checked by this module.
- DSIEX05 member of LINKLIB\*
- Execute user written exit, if there.
- Send command to VTAM for execution and wait for response (SEND CMD and RECVCMD of VTAM'S programmed operator facility-POF).
- DSIEX06 member of LINKLIB\*
- Execute user written exit, if there.
6. Command Output
- DSIEX02 member of LINKLIB\*
- Execute user written exit, if there.
- If you delete a message in DSIEX02 then it will not be logged on the disk or HARDCOPY.
- Send response to command to operator.
- DSIEX04 member of LINKLIB\*
- Execute user written exit if there.
- Log response on hardcopy log.
- Log response on disk log.
- Return to Command Execution (#3).
7. Logoff
- Operator enters LOGOFF.

DSIEX14 member  
of LINKLIB\*

Execute user written exit, if there.

Close ACB, subtask becomes inactive,  
terminate session with hardcopy log  
and deactivate its subtask if no other  
operators are using it.

Send message to operator, log on  
hardcopy and disk.

8. Terminating  
NOSP

NOSP or System operator enters CLOSE.

If CLOSE IMMED was entered, all  
subtasks will be deactivated without  
messages and NOSP will be ABENDED.

If just CLOSE was entered, a message  
is sent to each active operator and  
the system console. No more logons  
are accepted.

When the last operator has logged  
off, all ACB's will be closed and  
NOSP will be ended normally.

**NOSP INSTALLATION**

1. Connect the NOSP to the SNA product.

SNA APPLICATION INTERFACE (CICS)

CHAPTER 12 : SNA APPLICATION INTERFACES

This section contains sample generation or system definitions for some of the common SNA application programs.

SNA APPLICATION INTERFACE (CICS)

CICS/VS R1.4 TERMINAL CONTROL TABLE (DFHTCT)

```
*****
****
***      TCT FOR MVS A ISC SYSTEM      ***
****
*****
      DFHTCT TYPE=INITIAL,ACCMETH=(NONVTAM,VTAM),APPLID=CICSMA,      X
      RAMAX=256,RAMIN=0,RATIMES=8,RAPOOL=2,RESP=FME,SUFFIX=MA,X
      GMTEXT='YOU ARE CONNECTED TO MVS CICS A'
```

```
* * * * *
* * * * ENTRIES FOR BSC3770 (AS 2770) * * * *
* * * * *
      DFHTCT TYPE=SDSCI,DEVICE=2770,DSCNAME=P2770,BSCODE=EBCDIC
PLST770 DFTRMLST AUTOWLST,(C1C1F02D,37373737)
OLST770 DFTRMLST OPENLST,(8181112D)
      DFHTCT TYPE=LINE,ACCMETH=BTAM,TRMTYPE=2770,DSCNAME=P2770,      *
      BTAMRLN=1,TCTUAL=20,INAREAL=517,      *
      FEATURE=(AUTOPOLL),LISTADR=(PLST770,WRAP),GENPOLL=YES,      *
      CLASS=(HARDCOPY,BISYNC,CONV)
PC74    DFHTCT TYPE=TERMINAL,TRMPRTY=100,TRMTYPE=2770,TRMIDNT=PC74,      *
      TIOAL=517,TRMSTAT=TRANSCEIVE,TCTUAL=20,LASTTRM=LINE,      *
      BUFFER=256,TRMADDR=OLST770
```

```
*****
***** THE FOLLOWING ENTRIES ARE FOR VTAM TERMINALS ONLY *****
*****
*
*****
*          ISC LINKS          *
*****
*
MVS      DFHTCT TYPE=ISLINK,ACCMETH=VTAM,SYSDNT=MVS,NETNAME=CICSMB,      X
      TRMIDNT=MVS,SESTYPE=SEND,CHNASSY=YES,      X
      RUSIZE=512,BUFFER=512,TIOAL=512,TRMSTAT=TRANSCEIVE
*
DOS      DFHTCT TYPE=ISLINK,ACCMETH=VTAM,SYSDNT=DOS,NETNAME=CICSDB,      X
      TRMIDNT=DOS,SESTYPE=SEND,CHNASSY=YES,      X
      RUSIZE=512,BUFFER=512,TIOAL=512,TRMSTAT=TRANSCEIVE
```

SNA APPLICATION INTERFACE (CICS)

CICS LOCAL 3272

```
*****  
*           LOCAL 3272           *  
*****
```

```
LOC0      DFHTCT TYPE=TERMINAL,TRMIDNT=LOC0,TRMTYPE=3277,TRMMODL=2,      X  
          ACCMETH=VTAM,TIOAL=1500,TRMSTAT=TRANSCIVE,                    X  
          NETNAME=LU4C0,RELREQ=(YES,YES),TCTUAL=20,                      X  
          BMSFEAT=NOROUTEALL,FEATURE=(DCKYBD),GMMSG=YES
```

CICS REMOTE 3271

```
*****  
*           REMOTE 3271          *  
*****
```

```
LUV0      DFHTCT TYPE=TERMINAL,TRMIDNT=LUV0,TRMTYPE=3277,TRMMODL=2,      X  
          ACCMETH=VTAM,TIOAL=1500,NETNAME=LU3270V0,GMMSG=YES,          X  
          TRMSTAT=TRANSCIVE,RELREQ=(YES,YES),TCTUAL=20,                X  
          FEATURE=(DCKYBD,SELCTPEN)
```

SNA APPLICATION INTERFACE (CICS)

CICS LOCAL 3274

```
*****  
* LOCAL 3274-1A *  
*****
```

```
LA01 DFHTCT TYPE=TERMINAL,TRMIDNT=LA01,TRMTYPE=LUTYPE2,TRMMODL=1, X  
      ACCMETH=VTAM,TIOAL=(1024,4096),NETNAME=LHAPA01, X  
      TRMSTAT=TRANSCIVE,RELREQ=(YES,YES),CONNECT=NO, X  
      FEATURE=(DCKYBD,SELCTPEN,AUDALARM,UCTRAN),GMMSG=YES, X  
      RUSIZE=1024,BRACKET=YES,PGESIZE=(12,40),BUFFER=1536, X  
      PRINTTO=LA07,ALTPRT=LA08,PGESTAT=PAGE,CHNASSY=YES, X  
      ALTPGE=(12,80),DEFSCRN=(12,40),ALTSCRN=(12,80)  
LA02 DFHTCT TYPE=TERMINAL,TRMIDNT=LA02,TRMTYPE=LUTYPE2,TRMMODL=2, X  
      ACCMETH=VTAM,TIOAL=(1024,4096),NETNAME=LHAPA02, X  
      TRMSTAT=TRANSCIVE,RELREQ=(YES,YES),CONNECT=NO, X  
      FEATURE=(DCKYBD,SELCTPEN,AUDALARM,UCTRAN),GMMSG=YES, X  
      RUSIZE=1024,BRACKET=YES,PGESIZE=(24,80),BUFFER=1536, X  
      PRINTTO=LA07,ALTPRT=LA08,PGESTAT=PAGE,CHNASSY=YES, X  
      ALTPGE=(43,80),DEFSCRN=(24,80),ALTSCRN=(43,80)  
LA07 DFHTCT TYPE=TERMINAL,TRMIDNT=LA07,TRMTYPE=LUTYPE3,TRMMODL=2, X  
      ACCMETH=VTAM,NETNAME=LHAPA07,BUFFER=1536, X  
      TRMSTAT=TRANSCIVE  
LA08 DFHTCT TYPE=TERMINAL,TRMIDNT=LA08,TRMTYPE=SCSPRT,TRMMODL=2, X  
      ACCMETH=VTAM,NETNAME=LHAPA08,BUFFER=1536, X  
      TRMSTAT=TRANSCIVE,HF=YES,VF=YES  
LB01 DFHTCT TYPE=TERMINAL,TRMIDNT=LB01,TRMTYPE=LUTYPE2,TRMMODL=2, X  
      ACCMETH=VTAM,TIOAL=(1024,4096),NETNAME=LHAPB01, X  
      TRMSTAT=TRANSCIVE,RELREQ=(YES,YES),CONNECT=NO, X  
      FEATURE=(DCKYBD,SELCTPEN,AUDALARM,UCTRAN),GMMSG=YES, X  
      RUSIZE=1024,BRACKET=YES,PGESIZE=(24,80),BUFFER=1536, X  
      PGESTAT=PAGE,CHNASSY=YES
```



CICS REMOTE 3274

\*\*\*\*\*  
 \* REMOTE 3274-1C \*  
 \*\*\*\*\*

PA01 DFHTCT TYPE=TERMINAL, TRMIDNT=PA01, TRMTYPE=LUTYPE2, TRMMODL=2, X  
 ACCMETH=VTAM, TIOAL=(1024,4096), NETNAME=SDLCPA01, X  
 TRMSTAT=TRANSCEIVE, RELREQ=(YES, YES), CONNECT=NO, X  
 FEATURE=(DCKYBD, SELCTPEN, AUDALARM, UCTRAN, PTRADAPT), X  
 BUFFER=0, RUSIZE=1024, BRACKET=YES, PGESIZE=(24,80), X  
 ALTPGE=(43,80), DEFSCRN=(24,80), ALTSCRN=(43,80), X  
 PGESTAT=PAGE, CHNASSY=YES, GMMSG=YES

PA07 DFHTCT TYPE=TERMINAL, TRMIDNT=PA07, TRMTYPE=LUTYPE3, TRMMODL=2, X  
 ACCMETH=VTAM, NETNAME=SDLCPA07, BUFFER=0, X  
 TRMSTAT=TRANSCEIVE

PA08 DFHTCT TYPE=TERMINAL, TRMIDNT=PA08, TRMTYPE=SCSPRT, TRMMODL=2, X  
 ACCMETH=VTAM, NETNAME=SDLCPA08, BUFFER=1024, X  
 TRMSTAT=TRANSCEIVE, HF=YES, VF=YES

PB01 DFHTCT TYPE=TERMINAL, TRMIDNT=PB01, TRMTYPE=LUTYPE2, TRMMODL=2, X  
 ACCMETH=VTAM, TIOAL=(1024,4096), NETNAME=SDLCPB01, X  
 TRMSTAT=TRANSCEIVE, RELREQ=(YES, YES), CONNECT=NO, X  
 FEATURE=(DCKYBD, SELCTPEN, AUDALARM, UCTRAN).GMMSG=YES, X  
 BUFFER=0, RUSIZE=1024, BRACKET=YES, PGESIZE=(24,80), X  
 PGESTAT=PAGE, CHNASSY=YES

\*\*\*\*\*  
 \* REMOTE 3276 \*  
 \*\*\*\*\*  
 \*

P761 DFHTCT TYPE=TERMINAL, TRMIDNT=P761, TRMTYPE=LUTYPE2, TRMMODL=2, X  
 ACCMETH=VTAM, TIOAL=(2048,4096), NETNAME=SDLC76P1, X  
 TRMSTAT=TRANSCEIVE, RELREQ=(YES, YES), CONNECT=NO, X  
 FEATURE=(DCKYBD, SELCTPEN, AUDALARM, UCTRAN, PTRADAPT), X  
 BUFFER=0, RUSIZE=2048, BRACKET=YES, PGESIZE=(24,80), X  
 ALTPGE=(24,80), DEFSCRN=(24,80), ALTSCRN=(24,80), X  
 PGESTAT=PAGE, CHNASSY=YES, GMMSG=YES

P767 DFHTCT TYPE=TERMINAL, TRMIDNT=P767, TRMTYPE=LUTYPE3, TRMMODL=2, X  
 ACCMETH=VTAM, NETNAME=SDLC76P7, BUFFER=0, X  
 TRMSTAT=TRANSCEIVE

P768 DFHTCT TYPE=TERMINAL, TRMIDNT=P768, TRMTYPE=SCSPRT, TRMMODL=2, X  
 ACCMETH=VTAM, NETNAME=SDLC76P8, BUFFER=1024, X  
 TRMSTAT=TRANSCEIVE, HF=YES, VF=YES

SNA APPLICATION INTERFACE (CICS)

CICS REMOTE 3767

```
*****  
*                               REMOTE 3767                               *  
*****
```

```
LU67V    DFHTCT TYPE=TERMINAL,TRMIDNT=LU67V,TRMTYPE=3767,           X  
          ACCMETH=VTAM,TIOAL=(256,768),NETNAME=TR3767V,           X  
          TRMSTAT=TRANSCIVE,RELREQ=(YES,YES),PGESTAT=PAGE,       X  
          PGESIZE=(12,80),BUFFER=256,BRACKET=YES,CHNASSY=YES
```

CICS REMOTE 3774

```

*****
*                               REMOTE 3774                               *
*****
    
```

```

LU71      DFHTCT TYPE=TERMINAL,TRMIDNT=LU71,TRMTYPE=BCHLU,                X
          ACCMETH=VTAM,TIOAL=(256,1024),RUSIZE=256,                      X
          TRMSTAT=TRANSCEIVE,RELREQ=(YES,YES),PGESTAT=PAGE,              X
          PGESIZE=(12,80),BUFFER=256,BRACKET=YES,CHNASSY=YES,           X
          NETNAME=P70LU1
LU72      DFHTCT TYPE=TERMINAL,TRMIDNT=LU72,TRMTYPE=LUTYPE2,            X
          ACCMETH=VTAM,TIOAL=(256,2048),RUSIZE=256,                      X
          TRMSTAT=TRANSCEIVE,RELREQ=(YES,YES),PGESTAT=PAGE,              X
          PGESIZE=(12,80),BUFFER=256,BRACKET=YES,CHNASSY=YES,           X
          NETNAME=P70LU2,GMMMSG=YES
LU73      DFHTCT TYPE=TERMINAL,TRMIDNT=LU73,TRMTYPE=3790,                X
          ACCMETH=VTAM,TIOAL=(256,1024),RUSIZE=256,                      X
          TRMSTAT=TRANSCEIVE,RELREQ=(YES,YES),PGESTAT=PAGE,              X
          PGESIZE=(12,80),BUFFER=256,BRACKET=YES,CHNASSY=YES,           X
          LASTTRM=VTAM,SESTYPE=USERPROG,NETNAME=P70LU3
          DFHTCT TYPE=FINAL
          END  DFHTCTBA
    
```

SNA APPLICATION INTERFACE (IMS)

IMS/VS NUCLEUS GENERATION

TITLE 'IMS/VS 1.1.5 FIELD TEST LEVEL \*\* IMS5 \*\*'

IMSCTRL SYSTEM=(VS/2,ALL,3.7), \*  
MAXIO=(50,20), \*  
MAXREGN=(5,256K), \*  
MAXCLAS=10, \*  
IMSID=IMS5, \*

\*\*\*\*\*

COMM RECANY=(6,3842), \*  
APPLID=IMS, \*  
SECCNT=3, \*  
OPTIONS=(NOPSWD, \*  
TERMINAL, \*  
PAGING, \*  
TIMESTAMP, \*  
4096, \*  
FMTMAST, \*  
NOUSEMSG, \*  
NOMSTEX, \*  
NOMSPEX, \*  
NOCIPH, \*  
VTAMAUTH, \*  
BLKREQD) \*

\*\*\*\*\*

IMSCTF SVCNO=(236,237,238), \*  
APNDG=(Z5), \*  
CPLOG=9000, \*  
CORE=(16,200,4,2), \*  
LOG=(SNGL,MONITOR), \*  
DYLOG=(3330,2043,4) \*

\*\*\*\*\*

SPAREA CORE=(3,4096),DASD=(15,6144)

\*\*\*\*\*

BUFPOOLS PSB=12000, \*  
PSBW=12000, \*  
DMB=12000, \*

SNA APPLICATION INTERFACE (IMS)

DBASE=20000, \*
GENERAL=20000, \*
FORMAT=10000, \*
COMM=30000, \*
FRE=50

\*\*\*\*\*

MSGQUEUE DSETS=(3330,3330,3330), \*
RECLNG=(192,2304), \*
BUFFERS=(50,2304), \*
SHUTDWN=10

TITLE 'DATABASE DEFINITIONS'

\*\*\*\*\*
\*\*\*\*\* DATABASES FOR DATA DICTIONARY \*\*\*\*\*
\*\*\*\*\*

DATABASE DBD=DDSPDTE
DATABASE DBD=DDSPSEG
DATABASE DBD=DDSPDBS
DATABASE DBD=DDSPPCB
DATABASE DBD=DDSPSYS

\*\*\*\*\*
\*\*\*\*\* DATABASES FOR IMS SAMPLE PROGRAM \*\*\*\*\*
\*\*\*\*\*

DATABASE DBD=DI21PART
TITLE 'TRANSACTION DEFINITIONS'

\*\*\*\*\*
\*\*\*\*\* DATABASES FOR IMS ADF AND HOTLINE SYSTEM \*\*\*\*\*
\*\*\*\*\*

DATABASE DBD=MFDPAR01
DATABASE DBD=MFDPSP01
DATABASE DBD=MFDPMS01
DATABASE DBD=HOTLDATA
DATABASE INDEX,DBD=HOTLINDX

\*\*\*\*\*
\*\*\*\*\* PSB'S AND TRANSACTIONS FOR DATA DICTIONARY \*\*\*\*\*
\*\*\*\*\*

APPLCTN PSB=DBDIMSOV,PGMTYPE=(TP,OVLY)
TRANSACTION CODE=DBDIMSOV,SPA=(2816,CORE,FIXED),MODE=SNGL

SNA APPLICATION INTERFACE (IMS)

```

APPLCTN PSB=DBDIMSD,PGMTYPE=(TP,OVLY)
  TRANSACT CODE=DBDIMSD,SPA=(2816,CORE,FIXED),MODE=SNGL
APPLCTN PSB=DBDIMSP,PGMTYPE=(TP,OVLY)
  TRANSACT CODE=DBDIMSP,SPA=(712,CORE,FIXED),MODE=SNGL
APPLCTN PSB=DBDIMSR,PGMTYPE=(TP,OVLY)
  TRANSACT CODE=DBDIMSR,SPA=(432,CORE,FIXED),MODE=SNGL
APPLCTN PSB=DBDIMSU,PGMTYPE=(TP,OVLY)
  TRANSACT CODE=DBDIMSU,SPA=(432,CORE,FIXED),MODE=SNGL
APPLCTN PSB=DBDIMSB,PGMTYPE=BATCH
  
```

```

*****
***** PSB'S AND TRANSACTIONS FOR IMS/VS SAMPLE PROBLEM *****
*****
  
```

```

APPLCTN RESIDENT,PSB=DFSSAM02, *
  PGMTYPE=(TP,,1)
TRANSACT CODE=PART, *
  PRTY=(7,10,2), *
  INQUIRY=YES, *
  MODE=SNGL
APPLCTN RESIDENT,PSB=DMSPART, FOR DMS/3770 *
  PGMTYPE=(TP,,1) COPY OF DFSSAM02
TRANSACT CODE=PARTDMS, MODIFIED FOR USE WITH *
  PRTY=(7,10,2), A DMS/3770 FP *
  SPA=(300,CORE)
APPLCTN RESIDENT,PSB=DFSSAM03, *
  PGMTYPE=(TP,,1)
TRANSACT CODE=DSPINV, *
  PRTY=(7,10,2), *
  INQUIRY=YES, *
  MODE=SNGL
APPLCTN RESIDENT,PSB=DFSSAM04, *
  PGMTYPE=(TP,,1)
TRANSACT CODE=ADDPART, *
  PRTY=(7,10,2), *
  INQUIRY=NO, *
  MODE=SNGL
TRANSACT CODE=ADDINV, *
  PRTY=(7,10,2), *
  INQUIRY=NO, *
  MODE=SNGL
TRANSACT CODE=DLETPART, *
  PRTY=(7,10,2), *
  INQUIRY=NO, *
  MODE=SNGL
  
```

TRANSACT CODE=DLETINV, \*
PRTY=(7,10,2), \*
INQUIRY=NO, \*
MODE=SNGL

APPLCTN RESIDENT,PSB=DFSSAM05, \*
PGMTYPE=(TP,,1)
TRANSACT CODE=CLOSE, \*
PRTY=(7,10,2), \*
INQUIRY=NO, \*
MODE=SNGL

APPLCTN RESIDENT,PSB=DFSSAM06, \*
PGMTYPE=(TP,,1)
TRANSACT CODE=DISBURSE, \*
PRTY=(7,10,2), \*
INQUIRY=NO, \*
MODE=SNGL

SPACE 3
APPLCTN RESIDENT,PSB=DFSSAM07, \*
PGMTYPE=(TP,,1)
TRANSACT CODE=DSPALLI, \*
PRTY=(7,10,2), \*
INQUIRY=YES, \*
MODE=SNGL

\*\*\*\*\*

TRANSACTIONS FOR NDS PRINTER SUPPORT

\*\*\*\*\*

APPLCTN PSB=FORMSET,PGMTYPE=TP
TRANSACT CODE=FORMSET,MODE=SNGL
APPLCTN PSB=APAK,PGMTYPE=TP
TRANSACT CODE=APAK,MODE=SNGL

\*\*\*\*\*

SPACE 3
TITLE 'TERMINAL DEFINITIONS'

\*\*\*\*\*

\*\*\*\*\* TERMINAL DEFINITIONS \*\*\*\*\*
\*\*\*\*\*
\*\*\*\*\* LOCAL READER, PUNCH, PRINTER, SPOOL \*\*\*\*\*
\*\*\*\*\*

PRINTER LINEGRP DDNAME=PRINTER, \*
UNITYPE=PRINTER
LINE ADDR=00F
TERMINAL
NAME PRINTER

SNA APPLICATION INTERFACE (IMS)

READER LINEGRP DDNAME=READER, \*  
UNITYPE=READER  
LINE ADDR=01C  
TERMINAL LTERM=PRINTER

PUNCH LINEGRP DDNAME=PUNCH, \*  
UNITYPE=PUNCH  
LINE ADDR=01D  
TERMINAL  
NAME SPOOL2 -FOR DATA DICTIONARY

SPOOL LINEGRP DDNAME=(SPL1,SPL2,SPL3), \*  
UNITYPE=SPOOL  
LINE BUFSIZE=1420  
TERMINAL FEAT=AUTOSCH  
NAME SPOOL1 -FOR DATA DICTIONARY

\*\*\*\*\*  
\*\* BTAM 3770/2770 TERMINAL DEFINITION \*\*\*\*\*  
\*\*\*\*\*

LINEGRP DDNAME=BSC3770P,UNITYPE=2770,CODE=EBCDIC  
LINE ADDR=074,FEAT=BUFEXP  
TERMINAL ADDR=C1,COMPT=(PTR,CARD,PTR),FEAT=(1,BUFEXP)  
NAME PTR3770,COMPT=1  
NAME PCH3770,COMPT=2  
NAME DSK3770,COMPT=3



IMS REMOTE 3770

TYPE UNITYPE=SLUTYPE1

\*\*\*\*\*  
 \*\* 3770 PROGRAMMABLE DEFINITIONS FOR BATCH LU (1) \*\*\*\*\*  
 \*\*\*\*\*

P70LU1    TERMINAL NAME=P70LU1,                    NAME CHANGE FOR ABOVE LU    \*  
           COMPT1=CONSOLE,                                 \*  
           COMPT2=(TRANSDS1,MFS-SCS2),                    \*  
           COMPT3=(PRINTDS1,MFS-SCS1),                    \*  
           COMPT4=USERDS1                                    \*  
           NAME P70CON  
           NAME P70TRAN,ICOMPT=2  
           NAME P70INTR,COMPT=3  
           NAME P70USER,ICOMPT=4  
           NAME P70USER1,COMPT=4  
           NAME P70USER2,COMPT=4

C70LU1    TERMINAL NAME=C70LU1,                    SAME LU AS P70LU1 BUT        \*  
           COMPT1=CONSOLE,                                 BECAUSE OF 4 COMP LIMIT IN   \*  
           COMPT2=(READER1,MFS-SCS2),                    IMS, NEED THIS FOR CARD     \*  
           COMPT3=(PUNCH1,MFS-SCS2),                    SUPPORT                     \*  
           COMPT4=USERDS1  
           NAME C70CON  
           NAME C70RDR,ICOMPT=2  
           NAME C70PUN,COMPT=3  
           NAME C70USER,ICOMPT=4  
           NAME C70USER1,COMPT=4  
           NAME C70USER2,COMPT=4

SNA APPLICATION INTERFACE (IMS)

IMS LOCAL 3274

```
*****  
**          3274-1A SNA CHANNEL ATTACHED PRINTERS          **  
*****
```

```
LHAPA07 TERMINAL NAME=LHAPA07, *  
          COMPT1=(CONSOLE,BASIC-SCS1), *  
          MODETBL=SCS, *  
          OUTBUF=768  
          NAME LHAPA07
```

```
LHAPA08 TERMINAL NAME=LHAPA08, *  
          COMPT1=(CONSOLE,MFS-SCS1), *  
          OUTBUF=768  
          NAME LHAPA08
```

IMS REMOTE 3274 PRINTERS

```
*****  
**          3274-1C SDLC ATTACHED PRINTERS          **  
*****
```

```
SDLCPA07 TERMINAL NAME=SDLCPA07, *  
          COMPT1=(CONSOLE,BASIC-SCS1), *  
          MODETBL=SCS, *  
          OUTBUF=768  
          NAME SDLCPA07
```

```
SDLCPA08 TERMINAL NAME=SDLCPA08, *  
          COMPT1=(CONSOLE,MFS-SCS1), *  
          OUTBUF=768  
          NAME SDLCPA08
```

IMS REMOTE 3276 PRINTER

```

*****
**          3276 SDLC ATTACHED PRINTERS          *****
*****
          SPACE 4
SDLC76P7 TERMINAL NAME=SDLC76P7,                *
          COMPT1=(CONSOLE,BASIC-SCS1),          *
          MODETBL=SCS,                          *
          OUTBUF=768
          NAME SDLC76P7

SDLC76P8 TERMINAL NAME=SDLC76P8,                *
          COMPT1=(CONSOLE,MFS-SCS1),           *
          OUTBUF=768
          NAME SDLC76P8

```

IMS REMOTE 3790 PRINTERS

```

*****
** NODE=BP379011 LTERM=BP11          3790 BULK PRINT 1          *****
*****
BP379011 TERMINAL NAME=BP379011,                *
          COMPT1=(PRINTER1,MFS-SCS1),          *
          MODETBL=BLK3790
          NAME BP11
*****
** NODE=BP379012 LTERM=BP12          3790 BULK PRINT 2          *****
*****
BP379012 TERMINAL NAME=BP379012,                *
          COMPT1=(PRINTER1,BASIC-SCS1),       *
          MODETBL=BLK3790
          NAME BP12

```

IMS REMOTE 3790 TYPE 2 BATCH

```

*****
*****          3790 TYPE 2 BATCH          *****
*****

```

SNA APPLICATION INTERFACE (IMS)

```
BT379011 TERMINAL NAME=BT379011, *
      COMPT1=(PRINTER1,MFS-SCS1), *
      COMPT2=(PRINTDS1,MFS-SCS1), *
      COMPT3=(TRANSDS1,MFS-SCS2), *
      SEGSIZE=256, *
      OUTBUF=256, *
      MODETBL=BAT23790, *
      OPTIONS=(NORESP,OPNDST,NBSELM,NODISCON)
NAME BT11MSG,COMPT=1
NAME BT11PDS,COMPT=2
NAME BT11TDS,ICOMPT=3
```

```
BT379012 TERMINAL NAME=BT379012, *
      COMPT1=(PRINTER1,MFS-SCS1), *
      COMPT2=(PRINTDS1,MFS-SCS1), *
      COMPT3=(TRANSDS1,MFS-SCS2), *
      SEGSIZE=256, *
      OUTBUF=256, *
      MODETBL=BAT23790, *
      OPTIONS=(NORESP,OPNDST,NBSELM,DISCON)
NAME BT12MSG,COMPT=1
NAME BT12PDS,COMPT=2
NAME BT12TDS,ICOMPT=3
```

IMS SLUTYPE2 DISPLAYS

TYPE UNITYPE=SLUTYPE2

```
*****
*****          3274-1A SNA CHANNEL ATTACHED DISPLAYS          *****
*****
```

```
LHAPA01 TERMINAL NAME=LHAPA01,          3278-1 *
      TYPE=3270-A1,SIZE=(12,80), *
      FEAT=IGNORE, *
      OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
      OUTBUF=1536
NAME LHAPA01
```

```
LHAPA02 TERMINAL NAME=LHAPA02,          3278-4 *
      TYPE=3270-A4,SIZE=(43,80), *
      FEAT=IGNORE, *
      OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
      OUTBUF=1536
```

```

NAME LHAPA02
SPACE 4
LHAPA03 TERMINAL NAME=LHAPA03,          3278-3          *
        TYPE=3270-A3,SIZE=(32,80),      *
        FEAT=IGNORE,                     *
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
        OUTBUF=1536
NAME LHAPA03

LHAPB01 TERMINAL NAME=LHAPB01,          3277-2          *
        TYPE=3270-A2,SIZE=(24,80),      *
        FEAT=IGNORE,                     *
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
        OUTBUF=1536
NAME LHAPB01

*****
*****          3274-1C SDLC ATTACHED DISPLAYS          *****
*****

SDLCPA01 TERMINAL NAME=SDLCPA01,        3278-4          *
        TYPE=3270-A4,SIZE=(43,80),      *
        FEAT=IGNORE,                     *
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
        OUTBUF=3600
NAME SDLCPA01

SDLCPA02 TERMINAL NAME=SDLCPA02,        3278-4          *
        TYPE=3270-A4,SIZE=(43,80),      *
        FEAT=IGNORE,                     *
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
        OUTBUF=3600
NAME SDLCPA02

SDLCPA03 TERMINAL NAME=SDLCPA03,        3278-3          *
        TYPE=3270-A3,SIZE=(32,80),      *
        FEAT=IGNORE,                     *
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
        OUTBUF=3600
NAME SDLCPA03

SDLCPA04 TERMINAL NAME=SDLCPA04,        3278-3          *
        TYPE=3270-A3,SIZE=(32,80),      *
        FEAT=IGNORE,                     *
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
        OUTBUF=3600
NAME SDLCPA04

SDLCPB01 TERMINAL NAME=SDLCPB01,        3277-2          *

```

SNA APPLICATION INTERFACE (IMS)

```
TYPE=3270-A2,SIZE=(24,80), *
FEAT=IGNORE, *
OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
OUTBUF=3600
NAME SDLCPB01
```

```
*****
****          3276 SDLC ATTACHED DISPLAYS          ****
*****
```

```
SDLC76P1 TERMINAL NAME=SDLC76P1,          3276-12 *
TYPE=3270-A2,SIZE=(24,80), *
FEAT=IGNORE, *
OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
OUTBUF=3600
NAME SDLC76P1
```

```
SDLC76P2 TERMINAL NAME=SDLC76P2,          3278-2 *
TYPE=3270-A2,SIZE=(24,80), *
FEAT=IGNORE, *
OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
OUTBUF=3600
NAME SDLC76P2
```

IMS REMOTE 3790

```

*****
*****          3790/3270 COMPATIBILITY MODE - 3790          *****
*****

```

```

CM379011  TERMINAL NAME=CM379011,          *
          MODEL=2,                          *
          FEAT=(PFK,NOCD,PEN),              *
          OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), *
          OUTBUF=1536
          NAME  CM11

```

IMS REMOTE 3770 PROGRAMMABLE

TYPE UNITYPE=SLUTYPEP

```

*****
*****  SLUTYPEP - 3770 SNA PROGRAMMABLE COMMUNICATIONS  *****
*****

```

```

BA3770PV  TERMINAL NAME=BA3770PV,          OLD NAME FOR PC SESSION *
          MSGDEL=SYSINFO,                   DELETE THIS TERMINAL AFTER *
          COMPT1=(PROGRAM1,BASIC),          NCP HAS P70LU2 DEFINED *
          OPTIONS=(FORCRESP,PAGDEL,OPNDST,OPTACK,BID), *
          OUTBUF=256,                        *
          SEGSIZE=256
          NAME  I.SNAPC70

```

```

P70LU2    TERMINAL NAME=P70LU2,          *
          MSGDEL=SYSINFO,                  *
          COMPT1=(PROGRAM1,BASIC),        *
          OPTIONS=(FORCRESP,PAGDEL,OPNDST,OPTACK,BID), *
          OUTBUF=256,                      *
          SEGSIZE=256
          NAME  P70PC2

```

```

P70LU3    TERMINAL NAME=P70LU3,          *
          MSGDEL=SYSINFO,                  *
          COMPT1=(PROGRAM1,BASIC),        *
          OPTIONS=(FORCRESP,PAGDEL,OPNDST,OPTACK,BID), *
          OUTBUF=256,                      *
          SEGSIZE=256
          NAME  P70PC3

```

SNA APPLICATION INTERFACE (IMS)

```
*****  
*****  
***** SLUTYPEP - 3790 USER PROGRAMS - 3790 *****  
*****  
*****
```

```
UP379011 TERMINAL NAME=UP379011, *  
          MSGDEL=SYSINFO, *  
          COMPT1=(PROGRAM1,BASIC), *  
          OPTIONS=(FORCRESP,PAGDEL,OPNDST,OPTACK,BID), *  
          OUTBUF=256, *  
          SEGSIZE=256 *  
          NAME UP11P1  
  
          TITLE 'TERMINAL DEFINITIONS - 3790 INQUIRY'  
          TYPE UNITYPE=3790
```

```
*****  
*****          3790 INQUIRY *****  
*****  
***** NODE=INQ02 LTERM=INQ02 *****  
*****  
*****
```

```
INQ02 TERMINAL NAME=INQ02, *  
       OUTBUF=256, *  
       OPTIONS=(NOPNDST)  
       NAME INQ02
```



IMS REMOTE 3270

TYPE UNITYPE=3270 \*\*\*\*\*

```
*****
*****          VTAM 3270 TERMINAL DEFINITIONS          *****
*****
*****      SDLC 3271 CONTROLLER                          *****
*****
*****      NODE=LU3270V0   LTERM=LU3270V0   3277       *****
*****      NODE=LU3270V7   LTERM=LU3270V7   3286       *****
*****
*****
*****      LOCAL 3270 CONTROLLER                          *****
*****
*****      NODE=LU4C0      LTERM=LU4C0      3277       *****
*****
*****
*****
*****
*****
*****
*****
*****
```

```
LU4C0 TERMINAL NAME=LU4C0,          *
      UNIT=3277,                    *
      MODEL=2,                       *
      FEAT=(PFK,NOCD,PEN),          *
      OPTIONS=(TRANRESP,PAGDEL,OPNDST)
      NAME LU4C0
```

```
LU3270V0 TERMINAL NAME=LU3270V0,   *
      UNIT=3277,                    *
      MODEL=2,                       *
      FEAT=(PFK,NOCD,PEN),          *
      OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST)
      NAME LU3270V0
```

```
LU3270V7 TERMINAL NAME=LU3270V7,   *
      UNIT=3286,                    *
      MODEL=2,                       *
      PTRSIZE=120
      NAME LU3270V7
      TITLE ' '
```

```
*****
      IMSGEN SUFFIX=0,               *
      NODE=(IMS115,IMS115,IMS115),  *
```

SNA APPLICATION INTERFACE (IMS)

```
OBJDSET=IMS115.OBJSUF0, *
USERLIB=IMS115.RESLIB, *
MACLIB=UTILITY, *
PROCLIB=NO, *
ASM=H, *
ASMPRT=ON, *
LKPRT=(XREF,LIST),LKSIZE=(300K,60K),LKRGN=400K, *
JCL=(YGH1,(3MD3665L00065Y),IMS,A,(REGION=2048K,MSGLEVEL=*
1,CLASS=N)), *
SCL=(1)
```

```
*****
***** END OF SYSTEM DEFINITION FOR IMS5 *****
*****
END
```

IBM 3770: Modetab .....	4-6
Switched .....	8-5
Leased .....	7-39
RTAM .....	5-38
POWER .....	5-8
JES2 .....	5-57
USSTAB .....	4-20
CICS/VS .....	12-7
IMS/VS .....	12-19
IBM 3790: Modetab .....	4-7
Switched .....	8-2
Leased .....	7-36
POWER .....	5-8
RTAM .....	5-38
JES2 .....	5-57
Local .....	9-5
TCAM .....	6-9
CICS/VS .....	12-4
IMS/VS .....	12-19
IBM 3767: Modetab .....	4-4
Switched .....	8-6
Leased .....	7-44
Start-Stop .....	7-23
USSTAB .....	4-19
CICS/VS .....	12-6
IBM 3270: Model 3271 and 3272 Control Units	
Modetab .....	4-5
BSC Leased .....	7-29
Logtab .....	4-3
Local .....	9-4
Local (ACF/VTAM) .....	9-6
USSTAB .....	4-14
SDLC .....	7-41
TCAM (LOCAL) .....	6-7
TCAM (REMOTE) .....	6-7
CICS/VS .....	12-3
IMS/VS .....	12-21

INDEX

IBM 3600: Leased .....	7-37
IBM 3274/3276: Model 3274 and 3276 Control Units	
Modetab(Local) .....	4-10
Modetab(Remote) .....	4-11
Local .....	9-2
USSTAB .....	4-21
SDLC .....	7-42
BSC .....	7-29
TCAM .....	6-8
CICS/VS .....	12-5
IMS/VS .....	12-14
IBM 3650: Leased .....	7-38

Please comment on the usefulness and readability of the publication, suggest additions and deletions, and list specific errors and omissions (give page numbers). IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation whatever.

---

COMMENTS

Thank you for your cooperation. Fold form on two lines, tape, and mail to the address on the reverse side.

Your comments, please...

Your comments on the other side of this form will help us improve future editions of this publication. Each reply will be carefully reviewed by the person(s) responsible for writing and publishing this material.

fold

fold

---

Send to: IBM Corporation (73G/036)  
1501 California Avenue  
Palo Alto, CA 94304

fold

fold

International Business Machines Corporation  
1501 California Avenue  
Palo Alto, CA 94304  
(USA only)

|  
|  
READER'S COMMENT FORM