IMS SYSGEN for First Timers

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Las Vegas, NV

September 15 - September 18, 2003

What is in this Presentation

The IMS SYSGEN

- Any manuals referenced are for IMS V810
- All IMSGEN macros are described in the manual Installation Volume 2
- Useful tables for reference (BookManager format, see handout)
 - Chapter 2 Figure 9 Hierarchy of Stage 1 System Definition Macros
 - Definition
 - Chapter 2 Table 13 Selecting the Appropriate IMS System
 - Chapter 3 Table 15 Use of System Definition Macros
 - **Definition Macro**
 - Chapter 3 Table 16 Maximum occurrences of Each IMS System



- The following pages are a summary of the various types of SYSGEN and the basic steps in the SYSGEN process
- Further information on this topic is available Session
 E56 IMS Version 8 Installation Considerations



Types of SYSGEN

MODBLKS - may be implemented by commands...

- MODIFY PREPARE
- Prepare for online changes
- MODIFY COMMIT Implement the changes
- MODIFY ABORT
- Reset MODIFY PREPARE

ALL	On-l	Batch						
		Nucleus						
			CTLBLKS					
				Modblks		MSVERIFY (MSC Only)		



- Selecting the correct type of SYSGEN to run
 - Chapter 2, Table 12 Types of System Definition
 - Chapter 2, Table 13 Macro Table Selecting the Appropriate IMS System Definition



- ► The basic steps in a SYSGEN
 - Stage 1 A collection of SYSGEN Macros
 - Stage 2 The result of assembling the STAGE1 SYSGEN macros
 - JCLIN Required step for SMP/E to be able to apply maintenance (uses STAGE 2 input)
 - Reapply unaccepted maintenance Any USERMODs or other maintenance in APPLY status must be reapplied
 - Security Gen IMS Security Maintenance Utility (SMU) must be run after any SYSGEN



GENERAL SUGGESTIONS

Keep an organized comment section in the STAGE 1 member

- ► When were the changes made
- ► What changes were made for each IMS GEN
- ► What type of IMS GEN was run
- ► Who made the changes

```
XYZ COMPANY - IMSTEST SYSTEM
DATE OF SYSGEN : SEPTEMBER 21, 2001
TYPE OF SYSGEN : MODBLKS
CHANGE BY DATE SOURCE CHANGED DESCRIPTION
???? SEPTEMBER 5, 2001 ADD FOLLOWING DATABASE MACROS FOR
DEPOSIT SYSTEM
ACCTPRIM, ACCTINDX
```

GENERAL SUGGESTIONS

Keep the STAGE 1 member organized

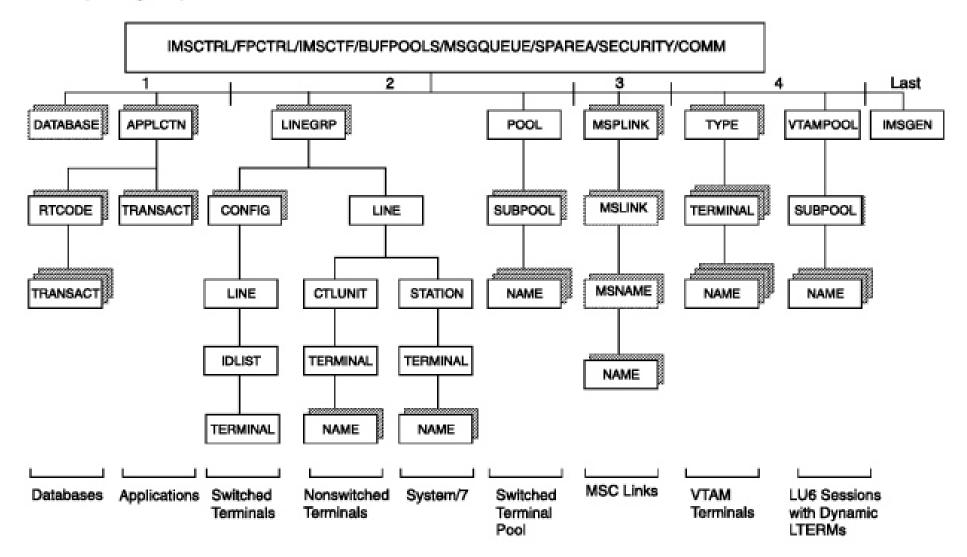
- Macros may be placed in different orders stay with a plan
- Comment the general information in front of each section
- You may wish to place further comments on individual entries

*****	*****	********
* IVP DATABASES	DEFINITION	
*****	******	**********
DATABASE	DBD=IVPDB1,ACCESS=UP	HIDAM/OSAM
DATABASE	INDEX, DBD=IVPDB1I, ACCESS=UP	HIDAM/VSAM INDEX
DATABASE	DBD=IVPDB2,ACCESS=UP	HDAM/VSAM
DATABASE	DBD=IVPDB2,ACCESS=UP	HDAM/VSAM
DATABASE	DBD=IVPDB3,ACCESS=UP	DEDB
DATABASE	DBD=IVPDB4	MSDB



System Definition-Macro Hierarchy

Hierarchy of Stage 1 System Definition Macros



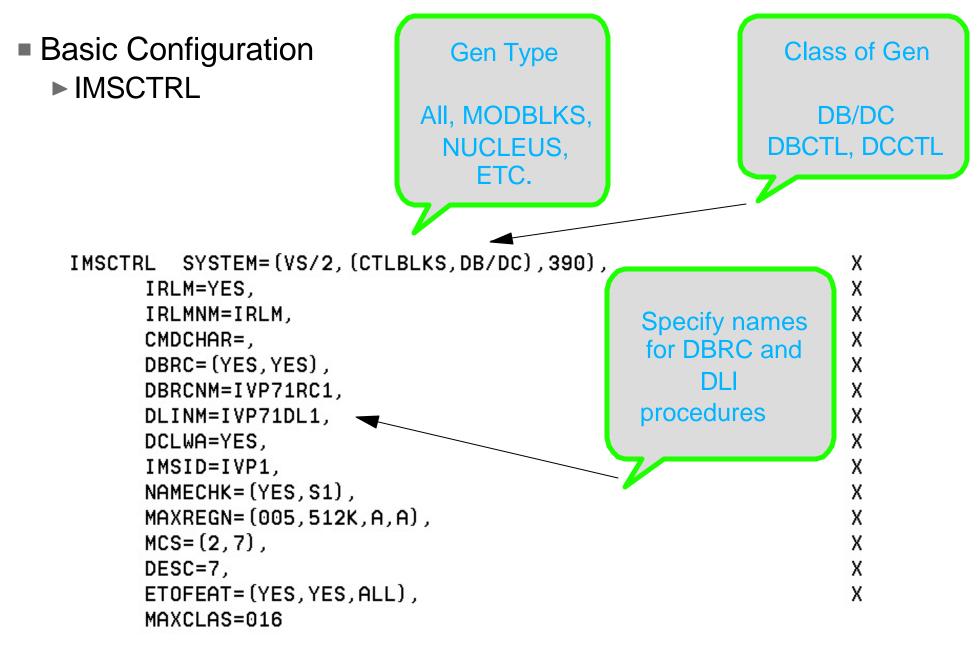


- An introduction to the SYSGEN Macros
 - Obsolete macros
 - General configuration macros
 - Applications, Databases, Transactions
 - Communications

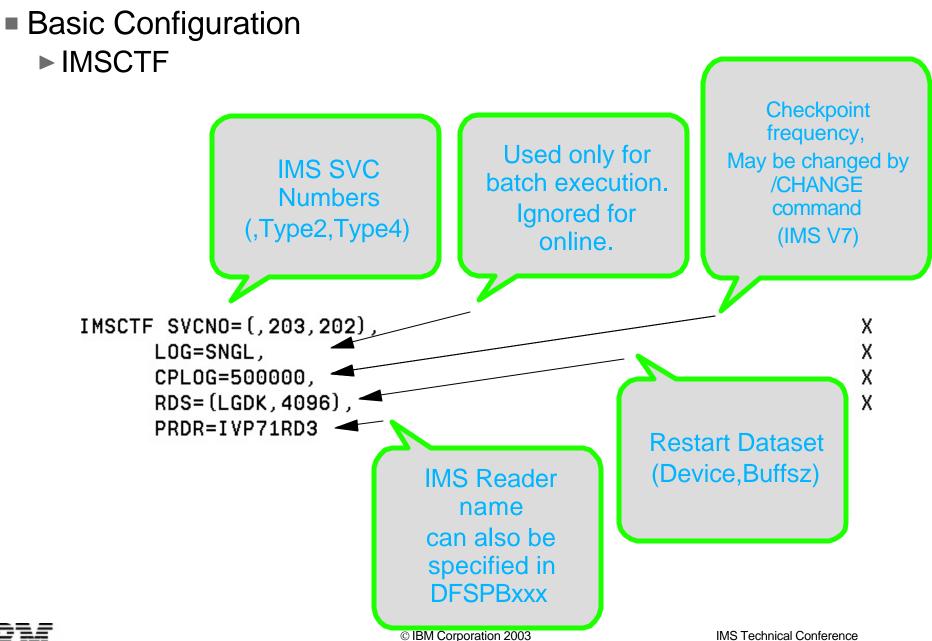


- Obsolete Macros (IMS V610)
 - SPAREA If present in STAGE 1 it is ignored
- NOTE:
 - Certain parameters may be obsolete on currently used macros.
 - Such parameters will generally be accepted and syntax checked for compatibility with prior releases of IMS.









- Basic Configuration
 - ► BUFPOOLS
 - Specifies default storage buffer pool sizes for DB/DC and DBCTL environments.
 - Detailed information in manual (Installation Volume 2)
 - Many of these value may also be specified in DFSPBxxx or IMS Procedure

BUFPOOLS PSB=24000,	х
DMB=24000,	x
SASPSB=(4000,20000),	х
PSBW=12000	



Basic Configuration

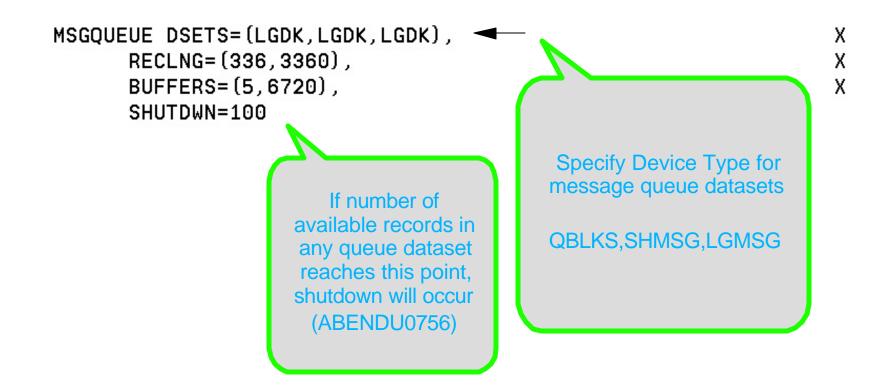
- ► FPCTRL
 - Used only if Fast Path is to be used on this system
 - If used, this macro must appear between IMSCTRL and IMSGEN macros
 - Detailed information in manual (Installation Volume 2)
 - NOTE: To remove Fast Path from a system requires an ON-LINE or ALL SYSGEN. After SYSGEN, SMPE TARGET zone should be rebuilt (INFOAPAR II08928)

FPCTRL OTHREAD=5, BFALLOC=(10,50,2048)



Х

- Basic Configuration
 - ► MSGQUEUE
 - LGDK is a generic device specification for 3375, 3390, 3390 and future devices





Basic Configuration

- ► SECURITY
 - Specifies security features to be in effect during IMS execution, unless overridden at system initialization.
 - If present, overrides any security options specified on either COMM or IMSGEN macros.
 - Detailed information in manual (Installation Volume 2)

```
SECURITY TYPE=(AGNEXIT, NORACTRM, NOTRANEX, NOSIGNEX), X
SECLVL=(NOTRAN, NOSIGN), X
TERMNL=YES, X
SECCNT=2, X
PASSWD=YES, X
TRANCMD=YES
```



Basic Configuration

- ► IMSGEN
 - Specifies the assembler and linkage editor data sets and options
 - Also specifies system definition output options and features
 - Must be the last macro in the STAGE 1 input and followed by assembler END statement
 - Detailed information in manual (Installation Volume 2)
 - New parameters with IMS V8 for JBP and JMP type regions
 - CSSLIB OS/390 Callable Services library
 - SCEERUN C Runtime library



Basic Configuration

```
► IMSGEN (Sample Part 1)
```

IMSGEN ASM=(HLASM,SYSLIN),ASMPRT=OFF,	Х
LKPRT=(XREF,LIST),LKSIZE=(880K,63K),LKRGN=900K,	Х
SUFFIX=I,	Х
SURVEY=YES,	Х
NODE=(IVPEXE71,	Х
J93.I71A27.DBDC,	Х
J93.I71A27.DBDC),	Х
OBJDSET=J93.I71A27.DBDC.OBJDSET,	Х
PROCLIB=YES,	Х
USERLIB=J93.I71A27.DBDC.ADFSLOAD,	Х
UMACO=,	Х
MACSYS=SYS1.MACLIB,	Х



Basic Configuration
 IMSGEN (Sample Part 2)

```
MODGEN=SYS1.MODGEN,
UMAC1=.
UMAC2=,
UMAC3=,
ONEJOB=(YES, YES),
JCL=(IMSGEN,
ACTINF01,
'PGMRNAME',H,
(CLASS=A, MSGLEVEL=(1,1), REGION=32M, NOTIFY=JBUTTER),
(USER=JBUTTER)),
SCL=(,,(TIME=600)),
UJCL1=,
UJCL2=,
UJCL3=,
UJCL4=,
UJCL5=
```

END ,

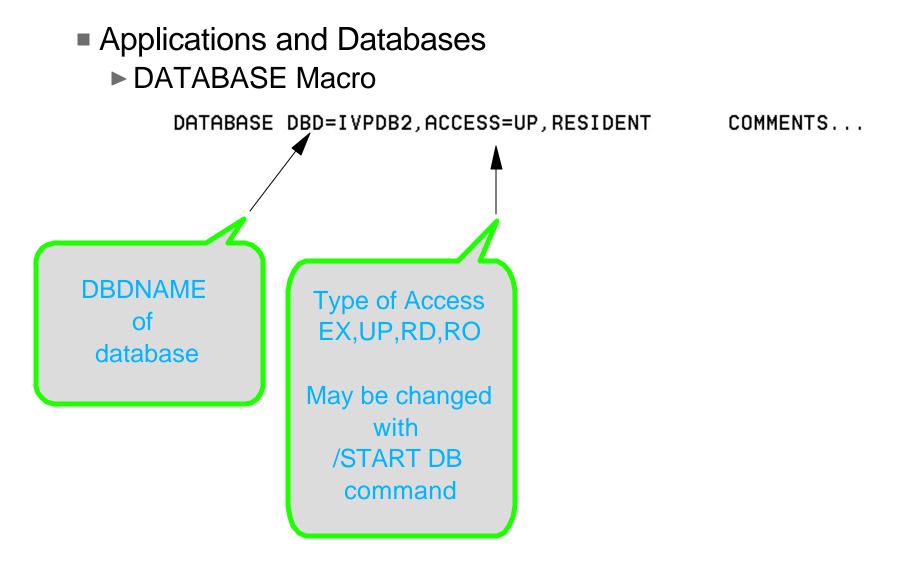


)

Applications and Databases

- Define what databases, application programs, and transactions will be used by this IMS system
- Many of the following items may be changed with a MODBLKS gen and Online Change
- The following pages are for non-Fast Path definitions







- Applications and Databases
 - APPLCTN Macro
 - Transaction Class may be specified for transactions using this program
 - PGMTYPE=(TP,,3) specifies transactions will run as Class 3
 - If CLASS is specified on TRANSACT Macro this is ignored
 - LANG=
 - Used with GPSB= option
 - Specifies language interface used by the application program
 - If LANG=JAVA is specified, FPATH=NO must also be specified



- Applications and Databases
 - ► APPLCTN Macro other parameters
 - RESIDENT | DOPT
 - RESIDENT PSB to be made resident at system initialization
 - DOPT PSB to be loaded each time a program is used
 - GPSB Generated PSB
 - SYSID For multiple IMS system configuration
 - SCHDTYP SERIAL | PARALLEL
 - SERIAL Program may only run in one region at a time
 - PARALLEL Program may run in more than one region



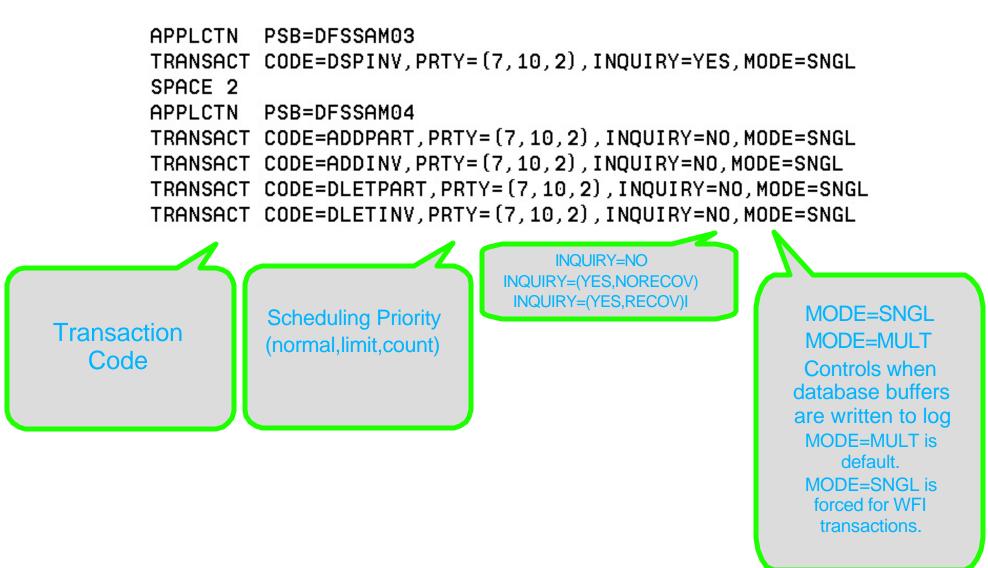
Applications and Databases

- The TRANSACT Macro specifies transaction codes for use with the prior APPLCTN macro
 - More than one TRANSACT Macro may follow an APPLCTN Macro
 - Where options are specified on both APPLCTN and TRANSACT Macro - TRANSACT Macro specification is used
 - Detailed information in manual (Installation Volume 2)
 - Following page shows some examples



Applications and Databases

Some examples





- Definition of Databases, Applications and Transactions using Fast Path
 - Mostly similar to the above non-Fast Path examples



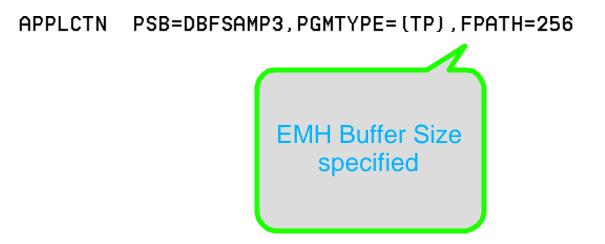
DATABASE

- Very much the same as for non Fast Path
 - Fast Path databases will be resident regardless of RESIDENT option
 - ACCESS=EX is not valid for Fast Path DEDB databases



APPLCTN

- ► FPATH parameter
 - FPATH=NO Not Fast Path exclusive
 - Required if LANG=JAVA is specified
 - FPATH=YES Fast Path exclusive
 - FPATH=size Implies Fast Path exclusive
 - Determines EMH Buffer size required to run this transaction





RTCODE

- The RTCODE macro may be used one or more times with the APPLCTN macro statement that defines an IMS Fast Path application
- A TRANSACT macro that specifies an IMS Fast Path exclusive transaction generates an internal RTCODE macro statement



TRANSACT

- Similar to non-Fast Path TRANSACT specification
 - SMU cannot define a Fast Path exclusive transaction as able to issue commands
 - Detailed information in manual (Installation Volume 2)



Communications Macros

- This section does not apply to DBCTL systems
- Types of Communication Environments
 - BTAM (BSAM, GAM and ARAM)
 - Switched Communication Devices
 - MSC Multiple System Coupling
 - VTAM Communications Macros
- ► Table 2 Use of System Definition Macros (Chapter 1)
 - shows what macros are used for each environment
- Complete coverage of this topic is beyond the scope of this presentation.



Communications Macros

- ► For further details, please review the following manuals
 - Administration Guide Transaction Manager
 - Provides detailed information about how to plan, design, and define a network to be used with IMS Transaction Manager
 - Installation Volume 2 System Definition and Tailoring
 - Provides detailed information about the syntax of each macro and its options

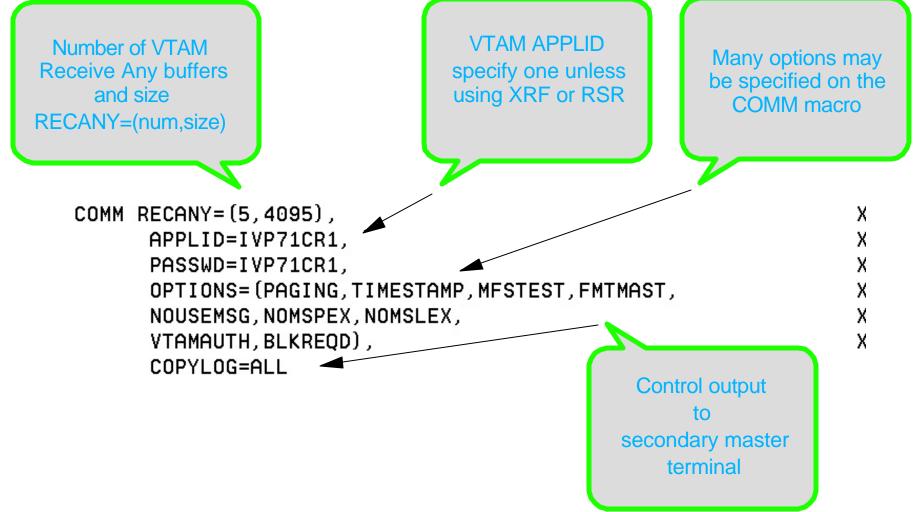


- Communications Macros
 - ► COMM
 - General communication options
 - Not associated with any particular terminal type
 - Always required for VTAM terminal types
 - Optional for BTAM (BSAM, GAM, ARAM) terminal types
 - May specify other options
 - Should be placed prior to other communication macros in STAGE 1



Communications Macros

COMM (Example)





Communications Macros

- CONFIG configuration for a switched 3275 terminal
- ► IDLIST terminal security list for switched 3275



Communications Macros

► CTLUNIT Specify 2848, 2972, and 3271 information

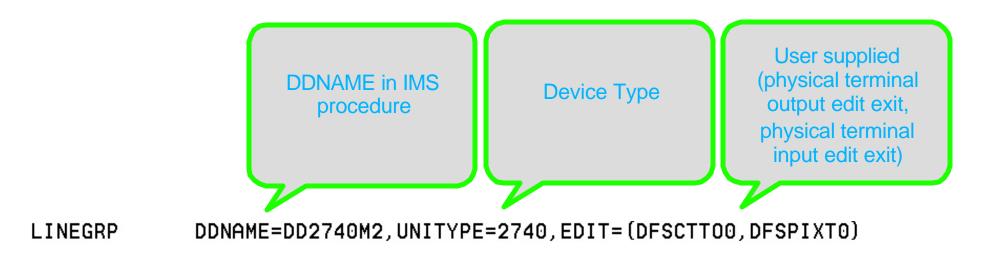
CTLUNIT ADDR=C1, MODEL=2



	Commu	inications Macros	
	► An ex	ample showing CTLUNIT and other macros	
****	*********	***************************************	****
*		REMOTE 3270 LINE GROUP	ж
*	1A	1DDM LINE - LTERMS CTRL,SEGUNDO	*
****	*******	***************************************	****
	SPACE		
	LINEGRP	DDNAME=DD3270R,UNITYPE=3270,CODE=EBCDIC, EDIT=(AMDDMOUT,DFSPIXT0)	х
	LINE	ADDR=0C9	
		ADDR=C1, MODEL=2	
	SPACE	HDDR-CI, HODEE-2	
MSTR		ADDR=40, FEAT=(2, COPY, PFK, CARD, PEN), PAGDEL=YES	,EDIT=YES
	NAME	T3270A	
	NAME	(CTRL, MASTER) -	
	NAME	3TRL	LTERM CTRL is
	NAME	LTERM3MB	primary master
		LTERM3MC	(3270 terminal),
	NAME	LTERM3MM	LTERM SEGUNDO is
	TERMIN		secondary master (3286 printer)
	NAME	(SEGUNDO, SECONDARY) -	
	NAME	T3270P1	



- Communications Macros
 - ► LINEGRP
 - Refer to Customization Guide manual for details of physical terminal input and output edit exits
 - Cannot be same exit routine specified on TRANSACT macro





- Communications Macros
 - ► LINE
 - Any LINE macro must be followed by at least one TERMINAL macro

LINE ADDR=0B3, RESP=TERM, MODEL=(2, 120)



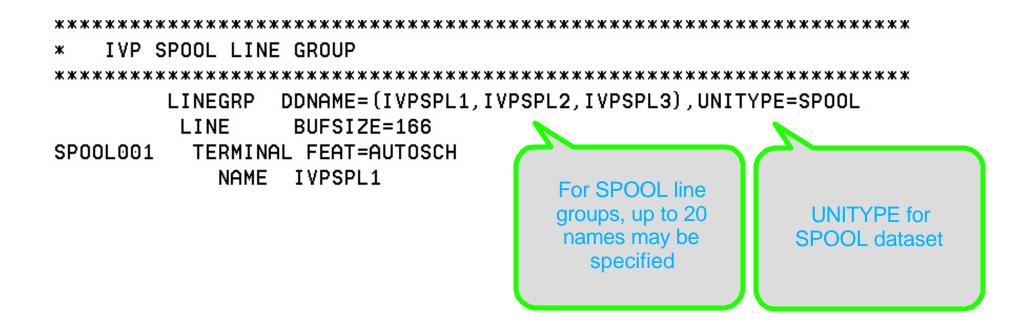
Communications Macros

► LINEGRP and LINE (Device Type 2740)

LINEGRP	DDNAME=DD2740M2, UNITYPE=2740, EDIT=(DFSCT	FOO, DFSPIXTO)
LINE	ADDR=0B3,RESP=TERM,MODEL=(2,120)	
TE	RMINAL ADDR=C5,EDIT=(YES,YES),FPBUF=120	
NAME	2740M2K	
NAME	N27402P1,EDIT=(YES,ULC)	11/28/73
SPACE		
TERMINAL	ADDR=C6,EDIT=(YES,YES)	
NAME	2740M2L	
NAME	N27402P2,EDIT=(YES,UC)	11/28/73



Communications Macros
 LINEGRP and LINE (SPOOL dataset example)





- Communications Macros
 - Multiple Systems Coupling (MSC) Macros
 - MSPLINK
 - Defines a physical link between systems
 - MSLINK
 - Defines a logical link between systems
 - MSNAME
 - Provides a name for the remote and local systems



- Communications Macros
 - ► NAME
 - Defines a logical terminal name (LTERM) to be associated with a physical terminal (PTERM)
 - ► POOL
 - Defines a pool of logical terminals to be associated with a set of switched communications lines.
 - Follows all LINE macros within a switched line group.
 - ► SUBPOOL
 - For switched communications lines defines, defines a set of logical terminal within a POOL of logical terminals.
 - For VTAM LU6.1 devices, used between groups of NAME macro statements to LU6.1 LTERM subpools.



- Communications Macros
 - ► STATION
 - Defines physical and logical characteristics for System/3 or System/7 connection
 - ► TERMINAL
 - Defines physical and logical characteristics of VTAM nodes or non-VTAM terminals
 - ► TYPE
 - Defines the beginning of a set of communications terminals and logical terminal description macro statements which include TERMINAL and NAME.
 - ► VTAMPOOL
 - Required for parallel session support
 - Begins the definition of VTAM LU6.1 LTERM subpools



Sample STAGE 1 source (IVP IV3C201T)

*****	**************************************	кж:
000001		
000002	***************************************	кж
000003	* INSTALL/IVP IMS 7.1	
000004	*	
000005	* SKELETON: DFSIXSC1	
000006	*	
000007	* FUNCTION: STAGE 1 SOURCE FOR A DBT SYSTEM	
000008	***************************************	κж
000009		
000010	***************************************	кж
000011	*	ж
000012	* LICENSED MATERIALS - PROPERTY OF IBM	ж
000013	*	ж
000014	* "RESTRICTED MATERIALS OF IBM"	ж
000015	*	ж
000016	* 5655-B01 (C) COPYRIGHT IBM CORP. 1989,1999	ж
000017	* ALL RIGHTS RESERVED.	ж



Sysgen Macros

000018	*	ж
000019	* US GOVERNMENT USERS RESTRICTED RIGHTS -	ж
000020	 * USE, DUPLICATION OR DISCLOSURE RESTRICTED BY 	ж
000021	* GSA ADP SCHEDULE CONTRACT WITH IBM CORP.	ж
000022	*	ж
000023	***************************************	жж
000024	*	
000025	* IMSCTRL MACRO	
000026	*	
000027	IMSCTRL SYSTEM=(VS/2,(CTLBLKS,DB/DC),390),	Х
000028	IRLM=YES,	Х
000029	IRLMNM=IRLM,	Х
000030	CMDCHAR=,	Х
000031	DBRC=(YES,YES),	Х
000032	DBRCNM=IVP71RC1,	Х
000033	DLINM=IVP71DL1,	Х
000034	DCLWA=YES,	Х
000035	IMSID=IVP1,	Х



000036	NAMECHK=(YES,S1),	Х
000037	MAXREGN=(005,512K,A,A),	х
000038	MCS=(2,7),	х
000039	DESC=7,	х
000040	ETOFEAT=(YES,YES,ALL),	х
000041	MAXCLAS=016	
000042 *		
000043 *	IMSCTF MACRO	
000044 *		
000045	IMSCTF SVCNO=(,203,202),	х
000046	LOG=SNGL,	х
000047	CPL0G=500000,	х
000048	RDS=(LGDK,4096),	х
000049	PRDR=IVP71RD1	
000050 *		
000051 *	MSGQUEUE MACRO	
000052 *		



)00053)00054		MSGQUEUE DSETS=(LGDK,LGDK,LGDK), RECLNG=(336,3360),	×
)00055		BUFFERS=(5,6720),	X
00056		SHUTDWN=100	
00057	ж		
00058	ж	FPCTRL MACRO	
)00059	ж		
00060		FPCTRL OTHREAD=5,	Х
00061		BFALLOC=(10,50,2048)	
00062	ж		
00063	ж	BUFPOOLS MACRO	
00064	ж		
00065		BUFPOOLS PSB=24000,	Х
00066		SASPSB=(4000,20000),	Х
00067		PSBW=12000,	Х
00068		DMB=24000,	Х
00069		FORMAT=(24000,256),	Х
³⁰ 56667	1	* FRE=30	

000072 000073	* SECURITY MACRO	
000074	SECURITY TYPE=(AGNEXIT,NORACTRM,NOTRANEX,NOSIGNEX),	Х
000075	SECLVL=(NOTRAN, NOSIGN),	Х
000076	TERMNL=YES,	х
000077	SECCNT=2,	x
000078	PASSWD=YES,	x
		^
000079	TRANCMD=YES	
000080	***************************************	
000081	* IVP DATABASES DEFINITION	
000082	***************************************	
000083	DATABASE DBD=IVPDB1,ACCESS=UP HIDAM/OSAM	
000084	DATABASE INDEX, DBD=IVPDB1I, ACCESS=UP HIDAM/VSAM INDEX	
000085	DATABASE DBD=IVPDB2,ACCESS=UP HDAM/VSAM	
000086	DATABASE DBD=IVPDB2,ACCESS=UP HDAM/VSAM	
000087	DATABASE DBD=IVPDB3,ACCESS=UP DEDB	
000088	DATABASE DBD=IVPDB4 MSDB	
000089	***************************************	



000090 * IVP	BATCH/BMP APPLICATION DEFINITION	
000091 *******	***************************************	*****
000092	SPACE 2	
000093	APPLCTN PSB=DFSIVP6,PGMTYPE=BATCH	HIDAM/OSAM-ASSEM
000094	SPACE 2	
000095	APPLCTN PSB=DFSIVP61,PGMTYPE=BATCH	HIDAM/OSAM-PASCAL
000096	SPACE 2	
000097	APPLCTN PSB=DFSIVP62,PGMTYPE=BATCH	HIDAM/OSAM-C
000098	SPACE 2	
000099	APPLCTN PSB=DFSIVP64,PGMTYPE=BATCH	HIDAM/OSAM-COBOL
000100	SPACE 2	
000101	APPLCTN PSB=DFSIVP65,PGMTYPE=BATCH	HIDAM/OSAM-REXX
000102	SPACE 2	
000103	APPLCTN PSB=DFSIVP7,PGMTYPE=BATCH	HDAM/VSAM
000104	SPACE 2	
000105	APPLCTN PSB=DFSIVP8,PGMTYPE=BATCH	DEDB/VSAM
000106	SPACE 2	
000107	APPLCTN PSB=DFSIVP9,PGMTYPE=BATCH	HIDAM/OSAM OLIC



000108	SPACE 2	
000109	APPLCTN PSB=DFSIVPA,PGMTYPE=BATCH	HIDAM LOAD
000110	SPACE 2	
000111	APPLCTN PSB=DFSIVPB,PGMTYPE=BATCH	HDAM LOAD
000112	SPACE 2	
000113	APPLCTN PSB=DFSIVPC,PGMTYPE=BATCH	DEDB (DB LOAD)
000114	SPACE 2	
000115	******	******
000116	* IVP NON-CONVERSATIONAL APPLICATIONS DEFINI	TION FOR DB/DC
000117	******	******
000118	SPACE 2	
000119	APPLCTN PSB=DFSIVP1,PGMTYPE=TP	HIDAM/OSAM
000120	TRANSACT CODE=IVTNO,MODE=SNGL,	х
000121	MSGTYPE=(SNGLSEG,NONRESPONSE,1)	
000122	SPACE	
000123	APPLCTN PSB=DFSIVP2,PGMTYPE=TP	HDAM/VSAM
000124	TRANSACT CODE=IVTNV,MODE=SNGL,	х
000125	MSGTYPE=(SNGLSEG,NONRESPONSE,1)	



000126 000127	SPACE 2	*****	
000128	 IVP CONVERSATIONAL APPLICATION DEFINITION FOR DB 	/DC	
000129	******	*****	
000130	SPACE 2		
000131	APPLCTN PSB=DFSIVP3,PGMTYPE=TP	HDAM/VSAM-ASSEM	
000132	TRANSACT CODE=IVTCV,SPA=(80,),MODE=SNGL,		Х
000133	MSGTYPE=(SNGLSEG,NONRESPONSE,1)		
000134	APPLCTN PSB=DFSIVP31,PGMTYPE=TP	HDAM/VSAM-PASCAL	
000135	TRANSACT CODE=IVTCP,SPA=(80,),MODE=SNGL,		Х
000136	MSGTYPE=(SNGLSEG,NONRESPONSE,1)		
000137	APPLCTN PSB=DFSIVP32,PGMTYPE=TP	HDAM/VSAM-C	
000138	TRANSACT CODE=IVTCC, SPA=(80,), MODE=SNGL,		х
300139	MSGTYPE=(SNGLSEG,NONRESPONSE,1)		
000140	APPLCTN PSB=DFSIVP33,PGMTYPE=TP	HDAM/VSAM-JAVA	
000141	TRANSACT CODE=IVTCJ,SPA=(80,),MODE=SNGL,		Х
000142	MSGTYPE=(SNGLSEG,NONRESPONSE,1)		
000143	APPLCTN PSB=DFSIVP34, PGMTYPE=TP	HDAM/VSAM-COBOL	



S	ample STAGE 1 source	
000144	<pre>TRANSACT CODE=IVTCB, SPA=(80,), MODE=SNGL,</pre>	х
000145	MSGTYPE=(SNGLSEG,NONRESPONSE,1)	
000146	APPLCTN PSB=DFSIVP35,PGMTYPE=TP HDAM/VSAM-REXX	
000147	TRANSACT CODE=IVTCX,SPA=(80,),MODE=SNGL,	Х
000148	MSGTYPE=(SNGLSEG,NONRESPONSE,1)	
000149	SPACE 2	
000150	***************************************	
000151	* IVP DEDB AND MSDB APPLICATION DEFINITIONS FOR DB/DC	
000152	***************************************	
000153	SPACE 2	
000154	APPLCTN RESIDENT, PSB=DFSIVP4, FPATH=256 DEDB	
000155	TRANSACT CODE=IVTFD,MODE=SNGL,	Х
000156	MSGTYPE=(SNGLSEG,RESPONSE,1)	
000157	SPACE 2	
000158	APPLCTN RESIDENT, PSB=DFSIVP5, FPATH=256 MSDB	
000159	TRANSACT CODE=IVTFM,MODE=SNGL,	Х
000160	MSGTYPE=(SNGLSEG,RESPONSE,1)	
000161	***************************************	



000162	* IVP APPLICATIONS DEFINITION FOR DB/DC, DCCTL	
000163	***************************************	
000164	SPACE 2	
000165	APPLCTN GPSB=IVPREXX,PGMTYPE=TP,LANG=ASSEM REXXTDLI SAMPLE	
000166	TRANSACT CODE=IVPREXX,MODE=SNGL,	Х
000167	MSGTYPE=(SNGLSEG,NONRESPONSE,1)	
000168	SPACE 2	
000169	***************************************	
000170	* IMS SAMPLE DATABASES DEFINITION	
000171	***************************************	
000172	SPACE 2	
000173	DATABASE DBD=DI21PART,ACCESS=UP HISAM/VSAM	
000174	EJECT ,	
000175	***************************************	
000176	* IMS SAMPLE APPLICATION DEFINITION - CICS IVP	
000177	***************************************	
000178	SPACE 2	
000179	APPLCTN PSB=DFHSAM04, PGMTYPE=BATCH	



Sample STAGE 1 source 000180 SPACE 2 000181 APPLCTN PSB=DFHSAM14, PGMTYPE=BATCH 000182 SPACE 2 000183 APPLCTN PSB=DFHSAM24, PGMTYPE=BATCH 000184 SPACE 2 000185 APPLCTN PSB=DFHSAM05, PGMTYPE=BATCH 000186 SPACE 2 000187 APPLCTN PSB=DFHSAM15, PGMTYPE=BATCH 000188 SPACE 2 000189 APPLCTN PSB=DFHSAM25, PGMTYPE=BATCH 000190 EJECT 000192 * IMS SAMPLE APPLICATION DEFINITION 000194 SPACE 2 000195 APPLCTN PSB=DFSSAM01, PGMTYPE=BATCH 000196 SPACE 2 000197 SPACE 2



000198	- APPLCTN	PSB=DFSSAM02
000199	TRANSACT	CODE=PART,PRTY=(7,10,2),INQUIRY=YES,MODE=SNGL
000200	SPACE 2	
000201	APPLCTN	PSB=DFSSAM03
000202	TRANSACT	CODE=DSPINV,PRTY=(7,10,2),INQUIRY=YES,MODE=SNGL
000203	SPACE 2	
000204	APPLCTN	PSB=DFSSAM04
000205	TRANSACT	CODE=ADDPART,PRTY=(7,10,2),INQUIRY=NO,MODE=SNGL
000206	TRANSACT	CODE=ADDINV,PRTY=(7,10,2),INQUIRY=NO,MODE=SNGL
000207	TRANSACT	CODE=DLETPART, PRTY=(7,10,2), INQUIRY=NO, MODE=SNGL
000208	TRANSACT	CODE=DLETINV, PRTY=(7,10,2), INQUIRY=NO, MODE=SNGL
000209	SPACE 2	
000210	APPLCTN	PSB=DFSSAM05
000211	TRANSACT	CODE=CLOSE,PRTY=(7,10,2),INQUIRY=NO,MODE=SNGL
000212	SPACE 2	
000213	APPLCTN	PSB=DFSSAM06
000214	TRANSACT	CODE=DISBURSE, PRTY=(7,10,2), INQUIRY=NO, MODE=SNGL
000215	SPACE 2	



Sample ST	AGE 1 source
000216 f	APPLCTN PSB=DFSSAM07
000217	TRANSACT CODE=DSPALLI, PRTY=(7,10,2), INQUIRY=NO, MODE=SNGL
000218 \$	SPACE 2
000219 f	APPLCTN PSB=DFSSAM08, PGMTYPE=BATCH
000220 \$	SPACE 2
000221 f	APPLCTN PSB=DFSSAM09,PGMTYPE=BATCH GENERAL PURPOSE
000222 \$	SPACE 2
000223 *********	***************************************
000224 * FAST F	PATH SAMPLE DATABASES DEFINITION
000225 *********	***************************************
000226	SPACE 2
000227 [DATABASE DBD=DBFSAMD1 GENERAL LEDGER - MSDB
	DATABASE DBD=DBFSAMD2 TELLER - MSDB
000229 [DATABASE DBD=DBFSAMD3,ACCESS=UP CUSTOMER ACCNT - DEDB
000230	DATABASE DBD=DBFSAMD4,ACCESS=UP CUSTOMER LOAN - HDAM/VSAM
000231	EJECT ,
000232 ********	
000233 * FAST F	PATH SAMPLE APPLICATION DEFINITION



000234	*****	********************************	***********************
000235	SPACE 2		
000236	APPLCTN	PSB=DBFSAMP1, PGMTYPE=BATCH	DEDB LOAD
000237	SPACE 2		
000238	APPLCTN	PSB=DBFSAMP2,PGMTYPE=BATCH	HDAM LOAD
000239	SPACE 2		
000240	APPLCTN	PSB=DBFSAMP3, PGMTYPE=(TP), FF	PATH=256
000241	TRANSACT	CODE=FPSAMP1, MSGTYPE=(SNGLSE	EG,RESPONSE)
000242	SPACE 2		
000243	APPLCTN	PSB=DBFSAMP4	
000244	TRANSACT	CODE=FPSAMP2,MODE=SNGL	
000245	SPACE 2		
000246	APPLCTN	PSB=DBFSAMP5, PGMTYPE=BATCH	HDAM MISC.
000247	SPACE 2		
000248	APPLCTN	PSB=DBFSAMP6, PGMTYPE=BATCH	DEDB MISC.
000249	SPACE 2		



000250 ***** <u>*</u> ******************************
000251 * IVP COMMUNICATIONS NETWORK DEFINITION
000252 *********************************
000253 SPACE 2
000254 ************************************
000255 ×
000256 * THE IVP SYSTEMS
000257 * MAKE USE OF 5 TERMINALS
000258 ×
000259 * MVS MASTER CONSOLE - IMS LTERM NAME = WTOR
000260 ×
000261 * IMS MASTER CONSOLE - IMS LTERM NAME = PMASTER
000262 * IMS SECONDARY MASTER - IMS LTERM NAME = SMASTER
000263 ×
000264 * IMS USER TERMINALS - IMS LTERM NAME = USER1
000265 * IMS USER TERMINALS - IMS LTERM NAME = USER2
000266 *
000267 ×



```
Sample STAGE 1 source
000268 * THE MVS MASTER TERMINAL IS DEFINED AUTOMATICALLY.
000269 *
000270 * THE SECONDARY MASTER IS DEFINED AS A PRINTER LINE GROUP. (A SPOOL
000271 * LINE GROUP IS ALSO AVAILABLE FOR USE AS A SECONDARY MASTER)
000272 *
000273 * THE USER MUST MAKE A CHOICE IN THE DEFINITION OF THE OTHER
000274 * TERMINALS. THIS SAMPLE STAGE 1 SOURCE DECK INCLUDES SAMPLE
000275 * TERMINAL DEFINITIONS FOR THE FOLLOWING TERMINAL TYPE --
000276 *
                  VTAM 3270 LOCAL
000277 *
000278 *
000279 * THE IVP IS NOT DEPENDENT UPON NODE (LINE/PTERM) NAMES.
000280 *
000281 * LTERM NAMES AND TRANSACTION CODES ARE USED TO ESTABLISH TERMINAL
000282 * SECURITY.
000283 *
000284 * THE USER MUST ENSURE THAT THE SELECTED TERMINALS ARE PROPERLY
000285 * DEFINED TO VTAM AND MVS.
```



Sample STAGE 1 source

000286 *

000287 * THE MESSAGE FORMAT SERVICES USED BY THE IVP TRANSACTIONS ARE 000288 * DEFINED FOR A DEVICE TYPE OF 3270-A02 (A 24X80 SCREEN SIZE). 000289 * IF THE TERMINALS WHICH ARE SELECTED SPECIFY A DIFFERENT TYPE, 000280 * THEN THE MES SOURCE WILL HAVE TO BE CHANGED

000290 * THEN THE MFS SOURCE WILL HAVE TO BE CHANGED.

000291 *

000295 * COMM MACR0 --

000296 * THE APPLID OPERAND SPECIFIES VTAM APPLID FOR THE IMS CONTROL

000297 * REGION.

000298 * THE PASSWD OPERAND SPECIFIES APPLICATION PASSWORDS.

000299 * THESE OPERANDS MUST MATCH THE APPLICATION IDENTIFICATION

000300 * SPECIFIED IN THE VTAM ACB(S) FOR THESE IMS DB/DC

000301 * SYSTEMS.



<u>0</u> 00302	COMM RECANY=(5,4095),	Х
000303	APPLID=IVP71CR1,	Х
000304	PASSWD=IVP71CR1,	Х
000305	OPTIONS=(PAGING,TIMESTAMP,MFSTEST,FMTMAST,	Х
000306	NOUSEMSG, NOMSPEX, NOMSLEX,	Х
000307	VTAMAUTH,BLKREQD),	Х
000308	COPYLOG=ALL	
000309	EJECT,	
000310	***************************************	
000311	* IVP PRINTER LINE GROUP	
000312	***************************************	
000313	LINEGRP DDNAME=IVPPRT1, UNITYPE=PRINTER	
000314	LINE ADDR=000	
000315	TERMINAL	
000316	NAME (SMASTER, SECONDARY)	
000317	NAME IVPPRT1	
000318	EJECT,	



Sample STAGE 1 source

000320 * IVP SPOOL LINE GROUP LINEGRP DDNAME=(IVPSPL1, IVPSPL2, IVPSPL3), UNITYPE=SPOOL 000322 000323 LINE BUFSIZE=166 000324 SP00L001 TERMINAL FEAT=AUTOSCH 000325 NAME IVPSPL1 000326 EJECT . 000328 * IVP VTAM DEFINITIONS 000330 SPACE 2 000332 * IVP 3270 LOCAL - VTAM 000334 SPACE 2



000335	TYPE UNITYPE=(3270,LOCAL),TYPE=3270-A02,SIZE=(24,80)
000336	TERMINAL NAME=PMASTER1
000337	NAME (PMASTER,MASTER)
000338	SPACE 2
000339	TERMINAL NAME=USER1,OPTIONS=(TRANRESP,NOCOPY)
000340	NAME USER1
000341	NAME HOWARD USED BY THE IMS SAMPLE APPLICATION
000342	SPACE 2
000343	TERMINAL NAME=USER2,OPTIONS=(TRANRESP,NOCOPY)
000344	NAME USER2
000345	SPACE 2



000346 *	THOOPH	HOCDO
000347 * 000348 *	IMSGEN	MHCRU
000348		IMSGEN ASM=(HLASM, SYSLIN), ASMPRT=OFF,
000350		LKPRT=(XREF,LIST),LKSIZE=(880K,63K),LKRGN=900K,
000351		SUFFIX=I,
000352		SURVEY=YES,
000353		NODE=(IVPEXE71,
000354		J93.I71A27.DBDC,
000355		J93.I71A27.DBDC),
000356		OBJDSET=J93.I71A27.DBDC.OBJDSET,
000357		PROCLIB=YES,
000358		USERLIB=J93.I71A27.DBDC.ADFSLOAD,
000359		UMACO=,
000360		MACSYS=SYS1.MACLIB,
000361		MODGEN=SYS1.MODGEN,
000362		UMAC1=,
000363		UMAC2=,



000364	UMAC3=,	Х
000365	ONEJOB=(YES,YES),	Х
000366	JCL=(IMSGEN,	Х
000367	ACTINF01,	Х
000368	'PGMRNAME',H,	Х
000369	(CLASS=A,MSGLEVEL=(1,1),REGION=32M,NOTIFY=JBUTTER),	Х
000370	(USER=JBUTTER)),	Х
000371	SCL=(,,(TIME=600)),	Х
000372	UJCL1=,	Х
000373	UJCL2=,	Х
000374	UJCL3=,	Х
000375	UJCL4=,	Х
000376	UJCL5=	
000377	END,	
*****	**************************************	кжжж

Further Information

- IMS Manuals

- Redbook
- Installation Class

Installation Volume 2 Administration Guide TM Command Reference IMS Primer (SG24-5352 - Chapter 23) Session E56 - IMS V8 Installation Considerations with John Butterweck

