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MEMORANDUM TO: Recipients of OS/VS1 (5741-026)

SUBJECT: Release 2.6 of 5741-026

Thank you for your order. The material you have received is listed on the enclosed Program Shipping Request (PSR). Would you please review the PSR to ensure you have received all items listed?

For a further description of all available material, please refer to the attached Program Directory.

If there are any discrepancies, please report them via the Program Distribution Questionnaire.

IBM PROGRAM INFORMATION DEPARTMENT

K221

PROGRAM DIRECTORY

For Use With

OS/VS1

Release 2.6

Program Number

5741-026

This directory contains information concerning the material and procedures associated with this program.

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PROGRAM DOCUMENTATION

A list of available SRLs may be found in Chapter 4 of the OS/VS1 RELEASE 2.6 GUIDE, GC24-5102-0.

These documents may be ordered by contacting your IBM Representative.

REFERENCE MATERIAL

A list of available Logic Manuals may be found in Chapter 4 of the OS/VS1 RELEASE 2.6 GUIDE, GC24-5102-0.

These documents may be ordered by contacting your IBM Representative.

MACHINE READABLE MATERIAL

BASIC MATERIAL

The basic machine readable material (MRM) is distributed on magnetic tape.

Depending on your order the tapes are two of the following:

<u>External I.D.</u>	<u>Contents</u>	<u>Density</u>
DLIBT1	Distribtuion Libraries (DLIBs)	9/800
DLIBT2	Distribution Libraries (DLIBs)	9/800
DLIBT1	Distribution Libraries (DLIBs)	9/1600
DLIBT2	Distribution Libraries (DLIBs)	9/1600

The DLIBs are on unlabeled tapes and are unloaded partitioned data sets which comprise the Control Program. The tapes contain the JCL necessary to load to either two (2) 2314/2319 or a 3330. See "Processing the Starter System and Distribution Library Tapes" in the OS/VS1 System Generation Reference, GC26-3791-2.

FEATURE MATERIAL

The Starter Operating System which must be used for the first system generation is a 'feature' distributed on magnetic tape.

Depending on your order the tape is one of the following:

<u>Feature</u>	<u>External I.D.</u>	<u>Contents</u>	<u>Density</u>
6000	START2314	2314/2319 Starter System	9/800
6001	START2314	2314/2319 Starter System	9/1600
6002	START3330	3330 Starter System	9/800
6003	START3330	3330 Starter System	9/1600
6999	Starter System not ordered		

The Starter Operating System is on an unlabeled Restore tape and consists of:

1. A control program that supports the CPUs and I/O devices needed to perform the system generation.
2. An assembler (the System Assembler), and a linkage editor.
3. The utilities used for data set and volume initialization and for Stage II processing.

1130 Workstation Program Feature

This is an orderable feature.

Machine readable material consists of eight (8) 80 column cards. This "bootstrap" deck must be added to the front of the 1130 Loader each time the 1130 Workstation Program is used.

<u>Feature</u>	<u>External I.D.</u>	<u>Contents</u>	<u>Quantity</u>
6004	1130BOOTSTRAP	1130 Bootstrap Deck	Eight (80 Col. Cards)

System/3 Workstation Program Feature

This is an orderable feature.

Machine readable material consists of a one hundred thirty seven (137) 96 column card "Starter" deck used to transmit the generated System/3 Workstation Program to the 96 column punch.

<u>Feature</u>	<u>External I.D.</u>	<u>Contents</u>	<u>Quantity</u>
6005	SYS/3STARTER	System/3 Starter Deck	137 (96 Col. Cards)

OPTIONAL MATERIAL

The optional material (source code) is distributed on magnetic tapes. These are arranged in seven groups for your convenience.

Depending on your order these tapes are:

<u>Feature</u>	<u>External ID</u>	<u>Contents</u>	<u>Density</u>
7801	SYM1	Installation Processors	9/800
7802	SYM1	Installation Processors	9/1600
7805	SYM2	Utilities	9/800
7806	SYM2	Utilities	9/1600
7809	SYM3-1	Data Management (1)	9/800
7809	SYM3-2	Data Management (2)	9/800
7810	SYM3-1	Data Management (1)	9/1600
7810	SYM3-2	Data Management (2)	9/1600
7813	SYM4-1	BTAM - ISAM - VSAM	9/800
7813	SYM4-2	BTAM - ISAM - VSAM	9/800
7813	SYM4-3	BTAM - ISAM - VSAM	9/800
7814	SYM4-1	BTAM - ISAM - VSAM	9/1600
7814	SYM4-2	BTAM - ISAM - VSAM	9/1600
7814	SYM4-3	BTAM - ISAM - VSAM	9/1600
7817	SYM5-1	Problem Determination (1)	9/800
7817	SYM5-2	Problem Determination (2)	9/800
7818	SYM5-1	Problem Determination (1)	9/1600
7818	SYM5-2	Problem Determination (2)	9/1600
7821	SYM6-1	Control Program (1)	9/800
7821	SYM6-2	Control Program (2)	9/800
7821	SYM6-3	Control Program (3)	9/800
7822	SYM6-1	Control Program (1)	9/1600
7822	SYM6-2	Control Program (2)	9/1600
7822	SYM6-3	Control Program (3)	9/1600
7825	SYM7	Dynamic Support System	9/800
7826	SYM7	Dynamic Support System	9/1600

PROGRAMMING SYSTEMS

5741-026 is written in Basic Assembler Language.
Prerequisites--None.

MACHINE CONFIGURATION

OS/VS1 is designed to run on System/370 models 135, 145, 155 II, and 158, utilizing Dynamic Address Translation (DAT) and the Extended Control Mode (EC) of these systems. The minimum hardware configuration supported on these processors consists of the following:

- o At least 128K bytes of available real storage (160K bytes is recommended).
- o Two 3330 drives or three 2314/2319 drives.
- o One standard multiplexer channel.
- o One selector or block multiplexer channel.
- o One console device.
- o One reader/punch.
- o One printer.

In addition to the above, at least one tape drive is necessary for SYSGEN purposes and program distribution.

STATEMENT OF MAINTENANCE PROCEDURES

This program will be maintained through the distribution of sequentially numbered program releases. A release replaces the entire program.

The initial availability of this program was Release 1. In the Program Number 5741-010, the last three digits indicate Release 1. Each subsequent scheduled Release will increment this number, e.g. Release 2 is 5741-020; Release 2.6 is 5741-026.

Program releases are shipped when ordered through your IBM representative.

SERVICE CLASSIFICATION

This program is classified as System Control Programming. Contact your IBM Marketing Representative for information concerning available Program Services.

INSTALLATION PROCEDURES

When you receive the System Control Programs, your IBM Field Engineering representative will perform the operations for 'System Generation' described in the OS/VS1 System Generation Reference, GC26-3791-2,

and Chapter 1 of the OS/VS1 Release 2.6 Guide, GC24-5102-0.

After you have generated your system you should keep your Distribution Tape. It can be used for future System Generation.

PROGRAMMING CONSIDERATIONS

The "Memorandum To: Users of OS/VS1" in the OS/VS1 Release 2.6 Guide, GC24-5102-2 should be consulted for a discussion of these considerations.

INSTRUCTIONS FOR USE OF 1130 WORKSTATION BOOTSTRAP DECK
(Feature 6004)

The 1130 Workstation bootstrap deck is described in the RES System Programmer's Guide GC28-6878. It is used in conjunction with the 1130 Loader and 1130 Workstation Program both of which are generated as the result of a Remote Gen (RMTGEN). It is specifically constructed to "bootstrap" the generated 1130 loader into storage. This bootstrap deck must be added to the front of the 1130 Loader deck each time the 1130 Workstation Program is to be used. It will load from a 2501 or 1442 card reader wired for the load-mode sequence initiated by the console "LOAD" button.

INSTRUCTIONS FOR USE OF SYSTEM/3 STARTER DECK
(Feature 6005)

The System/3 Starter Deck and its use are described in the RES System Programmer's Guide GC28-6878. The System/3 Workstation Program is generated as the result of a Remote Gen (RMTGEN). In order to transmit this generated workstation program to the 96-column punch on the System/3, it is necessary to use the System/3 Starter Deck. This Starter system will work on any System/3 defined as a RES workstation. The System/3 Starter System does not include support for IBM 5475, IBM 5471 or IBM 1442 devices. Two cards must be added to the end of System/3 Starter deck in order to use it. The first describes the multi-leaving buffers and the second is a LOGON command. For a further description of the contents of these two cards, see the RES System Programmer's Guide GC28-6878.

Optional Program Material List
for OS/VS1 SCP Release 2.6

The Symbolic Modules for the OS/VS1 SCP are arranged in sequential data sets by Component. The data sets are distributed on unlabeled magnetic tapes that may contain one or more files; each Component constituting a file; (if a Component exceeds 80,000 statements, an additional file is created); and each file formatted as the SYSIN data set IEBUPDTE. The records are 80 character card images blocked by 8000 bytes.

The creation of Symbolic Libraries on disk requires the use of IEBUPDTE to process one of the tape files as SYSIN. Following is an example of the JCL used to create a Symbolic Library.

```
//A      JOB MSGLEVEL=1
//      EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD DUMMY
//SYSUT2  DD (PARAMETERS DESCRIBING OUTPUT PDS)
//SYSIN   DD DSNAME=TAPE,VOLUME=SER=TAPEIN,UNIT=2400,DISP=OLD,
           LABEL=(NOTE1,NL),DCB=(LRECL=80,RECFM=FB,BLKSIZE=8000)
```

NOTE 1 Place file sequence number here.

DESCRIPTION OF TAPES

<u>Tape No.</u>	<u>Track/ Density</u>	<u>File No.</u>	<u>Component</u>	<u>Component ID</u>	<u>No. of Statemen</u>
7801-SYM1	9/800	1	System Assembler	5741-SC1-03	25017
or		2	Linkage Editor	04	21158
7802-SYM1	9/1600	3	Loader	05	5909
		4	PVTMACS		67231

		1	IBCDMPRS	5741-SC1-I0	5261
		2	IBCDASDI	I1	5418
		3	ICAPRTBL	I2	1723
		4	IEHDASDR	U0	16726
		5	IEHIOSUP	U1	1019
		6	IEHLIST	U2	4976
		7	IEHPROGM	U3	5438
		8	IEHMOVE	UC	23760
7805-SYM2	9/800	9	IEHINITT	UD	2436
or		10	IFHSTATR	UE	375
		11	IEHATLAS	UF	4505
7806-SYM2	9/1600	12	IEBTCRIN	UG	6626
		13	IEBCOPY	U6	16331
		14	IEBGENER	U7	6709
		15	IEBUPDTE	U8	5432
		16	IEBTPCH	UA	5000
		17	IEBEDIT	U9	2338
		18	IEBCOMPR	UK	4133
		19	IEBISAM	UH	3190
		20	IEBDG	UJ	13636

7809-SYM3-1	9/800	1&2	SAM	5741-SC1-D0	79928 & 661
or					
7810-SYM3-1	9/1600	3&4	Open/Close/EOV	D1	79937 & 591

		1	PAM	5741-SC1-D2	2778
		2	Catalog	D3	13357
7809-SYM3-2	9/800	3	DADSM	D4	31558
or		4	OCR	D5	5889
		5	MICR	D6	4402
7810-SYM3-2	9/1600	6	DAM	D7	23659
		7	GAM	G0	22782
		8	Password Protect	DC	2089
		9	GSP	07	26480

7813-SYM4-1	9/800	1	BTAM	5741-SC1-20	31932
or		2&3	ISAM	D8	79840 & 2089
7814-SYM4-1	9/1600	4&5	IDCAMS	DK	78730 & 30604

7813-SYM4-2	9/800	1&2	VSAM	5741-SC1-DE	78151 & 78345
or					
7814-SYM4-2	9/1600		(tape 1 of 2)		

7813-SYM4-3	9/800	1	VSAM	DE	77763
or					
7814-SYM4-3	9/1600	2&3	(tape 2 of 2)		79894 & 767

<u>Tape No.</u>	<u>Track/ Density</u>	<u>File No.</u>	<u>Component</u>	<u>Component ID</u>	<u>No. of Stmts</u>
7817-SYM5-1	9/800	1	OBR/EREP/RDE	5741-SC1-CD	79376
or		2	OBR/EREP/RDE	CD	65130
7818-SYM5-1	9/1600	3	RMS	CE	23451
		4	OLTEP	06	46143

7817-SYM5-2	9/800	1	GTF	5741-SC1-11	72751
		2	HMASPZAP	12	3115
		3	HMDPRDMP	13	24851
or		4	HMBLIST	14	15563
		5	HMDSADMP	15	10380
7818-SYM5-2	9/1600	6	HMAPTFLE	16	4826
		7	IMCJOBQD	17	8101
		8	HMDPRDMP (EDIT)	18	19274

7821-SYM6-1	9/800	1	JECS	5741-SC1-B0	63607
		2	Input Stream Control	B1	6110
		3	Output Stream Control	B2	8373
or		4	System Restart	B3	7881
		5	Allocation	B4	65947
7822-SYM6-1	9/1600	6	Q Manager	B5	10810
		7	Initator	B6	43234

		1	Termination	5741-SC1-B7	10759
		2	Commands	B8	47730
		3	Interpreter	B9	25708
		4	Restart Rdr/DSDR Processing	BD	7340
		5	JES Compatibility Interface	DB	19386
		6	System Log	BE	1987
		7	WTP (Write to Programmer)	BF	723
7821-SYM6-2	9/800	8	MSI (Master Scheduler Init.)	BG	3689
		9	DASD ERP	CA	316
or		10	Unit Record ERP	CB	4831
		11	Tape ERP/VES	CC	5967
7822-SYM6-2	9/1600	12	Extended SVC Router	CF	982
		13	IPL	C1	1567
		14	Overlay Supervisor	C2	1111
		15	Supervisor	C5	52932
		16	Ext. Precision Floating Point Sim.	CP	1567
		17	NIP	C8	1072

		1	Fetch	5741-SC1-C7	2431
		2	IOS	C3	5534
		3	DIDOCS	C4	23656
7821-SYM6-3	9/800	4	JAM	D9	21274
		5	Scheduler SMF	00	8356
or		6	SMF	02	679
		7	Checkpoint/Restart	09	22949
7822-SYM6-3	9/1600	8	CRJE	0A	47870
		9	RES	BB	37584
		10	RES Acct. Facility	BC	7128

7825-SYM7	9/800	1	Dynamic Support Sys.	5741-SC1-10	75347
or					
7826-SYM7	9/1600	2	Dynamic Support Sys.	10	78822