



RELEASE DOCUMENTATION

document

System Release
Announcement (SRA)

system ----- 0S/3 -----

product level ----- 8.1 -----

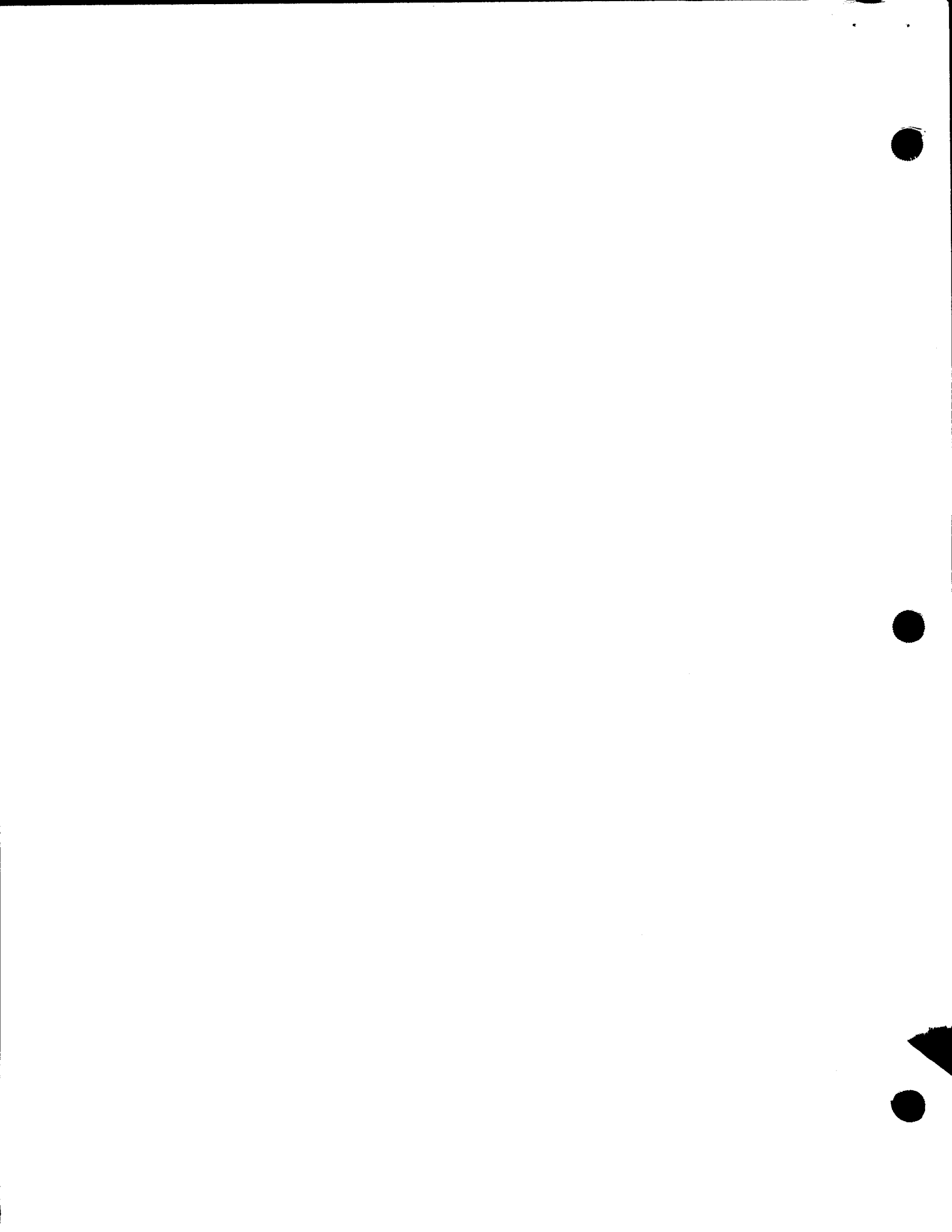
issue number ----- UP-9280.50 -----

software category ----- 1 -----

Product: SPERRY Operating System/3 (0S/3)

distribution

lists:



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1. Introduction

This document announces the availability of the SPERRY Operating System/3 (OS/3) Release 8.1. A brief description of the release enhancements, software category changes, and the request and ordering procedures are provided in the following sections.



2. General Information

2.1. RELEASE DESCRIPTION

Release 8.1 is an interim release of Operating System/3 (OS/3) that provides major performance and functional enhancements. Release 8.1 supports both System 80 (models 3, 4, 5, and 6) and Series 90 (90/25, 90/30, 90/30B, and 90/40) systems.

2.2. RELEASE IDENTIFICATION

Library System: SPERRY Operating System/3 (OS/3)
Release Number: 8.1
Acronym: OS/3 8.1
SUR Library No.: 8.1

2.3. RELEASE ENHANCEMENTS

This section briefly describes the major enhancements contained in OS/3 Release 8.1. These descriptions group the enhancements by performance and function.

2.3.1. Performance Enhancements

o Consolidated Data Management (CDM) Acceleration

CDM acceleration provides improved file access performance (disk, diskette, tape, card, and printer) for Data Utilities, SORT/SORT3, IMS, and user programs compiled under the Release 8.0 version of RPG II, COBOL, or FORTRAN. This enhancement uses a mini central file management and BAL interface that significantly reduces the overhead associated with the current Data Management macro calls.

o MIRAM Sequential Processor

Disk file processing of unkeyed records (for input or output) accessed sequentially is accelerated. Control is transferred to a specialized routine by the MIRAM processor when it determines that the sequential process can be accelerated.

o Accelerated Load Directory Search

The Resident Loader is enhanced to use an indexed-search algorithm when searching the directory of the load library \$Y\$LOD. An ordered directory is created during IPL in the file \$Y\$FDY. The Resident Loader accesses this directory for all requests for \$Y\$LOD.

- o Resident Shared Code Loader

The resident shared code loader improves performance of any product that uses shared code by reducing the number of I/Os required to load a shared code module.

- o MIRAM Multikey Fast Loader

The new utility program MILOAD creates MIRAM-characteristic disk files to provide OS/3 users, operating in a CDM or mixed mode environment, with a significantly faster means for loading large, multikeyed MIRAM files.

- o Transient Management Work Area

Transient Management Work Area is a technique to reduce I/O incurred by the transient loader. This is accomplished through the creation of a user-initiated symbiont (via the console or SYSGEN) that contains highly used transients as determined by a monitoring algorithm. Resident transient management is rerouted into this symbiont prior to any I/O being issued. If present, the transient will be loaded from this work area thus saving the physical disk access.

2.3.2. Functional Enhancements

- o Data Management File Share

CDM now provides a new ACCESS option called user-controlled-protection (UCP). This permits users to access the specified file in a read/write mode, with no restrictions.

- o ESCORT Enhancements

- ESCORT programs locked in a loop can now be cancelled via the FUNCTION key and F4 key with return to the command selection menu.
- A new LIST clause displays multiple records on a workstation.
- Files that are not cataloged can be created and accessed.
- Files that were used in an EXTENDING clause in the same program can now be referenced in a USING clause.
- Forms on the master file and the input file can be used for the CHANGE verb.
- The BY FIELDNAME clause allows users to select the reference key in a multikey file.
- \$LINE processing now can use the number of lines in a form that is returned by Screen Format Services.
- The CHANGE verb is modified when autoforamt is used with a structure on a workstation input.

o IMS Printer File Processing

IMS multithread users can now process user defined printer files; features include:

- Printing character strings of any specified length
- Printer carriage control
- Forms overflow notification
- Breakpointing
- File locking and unlocking

o Conversational Database Manipulation Language (CDML)

CDML assists DMS users in all phases of data base and DML application program design. The primary functions of CDML allow DMS users to exercise the DML verbs and to access a data base interactively without going through the preprocessing, compiling, and linking steps normally associated with a DML application program. If the edited data display option is chosen, data base records can be viewed in edited, readable format along with the data item names that are defined in the source schema; also with this option, a search can be made for data base records that meet a specified condition.

o Unit Record Support for Variable-Length Records

CDM card and printer processing is enhanced to provide variable work-area support. Variable work-area support permits users to have a consistent view of data, independent of the way (fixed or variable record format) the data was recorded on the medium. This support is provided to the BAL users of CDM via the WKFM and TRUNC RIB parameters.

o System Definition Utility (SDU)

SDU is now more tutorial in its description of formats, operations, and error processing including:

- Displaying proper formats for appropriate console queries, helping users to respond accurately.
- Indicating successful or unsuccessful completion of SDU operations.
- Automatically scheduling PRPMIC after SDU has completed, if an IMPL record was added or updated.

o System Activity Monitor (SAM)

SAM enhancements for this release include monitoring:

- Number of polls, by Line (COM)
- Number of bytes transmitted, by Line (COM)
- System 80 device queueing (I/O)
- Byte transfer count, traced by device (I/O)
- Largest contiguous main storage block (MEM)
- Amount of main storage allocated (MEM) to:
 - Jobs
 - Symbionts
 - Buffer pools
 - Shared code
 - Disk cache
- Cache hit rate (MEM)
- DVC parameter to print configuration information (LST)

o Software Maintenance Package (SMP)

The condensed format of the SMCLLOG display routine has been changed to include all SMCs and to mark any SMCs that:

- have been backed out;
- have been replaced; or
- indicate an error during installation.

o Integrated Communications Access Method (ICAM) - UTS 4040 Support

Support for the SPERRY Universal Terminal System 4040 (UTS 4040) Cluster Controller in UNISCOPE mode and for the DATEX-P packet-switched public data network (PDN) is now provided.

2.4. SOFTWARE CATEGORY CHANGES

OS/3 is Category I software; products within the OS/3 system can be Category I, II, or III.

2.4.1. Software Support Category Definitions

o Category I

Category I software receives the full technical and operational support of the developing organization involved, unless otherwise specified in the Product Software Description. Support includes responses to Requests for Change (RFC), Technical Question (TQ) and user group recommendations, corrections to reported problems, and issuance of periodic stability updates. Enhancements that may be made to the software program will be issued as revisions.

o Category II

Category II software receives limited support by Sperry. Support is limited to providing corrections to reported critical problems. The issuance of periodic stability updates is at the option of the developing organization.

o Category III

Category III software receives no Sperry support. Programs assigned to this category generally come from three sources:

1. User-developed software
2. Software development tools
3. Destandardized Category I and Category II software

Such software may be obtained in the general form and degree of completeness, as available. Software in this category is not necessarily properly or completely documented.

2.4.2. OS/3 Release 8.0 Category Changes

o Split-Cylinder Allocation

Beginning with Release 8.0, support for split-cylinder allocation was discontinued.

o 8414 and 8415 Disk Subsystems

Beginning with Release 8.0, the OS/3 operating system was no longer orderable on the 8414 and 8415 disk subsystems; however, support for these disks as data devices continues.

o OS/3 Release 5.2.1

Category III beginning May 1, 1982

o Verification System Build (VSB)

Effective September 30, 1982, the software support level for all verification system build (VSB) changed from Category I to Category II.

o User-Programmed Physical I/O

Beginning with Release 8.0, no new user physical I/O programs are supported. Only systems access physical I/O programs are upward compatible.

2.4.3. OS/3 Release 8.1 Category Changes

There have been no software support category changes as a result of Release 8.1.

3. Release Media

The release system may be ordered for delivery on OS/3 dump/restore tapes, diskettes, or on disk packs as follows:

- o Series 90

- 8416, 8418 (high- or low-density), 8424/8425, 8430, and 8433 disk packs and dump/restore tapes for disk packs

- o System 80

- 8420/8422 diskettes, 8419 disk packs, and dump/restore tapes for 8419 disk packs or 8417 integrated disks with and without the fixed head option



4. Request Procedure

The entire release, including source code, source information, and object code, is Sperry proprietary software. The proprietary agreement must be signed before object media are sent to the requesting site.

Separately Priced Products are proprietary program products of the Computer Systems entity of Sperry Corporation. Program Products are licensed to you for a separate charge, including both Applications and Systems Support Software.

Customers ordering the IMS program product must identify the type as either multithread or single-thread IMS on the order form.



5. Ordering Procedures

Software described in release documents can be obtained by completing and forwarding the request form that accompanies each System Release Announcement. Mail requests to either the local Sperry branch office or directly to Software Order Services:

Sperry Corporation
Software Order Services
Township Line and Union Meeting Roads
Blue Bell, PA 19424

Users must send the proper media (disks, diskettes, or magnetic tape) along with the order form. If desired, users may elect to receive the release on diskettes or magnetic tape provided by Sperry; in this case, a standard fee will be charged for the media.

If the request is made directly to Software Order Services, please forward a copy of the request form to the local Sperry branch office.

Orders for Separately Priced Products are made via special order with proper approval. When ordering these products, make certain requests contain the appropriate type number for the items. Direct questions about ordering these products to the local branch office.

NOTE:

The ordering procedure described applies only to U.S. customers. Users outside the United States should check with their local Sperry subsidiary office for distribution procedures.



Appendix A. OS/3 Release 8.1
Documentation Summary

The OS/3 Release 8.1 Documentation Summary is a history of current published release documentation items.

Item names are abbreviated as follows:

SRA - System Release Announcement. Announces both Software and Hardware availability and briefly describes the release contents.

SRD - System Release Description. Document accompanying newly available software release describing contents, guidelines, and restrictions on use of a new release.

Release-related documents with Release 8.1 are stock items and are assigned UP numbers for identification and ordering purposes. The base UP number for Release 8 is UP-9280.

The following summarizes the Release 8.1 documentation:

<u>UP No.</u>	<u>Date</u>	<u>Level</u>	<u>Item and Description</u>
UP-9280.50	-	8.1	SRA (Release ordering information for Release 8.1)
UP-9280.51	May, 1983	8.1	SRD (A base release document giving details on installing and using Release 8.1 along with guidelines and restrictions.)



SEE REVERSE SIDE FOR COMPLETION INSTRUCTIONS

SHIP TO			CUSTOMER NAME (PRINT IN FULL)		
ADDRESS					
CITY	STATE	ZIP CODE	SOFTWARE SYSTEM		
			<input checked="" type="checkbox"/> OS/3 <input type="checkbox"/> VS/9 <input type="checkbox"/> BC/7 <input type="checkbox"/> OTHER (SPECIFY)		
ATTENTION			QUANTITY OF ITEMS ACCOMPANYING THIS ORDER		
			TAPES <input type="checkbox"/>	DISKS <input type="checkbox"/>	DISKETTES <input type="checkbox"/>

BRANCH/DEPT. NO.	BRANCH/DEPT. NAME	S.O.E.	NUMBER	AMEND.	CUST. NO.	AGREEMENT NO.

ORDER INFORMATION

✓	DESCRIPTION	DISK TYPE	*RELEASE LEVEL	TYPE NUMBER	TEMP-LATE	T R A C K	BPI/TPI	MAGNETIC MEDIA REQ'S
	CUSTOMERS ORDERING THE IMS PRODUCT MUST SPECIFY THE TYPE:							
<input type="checkbox"/>	IMS Multithread		8.1	6232-00				
<input type="checkbox"/>	IMS Single Thread		8.1	6217-00				
<input type="checkbox"/>	8416		8.1					1 Disk
<input type="checkbox"/>	8416 Dump/Restore Tape		8.1			9	800	2 Tapes
<input type="checkbox"/>	8416 Dump/Restore Tape		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8418 Single Density		8.1					1 Disk
<input type="checkbox"/>	8418 Single Density Dump/Restore Tape		8.1			9	800	2 Tapes
<input type="checkbox"/>	8418 Single Density Dump/Restore Tape		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8418 Double Density		8.1					1 Disk
<input type="checkbox"/>	8418 Double Density Dump/Restore Tape		8.1			9	800	2 Tapes
<input type="checkbox"/>	8418 Double Density Dump/Restore Tape		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8424/8425 Dump/Restore Tape		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8424/8425		8.1					1 Disk
<input type="checkbox"/>	8425 Dump/Restore Tape		8.1			9	800	2 Tapes
<input type="checkbox"/>	8430		8.1					1 Disk
<input type="checkbox"/>	8430 Dump/Restore Tape		8.1			9	800	2 Tapes

SPECIAL INSTRUCTIONS

Check item(s) for software required

* NOTE: THE LATEST RELEASE WILL BE SHIPPED UNLESS OTHERWISE SPECIFIED

All users outside the United States should consult their Sperry Univac subsidiary office for distribution procedures.

SEND THIS REQUEST WITH PROPER MAGNETIC MEDIA TO:
 SPERRY UNIVAC
 SOFTWARE ORDER SERVICES
 TOWNSHIP LINE & UNION MEETING ROADS
 BLUE BELL, PA. 19424

APPROVAL: USER D.P. MGR./SPERRY UNIVAC S.A. MGR.

PHONE NO. OR SPERRY NET NO.

INSTRUCTIONS

SHIP TO NAME AND ADDRESS OF RECIPIENT; ALL BILLABLE SOFTWARE AND SOURCE CODE IS SHIPPED TO A SPERRY UNIVAC ADDRESS.

SOE NUMBER AMENDMENT FROM THE EQUIPMENT ORDER FORM FOR SOFTWARE; THESE MUST BE PRESENT FOR ALL BILLABLE PRODUCT ORDERS.

ORDER INFORMATION

DESCRIPTION IF THIS ITEM IS PREPRINTED, USE CHECK BOX TO IDENTIFY THE REQUIRED ITEM; IF NOT, WRITE THE DESCRIPTION AS IT APPEARS IN THE SOFTWARE RELEASE ANNOUNCEMENT OR RELEASE DESCRIPTION, OR THE PRICE BOOK.

TEMPLATE REQUIRED FOR BC/7 REQUESTS AS WELL AS UTS 700 WITH BC/7 PRODUCTS. AVAILABLE FROM THE SOFTWARE RELEASE DOCUMENTATION.

MAGNETIC MEDIA REQUIRED WHEN PREPRINTED, THIS WILL INDICATE THE TYPE AND QUANTITY OF MAGNETIC MEDIA NEEDED FOR THIS PRODUCT, YOUR MAGNETIC MEDIA, WHEN REQUIRED, MUST ACCOMPANY ALL ORDERS EXCEPT WHERE SPECIFIC POLICIES DICTATE OTHERWISE.

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CITY	STATE	ZIP CODE	SOFTWARE SYSTEM		
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BRANCH/DEPT. NO.	BRANCH/DEPT. NAME	S.O.E.	NUMBER	AMEND.	CUST. NO.	AGREEMENT NO.

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<input type="checkbox"/>	IMS Single Thread		8.1	6217-00				
<input type="checkbox"/>	8420/8422		8.1					Diskettes
<input type="checkbox"/>	8420 Diskettes (Fixed Head)		8.1					Diskettes
<input type="checkbox"/>	8417 Dump/Restore Tape		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8417 Dump/Restore Tape (Fixed Head)		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8419 Dump/Restore Tape		8.1			9	1600	2 Tapes
<input type="checkbox"/>	8419 Disk Pack		8.1				1	Disk
<input type="checkbox"/>								
<input type="checkbox"/>								
<input type="checkbox"/>								
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<input type="checkbox"/>								
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APPROVAL: USER D.P. MGR./SPERRY UNIVAC S.A. MGR.

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USER COMMENT SHEET

Your comments concerning this document will be welcomed by Sperry Univac for use in improving subsequent editions.

Please note: This form is not intended to be used as an order blank.

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(Revision No.)

(Update No.)

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