UNISYS

Software Release Announcement

CTOS® Batch Manager II 2.3.1

product acronym:

BM

product alias:

B25-BM2

You can order additional copies of this document through your branch representative or from Unisys Corporation, Corporate Software and Publications Operations, 13250 Haggerty Road North, Plymouth, Michigan 48170.

Distribution lists:
UML: PR5, SA, SN, SW, BT055, BT056
URC: 114, 120, 122, 224, 225, 227, 228, 231, 502

System: CTOS II
Release: 2.3.1
May 1993
Part number: 4393 3159-001

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Section 1
General Description

This section contains:

- An introduction to the Software Release Announcement (SRA)
- A concise description of CTOS Batch Manager II 2.3.1 software, including major options and important new or existing features, and information on related families of products
- Batch Manager II 2.3.1 product style names and available distribution media you can order

Introduction

Unisys uses a Software Release Announcement (SRA) to announce a new product release. The SRA provides you with release-specific technical details and ordering information. It complements marketing, sales, and other customer product information. You can order extra copies of the SRA.

The SRA tells you about interdependency and migration considerations and additional sources of information. Use this information for planning decisions and ordering purposes.

Product Description

The Batch Manager allows users to execute batch jobs, under control of Job Control Language (JCL) files, in the primary or the secondary application partition.

CTOS Batch Manager II 2.3.1 is designed for Real and Protected mode operating systems. CTOS Batch Manager II 2.3.1 needs to be installed after Standard Software 12.2 or greater is installed.

CTOS Family of Products

The CTOS family of products includes:

- The modular family of CTOS workstations and components, with built-in cluster networking
- The CTOS and CTOS II multitasking, multiuser operating system, utilities, and system services, including use on an XE-530 Shared Resource Processor™ (SRP™)
- CTOS and CTOS II communications, environmental, and application software
- Unisys customer services
- Line-of-business and general solutions

CTOS Batch Manager II 2.3.1

CTOS Batch Manager II 2.3.1, which is an extension and enhancement of Batch Manager II 2.2.0, is designed to run under Real and Protected modes of BTOS II 3.2.1, CTOS I 3.3.3, CTOS II 3.3.3, CTOS III 1.0.0, and CTOS/XE 3.0.1 or higher operating systems.

The application is used in four major areas:

- It allows users to execute batch jobs, under control of Job Control Language (JCL) files, in the foreground (primary) or background (secondary) partition.
- It executes the last program in system initialization, which transfers control to the sign-on screen.
- It can be used to install system services at the workstation, server, and Shared Resource Processor (SRP) levels.
- It is used by the Installation Manager utility to install software via Install.jcl files. Batch Manager II 2.3.1 is installed via Installation Manager.

The CTOS Batch Manager II 2.3.1 package includes foreground and background functionality. For information about installing, and operating Batch Manager, refer to the *CTOS Batch Manager II 2.3.0 Installation, Configuration, and Programming Guide.* Batch Manager includes this document, but you can also order it separately.

Software Ordering Information

The following table lists Batch Manager II 2.3.1 media types and component style IDs that you can order separately. You can order extra copies of individual components to suit your needs. See Section 10 for ordering procedures and part numbers.

Batch Manager II 2.3.1 is available on 3-1/2 inch and 5-1/4 inch diskettes.

Description	Style ID:
For BTOS II 3.2.1, CTOS I 3.3.3, CTOS I 3.4.0, CTOS II 3.3.3, CTOS II 3.4.0, or CTOS III 1.0.0 Workstations	MB25-BM2
For CTOS/XE 3.0.1, 3.3.3, 3.4.0 XE-530 Shared Resource Processors	XB25-BM2

Section 2
Release Functionality

This section briefly describes new and enhanced features and functions in this release. The *CTOS Batch Manager II 2.3.0 Installation, Configuration, and Programming Guide* provides complete details about enhancements.

New Features

New features provided in Batch Manager 2.3.1 are described below.

New Batch Statements

The following statements are new to Batch Manager:

DeviceType

DeviceType returns a numeric value that indicates the type of device specified by the device name argument. This allows the user to determine the device type from which software installation will be performed. The format is as follows:

type = DeviceType(devicename)

where devicename identifies the device (e.g., 'f0') and the type returned is one of the following:

0 = unknown device
1 = 5-1/4 inch floppy (low density)
2 = 5-1/4 inch floppy (high density)
3 = 3-1/2 inch diskette (low density)
4 = 3-1/2 inch diskette (high density)
5 = hard disk

FileOpenStatus

This function checks to see if the file specified can be opened in a given mode. The format for this function is:

error = FileOpenStatus(filespec,mode)

where filespec is the name of the file and mode defines the mode in which the file is to be opened. Valid modes are defined by the filesystem and currently consist of:

'mm' - mode modify
'mr' - mode read

The return value is an error code if the file cannot be opened in that mode for any reason. This error is not put in the 'Erc' variable. The function returns a zero if the file can be opened.

% Variable Enhancements to Meta Characters

The % meta character is now extended to include external variable names. These external variable names are used exactly like the current internal variables. The only exceptions to this are the batch statements *DisplayLocal*, *AssignLocal*, and *GoTo* which all refer by definition to local variables. To use an external variable, it must be identified by the % meta character (for example, *%VariableName*).

JCL files with external variables can be used only on systems that are currently running Environment Services. If Environment Services is running and the external variable being read does not exist, a syntax error (ERC 5) occurs and the JCL terminates.

Level 2 Compliance Security

A user's batch job is now registered and deregistered with the access control kernel. The user can optionally specify the "user role" for the submitted batch job in the executive command.

Batch
JCL File
[Parameters]
Batch Queue
[After Date/Time]
[Priority]
[Repeat After Time]
[Job Expiration Date]
[User Role (for Access Control)]

Refer to the *CTOS Access Control Administration Guide* for more information on User Roles.

Section 3
Product Improvements

This section describes corrections and improvements provided by Batch Manager II 2.3.1.

Corrections

This section describes corrections to certain restrictions, limitations, and operational conditions found in the release preceding the Batch Manager II 2.3.1 product. Corrections are described relative to the operating environment, including a brief description of the original symptoms, if appropriate.

Symptom: Batch Manager does not inform if file is not found during JCL processing.

Correction: Batch now displays the name of the file followed by ERC 203.

Symptom: Background Batch causes the system to hang.

Correction: Batch would hang if the *[After Date/Time]* parameter specified was previous to the current date and time. This is now fixed.

Symptom: Malfunction about '\' Metacommand in $Display or $Displayline.

Correction: Batch now correctly displays a single quote if \' is found within a string in $Display or $Displayline.

Symptom: Empty string cannot be assigned contents when local under Batch Manager.

Correction: Null strings can now correctly be used with any string statements within either local or global variables.

Symptom: Sysinit.jcl file fails to execute.

Correction: Batch looked for :Signon:... entries in the .user file in a set order. If the entries were in a different order, some of them would not be found. This now works regardless of order.

Symptom: Incorrect Batch Status display, showing job still executing.

Correction: Batch Status now displays Idle after a job finishes.

Symptom: Error 5 (Undeclared Variable or Symbol Table Full) after second run of Batch job.

Correction: The variable table was not getting reset between Batch background jobs. This is now corrected.

Symptom: String operations may cause Batch to crash with GP Fault.

Correction: The $CopyString statement GP faulted if the index value exceeded the string length. This is now fixed.

Symptom: Size and number of parameters passed to a RUN statement appear to be limited.

Correction: Batch would sometimes have a large string data storage problem. This string problem is now corrected.

Symptom: Maximum space for string variable is < 4.5Kbytes instead of 6Kbytes.

Correction: Batch now has 6Kbytes of memory allocated for strings.

Symptom: GOTO statement disrupts IF-ENDIF accounting within a WHILE statement.

Correction: Using $GoTo to jump outside an $If block which was within a $While block would result in a syntax error. This has been corrected. $GoTo can now jump out of an $If or a $While block. Jumping into an $If or $While block from an external location is still prohibited.

Symptom: Cannot set a variable to a null string.

Correction: Batch has been modified to have zero length null strings. The statement $StringLength returns a length of zero for any variable which contains a null string. Null strings can be assigned with a double set of single quotes (for example, a = '').

Symptom: Batch Manager loops if sbString.len = 0 in rgsbParams.

Correction: Batch Manager now correctly handles zero length strings in the rgsbParams of a Batch Scheduling Queue Entry.

Symptom: ClusterShare service would not install on second GP board through the JCL file.

Correction: Batch incorrectly added space characters to the parameters passed to any GP0x board on an SRP which was not GP00. This results in long $Command statements being truncated and then misinterpreted. This problem is now corrected.

Symptom: Batch will not install in 175Kbytes as stated in the 2.2 *Batch Manager II Installation, Configuration, and Programming Guide.*

Correction: The 2.3.0 *Batch Manager II Installation, Configuration, and Programming Guide* correctly states that Batch requires 300Kbytes as did the Batch 2.2 SRA.

Symptom: Sysinit 12.1.0 does not return errors with CONTINUEONERROR option set.

Correction: Batch now displays an error message before continuing execution of the JCL file if $ContinueOnError is specified.

Symptom: Batch queue is removed, with a message: No Batch Partitions Are Active.

Correction: Batch now correctly allows a background job to queue another job to the same or different queue without removing the original queue.

Symptom: Password appears on the screen.

Correction: Batch no longer displays the password on the screen when executing the $Path statement.

Symptom: String comparison of different strings results in unexpected results.

Correction: String comparison operations will return true for like strings and false for unlike strings.

Symptom: JCL failure and sysout file corruption after use of StrToNum and ConcatStrings operation.

Correction: JCL failure and sysout file corruption no longer occur when executing Batch.

Symptom: Passworded systems cause Erc 80 and Batch Manager failure.

Correction: Installing the sysin and sysout bytestreams now reports an error, if the protection level for BatchMsg.bin is set at zero. Setting the protection level to five or greater results in the correct installation of Batch.

Symptom: A spooler device cannot be specified, in the Job card, in both foreground and background.

Correction: Any spooler device can now be specified for the sysout file.

Symptom: ErcMsg construct contains linefeed at end of string.

Correction: The ErcMsg string no longer has a linefeed as its final character.

Improvements

This section describes several Batch Manager II 2.3.1 product improvements.

Background Partitions

The Batch background partitions are now loaded into upper memory above 1Mbyte. This results in more memory being available for real mode applications.

SRP SysOut File

The system initialization SysOut file on an SRP is now configurable. This enables a SysOut file to be specified on a password protected system in an unprotected directory so that a password does not have to be put in the SysInit.k.jcl file (where k = r, n, or m).

Section 4
Product Interdependencies

This section contains:

- Information on interdependent software releases and hardware you need to use with the various functional components in the Batch Manager II 2.3.1 package
- Random-access memory (RAM) and media sizing requirements
- Information on the supported software release levels of all required products

You can use the information in this section to configure your system. A suggested configuration for minimal input/output functionality includes:

- Your CTOS hardware, including a hard disk, networking modules, modems, and printer or plotter
- Your CTOS operating system, including the Mouse Service
- Your networking software and the appropriate printer driver
- CTOS Generic Print System/Generic Print Access System (GPS/GPAM) and the appropriate printer driver

Interdependent Software

The following table describes the interdependent software releases you can order for use with CTOS Batch Manager II 2.3.1. The table also describes the nature of the interdependencies and lists style names and release levels (for ordering purposes). For products that have had recent releases, the table may also include the previous release level.

Note: *For CTOS Batch Manager II 2.3.1, Unisys fully supports and recommends the releases listed in this table. If you are using older releases, consider migrating to these releases at the earliest opportunity. Older releases of interdependent software may work with CTOS Batch Manager II 2.3.1, but Unisys may not fully support them. If you require a correction to an older release, Unisys may ask you to upgrade to a newer release.*

As newer releases become available, Unisys may no longer offer certain ordering and support services for older releases. Review the applicable Software Release Announcement (SRA) for future compatibility and service information. See Section 10, Ordering Procedure, for part number information.

Description	Style ID:	Release
CTOS/XE	XE530-MOS	3.4.0
CTOS I Real Mode Operating System	B25-ROS	3.4.0
CTOS II Protected Mode Operating System	B25-POS	3.4.0
CTOS III Protected Mode Operating System	B25-V10	1.0.0
CTOS Context/Window Manager	B25-CM6	4.1.0
CTOS OFIS Mail	B25-XM2	8.1.0
CTOS BNet II	B25-BNT	2.0.0
CTOS Local Event Management	B25-LEM	2.0.0

Note: *Style IDs vary according to CPU type (B24 through B39, SuperGen Series 1000, 2000, 3000, 5000) and Operating System type (Server, Cluster, or Stand-alone workstations.).*

For more information on equipment configurations, software, and Style IDs, contact your Unisys representative.

Additional information is also available in the Software Release Announcements associated with the various products.

Interdependent Hardware

This section provides information on hardware products you can use with CTOS Batch Manager II 2.3.1, effective May , 1993. Hardware includes workstations, processors, modules, monitors, and keyboards.

Workstations and Processors

CTOS Batch Manager II 2.3.1 operates on the newest models of B26, B27, B28, B38, and B39 workstations. Batch Manager II 2.3.1 supports the following workstation models:

- B38-EXP International Workstation
- SuperGen series 2000
- SuperGen series 3000

  Note: *The SuperGen series 3000 must be used with CTOS III, 1.0.0.*

- SuperGen series 5000

Batch Manager II 2.3.1 supports the following shared resource processor:

- XE-530

  Note: *You can execute foreground Batch on any SRP board, but background Batch requires the XE-530 GP board due to memory restrictions.*

Monitors and Graphics Modules

CTOS Batch Manager II 2.3.1 requires a monitor. CTOS Batch Manager II 2.3.1 does not require a graphics slice to operate. Batch Manager displays in character mode on all systems using graphics slices and monitors supported by your CTOS/BTOS operating system.

Keyboards and Pointing Devices

CTOS Batch Manager II 2.3.1 requires a keyboard. You can use Batch Manager with K1, K2, K3, K4, K5, and K6 (SuperGen) keyboards.

You can also use the PC-101-KBD keyboard with SuperGen series 3000 workstation using CTOS. Batch Manager allows mouse redirection for applications using Mouse.

Disk and Tape Drives

CTOS Batch Manager II 2.3.1 requires a 3-1/2 inch or 5-1/4 inch drive for software installation only. Batch Manager does not require a 3-1/2 inch diskette or 5-1/4 inch floppy diskette or tape drive to operate. However, these drives are useful for storing CTOS files on removable media.

Media Sizing

The following table lists approximate media sizing considerations for all required Batch and Batch installation files:

Description	Sectors
Batch.run	526
BatchMgr.run	514
BatchStatus.run	222
BatchSupvsr.run	17
BatchMsg.bin	20
InstallBatch.run	107
InstallBatchBS.run	20
InstallBMgr.run	99
InstallBSpr.run	105
Cli.run	12
BatchStatusForm.lib	31
Request.Cli.sys	5
Install.jcl	12
Install.cmds	13
Install.ctrl	1
fdSys.version	1
'Batch Manager Diskette 2 of 2'	0
Total Sectors	1,705

Random-Access Memory (RAM) Sizing

As a guideline, the following table shows the RAM considerations you can use as a typical memory requirement. Your particular use determines your exact RAM needs.

Using this table, you can also identify the mode of memory each program uses. Each program uses all available memory in its memory partition, up to the maximum. Real mode programs can only use a partition in the first megabyte of RAM. Protected mode programs can use a partition above, below, or spanning the first megabyte of RAM.

Description	Type	Memory Mode	Bytes
Foreground			
Memory used by Batch.run in the primary partition	Sys Svc	Real & Protected	
For an average JCL file			180K
For a large JCL file			200K
Protected Mode Background			
SysIn/SysOut	Sys Svc	Protected	9K
Batch Supervisor	Sys Svc	Protected	25K
Default Batch partition	Sys Svc	Protected	300K
Real Mode Background			
Batch Supervisor	Sys Svc	Real	22K
Default Batch partition	Sys Svc	Real	300K

Note: *With the Queue Manager, the total memory used for one batch queue is about 400KB. Additional queues use more memory.*

Background Memory Requirements

Batch partition installation requires sufficient free memory for both the batch partition and the Executive. If for example, there are 350KB free memory on a system, **Install Batch** requires 300KB to install the Batch partition. The remaining 50KB memory is not sufficient to load the Executive in the primary partition. When **Install Batch** is invoked, error 400 is returned, since the partition is not large enough for both Batch and the Executive (about 500KB are needed for both).

Section 5
Customer Product Information

Unisys packages product information into Libraries or Literature Sets for each product. Also, for your convenience, Unisys offers various ways to reorder product information to fit your needs.

- Library: Customers who wish to purchase the entire suite of books, including binders and slipcases, may do so by ordering the Library part number.
- Literature Set: Customers who wish to purchase individual books with binders and slipcases may do so by ordering the Literature Set part number.
- Individual books: Customers who wish to purchase individual books without binders and slipcases may do so by ordering the book part number.

See Section 10, Ordering Procedure, for part number information. Unisys includes all applicable errata and updates with each part number. Updates contain any preceding errata.

As release levels higher than those listed become available, review the applicable SRA for compatibility information.

Section 6
Support

This section provides support categories and warranties information. It also provides information about any discontinuance of support for previous release levels (or features in those releases) and the effective date for support discontinuance. Unisys may also provide you with information about support discontinuance in a Discontinuance Announcement.

The CTOS Batch Manager II 2.3.1 software is in Support Category 1 and Warranty Class 1. It is fully supported and enhanced, and it is warranted for 90 days to conform to Unisys published specifications.

Support Type	Statement
Support Category 1	fully supported and enhanced
Support Category 2	supported only, with no enhancements
Support Category 3	neither supported nor enhanced

Warranty Type	Statement
Warranty Class 1	warranted for 90 days to conform to Unisys published specifications
Warranty Class 2	not warranted and is provided "as is"

Support Discontinuance

With this release, effective May 1993, update maintenance support for all CTOS Batch Manager II release levels prior to this release is discontinued. If you are currently using any prior release level, you should consider migrating to release level 2.3.1 at the earliest opportunity. If you require a correction to a prior release level, Unisys may ask you to upgrade.

Section 7
Migration Requirements

This section contains:

- An overview of hardware and software pre- and post-migration requirements and restrictions
- Any differences and implications relating to older or newer release levels
- Information about recommended reading
- Information about any special upgrade help or procedures that are available, required, or recommended.

From Older Release Levels

There are no specific tasks required to migrate from previous release levels to CTOS Batch Manager II 2.3.1.

Installation Methods

This release uses the same file names as older releases. Installation using **Installation Manager** overwrites files with the same name in the [Sys]<Sys> or [!Sys]<Sys> directories. You can review file names in Section 9, List of Files on the Product Media.

On a BTOS II 3.2.1, CTOS I 3.3.3, or CTOS II 3.3.3 systems, the files Batch.run and BatchMsg.bin must be copied to [Sys]<Sys> before using Installation Manager. For a Floppy Installation, these files are copied from [F0]<Unisys>. For a Server Installation, these files are copied from [!Sys]<Sys>. Failure to copy these files results in possible screen corruption or system failure due to incompatibilities with the Batch files on these earlier versions. If this occurs, the system can be booted, and Installation Manager can be used again to install Batch Manager II 2.3. The problem does not occur a second time.

Source Location of Files

To identify source volume and directory locations, review files listed in the <Unisys> directory in Section 9, List of Files on the Product Media.

Installed Location of Files

The installation volume is:

- [!Sys] on an XE or CTOS Server
- [Sys] on a CTOS workstation

The installation path must be [Sys]<Sys> or [!Sys]<Sys>.

Upgrade Assistance

For details on available upgrade assistance services, contact your Unisys representative or reseller.

Section 8
Restrictions and Known Limitations

This section contains descriptions of certain restrictions, limitations, or conditions known as of the date of release, as follows:

- Restrictions may include such items as unsupported hardware and software products or functional elements within those products
- Known limitations may include elements of implied or stated functionality where that capability does not, to some degree, exist
- Conditions may include nuances which may or may not require a detour, caution, or some degree of operator awareness

Headings and descriptions relate the items to your environment. Where possible, this section states whether restrictions, limitations, or conditions are permanent. If they are not, it may state a planned release level (or date) that lifts the restriction. Restrictions, limitations, or conditions may be permanent if they are part of the CTOS Batch Manager II design. In this case, they are beyond current price, performance, or technical constraints.

Unisys provides this information so you can avoid or work around known restrictions, limitations, or conditions you might otherwise find when using CTOS Batch Manager II 2.3.1. The Unisys SureNet electronic bulletin board also provides problem correction and avoidance information.

Existing Items

The following restrictions and limitations still exist in this release of CTOS Batch Manager II 2.3.1. Except where noted, these items are a permanent part of the CTOS Batch Manager II 2.3.1 design.

Installation Problems

The files Batch.run and BatchMsg.bin must be copied to [Sys]<Sys> before installing Batch Manager II 2.3.1 on BTOS II 3.2.1, CTOS I 3.3.3, CTOS II 3.3.3 CTOS/XE 3.0.1, and CTOS/XE 3.3.3 systems. See Section 7 for more information on installing Batch Manager II 2.3.1.

Service Installation Constraint

You can install system services using a JCL file only during system initialization or using foreground Batch in the primary partition.

[F1] - Redo Buffer

The redo buffer function is not accessible once the Batch or Batch Foreground command has been executed.

Installation Manager Variables are Read-only

The following Installation Manager variables are read-only and should not be changed using Batch JCL statements: CmConfigFile, CmdFileFrom, DeviceFrom, DirectoryTo, InstallType, MsgFile, Pkgs, Public, Unattended, and VolumeTo.

Installation when Batch.run is Executing

When you use Installation Manager to install Batch Manager II 2.3.1, Batch.run should not be executing with a system initialization or another Installation Manager session on another system or XE board. Otherwise, a file-in-use error is generated and the installation fails.

Installation when BatchMgr.run is Executing

When you use Installation Manager to install Batch Manager II 2.3.1, BatchMgr.run should not be executing in a background partition. Otherwise, a file-in-use error is generated and the installation fails.

RestartLabel

The Restart capability, provided with foreground Batch, updates the filehandle of the JCL file containing the RestartLabel. Therefore, JCL files using RestartLabel must not be write-protected. If this is impossible, copy the protected JCL files to a scratch disk and reference the scratch disk instead of the protected medium.

Storage of String Variables

There is a 6Kbyte limit on the total number of characters assigned within string variables. There is a maximum of 64 local and 64 global string variables. Each string variable has a limit of 2Kbyte characters. The alternative to using a large number of string variables or most of the available memory for strings is to take advantage of the features InitMsgFile() and GetMsg(). This way, a text file can be created, translated into a .bin file, and accessed through a numeric message reference via one or more reusable string variables.

Tilde Character on the SRP

Occasionally, a tilde (~) character is displayed after system initialization on an SRP containing real mode boards. This is because the master board processes faster than the real mode boards. When this is encountered, the user should press ACTION-FINISH on the keyboard to cause processing to resume and the exit run file, SignOn.run, to be invoked. Placing the Real Mode board JCL statements before any Protected Mode board JCL statements can, in some cases, prevent this problem from occurring.

Prompt Displays Without a Keyboard Attached

If the keyboard is not plugged in when a user input prompt displays, the display quickly scrolls through the choices. This prevents the user from making a choice since plugging in the keyboard does not stop the scrolling.

Restart Fails In Nested Called JCL Files

Restarting a JCL file sometimes does not correctly work if the previous execution failed after a $RestartLabel statement within a called JCL file.

Partition Installation on Protected Systems

Using Install Batch to install a background partition on systems that are protected with wssysvolumeprotect or where the server is protected with Access Control results in no error message being reported although the partition is not installed.

Batch Bytestream Service

The Batch bytestream service cannot be installed after any real mode service. It must, however, be installed before the Task Manager service.

Public Installation of Batch

Batch Manager background software loaded publicly can only be used by the server and any clusters which do not have local hard disks. To create a background Batch queue on a cluster local file system, you must first use Installation Manager to install the Batch software from the server. To use the Batch Status command from a cluster local file system, you can copy the file [!Sys]<Sys>BatchStatusForm.Lib to [Sys]<Sys> if you do not wish to use Installation Manager to download all of the background Batch software from the server.

Variable "Processor" on SuperGen Series 5000

Although the SuperGen Series 5000 workstation is powered by an 80486 CPU, the predefined variable Processor is set to value 2 (indicating an 80386 CPU) on all SuperGen Series 5000 workstations.

Protected Swap Files in the [Sys]<Sys> Directories

The Install Batch command fails if swap files such as SwapArea00.sys and SwapArea01.sys are password protected.

Section 9
List of Files on the Product Media

This section describes the software distribution media. It organizes this information by product and available media. The Batch Manager II 2.3.1 package contains one 3-1/2 inch diskette or two 5-1/4 inch floppy diskettes.

The following tables list the volume, directory, and file names on each type media.

3-1/2 Inch Media

Shown by location and file names.

3-1/2 Inch Diskette [B25BM2-1] Volume

<Sys> Directory

BadBlk.sys	CrashDump.sys	FileHeaders.sys
Log.sys	Mfd.sys	SysImage.sys
Install.cntrl	Install.cmds	Install.jcl
FdSys.version	Request.Cli.sys	

<Unisys> Directory

Batch.run	BatchMsg.bin	BatchStatus.run
BatchSupvsr.run	BatchMgr.run	BatchStatusForm.lib
InstallBatch.runInstall	BatchBS.run	InstallBSpr.run
InstallBMgr.run	Cli.run	

5-1/4 Inch Media

Shown by location and file names.

First Diskette [B25BM2-1] Volume
<Sys> Directory

BadBlk.sys	CrashDump.sys	FileHeaders.sys
Log.sys	Mfd.sys	SysImage.sys
Install.cntrl	Install.cmds	Install.jcl
FdSys.version		

<Unisys> Directory

Batch.run	BatchMsg.bin	BatchStatus.run
BatchSupvsr.run	BatchStatusForm.lib	

Second Diskette [B25BM2-2] Volume
<Sys> Directory

BadBlk.sys	CrashDump.sys	FileHeaders.sys
Log.sys	Mfd.sys	SysImage.sys
Batch Manager Diskette 2 of 2		fdSys.Version
Request.Cli.sys		

<Unisys> Directory

BatchMgr.run	Cli.run	InstallBatch.run
InstallBatchBS.run	InstallBMgr.run	InstallBSpr.run

Section 10
Ordering Procedure

This section provides software and product information part numbers and release levels.

For ordering information,

- contact your local Unisys representative, sales office, or reseller. Unisys has branches and representatives in most major cities, worldwide.
- United States customers, call Unisys direct at 1-800-448-1424.
- Unisys personnel, use the Electronic Literature Ordering (ELO) system.

Part Numbers

The following part number information should be used for ordering CTOS Batch Manager II 2.3.1 products. These products may include:

- Software media (diskettes/tapes)
- SRA
- Product Information

Documentation Description	Release Level	Part Number
SRA	2.3.1	4393 3159-001
CTOS Batch Manager II Literature Set Literature Set includes: *CTOS Batch Manager II Installation, Configuration, and Programming Guide and,* 3/4 inch binder with slipcase	2.3.0	4393 2219-000
To order individual items:		
CTOS Batch Manager II Installation, Configuration, and Programming Guide	2.3.0	4393 1633-000

Media Description	Release Level	Style ID
CTOS Batch Manager II 3-1/2 inch diskette or 5-1/4 inch diskette	2.3.1	MB25-BM2
CTOS Batch Manager 3-1/2 inch diskette or 5-1/4 inch diskette	2.3.1	XB25-BM2

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