

SPERRY
UTS 30 CP/M Plus™
Level 1R1
Release Description

™ CP/M Plus is a trademark of Digital Research, Incorporated



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Preface

This document describes release 1R1 of the SPERRY Universal Terminal System (UTS) 30 CP/M Plus™. CP/M Plus may be loaded and executed directly from the release diskette or a copy thereof. Special procedures for installing and loading the diskette may be found in the UTS 30 CP/M Plus operator's reference, UP-9839.

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1. Features

SPERRY Universal Terminal System (UTS) 30 CP/M Plus is a single-user, single-thread operating system for Z80* microcomputers that has been licensed from Digital Research, Inc., and configured for operation on the SPERRY Universal Terminal System (UTS) 30 Programmable Single Station. CP/M Plus uses industry-standard flexible diskettes for storage.

CP/M Plus provides a general environment for program construction and storage and an operating system for control of local facilities. The operating system allows the user to:

- select from a wide variety of available business and other application packages from independent software vendors.
- use various computer languages to develop software application programs.
- use the provided utilities for program construction, storage, and editing.

CP/M Plus provides rapid access to programs through a comprehensive file management package. The file subsystem supports a named file structure, allowing dynamic allocation of file space as well as sequential and random file access. With this file system, a large number of distinct programs and applications can be stored for ready use.

A description of the CP/M Plus features, including the unique SPERRY utilities offered in UTS 30 CP/M Plus, will be found in Section 5.

*Z80 is a trademark of Zilog, Inc.

2. Compatibility

2.1. COMPATIBILITY WITH PREVIOUS LEVELS

This is the initial release of UTS 30 CP/M Plus.

2.2. RELATED SOFTWARE PRODUCTS

Not applicable.

2.2.1. Software Products Executed To Construct This Product

Not applicable.

2.2.2. Software Products Executed With This Product

Not applicable.

2.2.3. Software Products Executed With a Program Produced by This Product

Not applicable.

3. Support

3.1. INTERNAL LEVEL NUMBERS

The internal software level of UTS 30 CP/M Plus is 1R1.

3.2. RELEASE HISTORY

This is the initial release.

3.3. SIZING INFORMATION

The memory required to execute the UTS 30 CP/M Plus system is a minimum of 128K bytes.

4. Restrictions and Requirements

4.1. RESTRICTIONS FOR THIS RELEASE

None.

4.2. QUALIFICATION RESTRICTIONS

None.

4.3. HARDWARE RESTRICTIONS

UTS 30 CP/M Plus requires one UTS 30 programmable single station (F3575-00 or -01) with the following added features:

- Low profile keyboard (F3982-04)
- SPERRY 8439 diskette Subsystem (F8439-99) with at least one diskette drive (F3993-00)
- 5¼-inch diskette controller interface (F3990-00)
- One of the following cabinet tops:
 - Standard flat top (F3994-00)
 - Display/tilt top (F3994-01)

The following UTS 30 optional features are supported by CP/M Plus:

- SPERRY 0797, 0798, Model 25, Model 31, and Model 35 printer subsystems
- Up to three additional diskette drives

4.4. SOFTWARE REQUIREMENTS

UTS 30 CP/M Plus requires no additional software.

5. Release Diskette Description

The release diskette contains the following files:

CPM3.SYS	Contains CP/M Plus basic disk operating system (BDOS) and basic I/O system (BIOS), and banked BDOS and BIOS
CCP.SYS	Contains the CP/M Plus Console Command Processor
ASCII.LCS	Supplies standard character set*
CONFIG3.COM	Configures system to selected UTS 30 peripherals*
COPYSYS.COM	Creates a new system diskette*
DCOPY.COM	Duplicates diskettes with one or more diskette drives*
MAKELCS.COM	Generates custom character sets and limited graphics*
LOADLCS.COM	Loads the character sets generated by MAKELCS utility*
MAKEKBD.COM	Allows the user to redefine keyboard functions for optimal applications of CP/M Plus*
LOADKBD.COM	Loads keyboard files generated by MAKEKBD utility*
PREP.COM	Preps diskettes supported by the UTS 30*
SPLINK.KBD	SPERRYLINK loadable keyboard file*
STANDARD.KBD	Reenables standard keyboard tables*
SYSBUILD.SUB	Submit file to help create duplicate system diskette*
CALLVERS.ASM	Contains sample of an RSX module

*Files unique to SPERRY UTS 30 CP/M Plus.

DATE.COM	Sets or displays the date and time
DEVICE.COM	Assigns CP/M logical devices to one or more physical devices, changes device driver protocol and baud rates, or sets console screen size
DIR.COM	Displays extended file display when called with options
DIRLBL.RSX	Extends disk label function for non-banked version
DUMP.ASM	Contains sample of a file dump utility
DUMP.COM	Displays a file in ASCII and hexadecimal formats
ECHOVERS.ASM	Contains sample of an RSX module
ED.COM	Creates and alters character files
ERASE.COM	Erases extended files
GENCOM.COM	Attaches resident system (RSX) files to a command file
GET.COM	Gets console input temporarily from a disk file rather than from the keyboard
HELP.COM	Displays information on how to use CP/M Plus commands
HELP.HLP	Stores help data for help program
HEXCOM.COM	Uses the output from MAC to produce a program file
HIST.UTL	Contains histogram utility for SID (frequency of instruction use)
INITDIR.COM	Initializes a disk directory to allow time and date stamping
LIB.COM	Manages object module library
LINK.COM	Links REL (relocatable) program modules produced by RMAC (relocatable macroassembler) and produces program files
MAC.COM	Translates assembly language programs into machine code form
PATCH.COM	Displays or installs a patch to system or utility
PIP.COM	Copies files and combines files
PUT.COM	Directs printer or console output temporarily to a disk file
RANDOM.ASM	Contains sample of a random disk access program
RENAME.COM	Renames a file
RMAC.COM	Translates assembly language programs into relocatable program modules

SAVE.COM	Saves data in user memory to a file
SET.COM	Sets file options including disk labels, file attributes, type of time and date stamping, and password protection
SETDEF.COM	Sets system options including the drive search chain
SHOW.COM	Displays disk and drive statistics
SID.COM	Helps check programs and interactively corrects programming errors
SUBMIT.COM	Executes multiple commands automatically
TRACE.UTL	Traces instructions for SID
TYPE.COM	Types a file in ASCII
XREF.COM	Produces a cross reference list of variables used in an assembler program
Z80.LIB	Contains Z80 macro library for MAC and RMAC

6. Corrections

None. This is the initial release of UTS 30 CP/M Plus.

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