DOCUMENT TITLE: CP/M System and Utilities, Release 1.2

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1.0 SCOPE

This Software Release Notice describes the release 1.2 of
the Kontron implementation of CP/M 2.2 and its utilities. This
software runs on either the LASER or KDS hardware.
This version supports the same peripherals as the previous
version, with the addition of two 5.5 megabyte Winchester drives
(D: and E:). There are several new utilities, including a
powerful macro processor.

2.0 CHANGE SUMMARY

2.1 BDOS

The ARCHIVE patch has been fixed.

2.2 BIOS

The CP/M Basic I/O System disk routines have been rewritten
to add the winchester capability and to make the floppy disk
I/O more reliable.

2.3 Utilities

a. The following utilities have been added to the utilities
   disk:

CRCK	Check-sum a file
HDFORMAT	Format the Winchester disk
RENAME	Rename files with wildcards
STATUS	Display the CP/M memory, disk parameters
STAGE2	Macro processor
UNLOAD	Convert a COM file to a HEX file

b. The DU utility is no longer shipped on this diskette because it
   is too easy for a customer to damage his directory beyond any
   hope of recovery, using DU.

c. COPY now accepts its inputs in lower-case. It has options to
   copy only the system tracks and to perform a read-after-write
   check.

3.0 SDRs FIXED

None.

The following bugs were fixed:

a. MODEM7 was converted to use SIO a, so it works equally on a LASER or KDS system.

b. COMPKG (formerly COMKLA) was converted to use SIO a, and the baudrate initialization has been corrected. It should now work on both the LASER and KDS.

c. SETSIO has been corrected. It didn't set SIO baudrate parameters correctly.

d. Various linker fixes are described in the Assembler/Linker ETM.

e. Various utilities had to be adapted to the CP/M standard tables of the new BIOS. They are:

        FORMAT   SETSIO
        COPYSYS
        COPY

f. Various utilities were re-linked to use a corrected I/O routine in IOP. They are:

        KONPROM   AZ80
        DIOPROM   A80
        SRCCOM   BINCON

g. The EDIT program was greatly enhanced; it is described in ETM 83-261.

h. COPY and SETSIO were modified to meet the Kontron utility standards

i. SETCRT is now believed to be unnecessary. It is no longer being shipped.

4.0 KNOWN PROBLEMS

4.1 Boot PROM

a. The boot PROM cannot load the system from the winchester disk.

b. The PROM wipes out large parts of the transient program area to read in the directory, to do an unnecessary and consuming file-existence check.

4.2 Utilities

a. No BIOS serial-port driver can handle all of the KDS ports.

b. IF cannot yet check for the disk-formatted condition, or the system-tracks-formatted condition. It should also be able to test the attribute bits of a directory entry.

c. DO doesn't check for a command file which is too long (>128 lines).

d. MODEM7 cannot set the SIO baud rates; it can use only SIO A.

e. COMPKG. can use only SIO A.

f. DO and ZCPR are incompatible in their definition of punctuation characters in command lines.

5.0 HARDWARE & SOFTWARE COMPATIBILITY REQUIREMENTS

These products run on either the LASER or the KDS workstation, on the Z80 in each case. If a winchester drive is to be used, it must have a DTC controller, and be a Seagate ST412 or an IMI 5012H drive. The KLA or KDS must have the 458-1/2 8041 boot PROM installed, NOT the v6.20 PROM.

6.0 DOCUMENTATION

These products are documented in the Utility Manual.

7.0 FUNCTIONAL CHANGES

See CHANGE SUMMARY

8.0 FILE USAGE DATA

8.1 CP/M disk content

File	Description
CP/M system	dated 1983, June 14
ASM.COM	absolute 8080 assembler
DDT.COM	debugger
DUMP.COM	file display routine
ED.COM	text editor
LOAD.COM	file format convertor
PIP.COM	file-copy program
STAT.COM	all-purpose system status routine
XSUB.COM	command-file utility

Note: The following standard CP/M utilities are intentionally omitted from the Kontron CP/M disk. They are available from Kontron upon special request.

SYSGEN.COM   build CP/M system (replaced by COPYSYS.COM)
MOVCPM.COM   reconfigure CP/M for different memory sizes
SUBMIT.COM   command file processor (superceded by DO.COM)

8.2 Utility disk content

File	Status	Description
A80.COM	#	8080/5 assembler
AZ80.COM	#	Z80/NSC800 assembler
BINCON.COM	#	file format convertor
COMPKG.COM	#	telecommunications routine (was called COMKLA.COM)
CONFLICT.COM	**	file-usage checker
COPY.COM	#	fast floppy copy routine
COPYSYS.COM	#	system-track copy routine
CRCK.COM	@	calculate file's check-sum
DIOPROM.COM	#	DataIO PROM programmer routine
DEMO.S2M	@	Demonstration file for STAGE2
DO.COM		command file processor
EDIT.COM	#	text editor
ERAQ.COM		erase-with-query routine
FORMAT.COM	#	disk formatter
HDFORMAT.COM	@	Winchester disk formatter
IF.COM		command file utility
KONPROM.COM	#	Kontron EPP and MPP PROM programmer utility
LINK.*	#	linkage editor
MODEM7.COM	#	terminal emulator, file transfer routine
MPP.COM		PROM programmer routine
PAUSE.COM		command file utility
RENAME.COM	@	file rename utility
SD.COM		super-directory display routine
SETSIO.COM	#	set serial port parameters
SRCCOM.COM	#	compare source files
STAGE2.COM	@	macro processor
STATUS.COM	@	CP/M parameter display routine
SWEEP.COM		file-manipulation utility
UNERA.COM	**	file un-erase utility
UNLOAD.COM	@	convert COM to HEX files

Explanation of status codes:

** These products are licensed software supplied by a software vendor.

@ These products are new for this release.

These products were updated for this release.

9.0 SYSTEM INSTALLATION

The procedure outlined in the Utility Manual should be followed, to backup all disks received from any vendor, including Kontron. The the user should copy the CP/M system to all his other disks using COPYSYS. Although CP/M is not shipped from Kontron on every disk, it is much easier to use the utility or compiler disk (for example) if it has CP/M on it.