

Installation of MP/M II follows the same operation as installing other operating systems under ROM-MJS

Step 1 - Install MP/M II image to selected partition

Step 2 - Boot MP/M II

Step 3 - Post installation actions

Step 1 - Install MP/M II to selected partition

The Extended Debug Monitor program provides the usual monitor commands to display memory, access I/O ports and boot from specified devices. It also provides utility commands to assist with installing a selected OS and can copy the contents of a disk image file to a specified partition.

To list the directory of the FAT partition, use the command:

```
> dir hsa0 (note the > symbol is the monitor's prompt character)
```

```
>dir hsa0
```

```
FAT16 volume mounted on 09
```

```
Partition 01 Type 06
```

Filename	Type	Size	First LBA
MPM2-IMG	BIN	00086800	0001988E
CPM2-IMG	BIN	0002A100	00019CC6
CPM3-IMG	BIN	00059800	00019E1E

```
>
```

The monitor supports the FAT filesystem with files stored in the root directory only.

To copy an OS image to a partition use the following command:

```
> image hsa0:(image.bin) hsa(n)
```

Where: hsa0 represents the name of the FAT partition (first FAT partition on the SD card)

hsa(n) represents the desired partition for the CP/M or MP/M installation hsa(2-4)

```
>image hsa0:mpm2-img.bin hsa4
```

```
Destination partition starts at LBA 0000FB04
```

MPM2-IMG	BIN	00086800	0001988E
----------	-----	----------	----------

Filename found.  
Caution, if you proceed with this operation,  
the destination partition will be overwritten.

Please press Y to continue or any other key to abort.

Export: file size is :00086800  
Export: first cluster is :00000003  
Export: file starts at LBA 0001988E  
Image copy completed

>

Step 2 - Boot desired operating system

The Debug monitor allows you to boot from any partition of type=52 (CP/M)  
that has the appropriate  
bootloader installed.

The boot command has two formats.

b <device name> <partition> - Boot from the specified device and  
partition

b <enter> - Boot from default device and first "active" partition

In our case the SD card device name is HSA and the partition number would  
be the  
partition you installed the OS on (2, 3 or 4).

If you installed MP/M onto HSA4 you can use the following example:

```
>b hsa4  
Booting MP/M II
```

LDRBIOS3 V0.2 for the Multicomp by Max Scane December 2015

```
MP/M II V2.1 Loader
Copyright (C) 1981, Digital Research
Nmb of consoles      = 2
Breakpoint RST #    = 6
Memory Segment Table:
SYSTEM  DAT  FF00H  0100H
TMPD    DAT  FE00H  0100H
USERSYS STK  FD00H  0100H
XIOSJMP TBL  FC00H  0100H
RESBDOS SPR  F000H  0C00H
XDOS    SPR  CE00H  2200H
BNKXIOS SPR  C400H  0A00H
BNKBDOS SPR  A100H  2300H
BNKXDOS SPR  9F00H  0200H
TMP      SPR  9B00H  0400H
LCKLSTS DAT  9800H  0300H
CONSOLE DAT  9600H  0200H
```

```
-----
MP/M II Sys  9600H  6A00H  Bank 0
Memseg  Usr  0000H  8000H  Bank 1
Memseg  Usr  0000H  8000H  Bank 2
Memseg  Usr  0000H  8000H  Bank 3
Memseg  Usr  0000H  8000H  Bank 4
```

```
MP/M II V2.1
Copyright (C) 1982, Digital Research
```

0A>

You should also see a login prompt appear on the second console:

```
MP/M II V2.1
Copyright (C) 1982, Digital Research
```

1A>

Congratulations! You have successfully installed MP/M II on the Multicomp SBC.

### Step 3 - Post Installation Actions

MP/M uses user areas on the disk to separate each user. Initially all files are loaded into Drive A: User 0. To allow other users to access system files (such as dir pip etc) these files need to be made available to all users. To do this they need to have their attributes set to SYS and RO.

Use the following command to do this: (from console 0)

```
0A>set *.prl [sys,ro]
```

```
A:ABORT .PRL set to system (SYS), read only (RO)
A:ASM .PRL set to system (SYS), read only (RO)
A:CONSOLE .PRL set to system (SYS), read only (RO)
A:DIR .PRL set to system (SYS), read only (RO)
A:DSKRESET.PRL set to system (SYS), read only (RO)
A:DUMP .PRL set to system (SYS), read only (RO)
A:ED .PRL set to system (SYS), read only (RO)
A:ERA .PRL set to system (SYS), read only (RO)
A:ERAQ .PRL set to system (SYS), read only (RO)
A:MPMSTAT .PRL set to system (SYS), read only (RO)
A:PIP .PRL set to system (SYS), read only (RO)
A:PRINTER .PRL set to system (SYS), read only (RO)
A:PRLCOM .PRL set to system (SYS), read only (RO)
A:RDT .PRL set to system (SYS), read only (RO)
A:REN .PRL set to system (SYS), read only (RO)
A:SCHED .PRL set to system (SYS), read only (RO)
A:SDIR .PRL set to system (SYS), read only (RO)
A:SET .PRL set to system (SYS), read only (RO)
A:SHOW .PRL set to system (SYS), read only (RO)
A:SPOOL .PRL set to system (SYS), read only (RO)
A:STAT .PRL set to system (SYS), read only (RO)
A:STOPSPLR.PRL set to system (SYS), read only (RO)
A:SUBMIT .PRL set to system (SYS), read only (RO)
A:TOD .PRL set to system (SYS), read only (RO)
A:TYPE .PRL set to system (SYS), read only (RO)
A:USER .PRL set to system (SYS), read only (RO)
```

```
0A>
```

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