

CUSTOM ROM UTILITIES

EDISK.SYS Installable RAM disk drive

IMAGE.COM Utility program for manipulating
data stored in the RAM disk drive
controlled by EDISK.SYS

BURN.COM Utility program for sending all or part
of the code to an eprom burner



EDISK FUNCTION AND INSTALLATION

- EDISK creates a disk space from the main memory in addition to the built in EDISKS A: & B:
 - 1-** Reserve enough space for this new Edisk (s) in the main memory.
 - 2-** Copy Edisk to the boot DISC (usually A:).
 - 3-** Create a CONFIG.SYS file containing :
 DEVICE = EDISK.SYS [/SIZE][SIZE] [/TYPE][TYPE...]
 - 4-** Reboot the DESKTOP.

EDISK OPTION

*** TYPE option**

- /H Allocate two halfbank drives of 128Kb each.
- /F Allocate one fullbank drive of 256 Kb (default).
- /D Allocate one (non standard) doublebank drive of 512Kb.
- /M Allocate one (non standard) Megabank drive of 1024 Kb.

*** SIZE option**

- /1 Allocate 64K of System RAM.
- /2 Allocate 128K of System RAM (default).
- /3 Allocate 192K of System RAM.
- /4 Allocate 256K of System RAM.



EDISK INSTALLATION EXAMPLE

- Assume memory set up to 224 K, PAM external drive number set to 2.

DEVICE = EDISK.SYS create one disk (E:) as 128K full bank.

DEVICE = EDISK.SYS / 1 / H allocate 64 for two halfbanks.

- Assume same as above, using a romulator. Your memory limit is now 1 Mb.

DEVICE = EDISK.SYS / FF drive E: and F: will both be set up as 256K fullbanks.

DEVICE = EDISK.SYS / HH drives E:, F:, G:, H: will be all set up as 128K halfbanks.



BEFORE RUNNING IMAGE

- * FORMAT the extra Ediscs created by EDISK
- * Use CHKDSK to check possible DISC corruption
- * Create subdirectory if needed
- * Copy your application files to the Ediscs using standard MSDOS commands.

Now you can run IMAGE program typing ;

[driveletter:][PATH]<IMAGE> [filename]

*→ fichier de commande
(copier le fichier au clavier)*



IMAGE COMMAND SET

Image provides a set of commands to allow file operations, ROM customization and data manipulation, once the ROM image is created in the RAM space.



COMMAND

BASE [New base drive Identifier]

Change the drive identifier that you use within IMAGE to refer to the first of the Edisk drives set by EDISK.SYS.

CHECKSUM [/number of cluster]

Computes the checksum for the current drive structure and writes it into the boot sector.

DIR

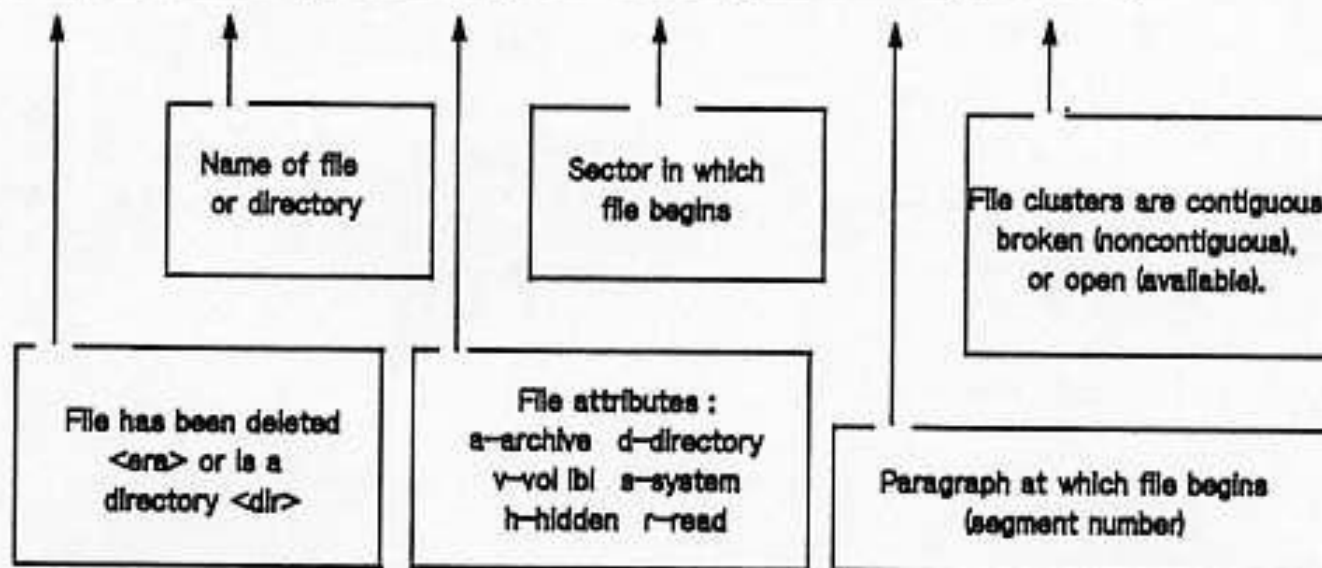
Shows the content of the root directory in the current drive. This is not the same as MSDOS-DIR command. When you type it you will see something like that.

* Using DIR you can get the starting sector of each file which is a parameter of the interrupt 50H.



DIR COMMAND

MASM	.EXE		at sector 0004	(paragraph 0080) broken
LINK	.EXE		at sector 00A2	(paragraph 1440) contiguous
<ara> IMAGE	.COM		at sector 00F6	(paragraph 1EC0) open



COMMANDS

DUMP [I/][segment:]offset [number of bytes]

Dump shows you in both hexadecimal and ASCII characters format, the content of the memory starting at the specified address.

ENTER <offset><new data> [<new data>]

Enter allows you to alter the content of the memory within the current Edisk drive.

EXECCODE <filename>

Execode is used to pseudodelete in a file fullbank drive. It is intended to hide files destined to be treated as ROM executable code.

The first byte of the same name is changed to OE5H.

FORBIDLE +



HEWLETT
PACKARD

COMMANDS

FENCE [last directory sector]

Set in the boot sector the sector's number of the last highest numbered directory sector.

Checks that all directory sectors come ahead of any file sector.

FILL [starting sector [ending sector [value]]]

Fill is used to fill one or more sectors with the specified value. Default is zeroes in all the sectors. Parameters are hexadecimal values.

COMMANDS

HIDE <Filename>

Hide file setting it to system, hidden and read only.

INITCODE <Filename>

Copies a specified file into the boot sector of the current EDISK drive and set a boot sector flag to indicate that the ROM contains ROM initialization code. The maximum size for the file is 464 bytes.

MARK

This command first zeroes out the boot sector and then marks it with :

- * the ROM type designator.
- * the BPB (Bios Parameter Block information).
- * the current time and date.



COMMANDS

OEMNAME [OEM Name String]

Marks up to 8 characters of the OEM name in the boot sector.

QUIT

Exits IMAGE and returns to DOS or PAM.

ROMNAME [ROM Name String]

Marks up to 8 characters of the ROMNAME in the boot sector.

SAVE [/Number of cluster] <Filename>

Copies the entire drive or a truncated version,
out to the specified filename.

The extension is generated by the system :

- HAF for an halfbank.
- EVN & ODD for the two parts of a fullbank.

COMMANDS LAST BUT NOT LEAST

? Displays a list of all the Image commands.

HELP Same as ?.

ALL the commands may be shortened to the minimum number of letters which makes them distinguishable from the other commands.



COMMANDS

SHOW [Filename]

Used to unhide a file. This command undoes the result of a HIDE command.
SHOW without parameter performs the same as DIR.

STATUS

Displays various pieces of information about Edisk drive. All the values displayed are hexadecimal unless otherwise noted.

4: [Edisk drive identifier]:

Used to specify which disk you want to be as the current drive.



IMAGE A MINIMUM COMMAND SET

MARK

Mark BPB in the boot sector.

FENCE

Directory fence written in the boot sector.

0211 —

NAME —

CHECKSUM

ROM's checksum in the boot sector.

SAVE

To save the final image in a file.

QUIT

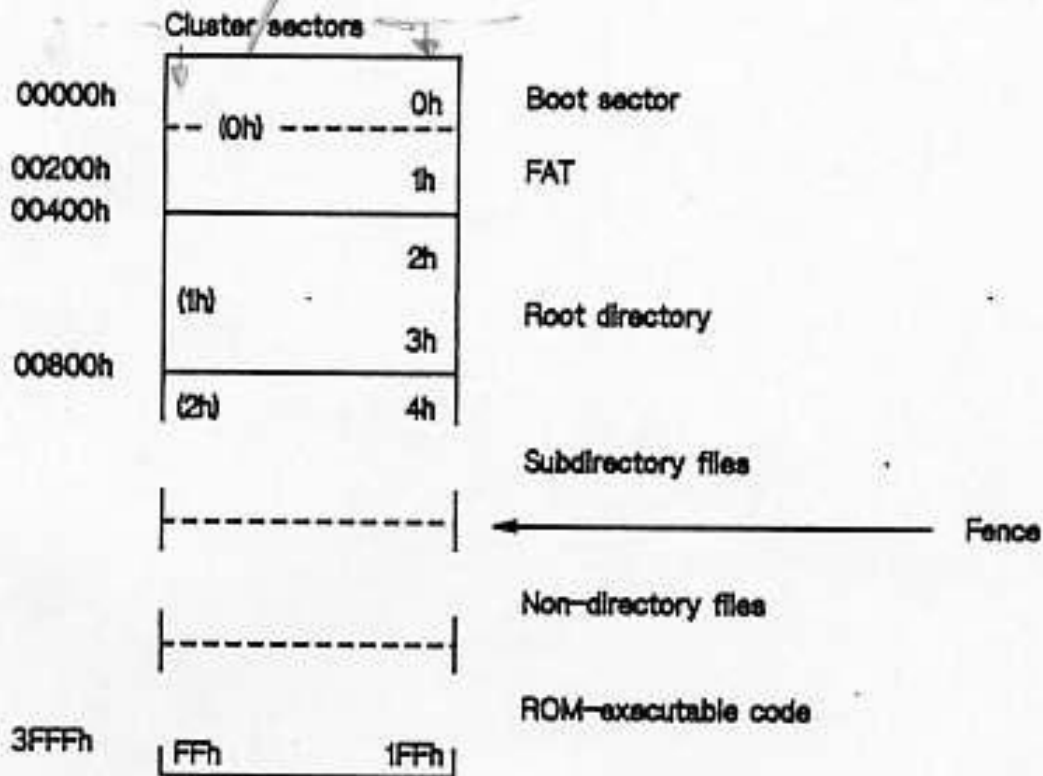
To exit to MSDOS.

FORNELL +



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PLUG IN ROM FORMAT



FORM 414 +



HEWLETT
PACKARD

BURN UTILITY

BURN.COM is an Eprom programmer data transfer utility which acts like a type command. It uses the file you have saved with Image, and allows the redirection of the output.

BURN

→ ex /32:1 pins /32:2 - - - pin Stukcer 324

[/format][/blocksize:[blocknumber]<filename> [>output device]

The FORMAT options are :

- /M** Intel MDS Format (default).
- /X** Motorola EXORCISER ASCII Hex format.
- /R** RCA Cosmac ASCII Hex format.
- /H** Raw ASCII Hex format
- /B** Raw binary format.

