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A/UX: Maximum Hard Drive Volume Size Supported by Macintosh OS

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TOPIC -----

What is the maximum amount of hard disk storage that can be provided for the Macintosh under A/UX and the Macintosh OS? Will A/UX and the Macintosh OS fully support seven daisy-chained drives on the SCSI port? Are there any large SCSI drives that A/UX supports?

DISCUSSION -----

The theoretical maximum amount of hard disk space under Macintosh OS is:

- 2 to the 48th power bytes
- 262,144 gigabytes
- 256 terrabytes

The theoretical maximum amount of hard disk space (file system) under Macintosh A/UX is:

- 2 to 31st power -1 blocks
- 2,199 gigabytes for 1K block filesystem
- 1,099 gigabytes for 512-byte block filesystem

Eight unique IDs are available for SCSI devices: 0 through 7. The Macintosh is always assigned number 7, and the internal hard disk (if you have one) is always assigned number 0. Therefore, you can assign SCSI ID number 0 through ID number 6 (total of seven devices, including internal hard disk) to form a SCSI chain on either Macintosh OS or Macintosh A/UX.

At present, the Apple HD 20SC, 40SC, 80SC, 160SC internal and external SCSI drives are the only ones formally supported by Apple. The following are third parties that support large disk drives for A/UX:

- CMS Enhancements, Inc.
- Racet Computers
- FWB Software, Inc.
- Control Data Corporation (CDC)

To locate a vendor's address and phone numbers, use the vendor name as a search string.

Article Change History:

27 July 1993 - Company title updated from FWB, Inc. to FWB Software, Inc.

28 June 1993 - Revised to state hard disk space as theoretical.

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