

# MASS-STORAGE SYSTEMS

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# Mass Storage Technologies

**Hai Jin, Toni Cortes, Rajkumar Buyya**

## **Mass Storage Technologies:**

*Mass Storage Technologies* Sanjay Ranade,1991      Memory Mass Storage Giovanni Campardo,Federico Tiziani,Massimo Iaculo,2011-02-04 *Memory Mass Storage* describes the fundamental storage technologies like Semiconductor Magnetic Optical and Uncommon detailing the main technical characteristics of the storage devices It deals not only with semiconductor and hard disk memory but also with different ways to manufacture and assembly them and with their application to meet market requirements It also provides an introduction to the epistemological issues arising in defining the process of remembering as well as an overview on human memory and an interesting excursus about biological memories and their organization to better understand how the best memory we have our brain is able to imagine and design memory      Memory Mass Storage Giovanni Campardo,Federico Tiziani,Massimo Iaculo,2011-02-18 *Memory Mass Storage* describes the fundamental storage technologies like Semiconductor Magnetic Optical and Uncommon detailing the main technical characteristics of the storage devices It deals not only with semiconductor and hard disk memory but also with different ways to manufacture and assembly them and with their application to meet market requirements It also provides an introduction to the epistemological issues arising in defining the process of remembering as well as an overview on human memory and an interesting excursus about biological memories and their organization to better understand how the best memory we have our brain is able to imagine and design memory      High Performance Mass Storage and Parallel I/O Hai Jin,Toni Cortes,Rajkumar Buyya,2002 Due to the growth of Internet driven applications issues such as storage capacity and access speed have become critical in the design of today s computer systems Book fills the need for a readily accessible single reference source on the subject of high performance large scale storage and delivery systems Contains the latest information and future directions of disk arrays and parallel I O A Wiley IEEE Press Publication      *Digest of Papers* ,1982

*Mass Storage Systems* Karen Ehrlich Friedman,IEEE computer society,Symposium on Mass Storage Systems,Bernard T. O'Lear,1991      **Digest of Papers** Karen Friedman,1985      **Sixth Goddard Conference on Mass Storage Systems and Technologies Held in Cooperation with the Fifteenth IEEE Symposium on Mass Storage Systems** ,1998      **Fifth NASA Goddard Conference on Mass Storage Systems and Technologies** Benjamin Kobler,1996      *Digest of Papers* Karen Friedman,1984      *Eight Goddard Conference on Mass Storage Systems and Technologies in Cooperation with the Seventeenth IEEE Symposium on Mass Storage Systems* Benjamin Kobler,P. C. Hariharan,2000      *A Survey and Analysis of High Density Mass Storage Devices and Systems* ,1972 A survey and analysis has been made of high density mass storage systems for the Navy Fleet Material Support Office The purpose of the project was to survey mass storage devices and systems and to select several devices for detailed analysis Representative devices were analyzed in order to determine their suitability for various file management functions The major conclusions of the study are the following 1 Mass storage devices have high potential for those applications which have a requirement to store a large data base 1010 1012 bits on line 2 Mass

storage devices should be considered as supplements to conventional storage devices for large data base applications and used as part of a hierarchical storage system rather than as replacements for conventional storage equipment

- 3 Mass storage devices are not competitive with conventional storage equipment for direct access processing
- 4 Erasable mass storage devices are competitive with conventional storage equipment for sequential file processing
- 5 Non erasable mass storage devices are inappropriate for high activity file processing but can be employed to advantage in archival storage applications
- 6 As in the case of conventional storage units the file activity ratio is a prime consideration in the selection of a file processing technique for mass storage

Low activity ratios favor address look up or calculation and direct file access High file activity ratios favor batched input and sequential file access

*USB Mass Storage* Jan Axelson, 2006-07-15

Many mass storage devices store files that PCs or other computers must access To make files available to any PC or other USB host a device can use either of these approaches

- 1 Include a USB device controller and support for USB s mass storage class The files can be stored in any media To access the files from a USB host attach the device to a USB port on the host
- 2 Include a USB host controller and a mass storage driver The device can then store files on the same USB drives that PCs and other USB hosts can access To access the files from another USB host remove the drive from the device and attach the drive to the other host

An additional option that doesn t require USB support on the device is to store files in flash memory cards To access a card s contents from a PC insert the card in a card reader writer device either built into the PC or attached via USB You can also use flash memory cards as the storage media in a device that has a USB interface

A USB device interface is a popular choice for mass storage devices because it s inexpensive to implement and convenient to use Every recent PC has USB 2.0 ports that support the bus speeds used by mass storage devices 12 megabits/sec and 480 megabits/sec Windows and other operating systems support USB s mass storage class

A USB host interface is a good solution if you need a host controller to communicate with other devices or if you want to use off the shelf USB storage devices

This chapter introduces the USB interface and USB s mass storage class

### The Interface in Brief

The Universal Serial Bus is an interface and protocol that enable a single host computer to communicate with a variety of peripheral devices USB is appropriate for just about any kind of mass storage device including hard drives CD and DVD drives and flash drives

The USB specifications are available from the USB Implementers Forum USB IF [www.usb.org](http://www.usb.org)

The USB IF is the non profit corporation founded by companies involved with developing the USB specification

The USB IF also sponsors a developers Web forum provides software and hardware to help in developing and testing products and develops compliance tests for devices hosts and related hardware

The USB 2.0 specification is the main document that defines the interface

### Hosts and Devices

Every USB communication is between a host and a device

The host is in charge of the bus

Devices communicate only when requested to do so by the host

The only exception is the remote wakeup feature which enables a device in the low power Suspend state to request communications with the host

A USB host is a computer that contains USB host controller hardware a root hub with one or

more USB ports and program code to manage communications and events on the bus The host controller hardware formats data for transmitting on the bus and converts received data to a format that host software can understand The host controller also performs functions related to managing communications on the bus The root hub has one or more connectors for attaching devices The root hub in combination with the host controller detects newly attached and removed devices carries out requests received from the host and passes data between devices and the host controller A USB host can be a desktop or notebook computer a handheld or any embedded system that contains host controller hardware and software To communicate with mass storage devices the host must have a driver that supports the protocols defined for USB s mass storage class

*Tenth Goddard Conference on Mass Storage Systems and Technologies* Ben Kobler, Benjamin Kobler, P. C. Hariharan, 2002

**Special Issue on Innovative Mass Storage Technologies** Institution of Electrical Engineers, 2003

**Scientific and Technical Aerospace Reports**, 1993

**Algorithmic Studies in Mass Storage Systems** C.K. Wong, 2012-12-06 A major technological trend for large database systems has been the introduction of ever larger mass storage systems This allows computing centers and business data processing installations to maintain on line their program libraries less frequently used data files transaction logs and backup copies under unified system control Tapes disks and drums are classical examples of mass storage media The more recent IBM 3851 Mass Storage Facility part of the IBM 3850 Mass Storage System represents a new direction in mass storage development namely it is two dimensional With the maturity of magnetic bubble technology more sophisticated massive multi trillion bit storage systems are not far in the future While large in capacity mass storage systems have in general relatively long access times Since record access probabilities are usually not uniform various algorithms have been devised to position the records to decrease the average access time The first two chapters of this book are devoted mainly to such algorithmic studies in linear and two dimensional mass storage systems In the third chapter we view the bubble memory as more than a storage medium In fact we discuss different structures where routine operations such as data rearrangement sorting searching etc can be done in the memory itself freeing the CPU for more complicated tasks The problems discussed in this book are combinatorial in nature

**Innovative Mass Storage Technologies**, 2003

**Jukebox and Robotic Libraries for Computer Mass Storage** Sanjay Ranade, 1992

*Mass Storage Systems* IEEE Computer Society, 1985

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