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Computer
Systems

I-7995 Optical Disk Archive for IBM Mainframes

Highlights

The I-7995 Optical Mass Storage System for IBM mainframes is based on the robust and well proven 5 ¼" optical disk technology. It is IBM 3995 compatible and supports IBM's Object Access Method (OAM) and the EDMSuite. Capacity ranges from 192 to 1076 optical disks respective 998 GB to 5.95 TB and provides a cost effective way to improve document handling, work flow processing and archiving significantly.

Unbeatable Storage Capacity

Optical mass storage provides an unsurpassed price/performance ratio for large amounts of data, currently stored on paper, microfiche, tape or magnetic disk. It provides fast access, improves productivity and reduces costs.

The I-7995 utilizes the well proven and reliable 5 ¼" Magneto Optical (MO) disk technology. Supported is read/write capability with LIMDOW direct overwrite as well as continuous composite WORM (CCW) technology, meeting the legal requirements for long term document archiving.

A 5 ¼ " optical disk holds as many as 5.2 GB of data. With online direct access capability, a particular data file can be accessed within seconds rather than minutes, compared to magnetic tape storage.

High Capacity Automatic Optical Disk Library

The Automated Disk Library (ADL) provides scalability from 192 to 1076 optical disks and can be equipped with up to 8 drives. It provides up to 5.95 GB low cost online storage, while maintaining an average disk exchange time of 6 to 8 seconds.

Barcode Support

Barcode is a standard feature. The Barcode scanner allows easy cartridge identification and fast inventory.

Write-Once-Read-Multiple

The magneto optical CC-WORM recording technique employed by the I-7995 optical disk storage system meets the legal requirements for long term document archiving. Once recorded, data can never be manipulated. This feature, combined with a data storage life time of 35 years qualifies the I-7995 as a long term archive system and as an evolutionary alternative to paper and microfilm.

IBM S/390 and S/370 Connectivity

The I-7995 can be equipped with one to four ESCON and/or Block Multiplex Channel interfaces. Channel data rates ranges from 4.5 MB/s on Block Multiplex Channel up to 17 MB/s on ESCON Channel. With the support of Sysplex, two or more physical or logical hosts can share data on a common I-7995 Optical Disk Archive.

OAM Support under OS/390

The I-7995 is supported by OS/390 OAM (Object Access Method). OAM is a new way of viewing data as objects rather than data sets, blocks, records or count-key-data fields. The user provides data in the form of images, voice, text, fax, multi-media, etc., and the OAM manages it. There's no need to deal with the geometry of a particular storage media format.

Optical Disk Archive

192 to 1076 Optical Disks
948 to 5,995 GB Capacity
2 to 8 Optical Disk Drivers
6 to 8 s Disk Exchange Time

Media

5 ¼ " Magnetic Optical Disk
5,2 GB per Optical Disk
CCW-Worm or Rewritable
35 Years Data Life Time

Application

Workflow Processing
Online Transaction Processing
Long Term Archiving
Microfilm Replacement

Connectivity

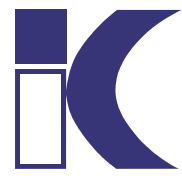
ESCON
Block Multiplex Channel
SCSI

Hardware Compatibility

IBM 3995 compatible

Software Compatibility

OS/390, MVS
OAM Support



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Applications

The I-7995 strengthens the position of mainframes as enterprise wide data servers. It maintains high data volumes and provides fast access to more online data for the ever increasing number of data hungry clients. Applications are available from major vendors, including IBM and Beta Systems.

The IBM Enterprise Document Suite (EDMSuite) provides the following applications:

IBM Image Plus for archiving, real-time processing and workflow management. Large documents and images can be managed cost effectively in electronic format rather than on paper. Displaying and printing images on demand will reduce paper handling significantly.

IBM MQSeries Workflow for business automation and workflow processing. The new view of data as objects rather than as bytes and blocks will simplify and improve access time and work flow management.

IBM OnDemand for COLD (Computer Output on Laser Disk) and print- data archiving. With optical storage, more data can be held online and accessed faster. Clients can do their job more effectively. Optical mass storage eliminates unproductive and expensive wait time for online data processing and avoids manual intervention for offline data retrieval.

IBM ContentConnect for simultaneous access to document archives via the internet.

IBM CommonStore, the universal archiving solution for all types of SAP documents.

IBM ImagePump, the Visualinfo integration solution for Lotus Notes and ImagePlus for enterprise wide Client / Server applications.

Lotus Domino.Doc for enterprise wide document management. In a distributed, web based architecture.

Summary

Optical disk can provide online storage for data, still stored on paper or micro film. Data in electronic format is managed under system control and investigations

for older data can be automated, avoiding manual intervention. The Write Once, Read Multiple (CCW) technology and the 35 year life time for optical storage meet the legal requirements for long term document archiving.

Specifications

Optical Disk Media

Recording Sides	2
Media Capacity	5,2 GB

Technology

5 ¼ " Magneto Optic
LIMDOW Direct Overwrite
CCW WORM Technology

Disk Drives

R/W Data Rate	2,48 to 5,07 MB/s
Average Seek Time	25 ms
External Drives per System	16

Automated Disk Library

Internal Disk Drives per ADL	2 to 8
Data under R/W Heads	up to 41,6 GB
Number of Disks	192 to 1076
Average Disk Change Time	6 to 8 seconds
Total Capacity	5.595 TB
Gripper Technique	Double Gripper
Mean Swaps between Failures	1,400,000
Mean Time to Repair	30 Minutes

Hardware Compatibility

IBM 3995
1 to 4 Channel Interfaces (ESCON or BMC)

Software Compatibility

OS/390, MVS
Object Access Method (OAM)

Operation Environment

110/208V, 25A, 60 Hz
200/240V, 12A, 50 Hz
10 to 80 % relative Humidity
10 to 42 Grad C, 50 to 108 Grad F

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