

.c. Unit 4 Data Center Peripherals;

.c. Purpose;

This unit discusses disk arrays, backup solutions, and high-speed, high-volume printers that you can offer to your Corporate Business System customers.

.c. Objectives;

At the end of this unit, you will be able to describe high-end solutions in the following areas:

- 3 Disk arrays
- 3 Backup solutions
- 3 Printers

You will also be able to discuss HP's plans to support 3480-compatible tape drives from StorageTek.

.c.Introduction;

The high-end customer must have reliable peripherals that have the ability to store, protect, back up, and print an ever increasing amount of data. Today's customers don't want equipment that interrupts on-line users, that needs frequent operator intervention, or that otherwise decreases the availability of the system.

HP peripherals have set an industry standard for reliability, minimizing the expense and frustration of unexpected down-time.

This unit describes three groups of peripherals for HP's Corporate Business System:

3 Disk array technology for increased storage capacity

3 Support of StorageTek's high speed .i.3480 tape backup solution;

3 High-speed, high-volume printing with HP's F100 printer

For more information on any of the products described in this unit, please contact the appropriate sales and marketing center.

.c.High-End Disk Array Solutions;

HP Disk Arrays: The C225X Family

High-end customers want high availability solutions and low storage costs, along with high performance. You can offer all this, plus more with HP's family of C225X disk arrays.

The .i.C225X disk array; family offers increased disk connectivity, a small footprint, increased availability, and controller flexibility.

The C2254HA and C2252HA spread or "stripe" data across two or four disks, storing and protecting up to 2.7 Gbytes or 5.4 Gbytes of usable data. Users may never know that a disk drive has failed or is being replaced. Because these disk arrays include a data protection disk and provide for the on-line "hot" replacement of a failed disk, users can stay on-line without being interrupted when a disk drive is down. Under this configuration, customers can get up to 43.5 Gbytes of storage for each HP-FL interface.

The HP 9000 supports disk arrays in the independent mode, thus improving I/O performance for certain file types.

HP's disk array technology is ideal for your Corporate Business System customers. The C225X disk arrays offer high-end customers increased storage capacity, high availability, increased performance, and greater flexibility.

.c.High-End Backup Solutions;

Customers looking for high-end backup solutions want high performance, compatibility with existing media, and cost effectiveness. While HP has a full range of backup solutions, a high-end customer's needs will best be met through HP's support of the StorageTek's 4XXX series of 3480 compatible tape drives, as well as HP's .i.Optical Library System;

.c.Half-inch cartridge tape by Storage Technology Corp.;

.G.NEWBURST.PCX;1.75";1.233";PCX

High-end computing backup and StorageTek are synonymous. The majority of mainframes or large system installations contain

1/2-inch cartridge tape technology and/or a StorageTek .i. SILO; solution. HP's Corporate Business System supports the StorageTek 1/2-inch cartridge tape solution. Compatible with IBM's 3480 technology, this cartridge tape solution offers the high performance required by customers using mainframe-class systems.

By using multiple tape drives with autochangers, an unattended backup capacity of over 16 Gbytes is possible. By using .i.TurboStore/iX; on the HP 3000 for software data compression, you can offer even greater performance and capacity.

.c.HP Optical Library System;

The HP .i.Optical Library System; is the solution for a maximum capacity unattended backup on the HP Corporate Business System.

On an HP 3000 using .i.TurboStore/iX; and software data compression, the .i.Optical Library System; can perform up to 35 Gbytes per hour with four autochangers with a capacity of up to 70 Gbytes.

On the HP 9000 using HP OmniBack/Turbo, the .i.Optical Library System; can perform up to 24 Gbytes per hour with four autochangers with a capacity of 80 Gbytes.

The Optical Library System can also be used for on-line archival storage of infrequently accessed data. Although the Optical Library System is not a random access device, when used in this manner it can provide a cost-effective alternative to either on-line hard disks or off-line tape storage.

.c.High-End Printing Solutions;

HP 5000 Series Printers

Your mainframe printer customer is looking for an effective way of handling high-volume output. Applications such as billing, invoicing, financial statements, and direct mail can generate hundreds of thousands to millions of pages per month, and require a quality presentation.

Your customer will want a printer that handles very large capacities at printing speeds of 100 pages per minute or more and that has LaserJet-quality resolution. Also they will need sophisticated page formatting tools that can scan images or signatures, that can generate logos or graphics and merge electronic forms with OLTP data. Your high-end customer requires robust spooling capabilities, including page-level error recovery and secure spool files. Paper handling equipment, such as roll feed input, bursters, or envelope stuffers may also enter into the picture. With the HP 5000 series of printers, you can offer your customer all this, plus the ability to route output to compatible printers across the network, from the desktop to the data center.

HP 5000 Model F100 Printer

The .i.printers,F100; printer is the first product in a new family of printers targeted for mainframes. It has twice the speed and duty cycle of the HP 2680 printer. The F100 printer can be directly connected to HP Corporate Business

System systems. It uses the HP PCL4 printer language, an industry standard established by the HP LaserJet Series II printer. It uses fanfold paper and offers a resolution of 300 x 300 dpi. (The HP 2680A prints 180 x 180 dpi.) It can print 100 pages per minute, and 2.8 million pages per month.

.c.HP's Vision for the Future;

HP will continue to offer improved disk arrays, backup devices, and printers that are faster, more powerful, and cost-effective.

For **backup devices**, you can offer customers the future possibility of .i.SILO; support, which will accommodate six thousand 3480 tapes. This will give unattended backup of 6000 x 200 Mbytes or 1.2 terabytes of data. In addition, HP is investigating 3490 tape support.

For **printers**, you can look for the HP 5000 .i.printers, F135XP; printer at the end of 1992. This printer will print a wide line of 17 inches so that customers can print two 8.5 by 11 pages simultaneously. This means that the printer can print a wide page at 135 pages per minute and two 8.5 by 11 pages at 210 pages per minute.

An upgrade to the F100 printer for the F135XP will be available in the fourth quarter of 1992.

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