R Sai Kaushik
CB.EN.U4CSE19449

FEATURES OF OS/2

- Performance:

- Pre-emptive Multitasking :- The operating system, rather than the application, determines the sharing of overall system resources to achieve optimal system performance. This Prevents resources - intensive applications from monopolizing system resources.

- Multithreading :- Multiple units of work operate simultaneously to improve overall Performance. An example is a word processor Performing spellcheck while accepting keystrokes.

- Async Read-Ahead :- This file system enhancement studies disk read patterns anticipates a disk read, and makes it available im memory to improve system throughput.

- System Page Tuning :- Frequently used functions are grouped together so they can be located with the least number of I/O operations.

- High Performance File system (HPFS) :- HPFs has been updated to optimize software for 486 and Pentium Exploitation and optimize cache handling by allowing multiple Lazywrite worker routines.

- Crash Protection :- Applications are isolated so errant programs cannot corrupt and overwrite memory of other well-behaved programs.

- Disk cache :- Frequently referenced disk locations are stored in memory for ready use.

- Connectivity :

- Network Adapters and Protocol Services :- NDIS version 2.0.2 device driver support for variety of LAN adapters has been added.

- Socks security :- Permits TCP/IP applications to access the internet through Socks version 4-complaint servers, and Provides "versatile" Socks client support such and dynamic Domain name service (DDNS). DDNS simplifies network access, operation, and changes with dynamic update of IP addresses and IP hostname transparently.

- Win Sock :- Support Enables winsock 1.1 to be used in conjunction with open 32 and Presentation manager(R) for the Porting of windows 3.x and win95 TCP/IP applications.

- IP Alias support :- Allows a system with a single LAN adapter card to have several IP addresses. This enables os/2 warp to support several web servers on a single system.

- Multicast :- Allows Packets to be transmitted to multiple users Expecially useful for multimedia, telephone and video conferencing.

- Remote access client :- LAN access is Proved via dial connections. The remote access client can dail into either a LAN distance (R) connection Server or os/2 warp Server. Also, one remote access client can dial another remote access client directly to establish a virtual network.

- web-Explorer (IM) :- webExplorer 1.2 Supports HTML 2.0 including Expanded table support, and contains numerous fixes and updates.

- Application Compatibility :
- Security enabling services :- Enables installable security subsystem to provide robust operating systems security services.
- Open Doc :- Runtime support for cross-platform compound documents
- True type Engine :- New PM support is provided for true type fonts.
- Dual Boot :- with Dual boot, a user can easily switch back and forth between os/2 warp and DOS/windows for specific applications.
- XMS, EMS memory support :- older memory extension specifications still being used by DOS applications are supported.
- SOM/DOM/2.11 :- os/2 warp includes support for a language-independent cross platform architecture for sharing objects through SOM/DSOM.
- OpenGL :- OpenGL on os/2 warp is a highly precise 3D rendering API. This portable API allows software developers to include high-quality 3D functionality in their applications. OpenGL is used by CAD, entertainment, industrial design and modeling, biochemistry and scientific visualization applications.
- Open 32 :- To ease the porting of 32-bit windows applications, support for a subset of win32 API's and message is available.

- Hardware support :

- New device support :- In addition to the drivers on the OPPAK, the following new drivers have been added to os/2 warp 4: Trantor (SCSI), 8Logic, Iomega (SCSI), IBM RAID, S3 Trio, Optical, and ESS 1688, ESS1788, ESS1888, Aztech washington 32. Support for more than 80 new Printers, including the Proprietar, low-cost HP Deskjet and Canon Bubble Jet Printers have added.

- self monitoring Analysis and reporting Technology (S.M.A.R.T) :- The os/2 warp generic IDE driver confirms to the S.M.A.R.T. Specification and has been enhanced to include a user interface that warns that users of impending hard drive failure. Data transfer rates for PCI IDE hard drives are faster due to the use of direct memory access (DMA).

- Realtime MIDI :- os/2 warp Provides a framework and API for delivering quality, 32-bit MIDI applications.

- System Managment :

- System Anchor Block :- Serviceability is improved by Providing Pointers to the servers key data structures, minimizing the need for os/2 files.

- Software registration (ART) :- This online registration tool enables the user to register software electronically via a modem or the internet, fax, mail or even by telephone. The user is gently reminded Periodically onthill registration is complete.