The Pile and directory management

Objects in 05/2; object desktop for 05/2 is an advanced desktop Environment. It uses IBm's system object model (som) and the workplace shell (wps) to add features, power, Ease of use, and Performance to the base operation system. Object desktop is targeted at all users of 05/2, but particularly those on small networks and in the home. Object desktop is like a third-party upgrade to 05/2.

object desktop is represented by Icons In 0s/2 is clal called an object and all of them fall into one of the three general categories. And when new versions of 0s/2 are introduced to the general object desktop will automatically inherits those new Peatures and extend them as well.

files in 05/2; There are three general categories of files they are.

- * A great Pile is something that physically takes up spale on disk. It can be an executable program Pile. a word proccessor document, a bitmap. Etc.
- * An abstract object doesn't take up dusk space, encept insofor as it uses an Entry in the system file. Some abstract objects don't have a risible representation, and therefore

don't concern the user; but many of them occur as dasktop loops with properties notebooks.

* The abstract objects that is most likely on a desktop is a Program object. That, in effect, is a pointer to an executable Program like, A shadow is a pointer to a real file or a pointer to an abstract object.

Directory in 08/2: A directory is a location for storing Piles on the Computer, In 08/2 directories are found in a hierarchical fulle system, C the drivers, folders, and the user to see in groups, which allows the user to see in the group only the files they're interested in Seeing

System and management timbile providing supposed for many different file systems, os/2 wrap prefers IBm's proprietary High performance file system (HPFS), which implements the operating system's nature file management functions.

HPFS Provides all the standard file management functions such as opening/closing, creating/deleting, and reading/writing files and directories, as well as proving some file security and other functions via various file attributes.

HPFS uses the directory organization of FAT, but added automatice Sorting of the directories based on Pilenames. Filename length was entended to up 254 characters. It offers resistance to file Pragmentation, improved media errot handing and smaller cluster Size. HPFS also allowed a file to be composed of data and special afteributes to support other naming conventions and sequently. In addition, allocation, units, were changed from clusters to physical Sectors, reducing lost disk space.

OS/2 curap's tigh performance file system clearly offers

Same advantages features concerning its lile management options

and performance capabilities.

Pele data structure t os/2 warp implements its nature file system through various data structures including flo f nades, sectors suns, bt trees, and b trees, Each which plays an important role in the high performance of HPFS. Every file or directory & fixed. on a data structure called Fnede. The Fnede is the first sector allocated to a file or directory tach Fnede contains control and. access control lists, the file length, the directory name and an allocation structure, which defines the size and location of the files or directory name, and an allocation through a collection of Sections of contiguous bytes.

called sector runs (Fromment).

os/2 warp's file data structures including Frodes,

Sector runs. B+ trees, and B- trees allow for quick, efficient implementation of operations on files and directories, providing a vost improvement in file System performance.

The Corner stone of a multiprocessing operating system & the Scheduling, scheduling insures that svery process has a chance to perform it task on the CPU. The osle uses a preemptive scheduler to handle its multiprocessing ability. The priorities PSTat, entered at the command prompt, allows the users to get information about the processes that are ultizing the CPU. Information such as, which process and how long they are utilizing the CPU.

System calls; The interface invokes intended System call in os kernel and greturn status of the system call and any greturn values. File management is a typle of system call used in osl2.