smxFile

- DOS-Compatible, Reentrant File System
- High Performance File I/O
- Directory Management
- All Basic File Functions
- Simple Device Driver Interface
- BIOS and RAMdisk Device Drivers Included
- Floppy and IDE Device Drivers Available
- Real Mode and Protected Mode Support
- No Royalties
- Source Code Included

smxFILE provides embedded systems developers with a DOS-compatible, reentrant file system. This enhances the use of Intel 80x86 processors in embedded systems. It features high-performance file I/O and also provides disk directory management. smxFILE is an ANSI C source code library. The API is similar to POSIX or DOS. The device driver interface is similar to UNIX, but simpler. smxFILE operates in protected mode as well as in real mode.

The smxFILE package is the latest in a series of DOS file system software packages that have been marketed since 1987. It and its predecessors have been included in many commercial embedded applications.

smxFILE is fully integrated with smx. An smx call, create_file_mgr(), allows a task to create its own file manager control block (FMCB). The FMCB is active whenever the task is active. As many (or as few) tasks, as desired, may perform file I/O simultaneously. Low-level I/O calls to the same disk are serialized via semaphores (since actual disk operations are inherently non-reentrant). A platform, FILEdemo, is provided which illustrates the use of smxFILE from multiple tasks.

Code for interfacing to standard BIOS disk services and a RAM disk driver are included. Reentrant floppy and IDE drivers are available separately.

HOST SYSTEMS SUPPORTED:
All DOS and MS Windows systems

PROCESSORS SUPPORTED:
80186, 80188, Intel386™ CX/EX/SX/SXSA/DX, Intel486™ SX, IntelDX2™, IntelDX4™, and Pentium® processors

AVAILABILITY:
Now

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