DIGITAL RESEARCH®

FlexOS™ 186

FACT SHEET

Description

FlexOS 186 is a real-time ROMable executive for computers based on Intel® 80186™, NEC® V20™, and NEC V25™ microprocessors. FlexOS 186 is available in kits for system development and OEM redistribution.

Usage

FlexOS 186 is designed for control applications that require multitasking, guaranteed real-time response, and reprogramming flexibility. Computers used in sensing, motion, collection, and control mechanisms are ideal applications for FlexOS 186. The ability of FlexOS 186 to manage multiple processes without compromising real-time response can be used to extend the functionality of control computers. Additionally, FlexOS 186 can be used to build on-board intelligence into I/O and network controllers in bus-based systems.

Key Features

- **Real-time:** Interrupt latency measurable in the 10s of microseconds; pre-emptive, event-driven dispatcher
- **Multitasking:** Prioritized processes with no limit to the number of processes; interprocess communication and synchronization through pipes and semaphores
- **Development:** C language interface; function set compatible with FlexOS™ 286 and FlexOS™ 386; ability to go from simulation on development system to execution on target system without changing code
- **Memory:** Real-mode; 1 megabyte of addressable memory (minus system overhead)
- **ROMable:** Requires less than 96 Kbytes for system code and data
- **Downloadable:** Applications and drivers can be changed and executed dynamically without system downtime

Development

FlexOS 186 applications and device drivers development are under FlexOS 286 or FlexOS 386 development systems using the native operating system. Because these are full-service, protected-mode systems, developers can design, test, and debug the application/driver using pipes, console I/O, and exception handling for faster and more exact emulation of target machine behavior. The FlexOS 286 development system is a standard IBM® PC/AT™, and the FlexOS 386 development system is a Compaq® DeskPro 386™. The FlexOS 186 target system is any 80186-, V20-, or V25-based system.

Availability Now

DIGITAL RESEARCH INC.

Digital Research Inc. is a privately-owned software company with headquarters in Monterey, California. The company provides system software and GEM graphics applications for the full spectrum of business, professional, educational, public sector and commercial microcomputer use.

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