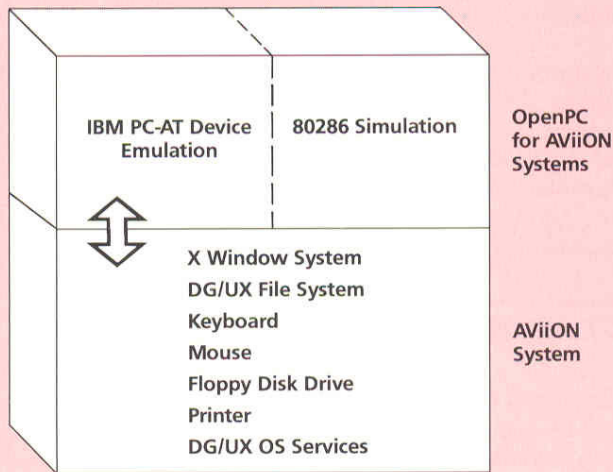


OpenPC FOR AViiON SYSTEMS

Major Emulation Components of OpenPC for AViiON Systems



Data General OpenPC™ provides a virtual PC environment that allows users to run MS-DOS® applications on Data General AViiON™ systems. OpenPC allows MS-DOS and UNIX® applications to run simultaneously and cooperatively on the same computer. For MS-DOS users, OpenPC integrates the popular PC operating system within the DG/UX multitasking environment, allowing access to the DG/UX file system and virtual terminal integration.

AViiON users can now have full functionality in their DG/UX environments, supported by thousands of popular, shrink-wrapped MS-DOS applications, as well as the full spectrum of UNIX applications.

MS-DOS APPLICATIONS SUPPORT

OpenPC supports MS-DOS (Rev. 4.01 or later) and all popular PC applications and MS-DOS facilities that run on IBM PC-AT®-compatible systems. This includes applications such as Lotus 1-2-3®, Microsoft Word®, and dBASE III® Plus.

ACCESS TO DG/UX

DOS applications reside on the DG/UX file system, thus avoiding repartitioning of hard disks. OpenPC can access the native DG/UX file system without modification.

FEATURES AND BENEFITS

- PC-AT emulation for AViiON systems; provides complete compatibility for real-mode PC-AT applications
 - Supports all standard DOS applications, thus protecting users' investment in DOS applications when upgrading to an AViiON system
- MS-DOS file system integrated within DG/UX file system
 - Allows files to be accessed from MS-DOS or DG/UX—all on the same computer
- Runs under X Windows and with serial terminals
 - Allows PC applications to be viewed within a standard X Windows environment
- Hard-copy output from PC applications is sent to the standard host print queue or to local devices
 - Provides more printing flexibility without having to change print queues
- OSF/Motif user interface
 - Standardizes user environment
- Emulates the IBM Monochrome Display Adapter™, Hercules, and CGA video controllers
 - Allows users to run PC graphics applications on an X-terminal or AViiON console

DEVICE EMULATION

OpenPC allows users to run MS-DOS programs under DG/UX on AViiON systems by creating a hosted DOS environment that runs a virtual PC. This is done completely through a software coprocessor, with no hardware required to assist. These enhancements to the basic DG/UX system are made possible by emulating the PC environment.

OpenPC runs as a standard UNIX process. OpenPC emulates an IBM PC-AT configured with any of the following video subsystems: Hercules Video Adapter, Color Graphics Video Adapter, and Monochrome Display Adapter. Other devices that are emulated include:

- 101-key keyboard
- Microsoft Bus Mouse
- Two asynchronous communications ports
- Three parallel printer ports
- Two 20-MB hard disks
- 80287 floating point coprocessor
- Two floppy drives
- Minimum of 1 MB of memory installed (More than 1 MB can be emulated using LIM 4.0 Expanded Memory Manager, supplied as part of OpenPC)

In addition, OpenPC supports the X Window System™ Version 11 system services. This allows OpenPC to be co-resident with X Windows and operate normally within the X Windows environment.

OpenPC, which includes Phoenix Technologies' ROM BIOS PLUS, supports the latest developments in PC technology.

MULTIPLE OpenPC SESSIONS

OpenPC can be executed simultaneously in multiple sessions, however, performance degrades each time a session is added due to the CPU-intensiveness of the software processes. To minimize this degradation, the software includes algorithms that will automatically determine if any "useful" work is being performed by the emulator, so that CPU time can be reserved whenever possible. In addition, since OpenPC operates under the X Window System, it can be run as a distributed application. This balances CPU utilization in a distributed environment.

MINIMUM EQUIPMENT CONFIGURATION

The OpenPC module is available as an option for the DG/UX operating system. The recommended configuration is an AViiON system running DG/UX with a cassette tape drive and a minimum of 8 MB of memory (12 MB is recommended). The AViiON floppy diskette drive is also recommended for loading MS-DOS applications. An X-terminal or AViiON console is required for full graphics support; for character-based support (no graphics applications), a DASHER® D462+, D412+, or D216+ is recommended.

In addition, the current version of MS-DOS is bundled with the OpenPC software, so no additional MS-DOS license is required.

PHOENIX TECHNOLOGIES, LTD.

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