Merge 386

Merge 386™ integrates the DOS and UNIX® operating environments on a single 386-based computer and allows concurrent access by DOS and UNIX users. Each user can run multiple DOS processes concurrently with multiple UNIX processes. Merge 386 combines the multiuser, multitasking power of the UNIX operating system with the versatility and personal productivity of thousands of off-the-shelf DOS applications.

Merge 386 integrates DOS and UNIX files into a single file system. You can use DOS or UNIX commands to access *any* file regardless of its origin, so you can effortlessly share data between DOS and UNIX users. Because data is centralized, you optimize storage efficiency and information flow.
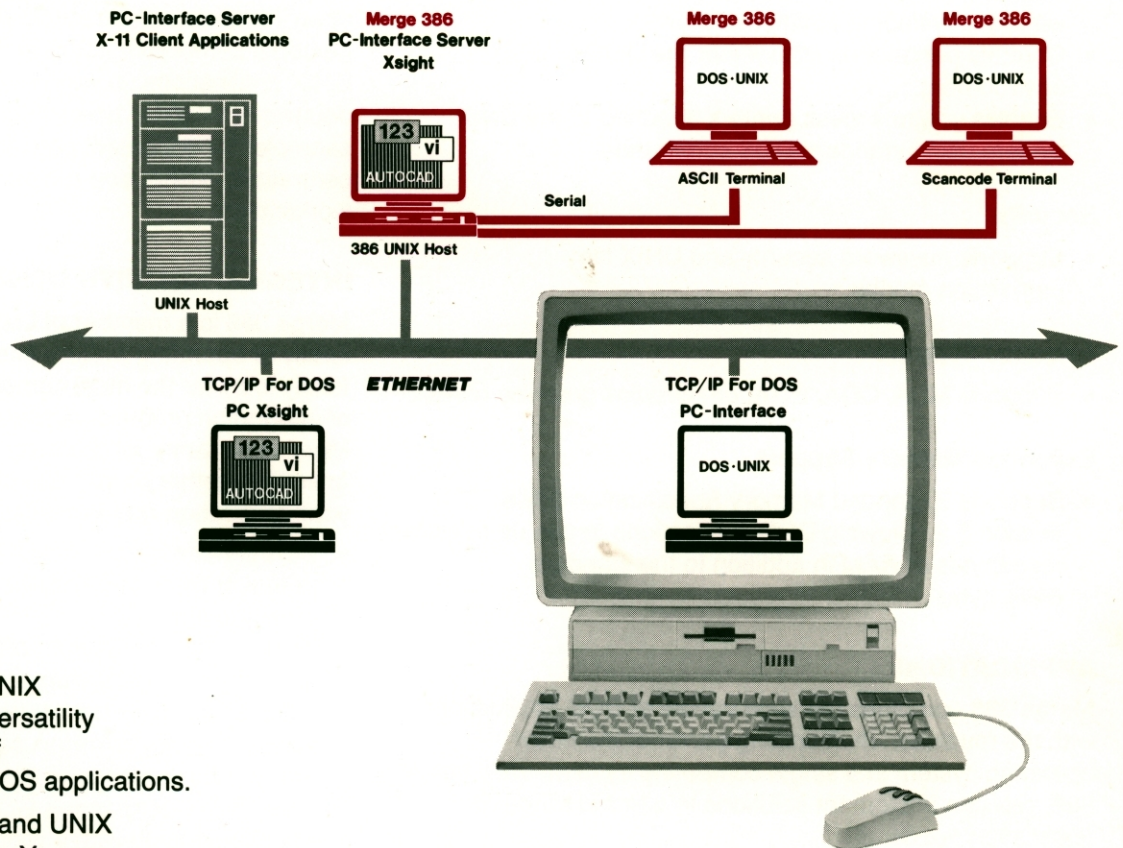
You can use both DOS and UNIX peripherals without writing any additional drivers. And you can access any peripheral from either DOS or UNIX prompts, giving you complete flexibility. DOS and UNIX users can share expensive resources such as laser printers and tape drives, maximizing your return on investment.

Merge 386 not only conforms to UNIX standards, it has become part of those standards — AT&T has incorporated the interface for Merge 386 into standard UNIX System V, insuring compatibility with a variety of UNIX platforms.

Merge 386 places the combined power of the DOS and UNIX operating environments at your fingertips. There's no need for additional training because you use the interface most familiar to you. And Merge 386 is designed to insure high performance when running multiple DOS and UNIX processes.

PRODUCT HIGHLIGHTS

Merge 386 has a comprehensive set of features that effectively integrate the DOS and UNIX operating environments.

Integrated DOS and UNIX Operation

- Runs multiple, off-the-shelf DOS applications concurrently with UNIX applications on the same 386-based computer.
- Permits you to run sessions from either the 386 system console or from industry-standard terminals.
- All standard DOS and UNIX functions are available from either prompt.

Combined DOS and UNIX Applications

- Allows you to combine DOS and UNIX processes in a single application.
- Through PCILIB, a Locus standard Applications Programming Interface, distributed DOS and UNIX applications can communicate and share files and resources.

Integrated File System

- Combines DOS and UNIX files in a single, integrated file system.
- Automatically maps file names that don't conform to DOS naming conventions into file names accessible to DOS applications.
- Permits access to all files with either DOS or UNIX commands.
- Supports DOS file and record locking.

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Shared Peripherals

- Allows utilization of both DOS and UNIX peripherals without developing additional drivers.
- Controls peripherals from either the DOS or UNIX environment.
- Enables you to access printers attached to the UNIX system using standard DOS commands.

Security

- Supports password security and UNIX file permission modes.

Graphics Support

- Supports MDA, CGA, EGA, or Hercules graphics cards.

Expanded Memory Support

- Supports Expanded Memory Specification (EMS) version 3.2, allowing DOS applications to use up to eight megabytes of RAM in addition to the standard 640K bytes.

APPLICATIONS

Merge 386 combines the wide variety of DOS applications with the multiuser, multitasking power of the UNIX operating system in a single computing system. With Merge 386, you can implement solutions to a broad range of application needs.

Engineering/Technical Applications

Your engineers and scientific personnel can use the UNIX environment for technically demanding applications that require UNIX power. And they can take advantage of popular DOS business applications for generating reports and documents.

Distributed Database Solutions

With Merge 386 you can develop distributed database applications that seamlessly integrate the multitasking capabilities of UNIX with the ease of use and extensive presentation capabilities of DOS.

Office Automation

Single or multiple Merge 386 systems can act as the center of an integrated office automation system. You can link personal computers and terminals to run common DOS and UNIX applications as well as share individual and departmental data. Use a DOS word processor, for example, for document preparation, a UNIX application for centralized billing, and run both programs from the same workstation.

INTEGRATION WITH OTHER LOCUS PRODUCTS

Merge 386 is a member of Locus Computing Corporation's family of operating system integration products. The Locus family is by far the most comprehensive and complete set of integration products available from any single provider. More importantly, all products in the family are designed to operate together so you can combine them easily to meet your application requirements.

- PC-Interface™ connects DOS-based personal computers to one or more UNIX hosts either directly or in a local area network.
- Xsight® Window System brings the full functionality of MIT's X Window System to a 386-based workstation.
- PC Xsight Server transforms DOS-based personal computers into powerful graphics workstations to function as inexpensive X Window System terminals.
- TCP/IP For DOS allows DOS-based personal computers to communicate with a wide variety of computers using industry- and government-standard TCP/IP protocols.

TECHNICAL SPECIFICATIONS

Hardware Requirements

The computer system must have at least one Intel 80386™ processor available. Merge 386 does not require any other particular hardware and has been ported to AT-Bus, MicroChannel®, and Multibus environments.

Software Requirements

UNIX System V Release 3.2.
  This version of UNIX includes the Merge 386 interfaces in the UNIX source code release from AT&T.
Merge 386 includes MS-DOS 3.21 and GW-BASIC.

Locus Computing Corporation
9800 La Cienega Boulevard
Inglewood, California 90301-4440
Telephone 213-670-6500
FAX 213-670-2980