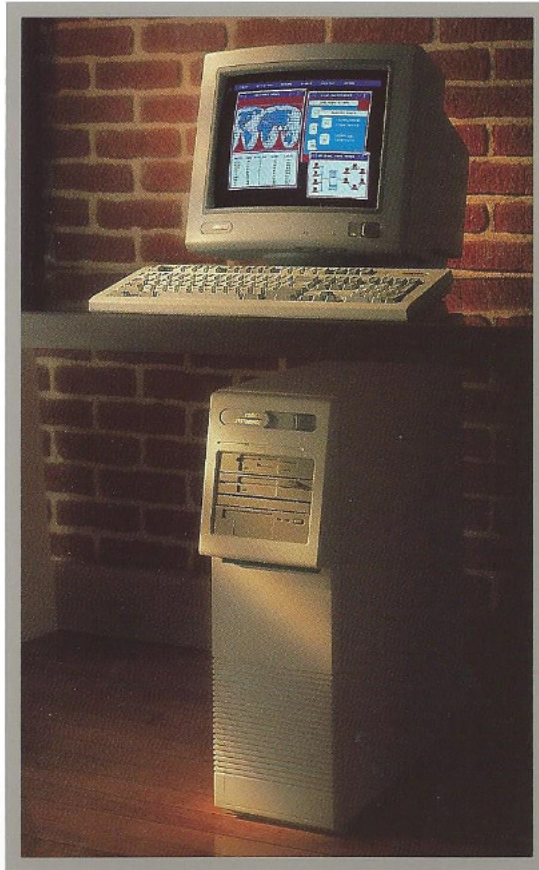


COMPAQ SYSTEMPRO

Family of Personal Computer Systems



Today's fast-paced, competitive businesses find connectivity essential. Their people must be able to instantaneously access, and simultaneously work with, shared information and applications. That's why Compaq continually creates more powerful ways to make it possible.

With its many new options, the highly acclaimed COMPAQ SYSTEMPRO Family of Personal Computer Systems now brings even greater power and capabilities to connected environments. For example, with dual COMPAQ Intelligent Array Expansion Systems, you can boost your base-level storage from 240 MB to a total

system capacity of 19.8 GB. And the COMPAQ 1.3-/2.0-GB Digital Audio Tape (DAT) Drive provides multiple gigabyte tape backup—on a credit-card-sized cartridge.

The COMPAQ SYSTEMPRO can grow from using one of Intel's 33-MHz 386 processors to a superfast multiprocessing system using two of Intel's 33-MHz 486 processors. So it's ideal for a wide range of connected environments. When you combine multiprocessing capabilities with such prodigious storage and up to 256 MB RAM, your system can grow from a file server to a virtual minicomputer, handling complex departmental databases at a fraction of the cost.

COMPAQ

No other personal computer system does so much for so many.

With its innovative flexible system processor design, the COMPAQ SYSTEMPRO lets you choose the processing performance you need. The 33-MHz 386-based COMPAQ SYSTEMPRO is perfect for medium-to-large resource-sharing environments (15-100+ users). For client-server applications such as large databases, the ultrapowerful 33-MHz 486-based COMPAQ SYSTEMPRO is ideal. Its 512-Kbyte ServerCache Design speeds response time to an incredible 33.4

transactions per second (tps) with one 486/33 processor, and 42.4 tps with a dual 486/33 system configuration—as measured in the TPI Database Test, a widely used indicator of relational database system performance.

The test demonstrated that together, the 33-MHz 486 processor and 512-Kbyte ServerCache Design provide exceptional PC computing power for complex workgroup applications such as online query/decision support systems and other applications migrated from minicomputers and mainframes.

Multiply your capabilities and power.

Unlike some systems, the COMPAQ SYSTEMPRO won't grow sluggish as it grows bigger. It's the first PC system to deliver "performance scalability." Its performance can actually increase as options are added.

By growing from a single 386 processor to two 486s, you can nearly quadruple your processing power. With both processors operating simultaneously, the COMPAQ SYSTEMPRO can perform file, application and communications services all at the same time. Individual memory caches optimize processor performance.

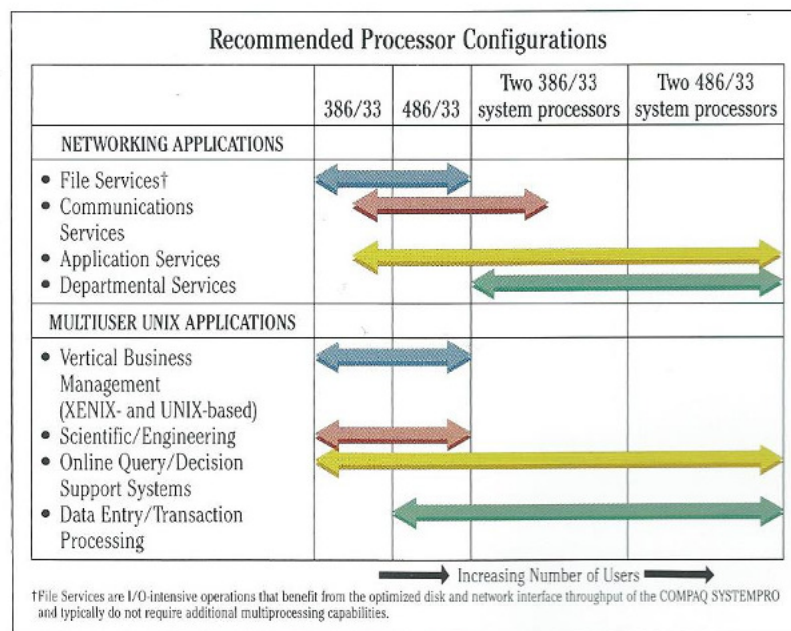
Accelerated I/O performance. Because input/output speed is critical to systems that support multiple

users, the COMPAQ SYSTEMPRO features a powerful Extended Industry Standard Architecture (EISA) bus which takes advantage of faster, more powerful 32-bit expansion boards. Intelligent 32-bit bus master operations accelerate

EISA I/O performance, transferring data to system memory in burst rates up to 33 MB per second, independent of the system processor. COMPAQ Flexible Advanced Systems Architecture with Multiprocessing Support (Flex/MP) allows I/O activity to occur simultaneously with multiprocessing so every component works at its maximum speed.

Drive arrays boost performance and reliability.

Another innovation that gives the COMPAQ SYSTEMPRO such phenomenal power is drive array technology—a breakthrough in performance and reliability for both internal and external storage. With drive arrays, data is





How long-term security for your com

Perhaps your best reason for choosing the COMPAQ SYSTEMPRO is that it's made by Compaq. That's how you know you're getting a personal computer system that's meticulously crafted, rigorously tested, thoroughly reliable, vastly expandable and fully compatible. Just what you need with so much, and so many, depending on it.

Meticulously crafted. Compaq builds in quality at every step of the design and manufacturing process. We thoroughly train our staff in quality control techniques to help ensure zero defects. And we share these techniques with those who supply our components, to help them maintain our uncompromising standards.

Rigorously tested. We perform exhaustive testing at every step of the design and manufacturing process. In our evaluation lab, we run temperature, shock and extended use tests. Before assembly begins, we test the components. At various stages of assembly, we run additional tests. Then we test again when assembly is complete.

Thoroughly reliable. Because of the way we make them and test them, COMPAQ PCs are well known for exceptional reliability. That's probably why we're ahead of both IBM and Apple in MIS and user satisfaction surveys.*

Vastly expandable. Like all COMPAQ products, the COMPAQ SYSTEMPRO has an innate ability to adapt to



Computer investment is built in at Compaq.

changing environments. With its many processing, networking and storage options, it's an equally good choice as a file server for a dozen people or as a powerful multi-processing system for a hundred or more.

Fully compatible. Since you probably have many different brands of computer equipment, you'll appreciate the Compaq commitment to compatibility. COMPAQ products are built on an open industry platform so they're fully compatible with industry-standard operating systems, hardware and software. This means that the COMPAQ SYSTEMPRO will support all the industry-standard (ISA and EISA) computers and components you already have.

You'll find Authorized COMPAQ Computer Dealers are also able to support a broad range of computer products. Specially trained and certified in COMPAQ SYSTEMPRO sales and support, Authorized Dealers are uniquely qualified to integrate the COMPAQ SYSTEMPRO with your existing computer equipment for a high-performance solution. Or they can start fresh and put together an optimal multivendor solution for your specific needs. When you choose an Authorized Dealer whose experience fits your needs, you can look to him or her for both technical support and service. And your Authorized Dealer can look to the Compaq technical support staff as an additional level of support.

Enhance your performance and capabilities with COMPAQ SYSTEMPRO options.

Even in its most basic configuration, the COMPAQ SYSTEMPRO is a powerful computer system. And its growth potential is even more phenomenal. Compaq offers processing, storage, networking, and backup options that can turn your COMPAQ SYSTEMPRO into a virtual mini-computer at a much more attractive price. And because of its performance scalability, your system's performance can actually increase as you add options.



Highest performance, high-capacity array storage expansion.

The COMPAQ Intelligent Array Expansion System complements internal COMPAQ SYSTEMPRO drive arrays by providing high-performance external storage capacity of up to 9.1 gigabytes using seven fixed disk drives. With two Array Expansion Systems linked to the COMPAQ SYSTEMPRO, you have a total system capacity of 19.8 gigabytes of storage—the highest-performing high-capacity array storage available in any PC system. For instantaneous access to such immense storage, the 32-Bit IDA Expansion Controller performs data striping, simultaneous request processing and interleaved data transfers. The Intelligent Array Expansion

System Model 2600 delivers 74 random requests per second, scalable to 221 when configured at 9.1 gigabytes. This advanced drive array technology assures data reliability through drive mirroring, controller duplexing, automatic data recovery, and auto reliability monitoring. It also features a dedicated online spare capability for mirrored configurations which provides a spare drive to automatically take over in the event of a drive failure, restoring the system to full mirrored fault tolerance. Reliability is further enhanced by a differential interface which provides greater signal integrity than is available with conventional SCSI fixed disk drives. A Fixed Disk Activity Panel makes it easy to check drive status. Both audible and visible signals alert you in the event of a drive failure.

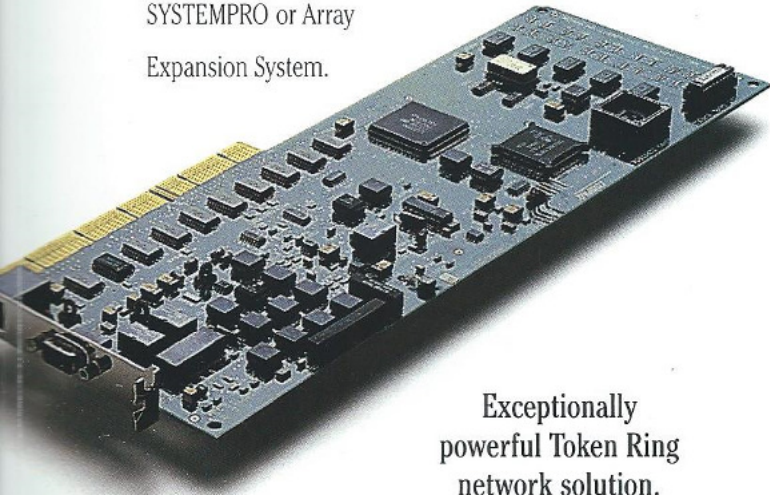
Up to 8 GB unattended backup on precision Digital Audio Tape.

The COMPAQ 1.3-/2.0-Gigabyte Digital Audio Tape (DAT) Drive provides extraordinary tape backup capacity, allowing unattended backup of the COMPAQ SYSTEMPRO array storage.

Using the new industry-standard Digital Audio Tape (DAT) medium, the DAT Drive can back up as much as 4 gigabytes of data on a single tape using an advanced hardware data compression feature. With the COMPAQ SYSTEMPRO, you



can use two DAT Drives to back up as much as 8 gigabytes of data. Three layers of Error Correction Code plus read-after-write verification assure data integrity. Two DAT Drives can be installed internally in either the COMPAQ SYSTEMPRO or Array Expansion System.



**Exceptionally
powerful Token Ring
network solution.**

When you combine the COMPAQ 32-Bit DualSpeed Token Ring Controller with the COMPAQ SYSTEMPRO, you get remarkable total system performance for Token Ring applications such as bridging multiple subnetworks or client-server computing.

By taking advantage of the increased performance of Extended Industry Standard Architecture (EISA), the COMPAQ 32-Bit DualSpeed Token Ring Controller provides more users with fast access to data, with little impact on the server's processing capabilities. The server's system processor can continue performing application tasks while the Token Ring Controller transfers data to system memory in burst rates of up to 33 megabytes per second.

Data is transferred up to 32% faster than with the IBM Token Ring Network 16/4 Adapter/A. This significantly diminishes the "data bottlenecks" which can often occur between server and network—critical for networks that link many users or demand multiple services from the server. Multiple Token Ring Controllers can be installed in the COMPAQ SYSTEMPRO to increase network performance as your needs grow.

*The freedom to choose the best
products from different companies*

All COMPAQ products are designed around Industry Standard Architecture so they work with the largest selection of hardware and software. And with the broadest range of third-party products. For example, you can choose from over 28 different 32-bit cards for the COMPAQ SYSTEMPRO. And you can use thousands of applications without modification.

Compaq is also the only PC manufacturer to enter into formal, in-depth integration agreements with major developers such as Novell, Microsoft, SCO, and Banyan to help you get the full benefit of multivendor solutions. These agreements ensure that you can take full advantage of the unique features in the COMPAQ SYSTEMPRO with such operating systems as Novell's NetWare 386 3.1 and 2.1, Microsoft's LAN Manager, SCO's UNIX System V, SCO's XENIX 386, Banyan's VINES SMP and MS OS/2 as published by Compaq. You'll also get multiprocessing support under SCO's UNIX, Microsoft's LAN Manager and Banyan's VINES SMP. And support for 3Com's 3 + Open.

Through these agreements, platform configurations are jointly defined and tested for optimal performance and reliability, and new products and enhancements are developed. Support personnel from each of the companies are trained on the platform configurations so if a problem arises, whether it's related to hardware or systems software, they can handle it.

These agreements help assure you of a more reliable, optimized, multivendor computing solution for your connected environment. So you can enjoy and integrate the best products from the best companies with confidence.

distributed across a series of fixed disk drives that are addressed as a single, higher-performing unit. This speeds your access to the vast amount of storage available. With our innovative intelligent drive array controllers, the COMPAQ SYSTEMPRO and COMPAQ Intelligent Array Expansion System drive arrays speed response to multiple data requests. And do it so efficiently that performance actually improves as drive capacity increases.

Reliable protection of critical data.

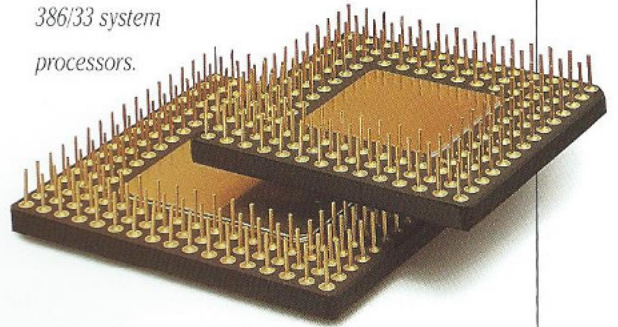
COMPAQ drive arrays also support the most comprehensive range of data protection capabilities available. Drive mirroring, at the controller level, allocates 50 percent of disk storage capacity to create a mirror image of user data. Controller duplexing, at the operating system level, protects both the controller and the fixed disk drives. If one drive or controller should fail, its twin would take over, with no time or data lost. For internal storage, data guarding, at the controller level, protects data while using only 25 percent of storage.

The COMPAQ SYSTEMPRO and the Array Expansion System provide an automatic reliability monitoring feature which scans fixed disk drives and automatically remaps any bad sectors in order to guard against drive disorders. Drive mirroring and data guarding provide for automatic data recovery. This reconstructs data to a replaced drive if drive failure occurs.

For ultimate connectivity.

With the COMPAQ SYSTEMPRO, you can add up to six 32-bit network interface controllers for the highest possible network server throughput. You can choose from the COMPAQ 32-Bit DualSpeed Token Ring Controller or 32-bit controllers for Ethernet, Arcnet, and FDDI networks from other leading vendors.

Multiprocessing. With the COMPAQ SYSTEMPRO, you have the flexibility to configure your system for single processing or multiprocessing, using one or two 486/33 or 386/33 system processors.



Maximum unattended backup. Two COMPAQ 1.3-/2.0-GB DAT drives can be used for unattended backup of up to 4 GB of data (up to 8 GB using an advanced hardware data compression feature).

Vast expandability. The COMPAQ SYSTEMPRO is exceptionally expandable in every respect. Eight MB of memory is standard, expandable to 256 MB without using an EISA slot. Seven EISA-based expansion slots allow you to install a myriad of third-party products—network controllers, gateway boards, etc. As your



storage needs grow, you can add up to two COMPAQ Intelligent Array Expansion Systems, allowing you a total system storage capacity of 19.8 gigabytes.

Specifications

Standard Features

System Processor Design:	Flexible support for 486/33 and 386/33 system processors; support for two system processor boards.
486/33 System Processor on All 486-based Models:	32-bit 33-MHz 486 microprocessor with integrated numeric coprocessor and an 8-Kbyte cache; 512-Kbyte ServerCache Design as a second-level cache.
386/33 System Processor on All 386-based Models:	32-bit 33-MHz 386 microprocessor; 33-MHz 82385 Cache Memory Controller with 64 Kbytes of high-speed static RAM; separate sockets for optional 33-MHz Intel 387 and 33-MHz Weitek 3167 numeric coprocessors.
System Architecture:	COMPAQ Flexible Advanced Systems Architecture with Multiprocessing Support integrates multiple system processors, a separate 32-bit processor/memory bus and the 32-bit EISA I/O bus for highest possible system throughput.
Compatibility:	Runs most popular software and hardware products designed for industry-standard personal computers; EISA expansion bus compatible with powerful 8-/16-/32-bit expansion boards.
Expansion Slots:	Total of 11 expansion slots; seven 8-/16-/32-bit EISA and four 32-bit processor/memory; six 8-/16-/32-bit EISA slots and two 32-bit processor/memory slots available on all models.
Memory:	8 megabytes of 32-bit memory standard, expandable to 256 megabytes. Shared system memory design with 80-ns enhanced page memory; maximum memory configuration flexibility.
Storage Devices:	840-Megabyte 4-Drive Array; 420-Megabyte Drive Array Pair; 240-Megabyte Drive Array Pair; combined internal and optional external storage up to 19.8 GB; 3 1/2-inch 1.44-Megabyte Diskette Drive.
Interfaces:	One Parallel Interface and two Serial Interfaces; Pointing Device (mouse) Interface.
Keyboard:	COMPAQ Enhanced Keyboard.
Graphics:	Integrated Video Graphics System; high resolution video connector; VGA pass-through.
Software Utilities:	COMPAQ EISA Configuration Utility; COMPAQ Expanded Memory Manager, disk cache software.
Security:	External security lock protects internal components; power-on password, keyboard password and network server mode prevent unauthorized system use.
Reliability:	COMPAQ 32-Bit IDA Controller supports drive mirroring and data guarding under all operating environments. COMPAQ 32-Bit IDA Expansion Controller supports drive mirroring and online spare. With appropriate software, either controller can support controller duplexing.
Warranty:	One-year limited warranty.
Physical Specifications:	23.8" H x 20.3" D x 7.6" W (60.5cm H x 51.6cm D x 19.2cm W).

Standard Models

Model 486-840:	486/33 System Processor Board; 8 megabytes of system memory; 840-MB 4-Drive Array (4 x 210 MB).
Model 386-840:	386/33 System Processor Board; 8 megabytes of system memory; 840-MB 4-Drive Array (4 x 210 MB).
Model 486-420:	486/33 System Processor Board; 8 megabytes of system memory; 420-MB 2-Drive Array (2 x 210 MB).
Model 386-420:	386/33 System Processor Board; 8 megabytes of system memory; 420-MB 2-Drive Array (2 x 210 MB).
Model 486-240:	486/33 System Processor Board; 8 megabytes of system memory; 240-MB 2-Drive Array (2 x 120 MB).
Model 386-240:	386/33 System Processor Board; 8 megabytes of system memory; 240-MB 2-Drive Array (2 x 120 MB).

Options

Multiprocessor:	COMPAQ 486/33 or 386/33 System Processor Boards.
Memory:	32-Bit 6-Socket Memory Expansion Board; 32-Megabyte Dual-Socket Memory Module; 8-Megabyte Dual-Socket Memory Module; 8-Megabyte Single-Socket Memory Module; 2-Megabyte Single-Socket Memory Module.
Storage Devices:	COMPAQ Intelligent Array Expansion System Model 2600; 1.3-GB Differential Interface Fixed Disk Drive (Array Expansion System only); 420-MB Drive Array Pair; 240-MB Drive Array Pair; 5 1/4-inch 1.2-MB and 360-Kbyte Diskette Drives; 3 1/2-inch 1.44-MB Diskette Drive; 1.3-/2.0-Gigabyte Digital Audio Tape (DAT) Drive; 320-/525- and 150-/250-MB Tape Drives; supports second 1.3-/2.0-Gigabyte DAT or 320-/525-MB Tape Drive.
Communications:	Supports 32-bit EISA network interface controllers such as the COMPAQ 32-Bit DualSpeed Token Ring Controller or other NICs from Novell, Standard Microsystems, and more, as well as 8-/16-bit ISA network interface controllers; COMPAQ 2400-Baud Internal Modem (U.S. and Canada).
Graphics:	16-inch (40.6 cm) Advanced Graphics Color Monitor; 14-inch (35.6 cm) Video Graphics Color Monitor; 14-inch (35.6 cm) Video Graphics Monochrome Monitor; Advanced Graphics 1024 Board; Advanced Graphics 1024 Memory Board
Software:	Microsoft OS/2 Version 1.2 as published by Compaq; MS-DOS Version 4 and MS-DOS Version 3 as published by Compaq.
Additional Options:	33-MHz 387 numeric coprocessor and 33-MHz Weitek 3167 numeric coprocessor for 386-based models; 32-Bit Intelligent Drive Array Controller; 32-Bit IDA Expansion Controller (Array Expansion System only); 2.0- and 1.3-GB DAT Cartridges; 525-, 320-, 250-, and 150-MB Tape Cartridges; Tape Connection Kit; COMPAQ SYSTEMPRO Technical Reference Guide; COMPAQ Intelligent Array Expansion System Technical Reference Guide.

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COMPAQ

It simply works better.