

Apollo Domain Systems

Product Enhancement

Apollo Computer, Inc. has enlarged its Domain Systems family. Apollo has added the DN570/DN580 turbo workstations, and has expanded the Domain Series 3000 personal workstation product line with graphics, memory, and mass storage enhancements. Additionally, the company has announced communications options for the Series 3000.

DN570/DN580

The DN570/DN580 turbo workstations are 2-D and realtime 3-D color graphics workstations. They feature 32-bit, VLSI CPU design and support up to 16MB of Error Checking and Correction (ECC) memory. The workstations support up to 2GB of virtual address space per user process. A Floating-Point Acceleration (FPX) option is available.

The DN570 turbo includes a 15-inch or 19-inch, 60 Hz, noninterlaced, 1024-by-800 bit-mapped display; a drawing processor capable of delivering 40,000 2-D transformed and clipped vectors per second; and eight planes of display memory.

The DN580 turbo includes a 19-inch, 60 Hz, noninterlaced, 1280-by-1024 bit-mapped color monitor; a drawing processor capable of delivering 150,000 2-D transformed and clipped vectors per second; and eight planes of display memory.

PRICING

The DN570 turbo and DN580 turbo are available with 8MB, 12MB, and 16MB of main memory. Prices range from \$43,900 for a DN570 turbo with 8MB of memory to \$66,900 for a DN580 turbo with 16MB of memory. A turbo performance package for existing DN570 and DN580 users is available, with 8MB, 12MB, and 16MB of memory, at prices starting at \$12,500. The FPX option is priced at \$5,900.

SERIES 3000 ENHANCEMENTS

With enhancements, Series 3000 personal workstations can be configured with 8MB of memory (double its previous memory capacity), and with 155MB or 348MB Winchester disks. The 5¼-inch disks offer Series 3000 users more than double the capacity and twice the data transfer rate of the current Series 3000 72MB Winchester disk. A 19-inch color display has also been added.

COMMUNICATIONS

Apollo has announced communications options for the IBM PC AT-compatible peripheral bus found in all Series 3000 personal workstations. A Serial/Parallel Expansion (SPE) Board allows users to attach a range of peripheral devices supporting serial communications and Centronics data format for parallel /communications.

Another enhancement is an EtherController-AT, providing Domain users with access to other vendors' systems, or to remotely located Domain workstation networks, via Ethernet networks and communications protocols.

The last communications option is the Domain/PCC, an IBM PC AT co-processor. It allows Series 3000 users to run PC and Domain applications on a Series 3000 workstation at the same time.

ANALYSIS

Apollo has made it known that the DN570/DN580 turbo workstations are intended to compete with Digital Equipment Corporation's VAXstation II/GPX and Sun Microsystems' Sun-3/160C and Sun-3/260C workstations.

The mid-range DN570 turbo is targeted for computationally intense 2-D graphics applications. The high-end DN570 turbo is projected for realtime 3-D graphics applications. These beefed-up turbo models, along with the Series 3000 enhancements, strengthen the Domain Systems in this workstation race.

Following is an equipment price list that includes detailed pricing on the Apollo Series 3000 announcements.

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EQUIPMENT PRICES

	Purchase Price (\$)
SERIES 3000 PERSONAL WORKSTATION	
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory	23,200
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 155MB Winchester disk, 1.25MB 5¼-inch floppy disk	30,200
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 155MB Winchester disk, 1.2MB, 5¼-inch floppy disk	30,200
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 155MB Winchester disk, 60MB, ¼-inch cartridge tape	32,200
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 348MB Winchester disk, 60MB, ¼-inch cartridge tape	38,200
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 15-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory	20,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 15-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 155MB Winchester disk, 1.2MB, 5¼-inch floppy disk	27,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 15-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 155MB Winchester disk, 60MB, ¼-inch cartridge tape	29,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 15-inch, 60 Hz, 1024 x 800 color display, 4-bit planes supporting 16 colors, 8MB main memory, 348MB Winchester disk, 60MB, ¼-inch cartridge tape	35,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 64 Hz, 1280 x 1024 monochrome display, 8MB main memory	15,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 64 Hz, 1280 x 1024 monochrome display, 8MB main memory, 155MB Winchester disk, 1.2MB, 5¼-inch floppy disk	22,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 64 Hz, 1280 x 1024 monochrome display, 8MB main memory, 155MB Winchester disk, 60MB, ¼-inch cartridge tape	24,900
— MC68020 processor and MC68881 floating-point co-processor, PC AT-compatible bus, keyboard and mouse, desktop configuration, RS-232-C port, integrated networking, Domain/IX license, 19-inch, 64 Hz, 1280 x 1024 monochrome display, 8MB main memory, 348MB Winchester disk, 60MB, ¼-inch cartridge tape	30,900
DSP3000 SERVER	
— DSP3000 server with 8MB of memory, 155MB Winchester disk, and 60MB, ¼-inch, cartridge tape	24,000
— DSP3000 server with 8MB of memory, 348MB Winchester disk, and 60MB, ¼-inch, cartridge tape	30,000
MEMORY	
— 8MB add-on memory	8,000
DISK	
— 72MB disk to 155MB disk	4,900
— 72MB disk to 348MB disk	9,400

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	Purchase Price (\$)
DOMAIN/PCC	
— IBM PC AT co-processor	2,500
DISPLAYS	
— 15-inch color display to 19-inch color display	3,800
PRINTER INTERFACES	
— Tek 4692 ink jet printer interface, software driver (on floppy disk, cartridge tape, or magnetic tape)	300
— Tek 4692 Series 3000 kit (software driver on choice of above media, plus SPE board)	925
— Tek 4692 multibus kit (for Apollo's multibus-based workstations and servers, includes software driver on choice of above media, plus Centronics-compatible interface board for multibus systems)	4,000
CONTROLLER BOARD	
— EtherController-AT, Apollo's controller board for interfacing with Ethernet networks	2,000
SPE BOARD	
— Serial/parallel expansion board	450
— SPE software (on floppy disk or cartridge tape)	200
MS-DOS SOFTWARE	
— MS-DOS software on floppy disk, for DOMAIN/PCC	130 □