Graphics terminal emulates Tektronix units

The Cybernex 1014 graphics terminal from Cybernex Limited emulates the Tektronix 4010/12/14/15 terminals to produce graphics compatible with Plot 10 software. Full-screen images are printed, and aliasing effects can be eliminated with the 1014.

The graphics terminal has a 14-inch screen with 1024 x 780 actual displayable pixels and 1024 x 1024 memory. Smart drawing functions and support for I/O devices such as mice, bit pads, and dot matrix printers are also included. A tilt-and-swivel stand and a 1015 APF version are optional features.

The Cybernex 1014 graphics terminal is priced at $2795.

Reader Service Number 48

CADD workstation enhanced

Terak Corporation's Designpro 3-D computer-aided design/drafting system is upwardly compatible with the company's previous CADD system and enhanced with new configuration flexibility. The Designpro system comes with one set of architecture, electrical power, electronics, piping, or steel-detailing symbols.

Designpro's microcomputer systems include high-resolution monochrome and color versions that offer bit-mapped displays with 640 x 480 resolution. Optional features include networking, a system customization facility, the Cogo coordinate geometry system, and ancillary software packages.

A turnkey monochrome unit, including a 15-inch tilt-swivel display, twin 1.2M-byte flexible disk drives, 128K-byte main memory, and a digitizer, is priced at $24,475. For a similar color system with 10M-byte fixed Winchester disk, the price is $39,495.

Reader Service Number 49

Display-only terminal provides remote access

Calma Company has introduced a display-only terminal system that provides remote access to graphics information from a host Calma CAE/CAD/CAM system. The DOTS terminal is targeted at operations with extensive manufacturing or construction facilities, firms where "paperless" electronic drawings are attractive for security reasons, and firms that want to integrate existing CAE/CAD/CAM systems with other departments.

DOTS offers local display, zoom, pan, and color-change capabilities. Local hard copies can be produced with the use of a plotter. The terminal interfaces with the host via standard RS-232 cable and includes a 13-inch color screen with a display resolution of 640 x 480 pixels.

The list price for one DOTS terminal and applicable software is $14,000.

Reader Service Number 50

End-user models added to geometry processors

Ramtek Corporation has announced the addition of two end-user models to its 2020 family of geometry processing terminals. Designed to offer the performance of a closely coupled 3-D graphics workstation and the flexibility of device independence, Models 7115 and 7215 address applications in engineering design of wireframe and solid models, analysis, and drafting.

The 2020 is a fourth-generation graphics system that merges geometry computing with high-performance display generation. The 2020's parallel-pipelined multiprocessor architecture off-loads the host computer and provides dynamic interaction with complex 3-D models. Models 7115 and 7215 differ in vector drawing speeds: Model 7115 draws at 40,000 vectors per second, and Model 7215 achieves 600,000 vectors per second. Model 7215 uses static RAM and a proprietary bit-slice draw processor to accelerate vector setup time.

Both models are configured with a proprietary ECL/VLSI processor for writing vectors to refresh memory in raster-scan format and a general-purpose MC68000 microprocessor for host and peripherals communications, geometry database management, and geometry processing. Each model includes a 19-inch, 60-Hz color CRT with 1280 x 1024-pixel resolution (four bits per pixel) and 768K bytes of user memory for storing display lists. Processor instructions and interprocessor communications are maintained within their own 256K bytes of memory.

Local 3-D geometry computation is handled by a special-purpose geometry processor, which off-loads the intensive calculation burden from the host computer. Calculation of floating-point coordinate transformations is executed by the MC68000 processor supported by a VLSI math accelerator. Transform speeds for both models are 10,000 3-D endpoints per second.

Available 90 days ARO, Models 7115 and 7215 are priced at $28,000 and $44,000, respectively.

Reader Service Number 51

CIVIL ENGINEERING LABORATORY

The Naval Civil Engineering Laboratory, located on the Pacific coast 50 miles north of Los Angeles, invites applications from individuals with a background in computer-aided facilities engineering and design to join our facilities system team. Successful applicants will be responsible for integrating design programs and data into the Navy's computer-aided facility design system. Two positions are available:

FACILITIES DATA BASE DESIGN
(Reference L53-319-84)

The successful candidate must demonstrate (1) application of computer-aided methods to facility engineering and design, (2) application of data base design and management as applied to facility design, and (3) ability to prepare documentation and training materials.

FACILITIES APPLICATION PROGRAMMER
(Reference L53-331-84)

The successful applicant must demonstrate (1) ability to develop computer programs to perform engineering and design analyses, (2) ability to interface engineering analyses with computer graphics design systems, and (3) ability to prepare documentation and training materials.

These positions are career civil service GS-11 or GS-12 (depending on qualifications), with a salary range of $26,950 to $35,549 per annum. A degree in civil, mechanical, electrical, or industrial engineering is required. A degree in computer systems programming and applicable experience is highly acceptable. An advanced degree is preferred. Substantial experience with the Computerized Design of computer-aided design system is desirable. No prior Government service is required. Must be eligible for a Secret Clearance. Send a resume or Office of Personnel Management Standard Form 171, "Personal Qualifications Statement," to:

CIVILIAN PERSONNEL OFFICE
Code 231
Naval Construction Battalion Center
Port Hueneme, CA 93043

Applications must be received by 30 September. An equal opportunity/affirmative action employer.