Graphics controller supports 16 million colors

Raster Technologies, Inc., has introduced the Model One/25 color graphics controller. This controller is designed to support image memory configurations of 512 x 512 with up to 24-bit planes, allowing computer data to be represented in as many as 16 million colors.

Raster states that the controller's 24-bit, full-color imaging performance is designed for user applications, such as solid modeling, presentation and graphics arts, medicine, and research.

The Model One/25 uses a 16-bit microprocessor to provide up to 128K bytes of RAM and 64K bytes of PROM and supports the company's display list firmware and the Model One's multiple alphanumeric window capability.

The 512 x 484-line, NTSC configuration of the Model One/25 delivers color graphics for videotaping and mixing. An optional pixel mover and DMA can provide data transfers, both within image memory and between the host and the controller.

Software compatible with the other members of the Model One graphics product family, the controller shares the same instruction set and host Fortran library. The Model One/25 also supports the full range of Model One graphics application development tools, including an integrated debugger, HELP facility, local command interpreter, and 4014 emulator.

Model One/25 pricing begins at $10,500. Deliveries are 30 to 60 days ARO.

System enhanced for distributed graphics processing

The enhanced version of Lexidata Corporation's Model 8100/GS distributed graphics subsystem extends the high-level functionality of the locally embedded software package LX/GP1.

LX/GP1's functionality is similar to the Core System and the Graphical Kernel System. However, LX/GP1 is executed locally in the 8100/GS, enabling local storage and processing of segmented display files.

The enhancement extends distributed processing and low host overhead by adding new features, including segment/cell editing, picking, and inquiry.

Segment/cell editing allows the user to append or delete individual primitives (i.e., lines, polygons, circles, text, etc.) within previously defined "collections" of primitives, known as segments or cells. This is made possible because LX/GP1 stores objects locally in a descriptive world coordinate format known as the object data structure.

"Picking" refers to the ability to select a particular entity (segment, cell, or primitive) for editing, inquiry, or manipulation. LX/GP1 performs the pick operation locally, providing the user with a convenient mechanism for manipulating or updating the ODS (i.e., picking a single IC on a PC layout and moving it to a new location).

Inquiry allows the user to read back primitive and segment data for the purpose of keeping the host database in sync with the 8100/GS object data structure.

The 8100/GS is available in a variety of high-resolution configurations, including 1280 x 1024 pixels in color and monochrome systems. Up to 4096 colors can be displayed simultaneously from a palette of 16.7 million. All systems include a standard 256K-byte RAM, four RS-232 serial ports, and power-up diagnostics. Options include hardware blink, hardware pan and zoom, and graphic input devices such as data tablets, keyboards, joysticks, and trackballs. Delivery is 90 days ARO.

Prices range from $15,950 to $21,850.

Reader Service Number 46

Software merges text and graphics on VAX-based systems

Interpage from Intergraph Corporation merges text and graphics for page make up of technical documentation on Intergraph VAX-based systems. Typical documents include assembly manuals, repair manuals, project reports, training manuals, specifications, proposals, and map books.

Interpage includes facilities for text entry, editing, composition, pagination, text and graphics merging, previewing composed pages of text and graphics, and proof printing. Output to typesetters is provided by other company products.

Text entry and editing capabilities include text search, replace, copy, cut, paste, and delete. List processing and a spelling dictionary are also standard features. Interpage supports hyphenation (both algorithmic and with an exception dictionary), text justification, multiple stored formats, headers, footers, footnotes, multiple columns, runaround, and rotated text. Also supported are font and type size selection, page numbering, tables of contents, indices, and merging text into graphics and graphics into text.

Interpage applications software sells for $20,000.

Reader Service Number 45

CAD/CAM/CAE Graphics R&D

Computervision, the rapidly growing leader in CAD/CAM/CAE, has dynamic opportunities for individuals to join a small, elite team of engineers providing the expertise for our corporation's research, design and development in graphics processing and display technology.

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Graphics Technical Staff

We are seeking a unique individual with in-depth knowledge of graphics concepts and algorithms. This will include 2D/3D transformations, homogeneous vector representations and manipulations, spline functions, surface representations, shaded image generation, polygon manipulations and more. You should also have hardware and bit slice microcode experience.

Computervision offers an excellent compensation/benefits plan, including relocation assistance. Please reply with resume and salary requirements to: Steve Donahoe, Human Resources Administrator, Systems Technology Division, Computervision Corporation, 14-3 Crosby Drive, Bedford, MA 01730. An Equal Opportunity Employer.

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