At the heart of the Graphos color graphics terminal's design is Ithaca Intersystem's "shiftable cell" concept that combines alphanumeric and bit-mapping architecture. Cells are dynamically assigned to the 16 windows on the screen. Text and graphics can be smoothly scrolled, vertically, horizontally, and diagonally under any fixed window; the windows can be manipulated independently of one another without having to rewrite the display memory.

Graphics terminal displays up to 16 windows

Graphos, a desktop color graphics terminal capable of displaying and manipulating 16 windows, has been introduced by Ithaca Intersystems, Inc.

Designed primarily for business use, the terminal features 640 x 480-pixel resolution; individual scroll, pan, and zoom capabilities for each of the 16 windows, with graphics overlay for each window; segment retention without retransmission from the host CPU; 2-D segment transformations; high-level primitives; full 2½-dimensional polygon rendering with shading, cross-hatching, and textures; a device independent graphics subsystem; multiple fonts; and a selection of 32,768 colors, with an independent color menu for each window.

Graphos incorporates an MC68000 microprocessor to implement its device-independent subsystem, permitting direct output to drive printers, plotters, film recorders, and other peripherals, as well as the Graphos' screen itself. Input support includes tablets, mice, joysticks, track balls, etc.

The Graphos terminal is priced under $8000.

Reader Service Number 40

Let your imagination

The Grinnell 2800 Image Processing/Graphic Display System.
Whatever your mind can imagine, the Grinnell 2800 System can visualize at a very cost effective price.

Powerful, flexible and compact.
The 2800's exceptionally fast, easily programmed distributed computing archi-
tecture give you an incredible repertoire of graphics instructions and image processing capability. Built around a high-speed bit slice processor, it's ideal for a wide range of monochrome, 3-color and multispectral applications in everything from 512 x 512 to 1024 x 1280 formats.

Exactly what you need, when you need it.
Its flexible, modular design lets the system
System allows simultaneous drafting, digitizing, plotting

The Producer, a high-speed drawing processor developed by Bausch & Lomb, can replace many conventional drafting tools and can be tailored to most drafting applications, says the company.

The standard system includes an interactive graphics display station with a separate alphanumeric terminal; menu input tablet; system controller with a dual floppy disk subsystem; a digitizer station with 36 x 48-inch digitizer and alphanumeric terminal; and a plotter station capable of handling A- to E-size drawings. The three stations can be operated separately or simultaneously. The plotter allows the draftsman to produce ink originals on paper, vellum, or mylar with up to 16 different line widths and at speeds of up to 21 ips.

If desired, customers can substitute larger or smaller digitizers, a 22-inch plotter, a 19-inch display screen, and either a 4.5-M-byte or an IBM-byte Winchester/floppy disk drive subsystem. A CRT copier, high-speed printer, and telecommunications equipment are also available.

The price of the standard Producer system is $58,000. A rental plan is also offered.

Color graphics system offered for the IBM PC

Scion Corporation's PC640, a color graphics display system for the IBM Personal Computer, is a single-card hardware/software package that generates a 640 x 480-pixel, 16-color display from its on-board 256K-byte memory. The PC640's color look-up table logic allows any 16 colors out of a range of 4096 to be chosen for simultaneous use.

PC640 software, supplied on floppy diskette, implements over 40 primitives, including point, vector, region, circle, arc, polygon, region flood, pattern flood, a set of text and font primitives, and pointing device drivers. All primitives interface directly with user applications code written in any of the major high-level languages in use on the IBM PC.

Video output for the unit is RGB, with both separate sync and sync on green. PC640 display memory resides directly in the IBM PC address space, and is thus user-accessible for special applications involving high-speed data transfer to disk, according to the company. Additionally, 105K of the PC640's RAM is available as extension RAM for general-purpose computing. The PC640 is priced at $1595 retail, with dealer and OEM discounts available.

Reader Service Number 41

Reader Service Number 42

Reader Service Number 43

ion run wild, not your budget.

be sized to your needs without sacrificing performance. For parallel, multi-spectral processing, it easily accepts multiple, modular controllers linked to an ultrafast pipeline processor and individually programmable processors.

Programmable for your applications.

The 2800 also lets you choose standard or special instruction sets, downloaded from the host or through an optional Command Control Processor. And its Intelligent Host Interface offers you several data transfer modes to maximize throughput.

Imagine how it can work for you.

Whether you're an OEM, end user or researcher, the 2800 lets your imagination run wild, cost effectively.

GRINNELL SYSTEMS

6410 Via Del Oro Drive
San Jose, CA 95119 (408) 629-9191