

Breakpoints

SOFTWARE MODULE SUPPORTS CP/M-86, MS-DOS

An as-yet-unnamed software module from Lifeboat Associates, New York, will allow programs that run under the control of Digital Research's CP/M-86 operating system to also work with Microsoft's MS-DOS 16-bit operating system (used on the IBM personal computer and the soon-to-be-announced Zenith Z-100). It will require no special patching to MS-DOS; it can simply be added to a system, eliminating the need for extra software. The module is priced at less than \$200.

ZGRASS UPGRADE TURNS GAME INTO BUSINESS GRAPHICS μ C

Astrovision, Inc., the Ohio-based company that took over Bally's share of the video-game market, has announced an upgrade to its Astro Professional Arcade that allows the Z80-based video-game unit to be used to create complex, animated graphics. The add-on unit, called the ZGRASS-32, includes a typewriter-style keyboard, a Votrax speech synthesizer and a 32K ROM ZGRASS interpreter. ZGRASS developer Tom DeFanti says ZGRASS is the only μ c language designed specifically for graphics. Astrovision expects the ZGRASS-32 to be used for business applications, user-developed animated games and video art. The unit attaches to the Astro Professional Arcade that retails for \$299 and will be available in April for \$599. The add-on unit can be expanded to run CP/M and has two RS232C ports and interfaces for a light pen, a graphics tablet, disk drives and joysticks.

RANDOM DISK FILES

Applied Magnetics Corp., which late last year announced that it intended to abandon a year-old plan to liquidate the company, is getting set to mass-produce 3370-compatible thin-film read/write heads—initially for the plug-compatible disk-drive market, with hardware aimed at OEM drive vendors to follow. Also under development at the Goleta, Calif., company is a 3375-compatible head that will be the same as the 3370 version with the exception of track width, company sources report. Both heads could appear in volume by mid-year, with OEM 3370 heads available during the fourth quarter. Also planned for fourth-quarter introduction is a plug-compatible 3380 thin-film head.

Saratoga, Calif., start-up **Cartrex Corp.** plans to unveil a high-capacity 1/4-in. tape cartridge this year. Designed around a patent held by **Newell Research Corp.**, the cartridge will be offered in a four-track serpentine version that will store 30M bytes of data on 900 ft. of tape in a package compatible with cartridges manufactured by 3M Co. Sources close to the company say multi-channel in-line versions will follow. These versions will handle as many as 16 data tracks and bit densities in the 10,000-bpi range for storage capacities around 300M bytes. The new medium, called the NC-250, is designed for 90-in.-per-record backup of Winchester-disk drives. Also due from Cartrex this year is a high-capacity DC-100-compatible 0.15-in. cartridge designated the NC-150. Prices have not been set for either cartridge.

The first combination of **Amlyn's** five-platter, 5M-byte, 5 1/4-in. floppy-disk drive and **Seagate Technology's** 6M-byte, 5 1/4-in. ST-506 Winchester-disk drive may appear this quarter in a Z80A-based desk-top computer system from **Colon Systems, Inc.**, San Jose, Calif. Colon's unnamed and unpriced hardware will run CP/M and MP/M, as well as a proprietary operating system based on the FORTH programming language. Production versions of the system will be available for commercial applications this quarter through retail outlets, while FORTH-based systems will be targeted at OEMs selling into scientific applications. Colon reportedly is funded in part by **Dysan Corp.**, a Santa Clara, Calif., media house that has also participated in the funding of Amlyn and Seagate.

Control Data Corp. will phase itself out of the business of refurbishing disk packs and disk cartridges and shift this work to **Magnetic Data Storage, Inc.**, a Minneapolis start-up CDC plans to fund.

The new company plans to open for business this month. Disk refurbishing entails cleaning a disk's surface, examining a medium for cuts or scratches, replacing disks as required and realigning the pack and/or rewriting servo data if necessary.