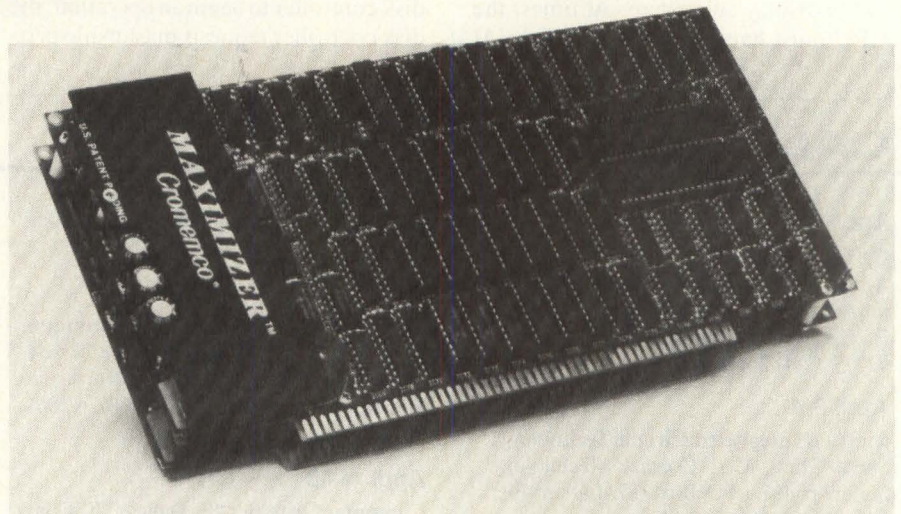# NEW PRODUCTS

Special Purpose Processor

As an upgrade to the company's Logic Evaluator, the Fault Evaluator reduces the time required for developing fully tested semiconductor chips and subsequent chip diagnostic procedures. Using a concurrent fault simulation algorithm, the Fault Evaluator can simulate 16,000 faults per pass, rather than one per pass, as with the Logic Evaluator. In the form of ZIF modeling elements 500,000 differences can be maintained in each Fault Evaluator module. The Fault Evaluator is expandable up to 16 modules, and Logic Evaluator and Fault Evaluator modules can be combined in one cabinet. Other features include user controlled number of faults per pass, user select serial or concurrent algorithms, incremental loading of test vectors, initial release to handle unidirectional gates, RAM and ROM. **Zycad**, Arden Hills, MN **Circle 126**
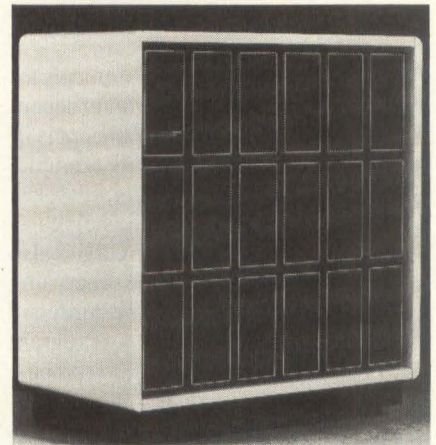
12 MIPS Coprocessor

When used with the firm's software languages, this coprocessor subsystem, the Maximizer, performs IEEE double and single precision math functions. Executing an average of 12 MIPS, the Maximizer contains a 48 MHz (master clock rate) bit-slice processor. With 16 Kbytes of data memory (50 nsec cycle time), 16 dual-port registers and 4096 48-bit words of downloadable microcode instructions, the Maximizer is microprogrammable using the 4 Kbytes of microcode RAM. Most instructions execute in 62.5 nsec, but up to 125 nsec are allowed for complex operations. To support the Maximizer, a microcode assembler software package — Model Maxasm — is available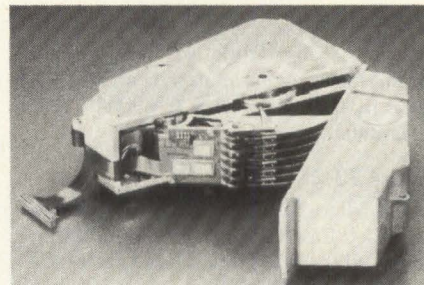. The Maximizer is available now to run under the CROMIX operating system and will soon be available under UNIX. Price is $3,495. **Cromemco**, Mountain View, CA **Circle 127**

300 Mbyte 5¼" Winchester Drive

Based on 14" drive design methods, MegaFile, a 5¼" Winchester disk drive, consists of a shell-like Head Disk Assembly (HDA) containing up to 12 read/write heads and seven platters, spindle with an integrated motor, absolute filter and a voice coil positioner. The MegaFile also features a dual servo system: one dedicated servo surface plus embedded servo on all surfaces. Twin bearings on both top and bottom of the spindle and the positioner allow track density of 1207 tpi and recording density of 19077 bpi. With capacity up to 300 Mbytes per drive and a 25 msec average positioning time, the MegaFile has a 25000 hours HDA Mean Time Between Failure (MTBF). **Siemens**, West Lake Village, CA **Circle 128**