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(Continued from page 87)

The cassette player used with the system has no volume or tone controls, but does have a tape counter and pushbutton controls. It is also operated by the computer. Digital data is on one track, while audio is carried on the other. Data transmission is 300/600 baud, software controlled. Atari supplies a complete line of software, including many games.

The second system, the Atari-800 (approximately \$1000), has all the electronic features of the 400 and comes with 8K of RAM plug-in expandable to 48K. It too comes with BASIC in ROM. This system can drive up to 4 disks and a printer. Soon to be available are an acoustic modem, a direct telephone adapter, an ac controller, a light pen, voice synthesizer and recognition, and a music synthesizer. Atari also supports this system with a full line of software (interchangeable with the 400). Languages include BASIC and DISK BASIC, with other languages under consideration. They also hope to have an assembler, disassembler and text editor.

Each of the plug-in modules (RAM and operating system) is protected by a plastic enclosure. Details of the 44-pin bus were not available.

The keyboard features 57 full-stroke mechanical keys and four separate function keys. It too has a built-in modulator. Besides its built-in speaker, the 800 also provides TV sound.

The 40-column printer uses dot matrix and standard paper rolls and ribbons. It handles 40 characters per second and one line per second. It contains its own processor. The 800 can handle up to four disks simultaneously. The disk system uses standard 5 1/2" diskettes with 92K per side and also contains its own processor. The various peripherals are "daisy chain" coupled to the single output connector.

TRS-80 S100 Adapter. The 8100, an S100 bus adapter motherboard, plugs into the TRS-80 via a ribbon cable. The 8100 also features 6 slots and card guides, and a second TRS-80 connector allows other TRS-80 devices to be connected at the same time. The new motherboard has optional on-board circuitry and sockets for 16K of dynamic RAM, I/O interfaces for serial and parallel I/O both RS232 and 20-mA loop and an 8-bit parallel I/O port. The basic unit, including the S100 bus interface, one edge connector/card guide set, and manual is \$185 per kit and \$245 assembled. Five connectors/card guides are \$45 as a kit, \$75 assembled. The RAM

support option (less RAM's) is \$45 kit and \$75 assembled, while the I/O option is \$85 kit, \$115 assembled. HUH Electronics, 1429 Maple St., San Mateo, CA 94402 (Tel: 415-573-7359).

Apple Robot. If you have an Apple II, the addition of ROBOT 1, will enable you to control a battery-powered car merely by speaking the words "forward," "reverse," "stop," "left," "right," and "straight". The ROBOT 1 plugs into an Apple slot, and the accompanying program is run. The speech system uses the Heuristics Model 20A Speechlab. The radio link is effective to about 300 feet. The system comes with car, radio-link controller, Apple II peripheral card, preprogrammed demonstration tape and instruction manual. Heuristics, Inc., 900 San Antonio Rd, Los Altos, CA 94022 (Tel: 415-948-2542).

New Computer Clubs. An 1802 user group is now in operation in Finland. Contact: J. E. Nystrom, Ulvilantie 2 C 27, SF-00350 Helsinki 35, Finland.

A new Canadian club has also been reported. Contact: West Coast Computer Society, POB 4476, Vancouver, B.C., Canada V6B 3Z8.

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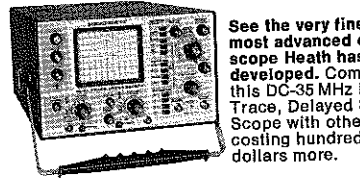
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