THEME FEATURES

Microcomputing to Aid the Handicapped—Part II

7 The MOD Keyboard
Peter J. Nelson, Larry Korba, Gordon Park, and David Crabtree
A special plug-in cartridge for the VIC-20 converts it into a dynamic keyboard emulator that enables a handicapped user to control a second, unmodified computer.

19 A Microcomputer-based Laboratory Aid for Visually Impaired Students
David Lunney, Robert C. Morrison, Margaret M. Cetera, Richard V. Hartness, Raymond T. Mills, Alger D. Salt, and David C. Sowell
Built with high-performance industrial boards, this portable microcomputer functions both as a CP/M-based data acquisition and analysis system with voice output and as a talking scientific calculator.

ARTICLES

32 Data Format and Bus Compatibility in Multiprocessors
Hubert Kirrmann
Which end of the data egg gets broken first—big or little? Do you start with the MSB or the LSB? For the proposed IEEE 896 bus, the most practical approach may be the little-endian one.

48 The Microprocessor Universal Format for Object Modules—Proposed Standard
IEEE P695 Working Group
A universal format for object modules, designed to apply to a variety of microprocessors, permits linking and relocating to be isolated from the specification of target architecture.

67 Binary-Decision-Based Programmable Controllers—Part I
Paul J. A. Zsombor-Murray, Louis J. Vroomen, Robert D. Hudson, Tho Le-Ngoc, and Peter H. Holck
In certain applications, a microcomputer system employing one or more peripheral binary-decision-based controllers can react more quickly than a system using conventional microprocessor-based controllers.

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