Microprocessor emulator line introduced with Z-8001 product

Applied Microsystems' ES-Series Satellite Emulator is designed to provide real-time, transparent emulation of 8- and 16-bit microprocessors.

The emulator incorporates a standard mainframe with plug-in control cards and pods which, according to the company, will tailor the unit to specific microprocessor families. The Satellite Emulator currently supports Zilog's Z-8001; plug-in cards and pods to support other 8- and 16-bit devices, including the 68000, 6806, 6808, Z80B, 6800, 6802, 6809, 8080, 8085, and 8048, are planned.

Communicating via two RS-232 ports, the unit can hook up to a user’s present development system, minicomputer, or automatic test system, says Applied Microsystems. It can also be coupled with any ASCII CRT terminal for stand-alone operation. In this mode, it can be used to debug programs developed on the user's host system, freeing the host for other design tasks.

The human interface is menu-driven—simple prompts on the CRT screen guide the operator through the set-up process, according to Applied Microsystems. An optional disassembly firmware package provides a mnemonic display of programs in the target system memory.

Containing 16K bytes of mappable overlay RAM in 1K-byte segments, the Satellite Emulator can be expanded to 64K bytes when larger programs are being tested.

Software mediates between CP/M and nontechnical users

Supervyz functions as a software “mediator” between CP/M programs and nontechnical users, according to its developer, Epic Computer Corporation. It consists of five software programs that work together to provide a step-by-step sequence of menus.

These menus offer computer users a series of choices to lead them through programs from word processing and accounting to data verification and backup. As a user communicates with the Supervyz menu, his responses are translated into a form that CP/M recognizes.

An internal program configures Supervyz to work with most popular terminals and video boards. Files are provided to handle standard file backup and disk maintenance functions. Also included in the Supervyz package are sample menus for word processing and business applications, although users are free to create their own custom menus.

Supervyz will work on any computer running CP/M 2.2, MP/M 1.1, or compatible derivatives. It requires a minimum of 32K of RAM. Supervyz versions for Unix and CP/M-86 are also available.

Supervyz is $95, with quantity discounts available for manufacturers, dealers, systems houses, and OEMs.

ES-Series Satellite Emulator from Applied Microsystems incorporates a mainframe with plug-in modules which tailor the unit to specific microprocessors.

An extended selection of breakpoint conditions aid hardware/software integration. Breakpoint events can be combined to provide output functions such as start/stop/hold a trace, cause a trap, and generate an oscilloscope loop signal. The breakpoint facility includes four individual condition states defined by address, data, status bits, pass count, and jump controls.

The Satellite Emulator sells for between $6400 and $9500, depending on options. Delivery is 90 days after receipt of order.

Reader Service Number 32

REWARD!

John Wakerly's MICROCOMPUTER ARCHITECTURE AND PROGRAMMING is the only text reference that definitively explains the general principles of microcomputer organization and programming using the microprocessors you're most likely to encounter in practice: the PDP-11, LSI-11, Motorola 68000 and 6809, Texas Instruments 9900, and the Intel 8086 and MCS-48. We think it's destined to be a classic working guide for every electrical and electronics engineer...and the author is so confident of its accuracy he's offering a $3.00 reward to the first finder of any error, be it technical, typographical, or otherwise.

MICROCOMPUTER ARCHITECTURE AND PROGRAMMING

John Wakerly, Stanford University
(0 471 05232-9) 1981 692 pp. $28.95

Order through your bookstore or write to Dept. 3-6080.

1807 WILEY & SONS, Inc.
1982 JOHN WILEY & SONS, Inc.
1 Wiley Drive
Somerset, N.J. 08873

Price subject to change without notice.

081 3-6080

Reader Service Number 11

May 1982