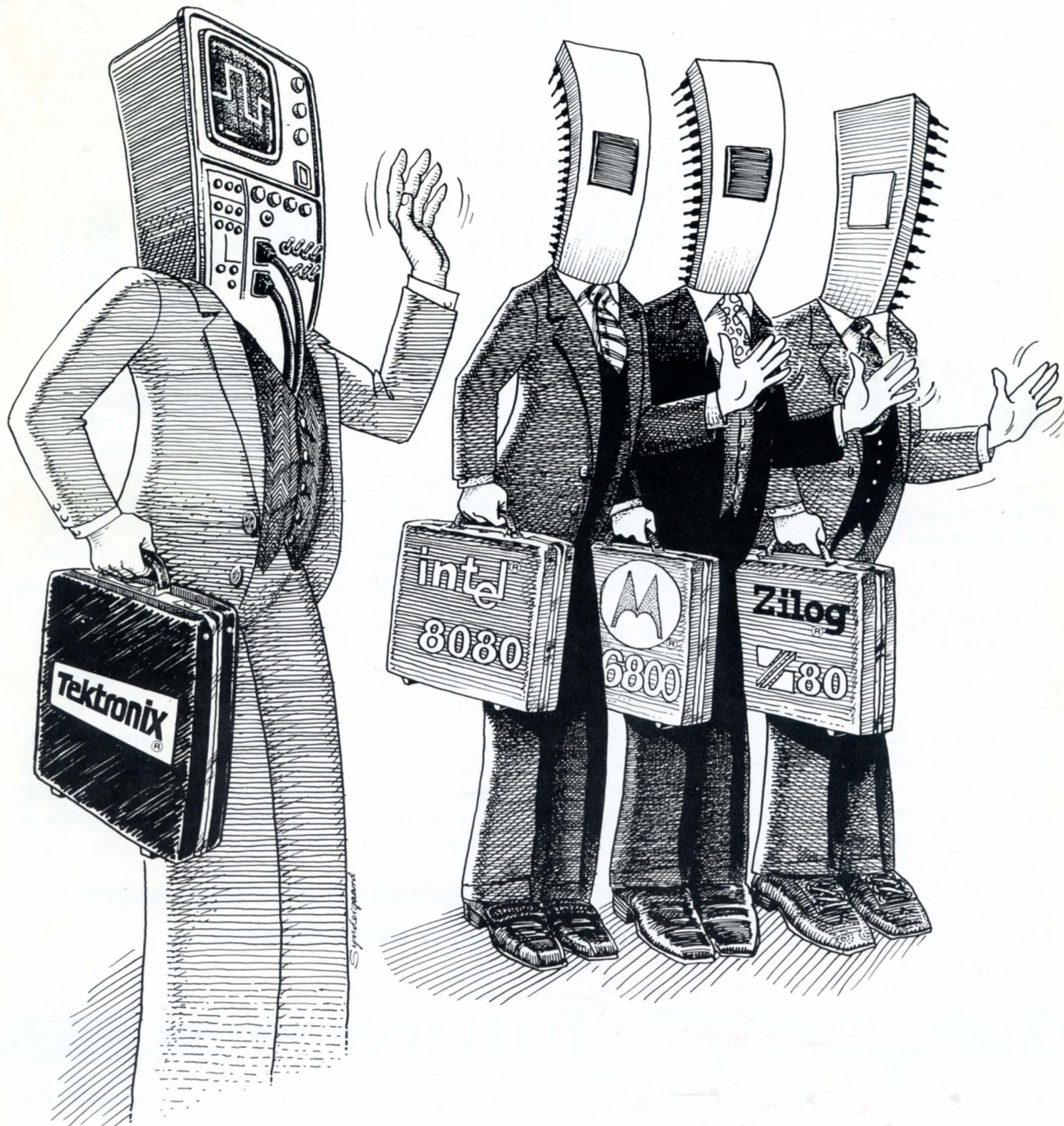


Are you rushing into microprocessor-based development with old friends?



You have a new friend.

You don't have to pay a big name price for a universal product development lab. And, don't let your fondness for a certain chip lead you to a convenient but confining marriage. The inevitable divorce will be costly and time consuming. If you want to develop products happily hereafter, move in with Futuredata.

Futuredata systems are universal.

We can move you into multiple-microprocessor-based product development at half the cost. With the largest selection of powerful hardware, software and economical peripherals around. With high speed disk or low cost tape operating systems. With in-circuit emulators for 8080, 6800, and Z-80. With the universal microcomputer that tackles every job.



Only Futuredata can move you in for \$3850.*

No other microcomputer can match the cost/performance standards set by our MICROSYSTEM/20 & 30 disk-based systems and our MICROSYS-TEM/10 & 15 tape-based systems. Each of these are complete development systems with up to 56K memory, 960 character CRT, ASCII keyboard, two RS-232 serial ports, 8-bit parallel I/O, real-time clock, bootstrap in PROM, 8-level vectored interrupts and complete disk and tape operating systems with monitor, debugger, editor, assembler and utility.

*Domestic U.S.A. prices



The most complete spectrum of economical systems.

Move in with our Dual 5" Mini Floppy Disk System, our Dual 8" Standard Floppy Disk System, our unique QUICKRUN™ 32K Tape Operating System or our new Universal Dual Development System. No matter which you choose, the savings will be significant.

Only Futuredata has QUICKRUN™

MICROSYSTEM/15 has the only co-resident assembly and interactive debugging system in the industry. With editor, assembler and debugger/monitor all in memory, things happen fast. Assembly of a 1000 statement program takes a mere 15 seconds. At \$5275,* it's the most cost-effective development tool around.

Now the first Universal Dual Development System.

Futuredata has combined two separate memory/processor sys-

tems in one host computer. Mix or match processors, disk or tape operating systems in each half. Put two development engineers to work at full speed, simultaneously. You get two complete systems in one and save nearly \$2000.



In-circuit emulation and higher-level language.

We have in-circuit MICROEMULATORS™ for 8080, 6800, Z-80, Extended BASIC, line printers, EPROM programmers, hardware, software, documentation and a rock-solid record for reliability. So, let's be friends!



30-day "Get Acquainted" offer.

Try one of our development systems for 30 days at no risk. For more information, write or call Futuredata today.

Move into product development with a new friend...

futuredata

PRICE LIST

Effective September 1, 1977

PRODUCT DESCRIPTION PRICE

MICROCOMPUTER SYSTEMS

MICROSYSTEM/10 MOD 8080
MICROSYSTEM/10 MOD 6800 \$3,850.
MICROSYSTEM/10 MOD Z-80

Complete Tape Based Microcomputer Systems for 8080, 6800, or Z-80. Includes 8K bytes of RAM memory, CRT display, ASCII keyboard, dual cassette tape units, dual RS-232 serial ports, 8-bit parallel TTL I/O port, real time clock, memory write protect under software control, bootstrap loader in PROM, vectored interrupts, DMA capability, full software and manuals. Monitor/Debugger, Editor, Assembler, and Copy Utility provided on cassette tape.

MICROSYSTEM/15 MOD 8080
MICROSYSTEM/15 MOD 6800 \$5,275.
MICROSYSTEM/15 MOD Z-80

Complete Memory Based Microcomputer Systems with QUICKRUN resident software. Includes full MICROSYSTEM/10 with 32K bytes of RAM memory, plus QUICKRUN software on cassette tape and manuals.

MICROSYSTEM/20 MOD 8080
MICROSYSTEM/20 MOD 6800 \$6,475.
MICROSYSTEM/20 MOD Z-80

Complete Mini Floppy Disk Based Microcomputer Systems. Includes all features of the MICROSYSTEM/10 except for tapes, and includes 16K bytes of RAM memory, CRT terminal, MICRODISK/2M with dual 5" mini floppy disk drives, full DOS software on diskette and manuals. DOS includes Monitor, Debugger, Editor, Assembler, and Utility.

MICROSYSTEM/30 MOD 8080
MICROSYSTEM/30 MOD 6800 \$7,675.
MICROSYSTEM/30 MOD Z-80

Complete Floppy Disk Based Microcomputer Systems. Includes all features of the MICROSYSTEM/10 except for tapes, and includes 16K bytes of RAM memory, CRT terminal, MICRODISK/2 with dual 8" floppy disk drives, full DOS software on diskette and manuals. DOS includes Monitor, Debugger, Editor, Assembler, and Utility.

MICROSYSTEM/32 MOD 8080**
MICROSYSTEM/32 MOD 6800** \$7,975.
MICROSYSTEM/32 MOD Z-80**

Complete Floppy Disk Based Microcomputer Systems. Includes all features of the MICROSYSTEM/10 except for tapes, and includes 16K bytes of RAM memory, CRT terminal, MICRODISK/4 with dual 8" double-sided double-density floppy disk drives, full DOS software on diskette and manuals. DOS includes Monitor, Debugger, Editor, Assembler and Utility.

DUAL MICROCOMPUTER SYSTEMS

Dual MICROSYSTEMS provide two complete microcomputer systems in one system enclosure, with a significant cost savings over two separate systems. Each system in a dual configuration may be a MICROSYSTEM/10, 15, 20, 30, or 32 and may have an 8080, 6800, or Z-80 processor. Both sub-systems in a dual system come complete with CRT display, keyboard, software, and manuals.

Dual systems are specified as in the following example:

MICROSYSTEM/30 + 15 MOD Z-80 + 6800

This system contains a MICROSYSTEM/30 MOD Z-80 and a MICROSYSTEM/15 MOD 6800.

MICROSYSTEM/10 + 10 \$5,850.
MICROSYSTEM/15 + 10* \$7,125.
MICROSYSTEM/15 + 15* \$8,550.
MICROSYSTEM/20 + 10* \$8,325.
MICROSYSTEM/20 + 15* \$9,750.
MICROSYSTEM/20 + 20* \$10,950.
MICROSYSTEM/30 + 10* \$9,525.
MICROSYSTEM/30 + 15* \$10,950.
MICROSYSTEM/30 + 20* \$12,150.
MICROSYSTEM/30 + 30* \$13,350.
MICROSYSTEM/32 + 10** \$9,825.
MICROSYSTEM/32 + 15** \$11,250.
MICROSYSTEM/32 + 20** \$12,450.
MICROSYSTEM/32 + 30** \$13,650.
MICROSYSTEM/32 + 32** \$13,950.

IN-CIRCUIT EMULATORS/PROM PROGRAMMERS

MICROEMULATOR/8080
MICROEMULATOR/6800 \$1,250.
MICROEMULATOR/Z-80

Complete system design packages consisting of M8-40 In-Circuit Emulator and M8-41 Debug and EPROM Programmer. Provides in-circuit emulation and debugging aids: hardware breakpoint, single-step and trace execution. EPROM programmer handles 2708/2704. Complete with software and manuals.

M8-40/8080
M8-40/6800 \$750.
M8-40/Z-80

In-circuit emulators complete with software and manuals.

M8-41 \$750.

EPROM programmer for 2708/2704 combined with additional debugging aids: hardware breakpoint, single step, trace execution. Includes software and manuals.

CONVERSION PACKAGES

M8-8080C
M8-6800C \$950.
M8-Z-80C

Conversion packages including CPU module, software and manuals for adding 8080, 6800, or Z-80 processors to existing MICROSYSTEMS.

MICRO CONTROLLERS

MICROCONTROL/10 MOD 8080
MICROCONTROL/10 MOD 6800 \$1,700.
MICROCONTROL/10 MOD Z-80

Barebones systems including finished enclosure with card cage, regulated power supplies and fan, CPU module (8080, 6800, or Z-80), PROM/RAM module (M8-11), and universal prototype board (M8-30).

PERIPHERALS

MICRODISK/2 \$3,650.

Dual 8" floppy disk unit. Each drive has a formatted capacity of 256,256 bytes, or 512,512 bytes per system. Complete with interface module, cables, full DOS software and manuals.

MICRODISK/2M \$2,450.

Dual 5" mini floppy disk unit. Each drive has a formatted capacity of 80,640 bytes, or 161,280 bytes per system. Complete with cables, full DOS software and manuals.

MICRODISK/4** \$3,950.

Dual 8" double-sided double-density floppy disk unit. Each drive has a formatted capacity of 1,261,568 bytes, or 2,523,136 bytes per system. Complete with cables, full DOS software and manuals.

MICROTAPE/2 \$250.

Dual cassette tape unit for addition to MICROSYSTEM/20 or MICROSYSTEM/30.

MICROPRINT/30 \$1,875.
MICROPRINT/35 \$2,225.

Tractor feed, 132 column, 60 cps dot matrix printer. Unidirectional printing provides an effective throughput of 13 to 60 lines-per-minute. The MICROPRINT/30 has an upper case 64 character ASCII set, and the MICROPRINT/35 has an upper/lower case 96 character ASCII set.

MICROPRINT/60 \$2,475.
MICROPRINT/65 \$2,825.

Tractor feed, 132 column, 60 cps dot matrix printer. Bidirectional logic seeking printing increases effective throughput to 26 to 120 lines-per-minute. Two-channel vertical forms unit is standard providing high-speed top-of-forms feed. The MICROPRINT/60 has an upper case 64 character ASCII set, and the MICROPRINT/65 has an upper/lower case 96 character ASCII set.

MICROPRINT/180 \$3,475.

Tractor feed, 132 column, 180 cps dot matrix printer. Bidirectional logic seeking printing provides effective throughput of 75 to 370 lines-per-minute. Electronic vertical forms unit is standard providing high-speed top-of-forms feed. The MICROPRINT/180 has an upper/lower case 96 character ASCII set.

MODULES

M8-10 \$475.

8K byte dynamic RAM module with memory write protect.

M8-11 \$200.

8K PROM/2K static RAM module. Includes sockets for (8) 2708 EPROM's and (16) 2102 RAM's.

M8-12/16K* \$650.

16K byte dynamic RAM module with memory write protect. Uses (16) 4K RAM chips.

— CONTINUED —

M8-12/32K*	\$1,750.
32K byte dynamic RAM module with memory write protect. Uses (16) 8K RAM chips.	
M8-12/64K*	\$3,275.
64K byte dynamic RAM module with memory write protect. Uses (16) 16K RAM chips.	
M8-23	\$250.
Four 8-bit parallel I/O port module. Each port is selectable for input or output under program control. Two ports have maskable interrupt lines. Outputs drive 10 standard TTL loads, and inputs represent one low-power schottky load.	
M8-24	\$350.
Dual asynchronous/synchronous serial I/O module. Provides two EIA RS-232 compatible ports, software selectable for asynchronous, synchronous, parity, and word length. Software programmable transmit and receive rate selection, and modem control lines.	
M8-30	\$50.
Universal prototype board.	
M8-31	\$50.
Extender board.	

SOFTWARE

QUICKRUN/8080 QUICKRUN/6800 QUICKRUN/Z-80	\$25.
Software package with Monitor/Debugger, Editor, Assembler and 20K user workspace all co-resident in memory. Requires a minimum of 32K	

bytes of memory. System is user reconfigurable to make use of up to 64K bytes of system memory, expanding the user workspace to 56K.

QUICKRUN/8048 QUICKRUN/1802 QUICKRUN/3870*	\$200.
QUICKRUN systems which run on 8080 or Z-80 processors and contains cross-assemblers for other processors.	
BASIC/8080 BASIC/Z-80	\$300.
Extended BASIC language interpreter for tape or disk based systems. Requires 32K bytes of memory. Interpreter automatically reconfigures to make use of up to 64K bytes of memory.	
BASIC COMPILER/8080* BASIC COMPILER/Z-80*	\$300.
BASIC language compiler system for disk based systems. Language is a subset of the interpretive language above, and includes a high-level symbolic debugging package. Requires 32K bytes of memory.	
RDOS/8080* RDOS/Z-80*	\$300.
Disk operating system with relocatable macro assembler and linkage editing capability.	
WORDPROCESSOR/8080 WORDPROCESSOR/Z-80	\$100.
Program for producing formatted letters, reports, manuals, etc.	

ACCESSORIES

CASSETTE TAPE (PKG. OF 10)	\$15.
8" DISKETTES (BOX OF 10)	\$100.
5" MINIDISKETTES (BOX OF 10)	\$75.

ORDERING: When ordering complete systems, specify 8080, 6800, or Z-80. When ordering optional packages, specify 8080, 6800, Z-80 and media on which software is to be supplied: cassette tape, 5" mini diskette, or 8" standard diskette.

TERMS: Net 30 days. All invoices payable in U.S. funds. Prices valid in U.S.A. and Canada.

FOB: Los Angeles, California 90045

WARRANTY: All equipment, except printers, carries a 90 day warranty against defects in material and workmanship.

*Available 4th quarter 1977

**Available 1st quarter 1978

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Tokyo, Japan 150
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