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Businessmen watching demonstration at "Computermania" in Boston

Computer Show's Message: 'Be the First on Your Block'

By LEE DEMBART Special to The New York Times

BOSTON, Aug. 25-The computer revolution seems endless. Every six months, a new product comes along that outdates everything before it. The latest is the microcomputer, based on the same technology as the pocket calculator but capable of putting a powerful computer into homes and small businesses.

Several thousand people, many of them students or businessmen, turned out here today for "Computermania," a major exposition of microcomputers carrying price tags of \$300 to \$3,500. The displays were extensive, the exhibitors excited and the computer enthusiasts eager to study everything new.

Limited Only to Imagination

But no one could say for sure why people might need a computer at home. "For fun" seemed the most honest answer. Some manufacturers said a home computer could balance a checkbook, although a \$15 calculator could do the same thing. The personal computer

those of a typewriter, and a display screen or a capability for attaching to one. Inside, their key element is a micro-processor chip that is a computer on a piece of silicon a quarter-inch square. The chip has the power of the original Eniac computer of 1949, which took up a city block.

Three years ago, there were no microcomputers. People who wanted computers at home had to rent or buy a terminal and plug in to a large computer somewhere, frequently at a university, where they would be one of a hundred other users in a time-sharing network.

Compared to time - sharing, the microcomputer is very, very powerful," said Gordon Stitt, who was demon-strating the IMSAI system, 10,000 of which have been sold in the last year and a half.

The only thing that big computers do better than microcomputers is a lot of arithmetic. By computer standards, mi croprocess ٩L ma capable of doing several hundred additions a second as against hundreds of thousands by the big ones.

seems to be a spectacular toy in search of a use.

"Sometimes it is difficult to explain to somebody what they need it for just as it would have been difficult to ex-plain to someone in 1850 whet it plain to someone in 1850 what they needed an automobile for," said Dave Armitage, president of Computer Power Inc. of Warwick, R.I., who was demonstrating a Sol terminal computer. "The uses of a machine like this are limited only to the user's inscrimination." "The uses of a machine like this are limited only to the user's imagination."

At another booth, Steve Jobs was demonstrating the Apple II computer, which is the size of a portable typewhich is the size of a portable type-writer and hooks up to a regular televi-sion set. It plays games, displays color graphics or does sophisticated mathe-matics. Mr. Jobs suggested that ama-teur radio operators could use the \$1.300 device to figure frequency skips and that investors could use it to chart stock prices or do commodity spreads.

A Keyboard and Power Chip

But, Mr. Jobs agreed, "most people are buying computers not to do some-thing practical but to find out about computers. It will be a consumer product, but it isn't now. The programs aren't here yet."

On the outside, all of the personal computers have a keyboard, much like

Small Business Market

The personal computer industry, which is estimated to total \$30 million a year (up from \$5 million two years ago) thinks its biggest market today is not the same hobbyist but the small business with calls of \$250,000 a year business with sales of \$250,000 a year or less. Up to now, computer time was too expensive for such enterprises.

"It used to be hobbyists," said Alan ald, owner of the Byte Shop of mpe, Ariz., which calls itself the af-rdable computer store. "Now it is pre-personal business users." Hald. Tempe, fordable more personal business users."

more personal business users." Ervin Fraser, a data processing man-ager in Boston, said he came to the show today to see what innovations there had been. "You go away for three months and come back, you find things you never heard of before," he said. A 19-year-old junior at the Massa-chusetts Institute of Technology, Man-uel Ulloa, said he planned to buy a personal computer because, "you can take it in your room and turn the lights take it in your room and turn the lights out.

"If you invert a matrix on a big computer, that's nothing," Mr. Ulloa said. "But if you add two plus two on your own computer, that's something."

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