Page 8 computer in every home to play, work with

quintets

start and stop.

By JOHN F. SIMS Business Writer United Press International

NEW YORK — Industry promoters would have us believe that in five years nine out of every 10 homes in America will have their own minicomputers.

The electronics industry sees the idea of the home computer — the mos latest in a long line of spinoffs from cost America's space exploration pro-gram — as one whose time has come.

But once you've linked a small computer to your TV set and you've played Star Trek or Pong and you've calculated your income tax — what then?

According to the industry, an awful lot.

Changes in your lifestyle through the use of computers in the home could be as revolutionary as you want them to be, or can afford.

On the other hand, you could just ignore the whole trend and probably save yourself a lot of technological anguish.

Ryal R. Poppa, chairman of Per-tec Computer Corp., recently told

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way of saying, "Thanks Ags.

scratched the surface.

'In offices, homes and industry; in cars, planes and trains; in schools, universities and churches; even in leisure time activities, electronics will improve our lives with an almost insignificant increase in

"Only a few months ago I projected that sales of microcomputers, the new generation of tiny computers, would reach \$100 million by 1980. With the enormous interest and acceptance of our MITS Altair microcomputer, the first to reach the market, and what I now see being accomplished by others in the field, today I'd have to raise that projection substantially. We're now looking for industry sales of mi-crocomputers to hit \$150 million in

1980." The first store specializing in small computers opened in Los Angeles in 1975. Now there are thus 500 such stores scattered thus 500 such stores scattered thus 500 such stores scattered Do-it-yourself minicomputer Mission costing as little as \$300 are now available. Very sophisticated de-vices sell for less than \$3,000 and for to 000 core con buy a computer, not across the country.

Personal computing expositions, available hardware and software, cost \$1 million only 10 years ago. have been held in several major What are the attractions of small cities.

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protection.

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an electronics industry seminar: "To many people, electronics already seems pervasive. But we've only Carl T. Helmers, editor of the specialist managzine Byte (a byte is a unit of memory in a computer), Carl T. Helmers, editor of the said: "Personal computing is in its adolescence now, but growth within the next few years should be rapid

and exciting." Some 50,000 minicomputers have Some 50,000 minicomputers have already been sold. Most were nomi-that plays master-level chess.

Do-it-yourself minicomputer kits costing as little as \$300 are now available. Very sophisticated devices sell for less than \$3,000, and for \$5,000 you can

nally for use in the home, but in fact many have wound up being pressed in to service in small businesses. Industry experts predict 1978 will

be a boom year in which 150,000 or Do-it-yourself minicomputer kits

\$5,000 you can buy a computer, not much bigger than a filing cabinet, each one displaying a larger range of that is as capable as machines that What are the attractions of small

computers The industry's promoters offer a wide range of applications, including the following:

✓ calculating household ex-

TEXAS INSTRUMENTS Has The Latest In Programmable Calculators Loupot's Bookstore

penses and working out income tax. ✓ storing names and addresses of friends to ease working out invitation lists for parties.

✓ converting recipes to fit the size of your dinner party. \checkmark all kinds of games, from ping

Computer buffs say it may not be

buy a tape or disc specially designed

to program his home computer to

keep an inventory of family pos-sessions, balance the checkbook, or

tell the microwave oven when to

But a major problem for the man-ufacturers of small computers is

overcoming popular suspicion of

computers in general and the glazed look that most people adopt when

confronted with computer jargon. According to Poppa, the day is

coming when new homes will have

computers work such a computer could tell you how much the family spent for groceries last month and compare it with the amount spent in the same month last year," he said. 'More importantly, it would

permit more efficient regulation of the heating, air conditioning, lights, pool temperature and even the

buy a computer not much bigger than a filing cabinet that is as capable as machines that cost \$1 million only 10 years ago.

sprinklers, based on the amount of moisture in the soil," he said. "That \checkmark a program that allows a small computer to compose quartets and will lower utility bills and help preserve precious natural resources at ✓ computers to help the handthe same time — well worth the relicapped. ✓ a very patient computer that teaches children math. atively low cost of the microcomputer.

The technology is available now, Poppa said, but America is not quite long before the average homeowner goes to his local electronics store to ready

"The present school-age generation is being trained with computers and by the time these people are ready for their own houses, the built-in computer will be widely accepted," he said.

Children brought up to regard computers as mere tools will not experience the "future shock" that leaves many people baffled by the mystique that has grown around computers.

Erik Sandberg-Diment, editor and publisher of another computer magazine called ROM, said he had problems breaking that language

"Computerland seemed to be walled in completely by gibberish," he wrote in an editorial. "I knew it wasn't really gibberish: it all meant something. But even those who tried to explain the jargon to me used the same language to describe terms as the terms themselves did."

How will people survive if they don't computerize their lives?

Obviously not too badly. Household accounts and taxes can be worked out on a hand-held calculator, or even just with pencil and paper. A parent can teach a child math and games at home need not be electronic.

minding people of day-to-day things like birthdays, anniversaries and dental appointments.

the corner of the living room out make life a little easier. H een obt perhaps, also, it will have ad Universit humanizing effect. Theodor Nelson, a researcher i from the

Swarthmore College's department Press of mathematics and author of sevent Kelmscott works on computers, has high Books of

hopes. "We are on the brink of the brink computer age," he said recent "By 1980 there will be person computers, I believe, in some" A&M. T million American homes... voted to

"The new developments in on puter usage will cause convis-changes, not merely among use but within the computer communi-sistant but within the computer communities the state of the stat Exam painful dislocations but we can get to a world where the messy ending senior like taken care of automatically and is Kelmscon

formation comes to us when, when and how we want it.

"A world with a lot more know edge spread around in it — andaia more fun. And it may be that area duding edge spread more fun. And it may be that and to information, real access under people's control, may yet make the book the hetter world, may reverse the printer. tides of apathy and illiteracy he rise daily

Small public school districts arved bary's The might lose new HEW funds which il

WASHINGTON — The Depart-ment of Health, Education and Wel-fare Tuesday told 27 small public school districts, including Leander funds 11 that receive no federal aid from

HEW. However, statements from I.S.D. and Refugio in Texas, they will be ineligible for new HEW them are necessary if they decide to

Instruction of the second state of th female students and employees,

nation in schools receiving federal programs or receive assistant funds. under the Veterans' Educational A Among the 27 school systems are

sistance Act, the announceme said.

In addition, some schools could The be receiving funds from federal agencies other than HEW - like Basilisk three R volume revenue sharing funds — that out become the subject of separate in They v rights enforcement proceedings, a spokesman said.

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The 27 newly identified school systems were told in letters that d fective Jan. 12, they will be in ble for new HEW grants, and

ministrative enforcement pro ings will be launched that coul to a cutoff of existing federal aid

None of the school districts likely to lose existing federal during the current school ye Enforcement proceedings can tak year or more.

Now You Know By United Press International

Saint Nicholas, whose name corrupt to "Santa Claus", is they tron saint of youth, merchant travelers and thieves.

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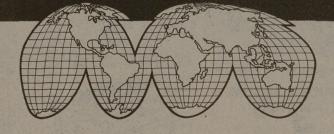
ing they do not discriminate against ineligible for federal aid were not receiving any HEW funds. However, many colleges that re-ceive no federal aid still might have HEW said. The statements are required under the Title IX federal sex discrimination law. Title IX, a section





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