Us' Festival Will Feature Music and Computers Sept. 3-5 in San Bernardino County
250,000 Expected at Concert and Technology Fair

The 'Us' Festival, a concert and computer technology exhibit designed to refocus attention on working together, will be held September 3-5 at Glen Helen Regional Park in San Bernardino County, Ca. The Labor Day event, the brainchild of Apple Computers co-founder, Stephen Wozniak, is part of a national awareness campaign to usher in the "Us' Decade of the 1980's."

More than 250,000 people — computer hobbyists, music fans, and others — are expected to attend the holiday weekend celebration that will feature three days of rock, blue grass and country western music and a computer technology fair.

Wozniak is chairman of UNUSON Corporation, the San Jose-based communications and education development company producing the 'Us' Festival.

"The intent of the festival is to encourage a shift away from the 'me' decade of the seventies to a clear focus on the power of teamwork, the "us' concept," says Wozniak.

"The problems we are facing as a nation are many," he says, "and the solutions won't come easily. But we believe that the future of America, and society in general, lies in people accepting that these difficulties belong to all of us and that by working together, we can solve them."

The festival will feature an impressive array of musicians and internationally known speakers who will comment on technology and cooperative work.

Computists Urged to Exhibit at 'Us'

The 'Us' Festival may host the largest group of computer users ever assembled, say organizers.

The 'Us' Festival — to be held Sept. 3, 4, and 5 at Glen Helen Regional Park in California's San Bernardino County — will include one large circus tent housing strictly "homebrew" and user group exhibits. The Festival, a combination concert and technology exhibit, is the current project of Apple originator, Steve Wozniak.

In addition to the exhibits, home brew creators can compete for prizes in software and hardware development for microprocessors.

The Technology Fair portion of the 'Us' Festival will highlight the technology that brings people closer together, solves problems faster, and does not waste natural resources. Included in the exhibit area will be displays of microprocessors, communication devices, alternative energy and fuel systems.

User group meetings will be scheduled throughout the three days of the Festival. It is expected that groups representing not only Apple, but Atari, IBM, Hewlett Packard, Commodore, and Tandy, will draw members from all over the country to meet and share ideas.

While the entrance fee for the general public will be $37.50 for the three-day period, participants in the homebrew or user group exhibits will be able to purchase tickets for $25.

For more information on tickets, exhibit space, and scheduling of user group meetings, contact: UNUSON Corp., 2001 Gateway Pl., Suite 500, San Jose, CA 95110. Please mark inquiries "Users" or "Homebrew."

Rumors Mongered Here

by Jim C. Warren, Jr.

For those of you new to this questionable column, be forewarned: This is some fact, some outrageous (or outraged) opinion, and some jus' plain fancy. Mostly however, it should be taken as merely ribald rumor and humor for the entertainment of computer folks.

ROCKY RACOON RIDES AGAIN

Steve Wozniak just finished his Bachelor's degree in EE at UC-Berkeley — registered under the name of Rocky Raccoon Clark. Rocky is his favorite dog. Clark is his wife's maiden name. (Steve is the dude who, while working full-time for Hewlett-Packard, used some of his spare time to design and implement both the hardware and the software for the first Apple computer, and is co-founder of Apple.)

It seems that Steve is going to have to file a special petition with the megaversity to have his diploma issued in his 'old' name.

The problems we are facing as a nation are many," he says, "and the solutions won't come easily. But we believe that the future of America, and society in general, lies in people accepting that these difficulties belong to all of us and that by working together, we can solve them."

The festival will feature an impressive array of musicians and internationally known speakers who will comment on technology and cooperative work.

Continuous Systems Simulator

Applied i, of Palo Alto, Ca., has acquired the North American rights for Tutsim, a computer program designed to simulate continuous dynamic systems for scientific and financial applications.

Developed in Europe by the Twente University of Technology in Holland, Tutsim has been used in European academic and scientific communities for over 10 years. Currently, Tutsim is available for use on Apple and CP/M operating systems. An IBM version is under development and should be available this fall.

For more information, contact: Applied i, 200 California Ave., Palo Alto, CA 94306 (415) 325-4803.
Caxton Introduces Cardbox Indexing System

Caxton, an English software publisher, introduced its second product, Cardbox, an electronic card indexing system for microcomputers at the 7th West Coast Computer Faire in San Francisco. The product is a computer replacement for manual card indexing systems. People who would never trouble to use a conventional card index can easily utilize Cardbox. Users simply draw a "card" of their own design on the screen and fill in the required headings and data. Cardbox allows for up to 26 fields, 1404 characters and 65000 cards. Once the database of cards is created, the user can search through the data on key words, which are highlighted on the screen, or any word or part word in the file. Up to 99 levels of search are provided to satisfy the most demanding application. Searches can be refined or extended at will and a neat history of searches is available.

Cardbox users need little computer experience. The plain English commands and free format layout mean that users do not have to think in computer terms, and the accompanying tutorial manual takes the user step-by-step through a real application. A reference manual explains Cardbox's features, including working with other CP/M programs and special terminals.

Caxton Software was established in London expressly to acquire and publish the works of software authors and small software companies. The first product the company released was Optimiser, a spread sheet linear programming program, for optimising resource allocation. Optimiser is available on Apple II and will be shortly released for CP/M systems. Recommended retail prices: Cardbox $245, Optimiser $495.

For further information, contact: Caxton Software, 10-14 Bedford St., Covent Garden, London WC2E 9HE, ENGLAND.

DataPro Reports on Disk Drives

Analysts predict that by 1985 the 5.25-inch and 8-inch Winchester disk drives will dominate the market, according to a new DataPro report, "All About Winchester Disk Drives." Describing Winchester technology, the report goes on to say that Winchester disk drives represent the Winchester Disk Drives. Winchester disk drives dominate the market, according to a new Datapro report, "All About Winchester Disk Drives." the market and provides an account of what has happened since IBM introduced its 3440 Winchester disk drives in 1973.

"All About Winchester Disk Drives" provides 215 comparison charts with basic characteristics of Winchester disk drives from 66 vendors. Describing Winchester technology, and choices in backup devices, the report presents a full history of the trend from the earlier 14-inch drives to the 5.25-inch and 8-inch drives that have proliferated in the past year.

Included with the report is a user rating survey where users were asked to rate the drives on overall performance, ease of operation, and equipment reliability.

"All About Winchester Disk Drives," reprinted from the April supplement to "Datapro 70," is available for $15 a copy from Datapro Research Corporation, 1805 Underwood Blvd., Delran, NJ 08075.

Linguist Translation Program

A new educational software program called The Linguist, a foreign language translation and tutorial program for the Apple II, is the newest offering from Synergistic Software. It allows the Apple to correctly print the foreign alphabets of such languages as Hebrew, Russian, Japanese, Greek, German, plus the Romance languages and English. This program can work with words, phrases, definitions, technical terms, or phonetic pronunciations.

The Linguist requires an Apple II computer, Applesoft, 48K, DOS 3.3 and $40.

The Linguist user types in the words, phrases or definitions he or she would like to learn and is tested on these words. The Linguist keeps score and corrects mistakes. If a phonetic pronunciation is desired, the user can decide which pronunciation guide to use (from American Heritage Dictionary, the International Phonetic Alphabet, or the Trager-Smith Pronunciation systems). The Linguist can operate with one or two stored languages with a maximum storage capacity of 4400 words, 2600 definitions, or 2000 foreign phrases.

For more information, contact: Synergistic Software, 830 N. Riverside Drive #201, Renton, WA 98055, (800)426-6505.

Rumors . . .
(continued from page 1)
that are not clear, its sales have been far below what Xerox expected. Perhaps it was the IBM PC intro, three months later. Perhaps it was their failure to exhibit in the Computer Faire — guffaw!

Now, several months ago in Kansas City, they were exhibiting their new 10/20 with a base price of $3295. It should be available about the time you read this column.

Targeted for business and professional use, it can "store about 4000 pages of data," and has the option of connecting to an Ethernet. We look forward to a more aggressive and effective marketing campaign for this follow-on than they pursued with the original 820, for strong competition has been of major benefit to the industry and the user.

PANASONIC OFFERS 10-DAY WARRANTY

We recently discovered that Panasonic offers a full, 10-day warranty on the rechargeable batteries for its portable teees. This illustration of their faith in their products should be given ample publicity, particularly since it is not mentioned in the product literature.

LITTLE TOOT

Working on a govt contract? Watching waste thereupon? Blow the whistle. You can call the Government Accounting Office's special, toll-free hot line with such hot info — 1-800-424-5454, offering 24 hour recorders to accept your tasty tidbits. The whole department that accepts and checks on such tips is protected by a security system appropriate for the CIA or Pentagon.

Since it was set up by Congress in 1979, it has taken over 34,000 calls, almost a third of which have resulted in tax-saving corrections of abuse and fraud by government offices and government contractors.

NUTS & BOLTS

Ever need a few nuts, or bolts, or washers, or connectors, or shrink tubing, or pliers, or ... you get the idea — basic mum.
(continued on page 4)
The 7th West Coast Computer Faire was a tremendous success. Over 36,500 attendees flocked to San Francisco's Brooks Hall and Civic Auditorium to see the computer conference and exposition. The 7th Faire featured 456 exhibitors in over 600 booths, including a set of microbooths, unique to the Faire, that provide exposure to undercapitalized companies.

National and Bay area media gave the Faire extensive coverage. A "60 Minutes" camera crew spent three days filming the Faire as part of a upcoming feature on technology innovation. Attendees were able to enjoy, along with the product exhibition, a Conference session of over 100 speakers, an address by internationally known educator, Seymour Papert, and introductory and advanced microcomputing seminars.

Apple Co-Founder

Steve Wozniak is Festival's Driving Force

Steve Wozniak, co-founder of Apple computers, is the moving force behind the 'Us' Festival. "It really came to me — of all places — while I was driving along the freeway," he explains. "I wanted to throw the 'party of the century' for computer hobbyists and clubs."

Wozniak has been on leave from his Apple position to attend the University of California, Berkeley, where he has recently completed his undergraduate degree. There, he found the time to develop his new idea with the same teamwork approach that helped build Apple into a billion dollar corporation.

He recruited some of the nation's top educators, promoters, entertainment specialists and community leaders to help stage the 'Us' Festival. Working with them, he says, reaffirmed his belief in love and work with others towards a common goal. "It was then that Peter Ellis and I realized that what we were experiencing... the joy of seeing people come together from diverse backgrounds, work together, learn from one another and see results for our joint effort... was probably even more important than the event," Wozniak says.

This unique team, headed by Wozniak and Ellis, decided to use the 'Us' Festival as a way of doing a memorable statement about America's need to start solving problems through cooperative effort. UNUSON Corporation was created not only to produce the 'Us' Festival, but to communicate the 'Us' concept through educational programs nationwide. "I don't know where this will lead," says Wozniak, "but if we have communicated the power of working together to 250,000 festival participants in a compelling way, we have shown how effective future technology will be in helping us do that, we feel we will have been successful."

The Computer Chronicles’ Syndicated Nationally

"The Computer Chronicles," a television show on microcomputing hosted by Computer Faire Chairperson Jim Warren, will be syndicated nationally. The technology series is now airing over 28 Public Broadcasting stations and statewide networks and several more stations are expected to join the series. The program's end, reports producer Dave Carlson.

In the San Francisco Bay Area, the show is produced and broadcast over KCSM Channel 9 TV and Broadcast Station, Thursday evenings from 7:30 p.m. with repeat showings on Fridays from 9:30 a.m. and Saturdays from 5:30 p.m. In Southern California, the show is broadcast over San Diego's KPBS and KCET in Los Angeles.

Underwriting is being sought for "The Computer Chronicles." Currently, the series is funded entirely by KCSM, with Warren and his guests donating their time.

The show, which has attracted a wide Bay Area audience since its premiere last September, will reach whole new communities with national syndication. Computer enthusiasts from Honolulu to Washington, D.C. will now be able to tune into discussions on the latest in microcomputing. Beginning with a program featuring Adam Osborne and Lee Felsenstein, co-creators of the Osborne 1 microcomputer, "The Computer Chronicles" has featured some of the most fascinating authorities and applications in computing today.

Gary Kildall, inventor of the CP/M operating system, Dan Flystra, creator of VisiCalc, and head of IBM's Personal Computer project, Dan Estridge, have all appeared on "The Computer Chronicles." Programs have covered such diverse topics as computer generated music, successful software entrepreneurs, computer aided instruction, and public information utilities. "The Computer Chronicles" is the first national series to feature Warren, geared for a computer literate audience.

Future "Chronicles" programs will showcase new computer applications, authorities, and equipment. The series will feature remote reporters, microcomputing developments, but not at the expense of Warren's interviews with microcomputing notables.

Software Protection’ Journal premiers

Law & Technology Press has just published its premiere 16-page issue of "Software Protection," a journal on the legal, technical and practical aspects of protecting computer software. Eight times per year, this periodical will probe the laws of software protection, software piracy, computer crime, and contract law.

Subscriptions to "Software Protection" are available for $48 a year in North America and $60 a year elsewhere. For more information, contact: Technology Press, 3500 S. Figueroa St., Los Angeles, CA 90007, 213/748-9416.
A Computing Potpourri

The "Potpourri" section of the 7th West Coast Computer Faire "Proceedings" is a collection of seven papers covering topics from cures for computer phobia to computer theft and its impact on the industry. These papers, which defy classification under any of the usual "tracks," head the "Computer Phobia: What It Is And How To Cope." Colman describes computer phobia and the type of people effected by it. She includes a two-hour program in her paper that defines proven methods of fear reduction and social influence.

Asynchronous conferencing with personal microcomputers will let special interest groups link up and be heard, even before in history, writes Dean Gengel in "Micro Videotype Electronic Publishing or Fairwiring for Fun and Profit." Gengel describes government and industry experiments in computer conferencing, including what he calls "true corporate guerilla electronics" at IBM. He discusses a new communications game called the "conference tree," and shares his thoughts about creation of "non-coercive organizational structure that can fully utilize this conferencing.

In "Participative Management via Telemail," Bernard Husbands discusses commercial electronic mail — "one of the technological infants waiting on management's doorstep" — and the use of Telemail as a conference tool. Husbands asserts that electronic conferencing can make meetings more productive and less costly, and that an "electronic forum" encourages participants to focus on ideas instead of personalities.

"From tiny enterprises to great industrial giants, the strength of the economy is based on the caliber of project management," writes Joan Dornfest in "Cost/Schedule Control System: The Lance of Project Management." Dornfest's analysis combines features of several such systems with her personal experience to define an integrated Cost/Schedule Control System for project management. Her CS/Cs can be implemented on a variety of computers including micros.

In "Managing Information for Productivity," Thomas Hill urges businesspeople to set up efficient channels of communication. According to Hill, electronic media, properly used, can provide good communication and can include: establishment of an information audit of data links; increased dialogue; acceptance of people with new ideas; and making of critical decisions. The paper concludes with a plea for reasonable banking services — we must prohibit the use of over half of the disk which would prohibit the use of over half of the disk.

"Much of the computer crime chronicled today concerns cases of fraud and software-related problems. However, what I consider major and equally significant problem looms on the horizon — the problem of computer hardware theft," writes Thomas Smith in "The Impact of Computer Theft." Smith talks about the thefts of microcomputers, disk drives, and software-related problems. He urges computer users to think of security before they're robbed. His paper, filled with illuminating statistics, has two security checklists useful for the office or home.

Synergestic Game Software

Synergestic Software has announced the release of a new utility software program called the Game Animation Package. The Game Animation Package allows Apple users to create high resolution graphics and arcade games.

The Game Animation Package features bit mapped graphics, vector graphics and full screen creation that allow users to make full screen pictures as used in adventure games for logos, maps and gameboards. The complete color fill option allows the users to create beautiful high resolution pictures. Programmers can now produce two dimensional images with lines, circles, ellipses and more.

For more information, contact: Synergestic Software, 830 N. Riverside Dr., 201, Renton, WA 98055, 800-426-3505.

Rumors . . . (continued from page 1)

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Rumors . . . (continued from page 1)

dane materials and tools for the modern world.

They are a mail-order operation that offers all sorts of packages, many of such things, that come with appropriate multi-drawer containers and labels, making it economical and convenient to stock your shop for the needs of a fixeter.

We have ordered a number of kits from them over the past year, found them to be low-cost, efficient in response, and acceptable in quality.

WHO NEEDS UNIONS?

The high tech industry seem to be holding the golden goose. The U.S. Department of Labor is projecting a shortage of 1,754,000 trained EDP personnel by 1985. Additionally, since hardware faults are their own, tax-supported, bureaucracy-operated, they are only 50 percent of the maximum track access delay. In track 0 or in the maximum track, the worst-case access delay is the middle of the disk, the worst-case access delay will be lH the maximum track access delay.

Additionally, since hardware faults are often all-or-all at faults, a fault is more likely to occur a 'Write' to the outermost or innermost track most than it is to cause a write to the middle track.

One might object that such a scheme would prohibit the use of over half of the disk as a quickly-addressable random file. Not so — simply have the track computing algorithm increment by one if the track number is greater than or equal to the middle track number. The time lost in such an incrementation would likely be much less than the time lost by requiring the rw head to run all the way in or all the way out for each MFD or bit-map access.

CO-OP CABLE

Cable systems are proliferating at a rapid rate around the U.S. Most are installed for profit by for-profit companies that offer no more services and facilities to the community than are required by an often-naive franchising body — the city government. Additionally, some local governments are installing their own, tax-supported, bureaucracy-operated cable systems — a move to excite an increasingly tax-conscious populous.

Though they have massive potential for data communication, personal computer programming and cable operators are doing little more than paying minimal lip service to such services since there is little immediate profit potential, and since they generally have a business orientation rather than a community service or technology orientation.

Some folks in high tech Palo Alto, California, are proposing another alternative: a cooperative cable system, patterned along . . . (continued on page 6)
New Drives by Micropolis

The first three models of a new series of 5.25-inch Winchester disk drives designed for multi-user small business systems, featuring a maximum storage capacity of more than 50 megabytes, were unveiled recently by Micropolis Corporation.

The new 1300 Series provides 17.3, 34.6, and 51.9 megabytes of unformatted storage. All models feature an average access time of 38 ms and an audible noise level of less than 50 dbA.

In addition to the standard ST-506 interface, the new drives incorporate industry standard dimensions, bezel, mounting and data rate. Each unit employs a shock-isolated head assembly as well as rugged, die-cast construction.

The drives also feature automatic positioner lock, disk brake and head retraction on power down, as well as field proven head and media technology to ensure volume production in OEM quantities. A balance rotary voice coil positioner is incorporated in all Micropolis Winchester drives.

Additional specifications include a track density of 96.25 tpi, maximum recording density of 9400 bpi, and a 5.9 megabit per second transfer rate.

Evaluation units of the new drives will be available in the fourth quarter 1982, with volume shipments expected to begin in the first quarter of 1983. Quantity 1000 pricing of the drives is between $900 and $1400 depending on capacity.

For more information, contact: Micropolis Corporation, 21529 Nordhoff St., Chatsworth, CA 91311, (213)709-3000.

Courseware Simulates Chemistry Experiments

TRS-80 Microcomputer courseware that simulates actual chemistry laboratory experiments. Chemistry Simulations for the TRS-80 Model I or III microcomputer and Color Chemistry Simulations for the TRS-80 Color Computer are available for $199 each.

Chemistry Simulations uses graphics and mathematical equations to simulate chemical reactions that occur under actual laboratory conditions for six basic chemistry experiments: kinetic theory, Charles’ Law, Boyle’s Law, solubility, titration and conductivity. Students can witness experimental results, plus collect, graph and analyze experimental data with the aid of the computer.

Chemistry Simulations includes software, an instructor’s manual and 25 student manuals. The instructor’s manual offers suggested areas for emphasis and methods of presentation.

Chemistry Simulations requires a TRS-80 Model I or Model III disk system with a minimum of 32K of memory. Color Chemistry Simulations requires a 16K RAM RS-80 Color Computer, bezel, Extended BASIC and CTR-80A cassette recorder.

For more information, contact: Tandy Corporation/Radio Shack, 1800 One Tandy Center, Fort Worth, TX 76162.

Restaurant Video Ordering System

Newly introduced by Sweden International is the two-way food and beverage video ordering control system and Model 5640 “Budget Genius” electronic cash register for front-desk operations at budget hotels and motels.

The Expediter system links dining room, bar and kitchen employees through standard video monitors. It displays orders continuously in each stage of production and consecutively by number until they are picked up by waiters and waitresses. The system provides complete menu instructions.

It allows restaurant managers to monitor the progress of all dining room orders, which can be assigned individually to various video monitors in the kitchen. As each item is prepared, the cook makes a simple entry indicating the screens that the order is ready for pickup.

The Expediter system has been designed to complement and function with Sweden’s L-45 family of electronic cash registers.

The Model 5640 “Budget Genius” is designed for 60- to 150-room hotel or motel operations and can help prevent errors that can occur at the one-person front desk.

The register allows separate tracking of revenue totals for different clerks, single-key posting of guest rooms, two-column posting of debits, credits and balances on guest bills and offers check digit verification capability.

The Model 5640 can function as a previous balance register, rejecting balance pickup entries that do not agree with what is printed on the folio. It also automatically positions a folio in the printer to meet the next available line of print.

The keys of a Model 5640 can be preset for 14 or more departments with descriptors of up to four letters. Separate accounting totals can be maintained for guest and city ledgers. Since follow-up vouchers are given separate page stations, both can be posted at the same time to provide greater accuracy and faster checkouts.

For more information, contact: Sweden International, Inc., 34 Maple Ave., Pinebrook, NJ 07058.

‘Us’ Festival Will Feature Computers

Members of California’s electronics and computer community have already received a package announcing the ‘US’ Festival and inviting their participation in an exhibition focusing on technological development in the areas of microprocessing, communications, and energy conservation.

Festival creator and UNUSON Board Chairman, Steve Wozniak, says he hopes this exposition of talent and creativity—individual and corporate—will illustrate the tremendous benefits of teamwork in technology.

Spread over 35 acres of the Festival’s Glen Helen Regional Park site, will be six festively colored circus tents offering the 250,000 expected to attend a look at technology of significant value to us and our future.

This unique coupling of technology and entertainment—a non-selling show—will provide massive exposure for all products on display.

Anyone desiring further information or an exhibitor’s package should call (408)294-8424, or write UNUSON Corporation, 2001 Gateway Place #500, San Jose, CA 95108.

Control-C to offer Full C Compiler

Control-C Software, a Portland, Oregon software developer, has already received a pact with Mark Williams Co. of Chicago, to transport their full Bell V2 Compiler to run under CP/M-86 and MP/M-86.

“This compiler, named CC-86, is a very attractive project for us. Not only can we offer a full C Compiler in a market that badly needs one, but also we can use it as a vehicle to transport our Basic Four-compatible Basic Business Basic interpreter into the 16-bit marketplace,” said Andy Johnson-Laird, Control-C’s president.

“Our Business Basic interpreter will be completely compatible with CP/M and MP/M in the 8-bit world and the corresponding operating systems in the 16-bit world,” he said.

The starting point for this compiler is the C Compiler from Williams’ 8086-based implementation of the Coherent operating system. The transportation requires conversion of the compiler, the linking loader and the run-time package.

Prices are $500 for the Compiler, including the Relocatable Assembler and Linker, and $250 for the Relocatable Assembler and Linker when purchased separately.

The compiler handles the complete C language as defined in “The C Programming Language,” by Kernighan and Ritchie (Prentice-Hall). In addition, the features found only in Bell’s Version 7 compiler will be supported.

For more information, contact: Joyce M. Kemp, Director of Marketing, Control-C Software, Inc., 6441 S.W. Canyon Ct., Portland, OR 97221, (503)297-7153.

North Star Announces Price Cuts

Citing manufacturing economies and vendor-supplied price reductions in purchased components, North Star Computers has announced a series of price cuts that range across the company’s entire line of Multi-User Horizon Series and Standalone North Star Advantage microcomputer systems.

The price of the North Star Advantage microcomputer, with an integrated diskette and integrated 5-1/4 inch 5 Mb hard disk has been reduced by 24 percent from $6,599 to $4,999. The company’s basic Horizon Series system with a diskette drive and a 5-1/4 inch 5 Mb hard disk has also been lowered by 17 percent, from $5,999 to $4,999.

For more information, contact: North Star Computers, Inc., 14440 Catalina St., San Leandro, CA 94577, (415)357-8500.
Financial Modeling for Apple II

Osborne/McGraw-Hill has begun distribution of a financial modeling software package - MicroFinesse. For both small business and corporate executives, MicroFinesse applications can be expanded and customized to fit almost any need.

This financial modeling, forecasting, and decision-making program was originally developed by the P-E Consulting Group, an English management firm, with over 10 years experience in financial modeling. It is now offered through Osborne/McGraw-Hill throughout the U.S. and Canada. MicroFinesse is a complete menu-driven package with documentation which runs on the Apple II 48K microcomputer supplied with a Pascal card. The cost of MicroFinesse is $495.

MicroFinesse enables the user to create investment models, account statements, and sales productivity analyses which allow the user to answer "what if" questions. In addition, MicroFinesse provides color graphics, model consolidations, and report generation.

For more information, contact: Osborne/McGraw-Hill, 630 Bancroft Way, Berkeley, CA 94710, (415)548-2805.

Digital Research Moves into Graphics

Digital Research Inc. will extend its product line to include a full complement of graphics products to support the rapidly growing array of graphics hardware, announced Gary Kildall, president of Digital Research.

"Our goal is to develop microcomputer industry standards for graphics, just as CP/M has done for operating systems. To accomplish this, our products will incorporate the emerging graphics standards of the American National Standards Institute (ANSI) and the International Standard Organizations, as well as the North American Presentation Level Protocol, where appropriate," he said.

Digital Research will offer its first graphics software products through a joint development and marketing agreement with Graphic Software Systems Inc., of Wilsonville, Oregon, according to Fred Langhorst, Digital Research manager of graphics development.

Under the agreement, the companies will develop graphics products to provide application developers with a programming interface consistent with emerging ANSI standards for computer graphics. Initial products will include a library of graphic primitives, necessary to graphically produce lines and text, and a library of higher level functions for plotting bar graphs and pie charts.

The Digital Research/Graphics Software Systems agreement includes a significant amount of technology sharing over and above its marketing aspects, according to Langhorst. This includes the creation of graphic subroutine libraries for Digital Research Compiler languages and the integration of graphic functions at the operating system level.

For more information, contact: Digital Research, 160 Central Ave., Pleasant Grove, CA 93550, (408)649-3856.
Unique Team Will Bring Festival to Life

A coalition of unusual people is working hard to make the 'Us' Festival a reality this Labor Day weekend. A former vice president of Lucasfilm, an architectural designer who worked on Yosemite and Olympic Glacier Parks, and a multi-cultural productions specialist are just some of the people who make up UNUSON's internal team.

Stephen Wozniak is chairman of the UNUSON Corporation and principal financial backer for the Festival. A cofounder of Apple Computers, he holds patents for the Apple I and has been named one of the top entrepreneurs in the country.

Peter Ellis, Ph.D., is president of UNUSON and a leading innovator in educational concepts. Ellis was co-founder of the University of Phoenix, the nation's first-for-profit university. Earlier, he was president of the Institute for Professional Development, a management education consulting firm.

Executive vice president for operations and secretary-treasurer of UNUSON is Gerald Cory, Ph.D., a retired U.S. Air Force lieutenant colonel. Cory has developed and taught Bachelors and Masters degree programs for public safety personnel. He is president of U.S. Education Systems, a corporation that develops management, sales, and personal development programs throughout California.

UNUSON's vice president for communications is Priscilla Lisitsich, Ph.D. She was regional director for the University of Phoenix, as well as division manager for the Institute of Professional Development. Prior to that, she was key administrator for community development programs in Michigan and a consultant to the U.S. Office of Education for Community Education Programs.

A fourteen year law enforcement veteran, Stanley Kephart is the group's vice president for land acquisition, development and public safety. Kephart, a former Pleasanton, Ca. city councilman, was a land developer before joining the UNUSON team.

Otis Swanson is UNUSON's construction coordinator. For over a decade, "Swaney" has been involved in major recreation construction projects, first for Disneyland and Walt Disney World, then for Marriott's Great America. He supervised a $60 million project for Disneyland and then served as construction superintendent for the $400 million Walt Disney World.

Craig Tocher, a registered landscape artist, will be responsible for design of the 'US' Festival site and land restoration planning. Tocher was involved in master plan preparation for Yosemite, Olympic Glacier, Big Bend National Parks, and other recreational sites.

A specialist in multi-cultural productions, Pancho Rodriguez, will work on Festival production and site development. Rodriguez is booking manager and a performer with "Music es Cultura," and in 1981 was coordinator and promoter for the "Festival Primaveral" at the San Jose Convention Center for the Performing Arts.

Wozniak and his team hold a planning session at the Festival site.

John Moor is UNUSON's executive vice president for administration. Formerly, he was senior vice president for Lucasfilm, Ltd. responsible for the financing of "The Empire Strikes Back" and worldwide marketing of ancillary rights for that film. Moor has also worked with Walt Disney Productions.

IN SEARCH OF 132 COLUMNS

by Jim C. Warren, Jr.

It's frustrating. Having an entire collection of 132-column CRT terminals appear on the market ... and find that every one of them is apparently myopically designed to be a DECish. Every one we tested insists on multibyte control sequences for cursor and screen control — in spite of the fact that there is a whole mountain of software (text editors, word processors, spreadsheets, etc.) that assumes a unDEC dumb terminal.

What's worse, some of them have amazing aberrations. E.g., one terminal has PF keys — "Programmable Function keys... that are not programmable. Another will run at 9600 baud ... except if you want to clear the screen, which is limited to 4800 baud. Still another, from the manufacturer of one of the best and best-known dumb terminals, has a keyboard that is so poorly supported that it feels more like a springboard than a keyboard. (Come on; a couple extra support posts couldn't cost that much, and they could help make the difference between a cheap terminal and an inexpensive terminal).

ICONOCLASTS PREVAIL

The thoughtless designers of these me-too VTClocnes apparently refuse to even offer the option of the "old fashioned" control-H, J, K and L for left, down, up and right cursor movement.

Thus, if one is to use a 132-column CRT with much of the micro ad not-so-micro software that exists, one must modify each one of that massive collection of usually-proprietary text processing software to accept multicharacter control codes from the cursor keys ... or not use the cursor keys (and probably not use the software, either).

Since these manufacturers have chosen to modify the standards for simple cursor control that have been in widespread use for much of a decade, perhaps they will next modify ASCII — after all, there's no sense in merely discarding part of something that works. Perhaps they will next require that all alpha characters be preceded by a null, and followed by an octal 98. (Wow! They can keep us software pros in work for years.)

SOME MICROS DISLIKE 960 CPS TYPISTS

Also, since the cursor keys generate multibyte sequences at the full port speed, this means that the micro's terminal handler has to accept them at that speed — and some micro software just isn't designed to accept 960 characters second from what is presumably to be a human-driven keyboard (e.g., when our Alpha Micro encounters such a 'high-speed' transfer, it promptly throws several of the bytes on the floor).

BUZZ OFF, XON

Then there are the XON/XOFF (control-Q/control-S) codes sometimes used to control the scrolling/freezing of continuous text display. It is very common to find that a micro uses XON/XOFF to control scrolling, but major text editors use those control codes for entirely different functions, since they are comfty, single-hand finger combinations.

Many of these new 132-column terminals have a "freeze" key. Pressed once, it sends an XOFF to the computer; pressed again, it sends an XON. That's delightful! However, if the use of this key is enabled, then these terminals pay attention to all occurrences of the XON and XOFF codes, even if they come from control-Q and control-S. Thus, either the user must avoid using this key, or must avoid using control-Q and -S in any program. Trying to use both can make a shambles out of an otherwise usable system.

E.g., our system uses XON/XOFF to control scrolling when in the monitor. However, its text editor uses control-Q to toggle insert mode and control-S to center the text ('S for 'Sentier') ... and totally confuses the terminal as to the appropriate state of a display freeze.

Such mismatches are not atypical. (continued on page 10)

 Silicon Valley Gazette
 July 1982 Page 7
The ‘Us’ Festival will be held Sept. 3-5, Labor Day weekend, at Glen Helen Regional Park in San Bernardino County, Ca.

‘Us’ Festival Will Bring Jobs, Park Improvements to San Bernardino County

More jobs and improvements to Glen Helen Regional Park are some of the benefits San Bernardino residents will reap from the ‘Us’ Festival, say organizers. Their willingness to work with Festival planners, they add, is a good example of the ‘Us’ concept in action.

More than 2600 jobs will be created while the Festival site is developed and close to one million dollars will be spent to turn Glen Helen’s meadow-like bowl into the world’s largest natural amphitheatre.

An additional two million dollars is being spent to ready the park for an estimated 250,000 Festival participants. Additional permanent improvements will include provisions for overflow parking and upgrading of the existing irrigation and electrical systems in the park.

“In addition to the impact on the local labor and construction industry, concessions will be offered to community organizations to help raise funds for local benefits. The ‘Us’ spirit has really been exemplified by the citizens of San Bernardino County,” according to Peter Ellis, president of UNUSON.

“These leaders have come together from all aspects of the community — government, business and neighborhoods — to make the ‘Us’ Festival a success,” he said. “And in doing so, we’ve all seen once again how by approaching a project and asking ‘what’s in it for us?’ we can all enjoy the benefits of our labor and the excitement of seeing the power of ‘Us’ in action.”

‘Us’ Network To Broadcast Festival

When a quarter of a million people converge on Glen Helen Regional Park in San Bernardino County, Ca. this Labor Day weekend for the ‘Us’ Festival, they will be joined by millions of others who will watch the Festival through the ‘Us’ Network.

UNUSON will use the network to broadcast the Festival live to select college campuses, theaters and homes throughout the nation, according to Steve Wozniak, UNUSON chairman and co-founder of Apple Computers.

“The broadcast will be an explosive example of the power of today’s technology in the communications process,” says Wozniak. “Ideas and activities — like the festival — can be shared immediately.”

Geographic areas and institutions to be included will be announced as the Festival draws nearer.

High Technology Group Endorses Trade Liberalization Bill

The Computer and Business Equipment Manufacturers Association has endorsed a bill that urges the President to negotiate a reduction of trade barriers and lower tariffs on high technology products in return for greater access to foreign markets.

The bill, passed by the Senate Finance Committee in June, requires the Administration to report to Congress annually on trade barriers and outline a strategy to eliminate them.

“The Finance Committee and the Reagan Administration have teamed up to produce meaningful legislation which will help the United States maintain and expand its worldwide leadership in high technology and services industries,” CBEMA President Vico E. Henriques said of the bill, S. 2094, known as the Reciprocal Trade and Investment Act of 1982.

The bill requires, for the first time, that the Administration in annual reports to Congress make a systematic enumeration of all foreign trade barriers and outline a strategy to eliminate them.

It also gives the President, for the first time, a specific legislative mandate to negotiate the reduction of trade barriers in investment and services. In addition, it permits the President to lower American tariffs on high technology products, such as computers, in return for greater access for such American products in foreign markets.

“By giving the U.S. Trade representative a negotiating mandate to remove barriers to trade in high technology, services and investment, this bill maintains the historic commitment of the U.S. government to a liberalized trade policy,” Henriques said.

CBEMA is the trade association of manufacturers of computers and business equipment. Its 40 members include such companies as Apple Computer, CDC, DEC, Hewlett-Packard, IBM, and other computer manufacturers. Member firms had a combined sales of more than $55 billion in 1981, representing some 80 percent of U.S. industry sales of these products.

Conference Proceedings of the 8th West Coast Computer Faire have a section on “Preschool Computing”.

Silicon Gulch Gazette

Page 8 July 1982
Sound You Can Feel, See — Sensonics Theater to Premiere at ‘Us’

Expanding, pulsating patterns of points merge to form rainbow mandalas that explode into rivers of golden light cascading through a dark starry sky. In the background, upwardly modulating sounds follow the flowing visual images. The physical senses relax, merging with the sensorium of light and sound.

Computer artists are creating living art that uses a new language, a language of images and sound that create an environment more vibrant and alive than everyday reality. Through the use of video and computer high technology, art is leaving the realm of recorded past experience to the world of the living present.

The Sensonics Theater, an unusual blend of high-tech light and sound creations, will premiere at the ‘Us’ Festival. The Theater, which holds up to 200 people, will be offering its 20 minute shows throughout the Festival.

Housed in a 60 foot diameter inflatable dome, the Sensonic Theater will be an impressive example of high-tech artistry. The Theater will use the structure as a parabolic reflector for eight channels of discrete sound, creating three dimensional sound and space. The visual content of the show will be projected by eight Aqua-Star high resolution video projectors onto the inside surface of the dome, as well as other projected lighting effects to either side of the video portion of the images.

Music and computer art by recording artist, Todd Rundgren, Ron Hayes, who won an Oscar for his special effects in the movie “Demonseed,” and Crystal, a group of professional musicians, will be featured. Infinity International, a group of multi-media specialists, will also contribute some material.

Speakers used in the Theater will include eight Bose 802 professional monitors for mid-range and high frequencies of sound. Low frequencies will be handled through four Bullfrog 18 inch Subwoofers.

Sound amplification will be supplied by four 2100-series Yamaha stereo power amplifiers, rated at 120 watts RMS per channel. Sound will be mixed by Tascam 30-series and a Tascam 35 eight-channel, reel-to-reel audio tape machine interfaced with Teac graphic equalizers and noise gates on each channel.

Four Aquastar video projectors will be used for viewing visual effects, as well as synchronized strobes and frequency-divided lighting and chasers by Nite-Lite systems. A 3/4 inch Sony video-cassette deck will reproduce recorded shows.

Four real-time digital computer graphics effects, a CompuPro S-100 microcomputer equipped with the new Cat 8000 graphics system will be used.
CompuPro Signs Agreements With Sorcim, Ashton-Tate

CompuPro has launched an applications software marketing program by signing licensing agreements covering commercial packages with Sorcim Corporation and Ashton-Tate.

The new marketing program represents a continuation of CompuPro's strategy to provide software support for its business microcomputer system configurations and floppy disk subsystems to an expanding dealer network, according to Mark Garetz, company general manager.

The Sorcim package covered by the licensing agreements is SuperCalc 86, an advanced spreadsheet simulator that enables users to generate reports, combine sections of separate spreadsheets, and create formatted printed reports under CP/M 86.

The Ashton-Tate agreement includes dBase II, a relational database management system that performs database and file handling operations automatically. Users can write their own programs while using screen handling facilities for setting up input and output forms.

Prior to launching the applications software marketing effort, CompuPro introduced MP/M 8-16, a proprietary implementation of the MP/M 86 operating system for its business systems. It permits existing 8-bit support or utility programs to supplement the creation of 16-bit applications. MP/M 8-16 can handle as many as eight concurrent CP/M 2.2 or CP/M 8-16-compatible packages in any combination, and allows 62 KB of user program space.

For more information, contact: CompuPro, Oakland Airport, CA 94614, (415)-562-0638.

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Low-cost Educational Computing
Computer Esoterica
The History of Computers & Computing

Intelligent Mass Communications
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July 1982
The decision to expand its business with the introduction of the Series 2000 multi-user business computer system for the OEM market was a natural progression for Zentec Corporation, according to its President Richard Calfee. Zentec, a supplier of intelligent terminals for the OEM and system integrator since its inception in 1973, announced plans to market a multi-user system with intelligent workstations.

“We think the move to production of a business computer—not just any business computer, but one that we call the 'UNPersonal computer'—was a natural direction for our business to follow,” he added.

The new Series 2000 system computers, with their capacitance this summer, will be able to market, multi-user, multi-tasking. Zentec will market to OEMs and system integrators this UNIX-optimized system that is expandable and configurable.

“The Series 2000 will compete directly against the personal computers that have been adapted for business use,” Calfee said. “Most personal computers use operating systems that are oriented for single-domain operation, therefore, they don’t offer the flexibility to expand with the demands of business applications.”

For more information, contact: Zentec Corp., 2400 Walsh Ave., Santa Clara, CA 95050, (408) 727-7662.

Rumors... (continued from page 6)

SORCIM’S SOMETHING

We just got a gossipy scoop on Sorcim for a minute or two. You may know of Sorcim as the creator of SuperCalc. Do you have the better spreadsheets under CP/M? This Santa Clara mob is not merely sitting idly on their software however. They have recently released SuperCalc-86—a souped up version that runs on 8086’s and 8088’s (that’s spelled ‘IBM PC, you-a-lot.)

Very shortly, they will release a plot package to accompany SuperCalc that will include the ability to plot on a CRT (or previewing), a dot matrix, a daisywheel or even on a plotter. Equally soon, expect a data exchange that will allow SuperCalc to transfer to and from other file types in several formats including an ASCII comma file.

However, they do much more. They are about to offer SuperWriter, a text editor that reportedly has a very nice user interface. Also, it will interact with ISA’s SpellGuard— one of the better IBM’d spelling programs on the market.

Scoop: Sorcim just completed the purchase of ISA. Yes, Sorcim’s SuperWriter will, indeed, work with SpellGuard.

They also have had an 8080-to-8086 translator—Trans-86—operational for over a year and have a whole batch of macro cross-assemblers, e.g. for 8080, Z80, 6502, 6800, etc. At the moment, these produce absolute code, but they are working on mapping them into the appropriate loader and linker formats.

Finally, they offer Pascal-M, an interpreter for full-blown Pascal.

Aside: Of the 50 or so staff now at Sorcim, about three quarters of them are technical types.

A SCIFI ART & COMPUTER GALLERY

Where else but in Silicon Valley would you find a guy who wants to set up an art gallery with a computer store? Will Stone, who has run the Fantasia and Science Fiction Art Gallery in San Francisco, and who functions as an art agent regularly for Omni, Science Digest, Discover, etc., has decided he wants to include a computer store—the more esoteric, the better—in his new gallery. He is looking for the innovative entrepreneur who would like to pursue such a venture; he already has the space at 560 Sutter, San Francisco CA 94102.

NOT A HOME COMPUTER

Have you heard about a hybrid? An MIT spinoff with facilities in Palo Alto, they are making a Liap machine. This is sort of a Lambugini of personal computers—only for $75K or so, you can have a new one.

On the other hand, they have already sold a batch of them. Customers reportedly include Atari to give Alan Kay, the sough yachtsman, his own video game machine. Hewlett-Packard supplies, (see, an idea thought Hewlett-Packard only spoke Basic), SRI International (long known for artificial intelligence research), and Fairchild’s recently invented AI Lab.

H-P’s LATEST

While we’re mentioning H-P, we should mention that they have just announced their newest personal computer, the HP-46. They also beefed up the ‘old’ HP-87, giving it more memory.

The minimal HP-86 is $5 less than $8100 (the first time H-P has broken the $2K barrier for a computer). It comes with 128K of RAM as standard.

The new HP-87XM comes with up to 640K of memory (’XM’ stands for extra memory), with 640 drawers and no keyboard to speak of. For some time, we have found that much memory usage is heard, MusicTutor provides the training necessary for a firm background in music fundamentals.

Note writer is Soundchaser’s real-time monophonic music transcription. It writes music as it played and prints it out on a graphic printer. Advanced editing features allow meter and key signature changes, additions, deletions, and transpositions.

The Soundchaser is versatile and expandable,” Kusek said. “You can take the entire system or add the software as you need. And since it is a software-dominated system, the initial value and versatility increases as software is added. It can be used to teach, to learn, to compose and to entertain.”

For more information, contact: Passport Designs, 785 Main Street, Half Moon Bay, CA 94019, (415)726-0280.

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Silicon Gutch Gazette

July 1982. Page 11
Digital Research Develops CP/M for National Semiconductor

Digital Research will develop and market a multi-tasking version of CP/M for National Semiconductor Corporation’s NS16016 16/32-bit microprocessor, announced John Rowley, Digital Research chief operating officer.

The NS16016 was selected by Digital Research because it is a microprocessor that supports the industry standard 8080 instruction set.

National’s NS16000 16-bit products have complete 32-bit internal architecture. The arithmetic logic units, all internal data paths and registers are 32-bit. In addition, the processors support demand-paged virtual memory implementation.

Online Database Directory

The number of online databases broke through the 1000 mark during the past quarter, according to Cuadra Associates, publisher of the “Directory of Online Databases.” The recently published directory describes 1133 databases available through more than 189 online services.

The “Directory of Online Databases” is published quarterly.

For more information, contact: Cuadra Associates, Inc., 2001 Wilshire Blvd. #305, Santa Monica, CA 90403. (213)829-9972.

CompuPro’s 8086/87 CPU Board Features Floating Point Chips

An 8086/8087 microprocessor board providing 16-bit capability with provisions for adding a mathematics coprocessor and operating system firmware has been introduced by CompuPro.

Compatible with IEEE 696/5-100 standards, CPU 86/87 is available in either 8- or 10-MHz microprocessor versions. Accommodating 8- or 16-bit words, its on-board logic can read or write two bytes serially for 8-bit applications, or pass word-wide values for 16-bit operation. As a result, users can mix 8-bit and 16-bit devices in the same system.

In addition, CompuPro’s new board accepts Intel’s 8087 math processor and 80130 operating system firmware. The math processor offers a high-speed number crunching capability, while the firmware adds an 8-level vectored interrupt controller, three interval timers, and a choice of silicon-based operating systems: the iRMX-86 kernel or CP/M.

The 86/87 CPU generates a full 24-bit address for its 16-Mbyte memory, and a power-on jump capability allows jumping to any 4K boundary in the lower 1-Mbyte address space. Also, a clock-switching circuit permits slave processors to share a bus with the board, thereby eliminating bus conflicts by running the slave and the master at different clock rates.

Available for immediate delivery, the CPU 86/87 board form CompuPro comes configured with microprocessor, a ROM-less version of the 80130, and a socket for 8087. Suggested retail price is $695 for the 5 MHz and $850 for the 10-MHz version.

For more information, contact: CompuPro, Oakland, CA. (415)562-0638.

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Mail to: Nuclear Weapons Freeze Campaign, 330 Jackson, 6th Floor, San Francisco, CA 94111

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Microcomputing: The Future

What’s in store for the microcomputing industry? “The Future” section of the 7th West Coast Computer Faire “Proceedings” describes new technological and marketing developments that could take place very soon in this volatile industry.

In “The Microcomputing Industry Today and Tomorrow” section, SYBEX Inc., Berkeley, CA, examines recent and projected developments in the microcomputer industry. His discussion zeroes in on hobby, personal, business, and software, as well as products and services.

David Ahl and David Lubar of “Creative Computing” discuss technological advances and computing fun in “The First Computer Video Game: A Glimpse Into the Future.” With the lowest cost, commercially available hardware system (around $3000) they have written a software framework for constructing adventure-type games using commercially available videogame systems.

Legal Protection for Software

Two 7th West Coast Computer Faire "Proceedings" papers address the issue of legal protection for software. As computer software becomes more complex, so do the controversies surrounding its protection. In this section, authors review options open to developers who want to defend their investment from pirates.

Attorney Daniel Remer’s “Legal Care of Software,” taken from his book of the same name (1982, Addison-Wesley), covers areas of the law which effect software publishers and developers.

He discusses such protection methods as trade secret, copyright, disk copy protection, and patent law, but warns that there is no comprehensive body of law to protect developers. Remer discusses how to choose and work with a lawyer. But, he advises, a computer’s best protection is knowledge, not an attorney.

"Even if you do decide to routinely use a lawyer, a basic knowledge of software law will help you make intelligent business decisions and will keep you from making costly legal mistakes," states Remer.

"The electronic game market is growing rapidly. Manufacturers are spending hundreds of thousands of dollars to develop new, exciting games for both the arcade and the home. Yet, as soon as a game hits the market, it is subject to piracy by an unscrupulous competitor," writes Michael Scott in "Electronic Game Pirates: The Scamble for Viable Protection.”

He discusses how manufacturers can guard their games; protecting the program; safeguarding electronics containing the program (normally a ROM – a read-only memory chip), and protecting the audiovisual display of the game itself. Court cases of interest are also discussed.

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Read "The Conference Proceedings of the West Coast Computer Faires." These seven volumes capture the exciting and enlightening presentations of Faire speakers. Learn about communication networks, computer art and music, speech synthesis, and system design. Read about three dimensional computer output, artificial intelligence, and computer esoterica.
New Optical Card Reader

Mountain Computer has announced an optical card reader for the personal and desk-top computer market. At $1,495, the MCI Model 1100A Intelligent Card Reader offers automatic card feeding with sophisticated features previously available only on much higher priced equipment. For example, the MCI Model 1100A can: read pencil marked and punched cards up to 14 inches in length; automatically feed 200 cards at a rate of two cards per second; distinguish marks from erasures; perform a diagnostic self-test; and much more.


CP/M Cross-Assembler

System 75, a CP/M cross-assembler for the NEC 7500 microprocessor, enables any CP/M system to serve as a development system for an NEC board. The software system features a macro- assembler, an interactive editor/assetor, a test editor, a cross-reference generator, and offloading facilities. The macro-assembler includes full macro and conditional assembly features as well as the ability to chain a series of source files together during a single assembly. The interactive editor/assetor is intended for the rapid creation, modification and test of program modules. The assemblers adhere to the assembly language defined by NEC and can be used for any member of the 7500 family although without specific instruction or operand range validation.

Programs developed under this system must be off-loaded to the target processor for test. Facilities are provided to allow the off-loading mechanism as a direct transfer from memory, via a byte stream over a CPU port, or via .COM or .HEX disk files.

System 75 is one of a series of cross assemblers which includes systems for the National COP4000, National 70-Series, Intel 8084, Intel 8080, Zilog Z8, RCA 1802, AMI S9000, Fairchild/Motex F8/3870, and Texas Instruments TMS7000 processors. The development systems share a common operational structure, with uniform procedures for program entry, modification, assembly, and disk file handling.

Individual development systems are available for $150 each on CP/M 8 inch soft sector (3740), 5 inch North Star, or 5 inch Micropolis Mod II (Lifeboat adaptation) diskette. The interactive editor/assetor of each system is available separately for $75 on TRS-80 Monitor or Mod III diskette.

'Softalk' Free to IBM PC owners

Softalk Publishing is offering a new monthly magazine, "Softalk for the IBM Personal Computer," free to owners of Personal Computers.

The first issue features an article on banking applications for the PC, a summary of PC bugs, a description of the network operating system, and an article on Software Arts, the company that designed VisiCalc. Monthly columns cover spreadsheet software, hardware, and system software. There is a special column for beginners.

Personal Computer owners can sign up for a free subscription by writing: Softalk Publishing, 11021 Magnolia Blvd. #A, North Hollywood, CA 91601.

Free Future Copies of the Silicon Gulch Gazette

Just send your name and mailing address to Computer Faire, 345 Swett Road, Woodside CA 94062.

Software Advances for Kurzweil Font Scanning System

Significant software advances for the Kurzweil Data Entry Machine (KDEM), which scans and converts digital code all of the 200-plus typestyles in common use, were announced recently by Kurzweil Computer Products, Menlo Park, CA 94025. The new software packages are now in use throughout the U.S. and Europe by corporations, government agencies, typesetters, and service bureaus, entering text or computer data bases, automated phototypesetting, and word processing media conversion.

For more information, contact: Kurzweil Computer Products, 185 Albany St., Cambridge, MA. (617) 864-4700.

Volkswriter Word Processor for IBM PC

Lifetree Software has created Volkswriter, a word processor designed specifically for the IBM Personal Computer.

"We waited until IBM got into the personal computer market to enter ourselves since we definitely made the right decision," said Camilo Wilson, president of Lifetree Software.

Volkswriter is self-teaching and since its files are written in 100 percent standard DOS format, Volkswriter is compatible with other IBM Personal Computer software such as VisiCalc.

Volkswriter is also a program editor. As a program development tool, Volkswriter can help programmers in Pascal, Assembler, Fortran, COBOL and BASIC.

Volkswriter is written in Pascal. An IBM Personal Computer with 64K memory, one disk drive and IBM DOS is required. For extensive writing, 128K memory is recommended. The software costs $195.

For more information, contact: Lifetree Software, Inc., 177 Webster St. #42, Monterey, CA 93940, (408)655-3221.

Not to be outdone, Sears offered our Mr. Computer a fall fashion gauge for our computeratti (no doubt). This was accompanied by a credit account application for "Faire Computer," again at 333 Sweet in Redwood City, proving, once again, that, with a computer one can make millions of mistakes per second.

We can hardly wait for the offer of low-cost baby-doll see-thru negligees. We plan to use them for our memory boards — so we can see the little bits that really count.

NO-BOMB MICROs

On July 10th, we attended the initial meeting of a assorted of folks interested in possible anti-nuclear, peace, anti-war, and pro-environment uses of computers — Earthlink, you might say.

The meeting covered a surprising number of ad hoc groups (real or imagined) with names ranging from Systems for Survival, and Computers for Consicience, to Eve’s Apple Computer, to Megahertz vs. Megatons, and No Nuke Network. Gathering in an Oakland, California, home, it drew about 40 computer pros and 'new movement' organizers.

Though there was a predominance of computer people, there were also representatives from a number of the organizations. The level of technical expertise ranged from some of the organization leaders who had a vague idea of what they were doing, vs. might be of some assistance in some way, to hackers with several decades of systems experience. It included Lee Felsenstein, perhaps best known as the designer of the Osborne I and prime mover (continued on page 15)
High Technology Report

Silicon Valley's high technology firms have a bright future, according to "Santa Clara County: Growth and Inexperienced" a new study just released by Wells Fargo Bank. According to the survey, American high technology and semiconductor industries will grow, surpass foreign competition, and increase sales in the years to come.

The report, outlined in a recent issue of "IEEE Spectrum," says that high technology markets world-wide will grow about 14 percent annually in the coming years and could reach $500 billion by 1988. Semiconductor sales should rise 18 percent annually during the same period, predicts the study.

"Although the semiconductor industry is now in recession, the longer term outlook is clearly one of continued sales growth," writes author Joseph Wahed in the study.

Wahed also discusses some of Santa Clara County's growth problems in the recent study. San Jose and Southern Santa Clara Counties can expect to capture some of the new businesses unable to locate in overcrowded Silicon Valley. But these areas will grow only if their governments enact land-use policies to accommodate industry and its employees.

"Perhaps the most crucial challenge facing the county will be housing," Wahed asserts. "Our analysis indicates that about 130,000 new households will be formed in Santa Clara County during the years to 1990, so that many new homes will be needed."

The report is free and may be obtained by writing: Paul Watson, Vice President, San Jose Regional Commercial Banking Center, P. O. Box 970, San Jose, CA 95108.

Survey of Industrial Robots

A Survey of Industrial Robots Second Edition," edited by Dr. John J. Allan, III, is designed for potential purchasers of industrial robots. It describes what robots do, how they work, different approaches used by various vendors and the effect of each feature on performance.

This report includes guidelines for integrating robots into current manufacturing operations. Topics covered range from the technical aspects of the hierarchical computer based manufacturing system, to insuring the robot's social acceptability with employees. Also discussed are applications, cost/ benefit analysis, basic capabilities, and new developments in artificial intelligence.

This publication is available from Leading Edge Publishing, Inc., P. O. Box 8100, 5622 Dyer St., #217, Dallas, TX 75205, (214)738-0340. The single copy price of $146 includes postage and handling.

New Cross-Hair Cursor Control Pad

Selanar Corporation, manufacturer of graphic enhancements for Digital Equipment Corporation, TeleVideo, and C. Itho alphanumeric terminals, has introduced a new multiple-function control pad for their cross-hair cursor compatible with Selanar's graphics products.

The new cross-hair cursor consists of a four by six inch pressure-sensitive keypad with eight directional arrow keys, six mode selection switches, and two user-definable function controls. The attached 35 inch cable connects the controls to the Selanar Graphics Boards through the terminal's rear cover, allowing the user to place the controls adjacent to the terminal's keyboard.

The cross-hair cursor is operational in the Tektronix Emulation Mode of Selanar Graphics and will respond to normal Plot 10 commands. It also can be utilized in the Native Graphics Mode that is standard on all of Selanar's graphics enhancements.

The cross-hair cursor has been designed for compatibility with Selanar's graphics enhancements for the VT100 series terminals, the TeleVideo 950, the TeleVideo 925, and the CIFT-101. The user must specify which graphics product will be interfaced to the cross-hair cursor. It is priced at $250. For more information, contact: Selanar Corporation, 437 A. Aido Ave, Santa Clara, CA 95050, (408)727-3811.

Rumors... (continued from page 14)

behind the Community Memory Project, and Joel Yudken, an ex-Lockheed engineer heavily involved in the Midpeninsula Conversation Project, working out of Bay area industry from military to non-military production.

Over half of the meeting was spent in the eminently useful function of simply introducing participants to each other and outlining who was doing what. The latter part of the gathering was spent predominantily brainstorming possible uses, and then discussing desired features of such computer systems.

Several of the meeting's organizers are behind the forerunner of Gary Kildall's PLlM). A few of the meeting's objectives are:

1. To produce excellent products, simply because that is the path to most sales and greatest profits.

2. To use tools and techniques that are the forerunners of Gary Kildall's PLlM. A,B,C... (sez we with provincial arrogance).

3. To become part of the West Coast Computer Faire's continuing success. The 7th Faire, held this March, drew 36,500 attendees to see over 450 exhibitors.

The West Coast Computer Faire is an internationally known convention - the place to see state of the art microcomputing. Promotion includes distribution of 300,000-400,000 copies of our newspapers, the Silicon Gulch Gazette and Inexperienced Business Computing, leaflets, posters and extensive radio advertising.

For more information, write or call: Sarah Candelario, Exhibit Coordinator, 345 Sweet Road, Woodside 94062, (415) 851-7097.

Silicon Gulch Gazette
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This coming Labor Day Weekend, September 3rd, 4th and 5th, 1982, Glen Helen Regional Park's meadow-like bowl nestled amid the scenic foothills of the majestic San Bernardino Mountains will be transformed into one of the world's largest natural amphitheaters.

For three days, a quarter of a million people will meander through colorful tents filled with state-of-the-art technology and rock to the sounds of groups like The Police, Tom Petty, Fleetwood Mac, Pat Benatar, Talking Heads, The B-52s, and Santana just to mention a few.

This could well be the last time such an awesome lineup of musical talent will be seen together in the same place.

This time, be part of it!

Tickets, priced at $37.50, are good for all three days. Tickets may be purchased through Ticketron.