



NewsLetter

Sept/Oct 1988

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All the News that Fits. We Print

Sam'l Bassett, Editor-in-Chief

William D. Smith, Associate Editor

Orphan Software Project

by Beverley Henderson

Something called a "SOFTWARE INFORMATION REQUEST FORM" (SIRF) has begun to appear in the USUS world. I would like to tell you something about why we are asking you for information about your UCSD operating system programs.

Five years ago, when I wanted to buy a word processor, I read so many reviews and ads that I almost decided I didn't want to buy a word processor after all. But, I bought one. And my original information about it came from a published list of Pascal based programs in the USUS newsletter. It was also listed in one of the first Apple "Blue Books", but that listing did not say it was a Pascal program.

That list of available software saved me hundreds of hours of data reentry by showing me a good product that could use, without modification, all the files I had created using the Apple Pascal Editor -- a useable word processor in its own right, but without the bells and whistles that had become common on micro computer word processors by 1983.

The program I bought was "PowerText". Sold by Beaman-Porter of New York, it was based on the same Apple System Editor that I knew so well already. But many features were added to the editor itself, and, of course, to the printing sections.

For three years I used this program extensively, even writing a small book on it. But after one revision, the company has abandoned the program. While they may not say so, that is in fact what they have done. Two years ago I called to ask if any updates were planned, especially some to allow the use of extended memory cards and 3.5 inch disks. I was assured that revisions

were in process, but "he just needs to recompile the program". Well, guess what?

It is the familiarity of this story -- the fact that it has happened again and again to so many people, that is the reason for the SIRF. It is hoped that we can use the results of the survey to build another list of available P system programs. It is also hoped that USUS resources in system expertise and user experimentation will allow the "resurrection" of some of the programs that have been abandoned by commercial enterprises.

I prefer "PowerText" to the word processor I have been forced to use in order to take advantage of the many features brought into the field in recent years. In order to keep up with the expectations of my clients and editors, I have to have what they feel a computerized business should deliver. This is not possible with unsupported, unupdated software.

There must be many programs and people in this situation. If we can find out who and what they are, perhaps there is some potential for assistance. It is possible that USUS can obtain code for some of these programs and offer revisions through the organization. It is possible that the various companies could be persuaded by a show of interest to service their own programs.

Either way, we, the users, win. So let's give it a try. Send in the information about your programs and we'll see what can be done about a listing and, hopefully, about some updates. If no other benefit is derived, at least we should be able to put members using the same programs in touch with one another for help in problems and to share tricks of use. So please fill out the form at the end of this NewsLetter and return it.

IF YOU PHOTOCOPY THE FORM, YOU CAN FOLD IT (OR SEVERAL TOGETHER) IN THIRDS, TAPE, STAMP AND ADDRESS THE REVERSE SIDE, AND SAVE YOURSELF AN ENVELOPE.

Return written replies to: Beverley Henderson, P. O. Box 1389, El Granada, CA 94044 or call (415) 355-0383 (there is an answering machine if you miss me). If you prefer to use electronic mail, send your message to Alex Kleider 71515,447 on CompuServe.

Administrator's Speaks

by Hays Busch

One interesting statistic I forgot to include in the August column was a listing of how long our current members have been members of USUS. So here's that information:

MEMBER SINCE		
Year - number		
1980 - 27,	1981 - 31,	1982 - 26
1983 - 74,	1984 - 81,	1985 - 76
1986 - 74,	1987 - 88,	1988 - 37

The first date of original membership given is July, 1980. I am not sure that these records are totally correct, but they are indicative.

If you go by membership numbers, USUS has had over 4,300 members since the start. Somewhere along the line, we have lost track of about 600 members who have moved without forwarding addresses or asked to be taken out of the database.

I mentioned last month that 39 of our active members did not indicate what computer they use MOST with UCSD Pascal. Since renewal notices are now in the mail, please be sure to fill in that section before you return the form. We use this information for Special Interest Group (SIG) mailings and to know what to send you if we want to get information to you on disk. There are a number of other things we plan to include in our membership database that will make it more helpful for all members. But, we will start this revision with the 1989 renewal cycle.

It's nice to know your column gets read! Juerg Scheideger sent a message on MUSUS asking for some additional information about USUS Members in West Germany and Switzerland

which I was able to send him. And that served to remind me that some of you International Members probably have interesting stories about how you use UCSD Pascal and on what machines you use it. We had a fine article from Robert Delfs, Bureau Chief of the Far Eastern Economic Review (Peking) in a recent issue. How about some of the rest of you sending in a brief outline for possible publication?

Any of you who might want to advertise in the NewsLetter should know it offers both Unclassified advertising at 30 cents per line (minimum 4 lines) and also display ads from one column 1 inch (\$2.50) to full pages (\$50.00). And according to Bob Griffin, the ads work. He ran an ad for his software program Le Plot in a recent issue and was satisfied with the results he got. I'll be happy to send you current rate sheets if you write. We also sell our active and expired membership mailing lists so if you're interested in that, let me know.

Finally, we still need volunteers to get started with New Member Development and USUS Publicity. Both are important jobs if we are going to build up USUS Membership. Just drop a note and I'll have someone contact you.

Board of Directors Minutes (July 26, 1988)

by Samuel B. Bassett

MINUTES OF THE SPECIAL MEETING OF THE BOARD OF DIRECTORS OF USUS, INC., HELD VIA THE TELECONFERENCING FACILITY OF COMPU SERVE INFORMATION SERVICE ON JULY 26TH, 1988.

Present at the beginning of the meeting were:
10:10:26 PM EDT Wednesday, July 26th, 1988

<u>User ID</u>	<u>Name</u>
71735,1776	Samuel Bassett, Chaircritter
73007,173	William D. Smith, Ass't SysOp
72747,3126	Robert Clark, Treasurer
70260,306	A. Hays Busch, Administrator
75226,3643	A. Robert Spitzer, Board Member

Joining the meeting at the indicated time was:

76456,416	Jon Nevins, Board Member
	10:30:10 PM EDT

Matters dealt with were:

William Smith reported that he had mailed the master copy of the latest NewsLetter to Hays today, consisting of 20 pages.

Bob Spitzer reported that he and Mark Abrams of Liaison, Inc., had been playing telephone tag, and expected to get together sometime in the next week or so to do some serious negotiating.

Hays reported that the reason the Weber Baker has not been heard from more often is twofold: His work has been especially demanding, and a close friend had a stroke, and Weber is taking care of him/her.

William is looking into the requirements for second class postage, but is discouraged by the multitude of forms -- as someone remarked in Section 8, the post office does everything they can to make it impossible to get or keep one of the things.

Bob Spitzer would like to publish the interface to Jai Gopal Singh Khalsa's CommSupport Unit and an explanation thereof in the NewsLetter, but William opined that long articles like that should wait until after the election; i.e. in the November 88 NewsLetter at the earliest.

Some discussion ensued on how publishing and supporting Jai's CommSupport Unit would impact the USUS Standard RemUnit, with no clear outcome, but a firm resolve not to abandon the RemUnit.

The issue of extending the length of Directors' terms was taken up at 10:45 PM EDT, after Jon Nevins' arrival created a quorum of Directors for doing business.

There was an extended discussion, which, if anyone is really interested in seeing it, the Chaircritter offers to provide a verbatim transcript. After deciding that extending Directors' terms was a good idea, the thrust of the discussion was to determine who would get two-year terms, and who one-year terms in the next election.

It was generally agreed that USUS needs new blood, both in the Directors' seats and in Officer and Staff positions. It was suggested that the nominating committee make the decision, but the suggestion was squelched by the Chaircritter

ruling that the Board had to take the responsibility and the blame.

It was suggested that it be left to the new Board. This received at first an underwhelming response, as did several other motions, but was ultimately agreed to in principle.

After going around in circles trying to decide whether to decide when to decide who would get what terms, the Chaircritter introduced a motion:

- 1) That the five persons receiving the highest number of votes in the upcoming election be elected to the Board of Directors of USUS, Inc.
- 2) That any of the Directors so elected may opt for one-year terms.

The motion was seconded by Bob Spitzer, with the following amendments:

- 1a) That a minimum of two and a maximum of three Directors should serve one-year terms, to assure that the staggering goes into effect;
- 2a) If less than two of the newly-elected Directors volunteer to take one-year terms, then the person(s) with the longest prior service as Director(s) be required to take the one-year terms, to assure that new blood is infused into the Board.

Loud cheers were heard (typed), and the motion was passed unanimously by vote of all of the Directors present and the Officers concurring.

Immediately thereafter, at 10 minutes before midnight EDT, the Chaircritter made another motion:

That the Amendment to the By-Laws of USUS, Inc., as posted in Library 8 of MUSUS, be approved; which posted amendment provides that Directors shall serve two-year terms, that the Directors elected in 1988 shall some serve one-year terms, and some serve two-year terms, and that, beginning with the 1989 election, all Directors shall serve alternating two-year terms.

The motion was seconded by Bob Spitzer, and passed by a unanimous vote of all Directors present and the Officers concurring.

The Special Meeting of the Board on CompuServe was adjourned at 11:59:59 PM EDT Tuesday, July 26, 1988, with agreement to resume on Tuesday, August 9th, 1988 at 7 PM PDT / 8 PM MDT / 9 PM CDT / 10 PM EDT.

Minutes submitted by:
Samuel B. Bassett

Due to unexpected problems, the August 9th meeting was canceled.

Apple SIG Doings by Frank Lawyer

Well, we made it to the third column, and you Apple SIGgers have started to come thru with material, just as I was running out of new ways to ask for more help. Thanks.

You will see elsewhere that I am running for the USUS Board of Directors. This does NOT mean any diminishment in Apple SIG activity. I am just hoping to bring some of your observations and concerns to the attention of the Board. This means that if I am elected, you have to continue to do your part to tell me your concerns.

RECORDS...

The record for the first request for a new welcome disk belongs to Earl Hart, and the record for the longest belongs to Abraham Chan of Hong Kong. I found that one in my mailbox rolled into a half circle. The floppy survived!

PRAISE...

Bart Thomas, author of the Guerrilla Guide which has been published in previous issues of USUS News and Report, and elsewhere, has donated some Apple oriented stuff to USUS. I have to dig through it and see what goodies are there, but the disk controller card and the disk drive are on their way to Hays. Bart is a former Apple SIG chair, and he has given me some good advice. Thanks much for everything Bart.

We received a copy of the SofTech Applications Catalog, Third Edition, December 1982, (long out of print) from Sam Bryan. Thanks Sam, this is going to be a big help in tracking down some of the products and vendors we are looking for. Maybe someone can tell me what the last edition was, and the date. Also, Sam has loaned us his copy, so I still need a keeper.

David Craig has contributed some Lisa disks with Pascal programs on them. I have to dig into those, and will report later. If anyone else owns a Lisa, PLEASE let me know.

BULLETIN...

We got out a bulletin to the Mac members in late August. This was similar to the bulletin I sent to Apple members in July, and contained my plans and visions for the Mac segment of the Apple SIG. When I get some feedback from the Mac people, we can start to address their needs.

LIBRARY DISKS..

Library disk APP2I02 is announced as ready as of 09/01/88. The catalog for that disk should appear elsewhere in this issue, our esteemed Editor willing. (*It follows the SIG columns.*)

One thing I forgot to say in the last column, was that all orders for Library disks should go to USUS Inc., Library Disk Orders, PO Box 1148, La Jolla CA 92038. That way Hays Busch coordinates them and the distributors mail them direct to you. I can handle the requests for welcome disks or welcome disk exchanges directly, but send your regular library orders there. Please use the order form on the welcome disk and print it out if you have it, because it has the new volume names. Make your checks payable to USUS Inc.

I'll repeat another thing which may have been confusing. The new Apple specific volumes are standard Apple 280 block volumes. Orders for these volumes will be filled on "flippies", one volume on each side. So order these volumes in pairs, and one 280 block volume will be copied to each side. The pricing is \$6 per flippy = USUS volume = 560 blocks = 2 Apple volumes.

Incidentally, the file listings as they appear in the NewsLetter have a short description of each file. If you want more information about the description of the programs, send me a business size stamped (25¢) self-addressed envelope and I'll send you back more detailed explanations.

RENEWALS...

Hays Busch is hard at work sending out renewal forms and notices to everybody on his list. I urge you to renew, because I think we are going to be able to accomplish quite a bit in the next

year on the library disks and new software. There are several projects "in the pipeline" of Apple specific new software, as well as what we can convert from the archive disks.

The Apple SIG has been taking the lead in several areas, and I even hear that some renewals have been switching to marking Apple as their machine when they used to indicate other hardware. Maybe that's not a bad idea if you have access to an Apple, since you will get the Apple welcome disk, and you won't get any less from USUS.

BARGAIN...

I have an extra copy of "The UCSD Pascal Handbook" by Clark and Koehler. This is the description (from the Apple welcome disk):

UCSD Pascal Handbook. A Reference and Guidebook for Programmers. Randy Clark and Stephen Koehler. Published by Prentice-Hall Inc. Englewood Cliffs NJ. 1982. 355 pages.

A good guide to the UCSD Pascal System. A complete description and reference for the language, with examples. Although instructive, it is not a tutorial. Does not reference other parts of the p-System. Has a decent bibliography, and the familiar syntax (railroad) diagrams. If you have this book you probably don't need the Jensen and Wirth book. Organized into two parts. The first part defines UCSD Pascal, and deals with data types, operations, syntax, procedures, functions, control statements, I/O, concurrency and compilation. The second part offers examples to illustrate concepts from part one. This book used to be supplied free by SofTech with copies of the p-System. Now available from Pecan for \$23.

Price will be \$8 including shipping to USA destination, to first request LETTER I receive. Sorry, no phone calls. Send the letter, no money, we'll do that later. I will contribute the proceeds to USUS. (*Otherwise this ad would not appear in this column*)

HELP!...

Looking for help... We got a volunteer to do a product review for Apple Pascal v1.3, so you will be seeing that in a few months. My idea

with the product reviews is to do a somewhat detailed review which will go on an information disk. Then a shortened version for the NewsLetter. The file on disk will stay around, and we'll be able to find it a year from now.

Of course, we still need some reviewers for old disk volumes. Write or call me. I have some procedures worked out that will help you, and you don't need to be a Pascal wizard.

Beverly Henderson has a fill-in form elsewhere in this issue. For those of you who have information relating to "orphan software", please photocopy this form and fill in the information for the p-System software you use. Some of you have already sent in information, and we thank you.

LETTERS...

Received an interesting letter from Keith Bernstein along with his request for a welcome disk. Keith is looking for an old animation package which worked with Apple Pascal. It was called "Pascal Animation Tools", and he thinks it was used to prepare the "Apple Presents.." disks for the 2e and the 2c. I checked my 2e disks, and sure enough, those presentation programs and graphics screens are Pascal. If anyone knows anything about this, please let me know and I'll share it here.

I am on the track of a graphics editor and some routines to change fonts for Apple high-res display. This may help Keith too. More next time.

Peter Goodman wrote from South Africa, and says his support lines are dwindling because Apple has pulled out of the country. He is also looking for a graphics editor and programs. He would also like to get a Pascal based spreadsheet. Peter had some questions.

Question: I would like information on the differences between the several Apple Pascal versions. Where can I find it?

Answer: The answer to where to get information like this is the Apple welcome disk, and/or the Apple information disks. The welcome disk has a complete listing of all the Apple Pascal systems, the manuals that were included with them, and a brief description of the differences between

versions. I have lists of bugs which were fixed, and lists of known bugs by versions (not v1.3), which I would add to the information disks if anyone wants them. Of course, if you happen to have old copies of magazines from 1979-1985, you could find this information in those.

Question: Since you have selected v1.3 of Apple Pascal as the "standard" version, will I have to buy it? How much is it, and where can I get it?

Answer: No, you probably won't have to buy it. The library disks are supplied with BOTH source (TEXT) files and executable code (CODE) files. I am doing regression testing under v1.1 and v1.2 to make sure the programs run, and so far, no problem. In any case, you could compile the TEXT files with your older version if you did encounter a program with a glitch. You can buy v1.3 from APDA for \$75.00, but it costs \$20 to be a member. (See welcome disk for complete details).

We also had some questions from others:

Question: I only have one disk drive for my Apple, can I run the library programs?

Answer: Sure. Just X(ecute the CODE file on the disk. I know it is BARELY possible to construct a single drive system to compile small programs in v1.1 or v1.2, but things are bigger in v1.3, so I think you would need a 2nd drive or a RamDisk: to do the job properly. While the Apple manual doesn't come right out and say you NEED two drives, they strongly recommend two.

PRODUCT REVIEW...

Away back in the dark ages of 1981, a company named Quality Software came out with a book called "Beneath Apple DOS" which explained all about the Apple Operating System, disk formatting, VTOC patching and other arcane arts. It became almost an instant hit in the Apple world. Some of us used the assembly routines in that book as the basis of programs to dump and patch disks, but productivity wasn't so good in assembly code, and the "all American disk patch" had to wait for other things. That was my first experience with this company. A little later they came out with "Bag of Tricks", a set of software programs that implemented all the patching, zapping and recovery that most humans could

want. It even included ways to convert files from Apple DOS to Pascal and to CP/M. Maybe it was a little cumbersome to do it, but it worked!

I can remember the day that the first ad for Universal File Conversion (UFC) came out, because I called and ordered it on the spot. I figured if it did half of what it promised, it was a bargain. When I used it, I found it did all of what it claimed.

Beverly Henderson's comments on UFC follow:

This is in praise of a program that worked literal miracles for me. In my box of "someday I have to do something with these" disks, I had several thousand words of text files written under the Apple Pascal Editor that I was dreading having to reenter into my new word processor: ProDOS based "Word Perfect".

In fact, of course, they were never going to get retyped and all that work was going to waste. Then, I don't remember just how, I learned of something called "Universal File Conversion" that was supposed to "convert files from one operating system to another for the Apple II family of computers". Oh yeah?

When I called the vendor, Quality Software, I was told the description claimed to convert DOS 3.3, ProDOS/SOS, CP/M and Pascal into each other. Any type of file was convertible except directory or bad block files. CP/M files can be created by conversion without a CP/M card on board. In other words, as the manual says in the introduction, you can move "WordStar" files into "Apple Writer" (or vice versa) or read a Pascal file with "AppleSoft" (or vice versa).

Since the potential was so enticing and the price so reasonable (\$39.54 including tax and shipping), I ordered a copy.

I have only used it to transfer Pascal files into ProDOS, but it did so without a hitch over many files and I now have all that work in my current word processor without any reentry. The files required some editing for commands. For instance, the paragraphing needed to be restructured, but this was done very quickly with the search and replace feature in "Word Perfect."

Since USUS has many people using these various operating systems and also has frequent need for different machines to "talk" to each other, I recommend this program to enhance communication potential. It would seem to mean that each author could generate four forms of any communication, making it readily available to a much larger number of potential recipients. This is no doubt a bit of pipe dream, but might be close enough to help.

Written by Gary Charpentier, the program requires 64K, two disk drives recommended but only one required (5.25 inch, standard Apple II formatting only) and runs on Apple II, II+, IIc or IIe. It is not copy protected and is available from Quality Software, Computer Book Division, 21601 Marilla Street, Chatsworth CA (818) 709-1721.

FINALLY...

Several people have code and articles in progress, so we should have enough material to keep going for another month or two anyway. I'm pleased by your reception so far, so I'm willing to keep pounding the keys, but don't stop all that good effort.

Frank Lawyer, 126 Demott Lane, Somerset, NJ 08873; (201) 828-3616

TI SIG News

by Ken Hamai

Hello, let me introduce myself, I'm Ken Hamai, your current TI librarian and recently roped into SIG coordinator. I've been using my TI since September 1983, one month prior to the TI pullout. I live in Whittier, California, which is about 10 miles north of Disneyland. Whittier was recently in the news for its earthquakes. Prior to that it was the former home of President Richard Nixon. That's enough of that!

I am currently a member of several TI Users Groups, these are the Ottawa, Aloha, Brea, and Orange County user groups. I try to stay away from my computer as much as possible otherwise I'd get nothing else done. My wife, Karen, and my son Mike, say it's not working.

Since January, the TI membership has been growing at the rate of about 2 new members a

month. We have also been getting more and more information from some of the real hotshots in using the TI implementation of Pascal and would like to pass this information to you in this issue.

If you have any news, programs, tips, or questions, please send them to me at my address or via USUS and I will be glad to include them in the next newsletter.

PASCAL FOR THE GENEVE

Recently, there have been several membership applications and letters regarding the use of Pascal V-4.22 with the Geneve. Our administrator, Hays Busch has been following up on this development and has the following to report.

Jack Riley of Myarc reported to Hays that they will supply the Pascal runtime programming to all registered Geneve owners. In addition, a version of RemTalk will also be issued to enable the Geneve to download Pascal programs from another computer that was hardwired to it through the RS232 port. The holdup according to Riley was that Myarc was waiting for the Pascal runtime to be delivered to them from Pecan Software Systems, Inc.. Not giving up at this point, Hays contacted Eli Willner, of Pecan, who informed him that the Geneve would be able to run the Power System version IV.22 Pascal, BUT, that Pecan was NOT developing the runtime software. This runtime software was being ported over by someone else. Willner implied that this would be the Geneve people at Myarc.

I have also heard from another source that since then, the ball is back at Pecan and it is indeed they who will be developing the runtime. This leads up to the question, Now what? Drop back 10 and punt!

A little information for Geneve owners who have never used UCSD Pascal on the TI. The Pascal runtime will allow you to execute compiled p-code programs. It does not allow you to edit, list, write, catalog, or compile programs. These things are all done by the Editor, Filer, and Utilities programs which were supplied for the 99/4a. Once you have the runtime, these 99/4a programs may run on the Geneve but this is for

V-4.0 and the programs were configured for the limited memory of the 4a. This means your disk drives will get lots of exercise and you may run out of memory after 28k is used up.

Assuming you get your runtime, the other alternative to running 4a software is to purchase the Power Systems software from Pecan. They have a toll-free order hotline at 1-800-63-PECAN. Call them and ask for a price list.

Regarding the program RemTalk. This is currently in the USUS library in Volume 15. It can be used to transfer programs between computers but the computers must be hardwired together and both must be running RemTalk. That means both computers must be able to run Pascal too. This program is useful only if you also have another brand of computer besides the TI that is running p-System programs. The program being transferred from the other computer must be in text file format.

If you only wanted to run p-System programs that were written and compiled on the 4a, all you would need to do is stick in the disk, boot up your runtime and execute the 4a program. If however, the 4a program uses sprites, graphics, sound, colors, speech, or assembly language calls, it is almost certain that it will not work on the Geneve.

USUS LIBRARY PROGRAMS

We have had several members who have volunteered their programming skills and time to work on getting programs in the library to run on the TI. So far several have been found to work with only minor glitches in the programs. This effort will continue as long as there continues to be people who are interested in volunteering their time and efforts in this project. If any of you out there are interested in helping out, send me a note via USUS and I will get back to you.

I will be making up a listing of programs which we have found to operate satisfactorily and include them in future issues of this SIG newsletter.

So far, we have found that about half of the programs on Volume 1 and Volume 6 are specific to CP/M machines with direct calls to the CPU or assembly language programs. These will not run

on the TI. Some combining may be in order to purge the CP/M specific programs from the TI library volumes.

PUBLIC DOMAIN/SHAREWARE

Several individuals and TI User Groups have programs and library disks containing Pascal programs. Ones that I have been able to verify are listed below. Please be aware that this listing only consists of sources that I have been able to verify myself. If you know of any other sources, please let me know. Where the listing indicates that the programs are Shareware, it is customary that you send at least a \$10.00 donation to the author if you like the program. I would suggest that you write to each source to find out how they want to handle the mailing and disk costs before placing your order.

Shareware -- Ron Williams, 14 East Street, Avon, MA 02322. Several disks containing programming for transferring text files between TI-Writer and Pascal. Also a disk cataloger which allows printing disk catalogs in various formats. Will read both TI and Pascal catalogs. Runs in Pascal. Several other programs may be included with disk.

Shareware -- Jerry Coffey, (longtime USUS member) 9119 Tetterton Ave., Vienna, VA 23455. Developed method for putting standard TI headers and programming on Pascal disks. Upon booting up Pascal using a Myarc disk controller, system will be automatically configured to read disks in the 360K DSDD format. Several other programs may be included.

Shareware -- Andy Cooper, 121 Clearview Drive, Downingtown, PA 19335. Terminal Emulator Program (TEP). Does Xmodem transfers and runs in Pascal. This is currently the only one we know that works.

Boston Computer Society TI-99/4a User Group, One Center Plaza, Boston, MA 02108. Public domain software from Europe. Ask for library disks 95, 96, and 97. The cost is \$3.00 per disk plus shipping and handling. Well worth the money, the disks contain details of the inner workings of the p-code card and several programs with source code.

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USUS Board of Director Elections

Well the time is finally here for the USUS Board of Director elections. This section of the NewsLetter contains the biographies and campaign statements submitted by the candidates. Following this is the ballot which should be cut out (copies will not be counted) and mailed back with your votes. The deadline for mailing the ballots is **November 14th, 1988**.

At the July 26, 1988 meeting (see the minutes in this NewsLetter) of the USUS Board of Directors, the USUS by-laws were amended to have the Directors serve two-year terms. They were also amended so that some of the Directors (at least two and not more the three) would be elected each year on an alternating basis. This is the first year for two-year terms and as such, some of the Directors will serve one-year and some will serve two-years. Sam'l Bassett is the only one who states he is running for a one-year term. The other one or two persons who will be serving a one-year term will be decided by the newly elected Directors at their first meeting. If no other newly elected Director decides to volunteer to serve a one-year term, the Director who has been on the Board the longest will serve the one-year term. The year in brackets next to the candidate's name indicates that the candidate is an incumbent board member and has been on the board since that years elections.

Samuel B. Bassett [1986]

BIOGRAPHY

I am basically a technical writer, not a programmer. I got into the p-System when I realized (much to my disgust) that if I wanted to do anything interesting with FORTH, I would have to build a file system from scratch. Not being sufficiently clever or masochistic, I bought a Language Card for my Apple, and proceeded to learn Pascal (and use the p-System editors to do technical writing for clients). About 2 years later, I was inveigled into joining

USUS by a friend, and when I got a (300 baud) modem a few months later, MUSUS. I learned more Pascal by watching technical discussions there, and asking questions (which were always answered courteously and fairly) than by all my outside reading & studying. I was (and am) most impressed by the people of USUS, both in their "electronic" and "fleshly" aspects. My latest modem runs at 2400 baud, and I am trying to pay back the kindness of the people who helped me by making sure that newcomers are treated as well as I was.

CAMPAIGN STATEMENT

I am running for one of the ONE-YEAR terms on the Board. I have been on the Board since 1985, and in that time I have tried to steer away from controversies, and instead develop consensus. I feel that in one more year, USUS will be well on its way to being a healthy, productive organization, and that all of the new people we have brought aboard will have taken hold and will be doing a good job. Then I can relax, and my smart remarks won't get taken so seriously.

Henry E. Baumgarten

BIOGRAPHY

Henry E. Baumgarten is a Professor of Chemistry at the University of Nebraska-Lincoln, where he teaches a course on the uses of computers in chemical research (taught using mostly Apple IIe/IIGS's and Apple Pascal 1.3). He has been a member of USUS since its earliest days and a user of

UCSD Pascal since version 1.4. He now runs the latest versions of the p-System on five Apple IIe/IIGS's, an Amiga 2000, an IBM-AT clone, and two PDP-11/23's in his lab and both UCSD Pascal and Modula-2 on his Stride 440 at home. He has been a USUS library distributor for the past four years. His computer interests are interfacing, graphics, mathematical and

scientific calculations, and algorithms.

CAMPAIGN STATEMENT

If USUS is to survive, the size of the membership must be increased very substantially. New members will be attracted and retained only if they can be given a reasonable return on their investment of membership dues. The services currently provided members include: (1)

USUS Board of Director Elections

the NewsLetter, (2) Pascal and Modula-2 programs or routines available through the library volumes or on MUSUS, and (3) access to MUSUS for interactive exchanges of ideas or informal consultation on programming or operational problems. Both the new, short version of the NewsLetter and the operation of MUSUS are being handled very well at present and should be attractive

to both old and new members -- but will these be enough to draw and keep new members and can their present momentum be maintained? I believe that the library has been in the doldrums for several years now, and that it needs to be revitalized and made more attractive -- particularly to new or inexperienced members. Although I am interested in all of the activities of USUS, I am

especially interested in building and expanding the library. Having had quite a bit of administrative experience and, having run a successful chemistry equivalent of a user group, I believe that I can help USUS with most of its problems but especially those of the library.

Robert Clark

BIOGRAPHY

Bob Clark is the current USUS Treasurer. He has served in that capacity since 1985. Bob is owner of AC-CU-MET, a meteorological and microcomputer applications consultancy, located in Muscle Shoals, AL. During the years he served as a meteorologist in the U. S. Air Force, he attended Washington State University, the University of New Mexico, and the University of Arizona. In addition to his meteorological training, his academic degrees include a B.S. in Management

and a Master's degree in Business Administration (MBA) from the University of North Alabama.

Bob's experience with the p-System began in the U.S. Air Force. In recent years, as a consultant to the Tennessee Valley Authority, he assisted Dr. Jon Nevins in the development of the PowerTools program and was responsible for the PowerTools manual. As a user of Stride, Apple (//c, ///, Lisa, Macintosh) and MS-DOS (Compaq) machines, Bob finds that PowerTools blends Apple's implementation of UCSD Pascal and Pecan's Power

System into an easy-to-use development and communication network. Discontinued machines such as the Apple /// can now communicate easily with any machine capable of running PowerTools.

CAMPAIGN STATEMENT

Bob believes that USUS has "turned the corner" and wants to be involved in maintaining its recovery. His goals are to provide low-cost programs, such as PowerTools, together with other meaningful services to the membership.

Frank Lawyer

BIOGRAPHY

I am a data processing consultant, with 19 years experience in the field. I have been using the p-System for about 4 years now. I bought my first Apple in 1978, and have managed to accumulate a few more since then. I am currently chairman of the Apple SIG.

CAMPAIGN STATEMENT

Although I am new to USUS, only about 5 months so far, I have tried to work hard for the organization in that brief span. The Apple SIG has been re-started, and is moving forward nicely, with more of you participating each month. I am writing a monthly Apple SIG column for the NewsLetter, and other articles and letters also. I have contributed much time and

information to the Apple welcome disk which new members receive. I have done this so that USUS will have much to offer to members with Apple hardware interests. I would like the opportunity to bring my enthusiasm and ideas to the Board of Directors. I want to help make USUS a strong and growing organization.

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Jon Nevins [1985]

BIOGRAPHY

Jon Nevins has been a member of the Board since 1985 and has been using UCSD Pascal since 1981. Jon is an Ph.D. Economist with the Tennessee Valley Authority's National Fertilizer Development Center and is currently Program Manager of TVA's Form-U-Share® (FUS) educational products. FUS is a leastcost fertilizer mixing program that has been used by more than 1,000 fertilizer dealers and is a major tool for technology transfer by the National

Fertilizer Development Center. The portability of the p-System has made it possible for FUS to be supported not only on IBM-PC's (and clones) but also on Apple //, Apple ///, Macintosh, DEC Rainbow 100, TI- Pro, Stride, TRS-80, Atari ST, and Amiga. New additions to the FUS family include PowerTools, IOTC's PDBase, and the FUS development system. With the latter, certain modules can be customized by others for private use or resale (a potentially powerful example of technology transfer of

computer code using modular design).

CAMPAIGN STATEMENT

Jon believes that USUS can play a major role in helping new software developers design better, more portable code using UCSD Pascal and Modula-2 from Pecan as well as other vendors. (For example Turbo Pascal 5.0 is finally looking like a UCSD Pascal should.) We have room in USUS for all serious programers who want to improve their skills and contribute to the USUS community.

A. Robert Spitzer [1987]

BIOGRAPHY

Robert Spitzer, MD is on the faculty of Wayne State University with appointments in both Neurology and Electrical & Computer Engineering. He is a practising neurologist and clinical elctrophysiologist. His research includes signal analysis of signals originating from various parts of the human nervous system (EEG, EMG, EP). In addition, he studies computer models of information processing by the brain (neural networks), and has published articles in both medical and engineering journals on these subjects.

He has worked with the p-System for five years, on Sage, Stride, IBM and PDP-11 computers. Aside from UCSD Pascal, Dr. Spitzer has programmed in APL, FORTRAN, BASIC, and 8086/68000/PDP-11 assembly

languages. Most recently he has been developing a real-time data acquisition system in Modula-2. He has been a member of the USUS board of directors since 1987.

CAMPAIGN STATEMENT

Historically, USUS has been a p-System user's society. However, in order to better meet the needs of a wider group of members, I have been working toward expanding the scope of USUS to include other areas of interest. This has included support for Modula 2, a powerful language developed by Wirth to overcome some of the limitations of Pascal, and intended to be a relatively "portable" language. I have donated example code and useful routines to the libraries. Many members of USUS who have come up against limits of Pascal may find Modula helpful. I have also been working on promoting the

concepts of "portable, system independent code", in keeping with the USUS charter to support "concepts of machine independence". At this time, this work focuses on machine-independent standards for terminal, serial and graphics interfaces. I have worked to promote an improved serial communications standard developed predominantly by Jai Gopal Singh Khalsa. I have worked to improve the usefulness of USUS meetings by lecturing on various "more difficult" subjects such as concurrency at the annual meetings in recent years. I worked with Larry Wheeler to develop an improved support for the "machine independent" Kermit standard. I have provided support on MUSUS for Stride related problems having to do with low-level programming.

I intend to continue to broaden the scope of USUS to better

USUS Board of Director Elections

provide for the needs of members. This includes an increased emphasis on theoretical programming issues, and more support for scientific programming issues. I see my scientific interests as rounding out and balancing other board member's interests in other fields. I will continue to work toward bringing more code

examples into the hands of members, through the NewsLetter, MUSUS and the libraries; I believe this is one of the primary benefits members will appreciate. I have been working to establish a more formal and carefully delineated relationship with the primary vendors supporting p-System, by negotiating a contract with

the newly-formed Liaison company. This will result in better defined mechanisms for addressing p-System related problems for the single-user member who does not have a major commercial interest in the p-System.

Eliakim Willner [1984]

BIOGRAPHY

Eli Willner is Vice President and co-founder of Pecan Software Systems, Inc. He has been involved with the Power System professionally for almost ten years. His USUS service includes stints as Vice President, Member Services, Chairman of the USUS DEC SIG, Assistant SysOp of MUSUS, Chairman and member of the USUS board of directors.

CAMPAIGN STATEMENT

"I am proud of the new life that the Power System as a product line and USUS as an organization have been enjoying during the past year. It is especially gratifying for an active member of USUS in its heyday to watch the organization regaining its former glory. Just as gratifying is the knowledge that much of this new activity is due to the participation of new USUS

members, along with members of the old guard."

"As a member of the old guard, I'd like to work with our newer members in an effort to continue the growth of our organization. I can contribute a voice of experience and a bit of historical perspective, as well as playing an active role in the governing of USUS. Thus, I ask you to vote for me for another term as member, USUS board of directors. Thank you."

For your records:

___	Samuel B. Bassett
___	Henry E. Baumgarten
___	Robert Clark
___	Frank Lawyer
___	Jon Nevins
___	A. Robert Spitzer
___	Eliakim Willner
___	None of the Above

SAGE IV FOR SALE, 1 MB RAM, 2 floppy drives, 10 MB hard disk drive, or other possible configurations. Multi-user 68000 system, software, or more. Call Ray Weglein (301) 825-8278, Maryland.

USUS Board of Directors ballot for the 1988 elections.

You have a total of five votes. You may cast one vote for each of five candidates, five votes for one candidate, or any combination in between. If you cast more than five votes, this ballot will be invalidated. Write the number of votes on the line beside the candidate(s) of your choice. A mark (check mark, cross, etc.) or marks on a line will count as one vote for that candidate. Cut along the vertical bar on the left and fold so that the address on the opposite side of the page is facing outward. Tape (do not staple) closed. Affix the appropriate postage (25¢ stamp if mailed in the USA) and mail. The ballots must be postmarked by **November 14th, 1988** to be counted.

_____	Samuel B. Bassett
_____	Henry E. Baumgarten
_____	Robert Clark
_____	Frank Lawyer
_____	Jon Nevins
_____	A. Robert Spitzer
_____	Eliakim Willner
_____	None of the Above

Do not sign this ballot

Fold 1st

USUS
P.O. BOX 1148
LA JOLLA, CA 92038

Place
Stamp
Here

USUS
Attention: Administrator
2193 Montane Dr. East
Golden, CO 80401-9125

Fold 2nd

Tape (do not staple)

TI SIG News

(continued from page 8)

Brea Users Group, 11508 Mollyknoll Ave., Whittier, CA 90604. Ask for the MPASCAL disk. Contains source code and a compiled program which demos the use of sprites and concurrency. Also includes heavily documented source code and a compiled program for configuring your printer from Pascal. Send \$5.00 for disk. The Brea Users Group, has

recently formed a UCSD Pascal SIG, meeting on the fourth Monday of every month. Anyone interested in the TI implementation of Pascal is welcome to attend. Contact the Brea Users Group for details.

Ken Hamai, 11508 Mollyknoll Ave., Whittier, CA 90604; (213) 943-1194

Ken Hamai also sent in a program which will appear in the next NewsLetter

New Library Disk Directory

What follows is a listing of the directory of the newly released Apple disk. The disk was developed by the Apple SIG. See the Apple SIG Doings column in the August 88 NewsLetter for more information on the naming conventions.

APP2I02:

DU880816.TEXT

Directory list of first 12 Apple "archive" disks

SU880816.TEXT

Same directory listed sorted alphabetically by file name

VENDOR.TEXT

List of UCSD software vendors and products they sell

APSIG.04.TEXT

Apple SIG column which appeared in Sept 1988 Newsletter

APSIG.05.TEXT

Bulletin to Apple SIG members sent Sept-Dec 1988

COMAPP2I01.TEXT

Comments on the above files

DIRAPP2I01.TEXT

You're reading it

NOTE: There are no program files or code files on an Information Disk. The files all contain text of some sort, and can be printed out on your printer, or scanned with the Editor. In general, all new Apple SIG related articles, bulletins, Newsletter articles etc. will go on these disks. Also, some older files which appear on the Library disks will move here if they are still interesting or germane.

O & / | A? ...

If you are not on MUSUS, you can send any comments or answers to the questions in this column where there is only a CIS address with the name to the USUS La Jolla post office box, attention Newsletter Editor, and I will see that they are posted on MUSUS.

Garrick Cole (Box 1514, Manchester, MA 01944-0860) writes:

If you know anyone who might help me update my TICOM 4.13V SofTech p-System to current Pecan Version to run on a NEC APC, I'd appreciate hearing from them.

A book review by A. Robert Spitzer (CIS: 75226,3643):

"A Guide to Modula 2", Kaare Christian, Springer-Verlag 1986, ISBN# 0-387-96242-5 (New York).

This book is a thorough and comprehensive review of the Modula 2 language. It is not a programming text. It assumes fair knowledge of programming, particularly Pascal. Concepts are well explained and illustrated with code fragments. A few "complete modules" are provided, but generally the book is best followed by someone with some programming experience. Discussion of Modula II's powerful low-level features are included; examples here tend to be PDP-11 specific, but illustrative. The major advantage of this book is that its discussion of Modula is more comprehensible to mere mortals than N. Wirth's minimal and poorly cross-referenced text. It is a good book for someone who is outgrowing Pascal's limitations and wishing to migrate downward (*Bob explained in a later message that he used downward here to mean, able to get closer to the machine level*).

Hays Busch (our Administrator) was caught by a common subtlety of CIS forum software as the

next message shows (he also has not been the only one caught recently):

ARLEY:- Somehow I lost another message. It may be when you forward to me from another section. This one was from a member who wanted to change his address. I read it as a "flagged" message (*REAd WAIting*) when I first came on. Then I did a *REAd NEW* to copy all messages, including those flagged. Then I logged off, deleted the "flagged" messages from the disk with ASE, expecting them to come by again as a result of the *REAd NEW*. The others did, but this one didn't. And now its not on the forum when I do a *REAd REVerse*. Very strange! I think I did the same thing the last time I lost one?

Also, after logging off, having read all messages, I sometimes log back on and get the message, "You have one message waiting". The command *REAd NEW* at the forum prompt comes up with nothing. What am I doing wrong?

Arley Dealey (MUSUS Primary SysOp, CIS: 76703,532) explains:

You are not doing anything wrong, you're just being caught out by a subtlety of the forum software.

You are correct that it involves messages in sections for which your account is not enabled. If I (or anyone else) posts a message addressed to you in such a section, the message will still be flagged for you and you can still read (and reply to) it, BUT you can only do so with the "READ WAIting" or "read individual" (*REAd <message number>*) commands. The more common read commands (such as "REAd THRead" or "READ NEW") will not display such messages.

After you have read such a message, it is marked as being read and no longer flagged for you so the only way to read it in a subsequent session is by knowing its message number and using "read individual" or by asking one of the SysOps to go find it and re-forward it to you

Ken Gibbs (Willowood Drive, West Melbourne, FL 32901) asks:

"I do occasional programming, but primarily want to run a real word processor, a spreadsheet and a VT-100 emulator and communications package. I have only the original software I

purchased with my SAGE II and am still using a very old version of WORD-7 and the Timberline Spreadsheet that came with it. I expect I would have to update my system, etc. What can you tell me about this?"

Hays Busch sent him the following answer:

"Will publish your question in the next NewsLetter so all USUS members can suggest programs for your use. Right now, USUS uses the latest versions of WORD-7 for all its correspondence. It is much improved from the version you have. USUS uses Timberline Spreadsheet too, but you might try CALC-7 which is also from the WORD-7 folks. USUS PowerTools can solve some of your communications needs and do a lot more as well. I do not know about a VT-100 emulator. Also PDBS is a very good database program. USUS uses it for the Membership records. You probably should consider Power System version IV.2.2 as an update to (I think) IV.1.3 which came with your SAGE II."

Terry Carmen (CIS: 72345,1533) asks:

Does anybody know of a utility to export data from a P-System Volume? We're running State of The Art Accounting software. It runs under the UCSD P-System IV.12 runtime, and we would like to be able to export it to Dbase (FoxBase actually). In fact, I'd settle for any kind of export, since I can convert it once I get it into some kind of standard file format. If necessary I would even buy the development environment. Thanks for the help.

John Gosselink (CIS: 72740,71) thought he found a bug in ASE:

There seems to be a bug in the Apple II GS version of ASE. Anytime I am in a function (eg. Dnsert) and try to <escape> out it doesn't work. I have to <accept> to get out or stay in. I checked the ASE configuration table and it correctly lists the escape key as 27. It also works fine elsewhere in the system. Any ideas?

Eli Willner (CIS: 76703,500) suggested:

John, you probably have "prefixed editor escape key" set to true in your SYSTEM.MISCINFO. Try hitting escape twice. If that cures the problem, and you prefer a single escape, you'll

need to run SETUP to change the escape key prefixed value to false.

John replied with:

I tried your suggestion on hitting Esc twice. No go. All I get are question marks. I tried a backup of my ASE and the escape key works fine on it. Any ideas?

And later:

I finally figured out what the "bug" was in ASE. I had used the escape key as a prefix for a couple of command keys and so the editor was trapping it expecting another letter (*which completes the command*). Little mistakes give me the biggest problems (grin)!

John W. Butler (CIS: 72571,237) asks:

Why does "\$LOG" not work as advertised? When in ASE & "\$LOG" is on the first line and first column, "LOG entry? (y/n)" does not appear after typing U)update!

Eli Willner (CIS: 76703,500) answers:

John, Your "\$LOG" problem is due to a misunderstanding on what "\$LOG" is -- it's a marker, not actual text! Markers are arbitrarily named "place holders" that let you jump instantaneously to any point in a text file. Some markers (usually those beginning with \$) have special functions that cause the editor to take some automatic action, usually when beginning or ending an edit session.

You enter a marker using S(et M(arker and typing the marker name followed by <return>. Again, you will not see the marker in the text. S(et E(nvironment shows you a list of current markers.

Some questions from Matthew Snyder (CIS: 71450,2606):

I have both a Mac and an Apple IIe. I have an old version of Apple Pascal for my IIe, and I am wondering if I can generate p-code on my Mac and download it for execution on my IIe.

My questions are:

1) what p-Systems are available for the Mac (including Modula-2)?

2) is Apple Pascal compatible enough with Mac p-System to execute the same code?

3) if so, is there anything wrong with generating the code on the Mac in Modula-2, and executing it on the Apple IIe in the Pascal system?

4) is there an Apple Pascal kermit or xmodem program, in public domain or available commercially?

Frank Lawyer (CIS: 72401,1417) answers some of the questions:

Matt -- I'll tackle all of them, but I may need some help from Eli Willner on some.

1) p-Systems available for Mac. When the Mac first came out in 1984, SofTech MicroSystems (SMS), had 2 implementations. A regular p-System, which I have, which was, I believe version IV.1.3, and was compatible with the Apple2e version which was then at the same level from SMS. They also had a "Mac Advantage", which I believe was an interpreter, and was a learning tool. So far as I know, these were the first, or at least among the first, high level languages available for the Mac. Pecan bought SMS in 1984. Apple has never had a p-System implementation for the Mac. Today Pecan has (Eli will pick me up here if I err) Mac p-System version IV.2.2, which you can get with either Pascal or Modula as the language component. They also have a PDQ Pascal, which I believe is a limited feature p-System, but is a learner package. It can be traded up for the regular system.

2) Apple versions have all been based on UCSD version II, so even Apple v1.3, which is the latest, is based on that. Pecan currently markets UCSD version IV.1.3 for the Apple2e, but version IV.2.2 for the Apple2GS and up. Modula currently runs on the Apple2GS and up, but not on the Apple2e and down, where you would have to run Pascal as your language of choice. If you used a version IV.1.3 implementation on both the Mac and Apple2e, then I believe you could port the code. However, because Modula doesn't run on IV.1.3, it would have to be Pascal.

3) so, the way I see it, with the complications of versions and languages, you couldn't do what you want with Modula, but you could with Pascal. I believe that both directions would be

continued on page 21

A Program

The following program demonstrates a way of determining the volume and filename of the currently executing program . The way of determining the unit number was given on MUSUS by Eli Willner of PECAN. I used that idea and some knowledge of the p-System's internal data structures to get the name of the file that is currently executing (or the name of the file containing any active units or segments used by the program or operating system). Electronic source is available on MUSUS in Library 3 (as MYFILE.TXT) and on Volume #37 of the USUS Software library (as MYFILE.TEXT) when it becomes available. Note that any comments in italics below are not in the files on MUSUS or on the library volume.

The following header which appears in all of my files will be explained in an upcoming article. Also note that any comments in italics are not contained in the files on MUSUS or in the Software Library.

```
{ Test Get_MyFile procedure [1.02] --- 20 Aug 88 } { lxjm$dlnxlf8lel. }
{$Q+} { Turns off writing dots to the screen . This increases compilation speed about five percent. }
{$C (c) Use restricted to USUS members }
```

```
{ File: MyFile.Text Version 1.02 20 Aug 88
```

```
Author: William D. Smith Phone: (619) 941-4452
P.O. Box 1139 CIS: 73007,173
Vista, CA 92083
```

```
Notice: This is a donation to USUS. The information in this document may be used for
any purpose by USUS members. Please retain this header.
```

```
Keywords: PROGRAM UNIT SEGMENT FILENAME
```

```
Description: This program tests a procedure which returns the filename containing the
program/segment/unit code currently running. The filename is returned as
"#000:<filename>" so that the correct file can be found even when two volumes
of the same name are mounted.
```

I use these procedures to get the name of the file which contains the main program (for example "TEST.CODE"). This name is input to my help unit which changes the name to "TEST.HELP" and displays the help file. It can also be used to find other types of files such as ".MISCINFO" and ".DATA" files which are used by the program. This allows the user to name the files needed by a program (including the code file) what they want as long as all the files have the same prefix and the correct suffix.

```
Change log: (most recent first)
```

<u>Date</u>	<u>UserId</u>	<u>Version</u>	<u>Comment</u>
20 Aug 88	WDS	1.02	Fixed an error and added some comments.
07 Feb 88	WDS	1.01	Removed use of WDS units.
07 Feb 88	WDS	1.00	Finished writing.

```

{$R-} { No range checking }
{$I-} { No I/O checking }
program Test_Get_MyFile;
uses
  {$U Kernel.Code}
    Kernel (Alpha, E_Rec_P, UnitList),
  {$U Wild.Code} { Only used by interface }
    Wild, { of DirInfo unit }
  {$U DirInfo.Code}
    DirInfo;
const Version = '[1.02]'; { 20 Aug 88 }
var S : string;
    S1 : string;

procedure CapStr (var S : string);
{ This procedure returns the string S, with all
  caps. }
var I : integer;
begin
  for I := 1 to length (S) do begin
    if S [I] >= 'a' then
      if S [I] <= 'z' then
        S [I] := chr (ord (S [I]) - 32);
    end { for };
  end { CapStr };

procedure CrunchStr (var S : string);
{ This procedure returns the string S, with no
  blanks or underlines in it. }
var I, J : integer;
begin
  J := 0;
  for I := 1 to length (S) do
    if (S [I] <> ' ') and
      (S [I] <> '_') then begin
      J := J + 1;
      S [J] := S [I];
    end { if };
  S [0] := chr (J);
end { CrunchStr };

procedure Get_Unit (S : string;
                    var UnitS : string;
                    var Blk : integer);
{ This procedure returns the unit I/O number
  as a string and the starting block of the
  segment (or program or unit) named in S. }

```

```

label 2;
var P : E_Rec_P;
    I : integer;
    A : Alpha;
begin
  UnitS [0] := chr (0); { UnitS := ""; }
  { Change the segment name to be a system
  recognized segment name (ie. a packed array
  of 8 characters, type Alpha from Kernel) }
  I := sizeof (A);
  fillchar (A, sizeof (A), ' ');
  CrunchStr (S);
  CapStr (S);
  if I > length (S) then I := length (S);
  moveleft (S [1], A, I);

  { Now find the environment record that
  contains the info on this segment }
  { UnitList (from Kernel) points to a list of
  active units (code units, not I/O units) }
  P := UnitList;
  while P <> nil do begin
    if P^.EnvSib^.SegName = A then
      goto 2;
    P := P^.NextRec;
  end { while };
2:
  if P <> nil then { found }
    begin
      str (P^.EnvSib^.VolInfo^
          SegUnit, UnitS);
      UnitS := concat ('#', UnitS, ':');
      Blk := P^.EnvSib^.SegAddr;
    end { if };
  end { Get_Unit };

procedure D_Dispose (var Ptr : D_List_P;
                    All : boolean);
{ This procedure should be provided by the
  DirInfo unit! It disposes the list pointed to
  by Ptr. }
var P : D_List_P;
begin
  if All then
    begin
      while Ptr <> nil do begin
        P := Ptr^.D_NextEntry;
        dispose (Ptr);
        Ptr := P;
      end { while };
    end { if }
    else dispose (Ptr);
  end { D_Dispose };

```

```

function Get_File (S : string;
                   Blk : integer;
                   var Name : string) :
    boolean;
{ On input, S is a string of the form "#000:"
  and Blk is the starting block on the volume
  where the segment is to be found. This
  function returns true if a file is found that
  encompasses that block on the specified unit.
  If the function returns true, Name contains
  the filename. }
label 2, 3;
var P : D_List_P;
    Ptr : D_List_P;
begin
  Get_File := false;
  Name [0] := chr (0); { Name := ""; }
  S [0] := succ (S [0]);
  S [length (S)] := '=';
  if D_DirList (S, [D_Code, D_Data],
               Ptr, false) = D_Okay then
    begin
      P := Ptr;
      while P <> nil do begin
        with P^ do begin
          if (Blk >= D_Start) and
            (Blk < D_Start +
              D_Length) then
            goto 2
          else if Blk < D_Start then
            goto 3;
          end { with };
          P := P^.D_NextEntry;
        end { while };
      2:
      if P <> nil then
        begin
          Name := P^.D_Title;
          Get_File := true;
        end { if };
      3:
      D_Dispose (Ptr, true);
    end { if };
  end { Get_File };

```

```

procedure Get_MyFile (S : string;
                      var Name : string);
{ This procedure returns in Name the filename
  where the program/unit/segment with the
  name in S is found. }
var Blk : integer; UnitS : string;
begin
  Name [0] := chr (0); { Name := ""; }
  { Use the unit number in case two volumes
  have the same name }
  Get_Unit (S, UnitS, Blk);
  if length (UnitS) > 0 then
    if Get_File (UnitS, Blk, S) then
      Name := concat (UnitS, S);
    end { Get_MyFile };
begin { Test_Get_MyFile }
  S := 'Test_Get_MyFile';
  writeln;
  writeln (S, ' ', Version);
  writeln;
  repeat
    Get_MyFile (S, S1);
    write ("", S, " is ");
    if length (S1) > 0 then
      writeln ('in file ', S1)
    else
      writeln (' not active or not found');
    writeln;
    write (
      'Program/unit/segment name (<ret> quits)? '
    );
    readln (S);
    until length (S) = 0;
  end { $Q- Test_Get_MyFile }.
  { The $Q- turns on dot output to the screen in
  time for the compiler to write out the number of
  lines compiled and the time taken (if your
  computer has a clock). }

```



O & / I A? ...

(continued from page 17)

OK. If you are porting p-code from the Mac to the Apple2e, it is tempting to think the answer is

"yes", but from recent exchanges here with Eli, I think the answer is "no". If Mac Modula based p-code would run on the IV.1.3 Apple2e, then I think Pecan would be selling a Modula for the Apple2e, which they are not.

Eli Willner (Vice President, Pecan Software Systems, Inc.) *also answers:*

Matt -- Let me try to help with some brief answers.

1. For the Mac, we sell the Mac p-System (now called Power System) version IV.22. This system supports UCSD Pascal, Modula-2, FORTRAN-77, BASIC and (within a few weeks, we hope) C.

2. The p-code generated by Version IV Power System isn't compatible with Apple Pascal. It is generally compatible with Pecan's UCSD Pascal for the Apple II family.

3. Modula-2 code generated on a Mac will generally not run correctly on an Apple IIe because Pecan's Apple IIe implementation is IV.13, not the latest IV.22 system release. The modifications to the system (not p-machine) necessary to run Modula-2 (and C, for that matter) aren't in IV.13. (The Apple IIgs has no such problem as it is running IV.22).

Tips

edited by William D. Smith

Here's a tip from David Hendel (CIS: 72677,2776):

For those people using the MS-DOS hosted version of the Power System, you can use the Power System filer to verify and fix bad blocks on MS-DOS diskettes.

Use the filer B)ad and X)amine commands on MS-DOS formatted diskette just as you would with Power System formatted diskettes. You will be prompted for the number of blocks, or the block range. Just respond as you would normally.

I have used this many times to fix bad MS-DOS diskettes, or verify that the diskette is good.

Heres a gotcha form Harry Baya (CIS: 72135,1667).

One of the main criticisms of the C language is that it is much easier to shoot your own foot in C than in Pascal. There are still some lovely chances in Pascal.

The following program demonstrates a problem I recently ran into. This apparently innocent program will cause WrkString (declared as string[7]) to be set to a 15 character string and, worse, will overwrite part of String2. Depending on what is overwritten in a program this problem can be difficult to track down.

```
program Test;
var WrkString : string[7];
    String2    : string;

procedure ChkStr (var InString : string);
begin
    InString := '123456789abcdef';
end { ChkStr };

begin { Test }
String2 := 'this is the way it is when it starts ';
writeln ('String2 starts as : ', String2);
WrkString := '1234567';
writeln ('WrkString starts as : ',WrkString);
writeln;
writeln;
ChkCtr (WrkString);
writeln ('after return String2 : ', String2);
writeln ('WrkString is : ', WrkString);
writeln;
end { Test }.
```

From the Associate Editor

by William D. Smith

First a correction, in the last NewsLetter, I had wrongly stated that this NewsLetter would contain the second part of "A History of the UCSD p-System". Well Frank has informed me that the second part has not yet been written and it will be several months before it is finished. He says the time consuming part is doing the research. So as soon as it is finished, it will be included in the NewsLetter.

As you can see this is the election issue. Please take the time to vote. It only cost a stamp and some time. USUS is an organization composed of volunteers. Taking the time to vote shows that there are more people (then just the ones who

step up and do a majority of the work) out there who are interested in the organization.

USUS needs volunteers. As you can see from the columns in the NewsLetter, there are a lot of opportunities. Here's another one. We need someone to be responsible for printing and mailing this NewsLetter (at this time Hayes is doing it, along with everything else he does). The job consists of receiving the NewsLetter in the mail from me, once a month (ten months a year) and having it printed and mailed. If it is a small NewsLetter, you will have to affix stamps and address to each NewsLetter (Hays says this is about a four hour job). If it is a large NewsLetter (the size of this one), you need to deliver it to a bulk mailing house with the labels provided by Hays. The fifty or so international members will need to have their NewsLetters placed in an envelope, stamped, and mailed separately, regardless of the NewsLetter's size. You would have to find a printer and mailing house (with reasonable rates) in your area. The only requirement is that the NewsLetter be mailed within one week of you receiving it. USUS pays the printing and mailing costs. If you want to do this job, contact Hays Busch (address and phone on last page).

I want to thank all the people who regularly contribute to this NewsLetter (and those that provide useful questions and tips on MUSUS). I would like to encourage all the readers out there to contribute to the NewsLetter (question, comment, tip, article, etc.). This is the vehicle of communication among the majority of USUS members (those not on MUSUS). Use it!

I'll leave you with a poem, sent by R. Tim Coslet to Sam'l Bassett, who passed it along to me with his the comment "Some of the terminology is a little dated (ex. Face Down, Nine Edge First

refers to Punch Cards), but most programmers I have shown it too liked it".

I found the following several years ago on the top of a discarded computer generated calender. It was untitled but probably could be titled...

"The Debugger!"

R. Tim Coslet

'BUT YOU'RE OUT OF YOUR MIND,'
THEY SAID WITH A SHRUG.
'THE CUSTOMER'S HAPPY
-- WHAT'S ONE LITTLE BUG'

BUT HE WAS DETERMINED,
THE OTHERS WENT HOME.
HE SPREAD OUT THE PROGRAM,
DESERTED, ALONE

THE CLEANING MEN CAME, THE
WHOLE ROOM WAS CLUTTERED
WITH MEMORY-DUMPS, PUNCHED
CARDS, 'I'M CLOSE,' HE MUTTERED.

THE MUMBLING GOT LOUDER,
'SIMPLE DEDUCTION,
I'VE GOT IT, IT'S RIGHT, JUST
CHANGE ONE INSTRUCTION.'

IT STILL WASN'T PERFECT
AS YEAR FOLLOWED YEAR
AND STRANGERS WOULD COMMENT,
'IS THAT GUY STILL HERE?'

HE DIED AT THE CONSOLE
OF HUNGER AND THIRST.
NEXT DAY HE WAS BURIED,
FACE DOWN, NINE-EDGE FIRST.

AND THE LAST BUG IN SIGHT,
AN ANT PASSING BY,
SALUTED HIS TOMBSTONE
AND WHISPERED, 'NICE TRY.'

BY LOU ELLEN DAVIS
DECEMBER, 1967

IF YOU PHOTOCOPY THE FORM ON THE NEXT PAGE, YOU CAN FOLD IT (OR SEVERAL TOGETHER) IN THIRDS, TAPE, STAMP AND ADDRESS THE REVERSE SIDE, AND SAVE YOURSELF AN ENVELOPE.



Mail form to: Beverley Henderson
P. O. Box 1389
El Granada, CA 94044

USUS SOFTWARE INFORMATION REQUEST FORM

Please fill out a separate form for any UCSD Operating System based programs you use.

PROGRAM NAME: _____

VERSION NUMBER: _____ DATE OF PURCHASE: _____

PURCHASED FROM: _____

(Include address and telephone, if known)

HARDWARE REQUIREMENTS: _____

(Please include computer brand(s), required RAM, number and type(s) of disk drives, printer requirements (i.e. dot matrix only, etc.) and any other special or specific requirements)

SOFTWARE REQUIREMENTS: _____

(Version of p-System; or, for example, Apple FORTRAN requires Apple Pascal and some software is a template for another program)

DOCUMENTATION PROVIDED: _____

(Written manual, disk files, help available while running, etc.)

CURRENT SUPPORT STATUS: _____

(Who currently supports this software? How well?)

If shown in the documentation, on the disk, or on the screen when booting, include the following with address and telephone where given.

PROGRAM AUTHOR(S): _____

DISTRIBUTOR/VENDOR: _____

COPYRIGHT HOLDER: _____

Information about yourself.

NAME: _____

ADDRESS: _____

TELEPHONE(S): _____

ELECTRONIC ACCESS: _____

MACHINE(S) USED: _____

USUS

Sept/Oct 1988

NewsLetter

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Sam'l Bassett, Editor-in-Chief

William D. Smith, Associate Editor

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NOTE: The USUS Administrator, who handles almost all of our business, and especially new memberships and renewals, is Hays Busch. He can be reached at the USUS address in La Jolla, or at 2193 Montane Drive East, Golden, CO 80401-9125; (303) 526-0057.

Next NewsLetter coming November

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ADDRESS CORRECTION REQUESTED