

PASCAL USERS GROUP

Pascal News

NUMBER ~~18~~ 19

COMMUNICATIONS ABOUT THE PROGRAMMING LANGUAGE PASCAL BY PASCALERS

SEPTEMBER, 1980



EX LIBRIS: David T. Craig
736 Edgewater
[# _____] Wichita, Kansas 67230 (USA)

- * Pascal News is the official but informal publication of the User's Group.
- * Pascal News contains all we (the editors) know about Pascal; we use it as the vehicle to answer all inquiries because our physical energy and resources for answering individual requests are finite. As PUG grows, we unfortunately succumb to the reality of:
 1. Having to insist that people who need to know "about Pascal" join PUG and read Pascal News - that is why we spend time to produce it!
 2. Refusing to return phone calls or answer letters full of questions - we will pass the questions on to the readership of Pascal News. Please understand what the collective effect of individual inquiries has at the "concentrators" (our phones and mailboxes). We are trying honestly to say: "We cannot promise more that we can do."
- * Pascal News is produced 3 or 4 times during a year; usually in March, June, September, and December.
- * ALL THE NEWS THAT'S FIT, WE PRINT. Please send material (brevity is a virtue) for Pascal News single-spaced and camera-ready (use dark ribbon and 18.5 cm lines!)
- * Remember: ALL LETTERS TO US WILL BE PRINTED UNLESS THEY CONTAIN A REQUEST TO THE CONTRARY.
- * Pascal News is divided into flexible sections:

POLICY - explains the way we do things (ALL-PURPOSE COUPON, etc.)

EDITOR'S CONTRIBUTION - passes along the opinion and point of view of the editor together with changes in the mechanics of PUG operation, etc.

HERE AND THERE WITH PASCAL - presents news from people, conference announcements and reports, new books and articles (including reviews), notices of Pascal in the news, history, membership rosters, etc.

APPLICATIONS - presents and documents source programs written in Pascal for various algorithms, and software tools for a Pascal environment; news of significant applications programs. Also critiques regarding program/algorithm certification, performance, standards conformance, style, output convenience, and general design.

ARTICLES - contains formal, submitted contributions (such as Pascal philosophy, use of Pascal as a teaching tool, use of Pascal at different computer installations, how to promote Pascal, etc.).

OPEN FORUM FOR MEMBERS - contains short, informal correspondence among members which is of interest to the readership of Pascal News.

IMPLEMENTATION NOTES - reports news of Pascal implementations: contacts for maintainers, implementors, distributors, and documentors of various implementations as well as where to send bug reports. Qualitative and quantitative descriptions and comparisons of various implementations are publicized. Sections contain information about Portable Pascals, Pascal Variants, Feature-Implementation Notes, and Machine-Dependent Implementations.

- - - - - ALL-PURPOSE COUPON - - - - - (15-Sep-80)

Pascal User's Group, c/o Rick Shaw
P.O. Box 888524
Atlanta, Georgia 30338 USA

****NOTE****

- Membership fee and All Purpose Coupon is sent to your Regional Representative.
- SEE THE POLICY SECTION ON THE REVERSE SIDE FOR PRICES AND ALTERNATE ADDRESS if you are located in the European or Australasian Regions.
- Membership and Renewal are the same price.
- Note the discounts below, for multi-year subscription and renewal.
- The U. S. Postal Service does not forward Pascal News.

		USA	Europe	Aust.
<input type="checkbox"/>	Enter me as a new member for:	[] 1 year \$10.	£6.	A\$ 8.
<input type="checkbox"/>	Renew my subscription for:	[] 2 years \$18.	£10.	A\$ 15.
<input type="checkbox"/>		[] 3 years \$25.	£14.	A\$ 20.

Send Back Issue(s) !

My new address/phone is listed below

Enclosed please find a contribution, idea, article or opinion which is submitted for publication in the Pascal News.

Comments: _____

! ENCLOSED PLEASE FIND: \$ _____ ! £ _____ ! ! CHECK no. _____ !
--

NAME _____

ADDRESS _____

PHONE _____

COMPUTER _____

DATE _____

JOINING PASCAL USER'S GROUP?

- Membership is open to anyone: Particularly the Pascal user, teacher, maintainer, implementor, distributor, or just plain fan.
- Please enclose the proper prepayment (check payable to "Pascal User's Group"); we will not bill you.
- Please do not send us purchase orders; we cannot endure the paper work!
- When you join PUG any time within a year: January 1 to December 31, you will receive all issues of Pascal News for that year.
- We produce Pascal News as a means toward the end of promoting Pascal and communicating news of events surrounding Pascal to persons interested in Pascal. We are simply interested in the news ourselves and prefer to share it through Pascal News. We desire to minimize paperwork, because we have other work to do.

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- American Region (North and South America): Send \$10.00 per year to the address on the reverse side. International telephone: 1-404-252-2600.
 - European Region (Europe, North Africa, Western and Central Asia): Join through PUG (UK). Send £5.00 per year to: Pascal Users Group, c/o Computer Studies Group, Mathematics Department, The University, Southampton SO9 5NH, United Kingdom; or pay by direct transfer into our Post Giro account (28 513 4000); International telephone: 44-703-559122 x700.
 - Australasian Region (Australia, East Asia - incl. Japan): PUG(AUS). Send \$A10.00 per year to: Pascal Users Group, c/o Arthur Sale, Department of Information Science, University of Tasmania, Box 252C GPO, Hobart, Tasmania 7001, Australia. International telephone: 61-02-23 0561 x435
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PUG(USA) produces Pascal News and keeps all mailing addresses on a common list. Regional representatives collect memberships from their regions as a service, and they reprint and distribute Pascal News using a proof copy and mailing labels sent from PUG(USA). Persons in the Australasian and European Regions must join through their regional representatives. People in other places can join through PUG(USA).

RENEWING?

- Please renew early (before November and please write us a line or two to tell us what you are doing with Pascal, and tell us what you think of PUG and Pascal News. Renewing for more than one year saves us time.

ORDERING BACK ISSUES OR EXTRA ISSUES?

- Our unusual policy of automatically sending all issues of Pascal News to anyone who joins within a year means that we eliminate many requests for backissues ahead of time, and we don't have to reprint important information in every issue--especially about Pascal implementations!
- Issues 1 .. 8 (January, 1974 - May 1977) are out of print.
(A few copies of issue 8 remain at PUG(UK) available for £2 each.)
- Issues 9 .. 12 (September, 1977 - June, 1978) are available from PUG(USA) all for \$15.00 and from PUG(AUS) all for \$A15.00
- Issues 13 .. 16 are available from PUG(UK) all for £10; from PUG(AUS) all for \$A15.00; and from PUG(USA) all for \$15.00.
- Extra single copies of new issues (current academic year) are: \$5.00 each - PUG(USA); £3 each - PUG(UK); and \$A5.00 each - PUG(AUS).

SENDING MATERIAL FOR PUBLICATION?

- Your experiences with Pascal (teaching and otherwise), ideas, letters, opinions, notices, news, articles, conference announcements, reports, implementation information, applications, etc. are welcome. Please send material single-spaced and in camera-ready (use a dark ribbon and lines 18.5 cm. wide) form.
- All letters will be printed unless they contain a request to the contrary.

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SEPTEMBER, 1980

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Contributors to this issue (#19) were:

EDITOR	Rick Shaw
Here & There	John Eisenberg
Books & Articles	Rich Stevens
Applications	Rich Cichelli, Andy Mickel
Standards	Jim Miner, Tony Addyman
Implementation Notes	Bob Dietrich, Greg Marshall
Administration	Moe Ford, Kathy Ford, Jennie Sinclair

APPLICATION FOR LICENSE TO USE VALIDATION SUITE FOR PASCAL

Name and address of requestor: _____
(Company name if requestor is a company) _____

Phone Number: _____

Name and address to which information should
be addressed (Write "as above" if the same) _____

Signature of requestor: _____

Date: _____

In making this application, which should be signed by a responsible person in the case of a company, the requestor agrees that:

- a) The Validation Suite is recognized as being the copyrighted, proprietary property of R. A. Freak and A.H.J. Sale, and
- b) The requestor will not distribute or otherwise make available machine-readable copies of the Validation Suite, modified or unmodified, to any third party without written permission of the copyright holders.

In return, the copyright holders grant full permission to use the programs and documentation contained in the Validation Suite for the purpose of compiler validation, acceptance tests, benchmarking, preparation of comparative reports, and similar purposes, and to make available the listings of the results of compilation and execution of the programs to third parties in the course of the above activities. In such documents, reference shall be made to the original copyright notice and its source.

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Richard J. Cichelli
On behalf of A.H.J. Sale & R.A. Freak

Editor's Contribution

SO WHATS NEW

Well lots! We have extended the subscriptions of all members by 6 months. The effect of this change is that we align the subscription year to the calendar year instead of an academic year. So now, it should be easier to know when your subscription expires. Note that our policy of sending all back issues for the year has not changed. Therefore the year marked on the labels is the year through which your subscription is effective. Remember, now subscriptions expire on December 31.

Also, as you can see if you have read the new APC, the price of Pascal News is going up. Sorry. We resisted as long as we could. But note that we offer a good price break for multiple year subscriptions. Subscribing for more than one year saves us a great deal of work. Please, please help us save paper work! The new prices will go into effect 1-January-80. Until then, we will accept renewals and subscriptions at the old price. So if you have not yet renewed, do it now, while the price is low low low! We also have a new address! (note the new APC again) You may recognize it as the return address for issues 17 and 18. The address is simple and does not include a company name. (yes the box number really does have six digits and three are 8's) I hope the new address mollifies those people who worried about vendor bias. By the way, my employer provides no support for Pascal Users Group, in any way shape or form. Which leads me to the next subject.

HELP -- I'M BEGGING

Pascal Users Group needs its own computer. It has become a necessity, to be able to maintain our ever increasing data base, and do all of our record keeping. If your company can offer any type of a product for our use either as a gift, for long term use, or at a substantial discount we would like to hear from you. We are not very ambitious. Our thoughts are to secure a micro processor, a terminal, a small line printer, a hard disk, and a set of floppys. Small potatoes! Right? The system must be in place by December in order for us to be on time for the next issue. So, please, won't you call right away. (Jerry Lewis, eat your heart out) I have exhausted all my favors in Atlanta.

CHANGE OF ADDRESS -- A REAL PROBLEM

I just can not believe how many people change there address and do not inform Pascal News! The expense is phenominal. Bulk mail is not forwardable by the post office. It costs

\$.15 to send a change of address card to us, and \$1.43 just in return postage if you do not. That does not include the postage to get it to you at your new address. This is a tremendous expense to PUG when 142 people "just forgot". Please help us get Pascal News to you on time. OK? So if you suspect we may have your back copies, send us a stamped self-addressed envelope with a note telling us which issues you have not recieved and we will give you your copies or a new set, no questions asked. Simple, right?

THE GOOD STUFF -- WHAT'S IN THIS ISSUE

As usual, we have a gigantic "HERE AND THERE" section this issue. it is chock full of feedback from the readers. If you put anything on the "comments" section of the APC or sent anything to me or John that was not a letter, it ends up here. So keep up the notes and comments.

I would also like to call your attention to the section on "BOOKS AND ARTICLES" if you are looking for some side reading on Pascal there are over 300 citings. Wow! And Rich has collected together a very complete list of the text books available on subject of Pascal. If your favorite is not there please drop us a line on an APC. OK?

Since Andy Mickel has a few spare moments lately, he has contributed 3 fine tidbits of information. The first is a thumbnail review of all the back issues of Pascal News (1..16). Second, he has rolled up the 78-79 finances. And third, is a summary of all the machines represented by the PUG membership, derived from the old APCs. Very interesting.

The "APPLICATIONS" section contains Wirth's Pascal-S, the subset Pascal compiler. It has been around for a while but many new users have never seen it. We also have included a LISP interpreter, for those who need the power and flexibility?! Enjoy.

The "ARTICLES" are really great too. Both show a solid approach to making a good thing better.

Jim Miner reports on the standards turmoil. The facts are laid out, and testimony from both sides is presented. You be the judge. And Let us know what you think.

And finally "IMPLEMENTATION NOTES". Fourty pages of them. Note IBM's offical entry. 'Nuff said.

Hope you like it.

RICK

Here and There With Pascal

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T IDBITS

Peter C. Akwai, IBM Kst. 3787, Postfach 33 09,6000 Frankfurt/M1 West Germany: "We are willing to assume some of the unassigned Pascal Newsletter work caused by Andy Mickel's retirement. Let us know what we can do to help. Pasteup, Selectric composer facilities available, some graphics/cartooning, etc." (*79/05/05*)

Haim Avni, Givat Brenner, Israel 60948: "We are a rather new software group, very keen Pascalers and eager to have this line of communication with other Pascal users." (*80/05/09*)

David P. Babcock, 508 First Street, Alamosa, CO 81101: "Disappointed to note address is now DEC. Please try to maintain at least a semblance of independence in any case." (*80/01/20*)

John W. Baxter, 1830 Avenida del Mundo, Apt. 1710, Coronado, CA 92118 is using Pascal on an Apple at home, and also uses "an offspring of PASCAL -- called NCR language -- in my work at NCR Corp." (*79/12/28*)

Hank Becker, Yourdon - Software Products Group, 1133 Ave. of the Americas, New York, NY 10036: "We will be distributing a Concurrent Pascal (compiler is transportable) with P-codes to run on 8080/8085/Z80 and eventually other [micros]." (*80/02/23*)

Paul J. Beckmann, 1907 Bohland, St. Paul, MN 55116: "PN outstanding! Thanks to Andy and the U of M Pascal Think Tank. Good luck to you, Rick, in Georgia." (*80/02/23*)

Norman Belssner, 9616 Thunderbird Drive, San Ramon, CA 94583 is interested in implementations of Pascal on TRS-80. (*80/01/05*)

K.S. Bhaskar, 22828 76th Ave. W. Apt. #33, Edmonds, WA 98020 is using the NBS Pascal Compiler on a PDP 11/70 to generate code which is executed on a stand-alone LSI-11 for real-time applications. (*80/01/21*)

K. Brauer, Universitaet Onasbrueck, 45 Onasbrueck, Postfach 4469 uses and teaches Pascal at University, and is very much interested in getting further issues of the newsletter. (*80/01/03*)

Frank M. Brewster, 1 North Vista Ave., Bradford, PA 16701: "If you live up to Andy's standards, you'll deserve the same huge thanks we owe to him. Good luck." (*80/02/06*)

Frank Bush, Tennessee Tech. Univ., Box 5071, Cookeville, TN 38501 has just started using UCSD B-6700 Pascal. (*80/05/06*)

R. Bush, P.O. Box F, North Bend, OR 97459: "yeah 'Applications', Validation Suite et al. Kudos to AM for service...is nasty K. Bowles really that bad?" (*80/01/23*)

Larry H. Buss, 101 South U St., Apt., 1, Lompoc, CA 93436: "I have a system running under standard CP/M with 48K.... I would like to examine the latest Pascal documentation. It seems that there are so many different versions of Pascal out. Is the standard Pascal from UCSD the best one?" (*80/01/17*)

Robert Caldwell, Scientific/Humanistic Interfaces, 2939 Governor Dr., San Diego, CA 92122: "Superb job - hang in there!" (*80/01/21*)

Dan Cantley, 3423 Carpenter Rd. Lot 10, Ypsilanti, MI 48197: "Just found the Pascal News - it's GREAT. Learned Pascal six months ago...our Accounting Department wanted an A/R package - our system didn't have the time or space - so I wrote the A/R package on our own micro - stuck it in Accounting Department. They love the package, and I love PASCAL." (*80/01/20*)

Chip Chapin, 3960 La Jolla Village Dr., La Jolla, CA 92037: "Should have joined long ago - have worked with UCSD Pascal project for 3 years." (*80/01/02*)

Les Cline, 1235 Wildwood Ave. #361, Sunnyvale, CA 94086: "I know not what others say, but as for me, give me Pascal, or give me Assembler!!" (*80/05/06*)

Roger A. Collins, 1653 Olmeda St., Encinitas, CA 92024: "I have found Pascal News very informative and helpful. Brought up an interpreter (* on a Perkin-Elmer 8/32 *) but found it unworkable in our environment, am now looking for a compiler." (*80/01/23*)

Stan Crouch, Technicon Medical Information Systems Corp., 3255-1 Scott Blvd., Santa Clara, CA 95051: "I am doing a study on the feasibility of converting some on-line programs to Pascal. I need to know whether or not Pascal programs can be made re-entrant and what is required in the operating system. Also, if you have any information on ADA capabilities I would appreciate any input in that area." (*80/04/08*)

Jeff Davis, 1515-J Tivoli Court, Raleigh, NC 27604 belongs to a local Apple users group that has started a Pascal Special Interest Group with good response. (*80/02/06*)

Tony DiCenzo, Digital Equipment, MR1-1/M40, Marlboro, MA 01752: "Good luck Rick - I'm sure this publication will flourish in your capable hands." (*80/02/03*)

George B. Diamond, Diamond Aerosol Corporation, R-D. #1, Glen Gardner, NJ 08826: "If we had this kind of effort in other fields we would not be a 3rd rate power." (*80/01/23*)

John Dickinson, Dept. of Elec. Engr., Univ. of Idaho, Moscow, Idaho 83843 is

