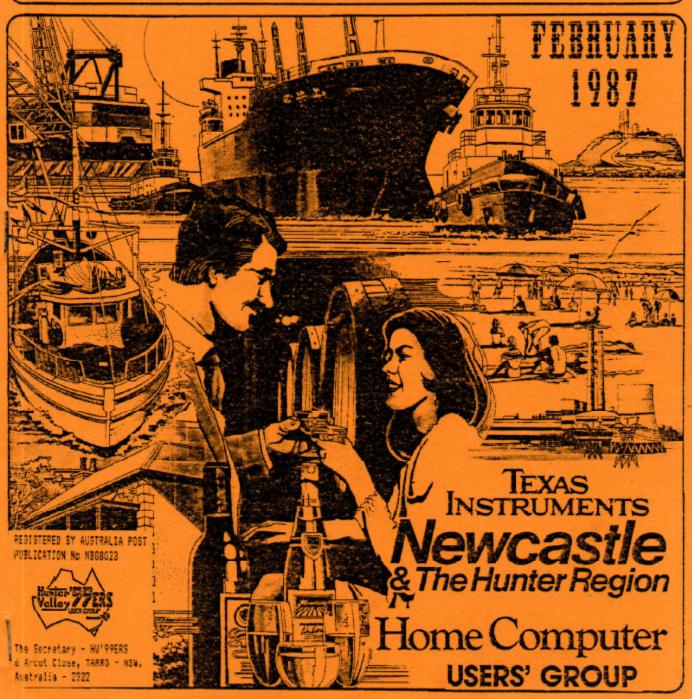
HUNTER VALLEY 99'ERS NEWS



TT 99/4A

HOME COMPUTER NEWSLETTER



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SFCRFTARYS RFPORT

Well here we are once again, looking toward another successful year promoting and puting to use our trusty 4A's or Geneve's or IBH compatibles or whatever they are going to turn into during the course of the year.

Welcome aboard to the new members locally, from Western Australia and Coffs Harbour who think enough of HV77 to join the ranks. We invite and encourage you to participate in the activities of the group through the newsletter, as you are not be alone in your interests in this machine.

A warm welcome back to all HV99 followers and I say warm because I believe that our friends in the northern hemisphere need it. In the last issue of '86 I made SOME this being the 'dormant comment of σ÷ computing here season: Australia and I neglected to take into account the other side of the coin. Being winter in the north, it forces people indoors and, as I have found, allows them to fire up the 4A. Whilst they warm their feet on the power transformer they browse through their user group newsletters and MICROpendiums and say "I must send them a letter on that!". I'm glad that they do because from all this comes literally piles of information, enquiries and well wishes from others just like us (fit any adjective you like) who just want to share their experiences with this machine with us. It's what I call real user stuff.

During the break several enquiries from around Australia and overseas with regard to the 3 slot PE. Box were received and dealt with and this has resulted in the sale of nearly all of the mother PCB's that we had made up late last year. If any-one is after one we still have a couple left at \$25.00. We were lucky enough during the

break to have Ron Kleinschafer designer of the PE. Box) visit with us for a couple of weeks and in this time plenty was done as far as sourcing parts for this project as well as others for items of interest which will be getting under Whilst I am on through the year. the subject of parts I would like to ask for some help on the obtaining PCB of the dø way connectors to house the expansion required boards in the 3 slot PE box. I have tried every so called supplier in the Newcastle area and most in with not very satisfying Sydney The best I have got at results. is that Geoff Wood this stage Electronics in Lane Cove (Sydney) can make them up in the Amtorn/Tyree type for \$iØ.5Ø each with another source being via TI. in Sydney who can supply the correct 60 way socket approx \$7.6Ø per unit. To do for this however involves a minimum ⇒iผีตี.ตีตี order to be placed. Do the mathematics and we need to order units minimum to have them supply the sockets. So those that are having difficulty in getting your PE. Box together because of these sockets, please contact me at HV99 so we can place an order If you haven't had this necessary. problem and you know of a supplier out for a that can heip us reasonable price PLEASE let us know IMMEDIATELY. On a similar note one of the hold ups with the development of the o module widget is along the same lines; the 36 way sockets are also rare and expensive in lots less that ided.

From the Illawarra Group comes Ωf their CONSOLE TESTING word hardware which, during its short life, has resurrected many a dead console. Its designer and builder (Geoff Trotti making i S equipment available to others around ⇒iëë. I have been in contact with Geoff and sent him off money so that this valuable piece of equipment can be made available to our members as the need arises. Another item of interest to us came from a visit to John Paine of the TISHUG group in Sydney. John has provided HV99 with the latest system update of our Corcomp 7700 expansion system and has customised the title screen as an identifier for us. Hany thanks for this John. riany

hardware, projects such as stand the pipeline from the Sydney people and details will be passed on as information becomes available.

still on the While a.m Australian front, I must apologise particular Bev Sorry about GERMAN. looking forward to. missing you Dev.

Another interesting letter came from Kevin Cox in the Coffs Harbour contact? endeavours.

Still iocally, a couple of various places around Australia as about. advice on this that you might not hope not. believe - if it is of interest to for now, back again next month. you, grab it quick as the prices are generally in favour of the customer and they don't stay for sale very long, surprising though it may seem.

On the overseas front several newsletters from the US and Canadian groups have arrived with heaps of news of the goings on at the various TI Fairs that were held in the latter stages of '86 as well as a really December issue of good MICROpendium with the usual news, reviews and user feedback. From our friends at Workshop Rheinland West Germany) comes news of their ist and very successful TI Fair that demonstrated to Europe that the 4A was more than alive and kicking.

juest speakers included alone RSZ3Z, PIO interface, EPROM Phillips, Paul Charlton and Mack hardware and RAM disk etc, etc are in McCormack to name a few and they addressed people from groups in The Netherlands, Belgium, Switzerland, Luxemburg and many of the German groups. ~ They aiso demonstrated their recent hardware and suftware developments from MEKATRONICS to the to some of our not so local people, gathering. How's that for get up that have contacted me with various and go! Congratulations to all that and enquiries, for the organised that TI EXPO. Well done delay in my returning their mail. from HV99 on the other side of the Warren from planet. Plike Heuser from Workshop Yathong in the west of NSW who we Rheinland has also been kind enough almost arranged to visit with us to send us some really top class while her family was on holidays on information with regard to an EPROM the east coast. Bad timing and a BURNER suitable for use on the 4A. missed phone call however prevented However there is a small problem in the visit which many of us were that it is all in very readable Can anyone help us with a translation into English? Thanks for that info Mike.

Whilst on the German front, I area who, with others, is trying to have been reminded that Peter Gleed establish a group in that area. Of the Helbourne group travels to Doing so he has run into the old that part of the world regularly and lack of communications and 'who do I has established contacts with the problems. If its any MEKATRONICS people and he is able to consolation to the people in Coffs supply their equipment through the Harbour, we at HV99 know the problem Helbourne Group at very reasonable only too well and if we can assist prices. Should you require any of in any way please feel free to USE this equipment you would do well to us. In any case good luck with your contact Peter (03-8774790) or Bruce Carew the secretary on Ø3-5892997.

Boy on boy!, it sounds like I'm systems and 4A related goodies have going to rave on forever but I told come onto the 2nd hand market from you that there was lots to talk Thanks to all that provided evidenced by the 'For Sale' adds the information for me to pass on elsewhere in this issue and in other and in all this there's probably user group magazines. A word of Something that I have forgotten - I Anyway that's about it

Albert Anderson 4a4me



FROM THE EDITOR ASSEMBLER

Welcome back after what I hope Was a good holiday period for you ali. I know I certainly enjoyed myself and am looking forward to Graphics) another busy year with 99'ers.

I am sorry to report that our our jovial Vice President, Jim Grimmond, compatible: reports he is on the mend and should cost. be home soon. The best wishes of developments. all the Group go to him, and hope to see him back on deck before long. One unkind soul was heard to mutter, MICROpendium is in the library but I'm sure Jim will catch up when Regina's he can.

a 0 a

our magazine. Currently Group and has had articles published Tony & Will McGovern have his first submission shortly.

recently CHARACTER SETS AND GRAPHICS DESIGN III by Dave Rose, and boy is it As well as printing headings (as used in this issue of well the magazine) with some new fonts, available for borrowing free you can design your own letterheads (naturally) from our comprehensive and labels, incorporating graphics publications library. if you wish. 6 new fonts can be Mulvaney on any meeting night to used to print out TI-WRITER prepared make your selection. files to give your printouts that little extra 'class'. пен The package is supposed to be compatible we can arrange regular TI-WRITER with versions I and II, but I can t discussion groups. The intention is get it to load any fonts from that rather than straight out version I. Haybe someone out there tutorials, a group of us could get amongst our readers can give me an together in an informal way idea what I'm doing wrong.

This new package is recommended (for those with a use for this type of program) and available from:

Texaments 53 Center Street, PATCHOGUE NEW YORK 11772 USA.

Cost was ¥US17.93 plus ¥U54.ØØ airmail postage.

ĦĞ (formerly Millers have announced that, in a the 'HV joint venture with another un-named company, they will be manufacturing a card for the PE box that will make little TI The new has spent some time in hospital as a expected to be released soon at what result of a heart attack. From all they claim will be a reasonable Stay tuned for further

January's issue "Some people will do anything to get now, and is again brimming with out of reviewing the monthly disk", information on our beloved machine. first MICROpendium on BASIC/XB is a must for the 'novice', while those who One of the most exciting things are more advanced are well catered to happen over the holidays (at for in the magazine. There is still least as far as I am concerned) was quite a lot of commercial software an offer by one Robert Carmany of available for the 4A as evidenced by the US to write regular articles for the advertisements from Tex-Comp, Robert Asgard etc. Ιn the writes for the Guilford 99'ers Users column, it is reported that our own in MICROpendium, so you can see why awarded an DUTSTANDING SUPPORT AWARD I am excited about the prospect of by the Front Range Computer Club of him writing for us. We hope to see |Colorado Springs, Colorado, USA, for their efforts with Funlwriter. Well done Tony Will, it's nice to know ecently purchased from your efforts are appreciated in the US the latest overseas as well as within our own group.

> This month's MICROpendium previous as issues) See Paul

If there is any interest, maybe exchange information, tips, hints or

whatever. If this idea appeals to 2) Is it feasible? This also means you get in touch with me as soon as things like, do I feel like possible. If the interest is there, it? Does it look easy? Is it the I will arrange a meeting as soon as easiest way, or the best or should I practicable. Don't forget that do it by hand? Have I got time? We regular tutorials are held covering will assume that the answer to these BASIC, XB, ASSEMBLY & FORTH are is YES. held, so if your interest lies in those areas, contact some one on the $|3\rangle$ Plan the program. This is where committee for further details.

will be the newly purchased Geoff planning and you end up in a DEEP Trott Console Tester. οŕ hardware tests 'dead' HOLES - Ed). consoles and indicates where the decide what the program must ask, problem lies, making repairs that what much easier. Another fine piece of calculations and decisions it must work made for the TI by the groups make, and when, what it must do if 'down under'.

In Closing, don't forget your one article for newsletter this year, and please, give your hard working Editor a break and don't all rush me at once!

Brian Woods

PROGRAM **WRITING**

This article, written ĎУ Ĥ.F. Neujahr, came from the newsietter of the South African TI Users Group.

Writing a program consists of several stages, of which typing in the program and testing it is probably the last and smallest stage. To give you a breakdown:

i) What do I want it to do? This one is probably the hardest to answer, especially in the detail you need to get the answer onto a computer. The answer, in most cases is either a) nothing or b) if you bit nave ambition, а more everything. But to get to the next stage, we'll assume that the answer is something you can put on the TI, for like teach example, multiplication.

วิติ% of the work lies; by knowing programming well, you can cut this The demo for the Harch meeting down to 50%, but less than 50% on This great hole. (see Ron K's articles re DEEP Here is where you it must display, invalid things are entered, resuit from the calculation (eq divide by zero, adding an entry on Years Resolution - write at to a file when an entry exists, YOUR moving off the board in a chess game, etc.), and last but not least what the program must accomplish.

> 4) Code the routines you will need in the program, eg selection from a menu or displaying the results in a tidy way or checking that the golf ball does the correct thing when it nits an obstacle, or whatever. Do this on paper, then you can see the bits on their own. After this, tie all the routines together in sequence that makes good sense. Again, on paper. None of this has to be in BASIC by the way; just write what the computer has to do in a way that makes sense and covers all the possibilities. This could come under planning, I suppose, but you are already into execution of your grand design at this stage, and the line has to be drawn somewhere.

> 5) Translate the coding you have written (in your own language) into the computer ianguage ο÷ your choice.

- 6) Test it and expect the worst...
- 7) Now that you have got rid of all the things that caused the computer. to call you rude names, check if the program produces the expected results.
- 8) Now decide how you really want the program to run, and go back to step #i - and welcome to the real world of computer programming::

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362 37Ø 380 CONT 39ø 400 410

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THE HV 99ERS BASIC GROUP

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SOLUTION 6-2

Hello 1987 and interest in TI-99/4a is still going strong I lið CALL CLEAR hope. If the club can keep generat- | 120 ing the enthusiasm it has I think it STUDENTS"; ST will be around for quite a while In the Xmas issue we gave you our solutions to prob 5-1 and 5-2 we will now and set two problems. give our solution to them.

SOLUTION 6-1

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iðð DīM SCORE(ið,3ð),NAM¥(3ð) 11Ø CALL CLEAR 128 INPUT "ENTER NŌ. STUDENTS"; ST 13Ø IF ST>3Ø THEN 11Ø 14Ø CALL CLEAR 150 FOR ZN=1 TO ST 160 PRINT"ENTER STUDENT"; ZN; "DATA"::| 17Ø INPUT "NAME ":NAM⊕(ZN) 180 PRINT : "EXAM RESULTS" 198 FOR A=1 TO 18 200 INPUT SCORE (A, ZN) *ZIÐ* SCORE(Ø,ZN)=SCORE(Ø,ZN) +SCORE (A, ZN) ZZØ NEXT A 23Ø SCORE(Ø,ZN)=SCORE(Ø,ZN)/1Ø 24Ø CALL CLEAR 25Ø NEXT ZN 26Ø CALL CLEAR -27Ø FOR ZN=1 TO ST 28Ø PRINT "EXAM RESULTS FOR "; NAM¥ (ZN) 298 PRINT 300 FOR A=1 TO 10 310 PRINT TAB(10); SCORE(A, ZN) 32Ø NEXT A 33Ø PRINT 34Ø PRINT " AVERAGE" 350 PRINT 360 PRINT TAB(10); SCORE(0,ZN) 370 PRINT 380 PRINT "PRESS ANY KEY TO CONTINUE" 39Ø CALL KEY(Ø,K,S)

400 IF S(1 THEN 390

41Ø CALL CLEAR

42Ø NEXT ZN

43Ø END

the igg DIM SCORE(ig, 3g), NAM+(3g) ŪΕ INPUT "ENTER ΝŪ. 13Ø IF ST>3Ø THEN 11Ø 14Ø CALL CLEAR 150 INPUT "ENTER NO. OF RESULTS ":EX 160 IF EXPLO THEN 140 17Ø CALL CLEAR 180 FOR ZN=1 TO ST 190 PRINT "ENTER STUDENT"; ZN; "DATA":: ZØØ INPUT "NAME ":NAM∳(ZN) ZIØ PRINT : "EXAM RESULTS" 22Ø FOR A=1 TO EX 23Ø INPUT SCORE(A,ZN) Z4Ø SCORE(Ø, ZN) =SCORE(Ø, ZN) +SCORE (A, ZN) 25Ø NEXT A ZAØ SCORE(Ø,ZN)=SCORE(Ø,ZN)/EX 270 CALL CLEAR 285 NEXT ZN 29Ø CALL CLEAR 3ØØ FOR ZN=1 TO ST 310 PRINT "EXAM RESULTS FOR "; NAMS (ZN) 32Ø PRINT 33Ø FOR A=1 TO EX 34Ø PRINT TAB(10); SCORE(A, ZN) 350 NEXT A 360 PRINT 37Ø PRINT " AVERAGE" 38Ø PRINT 39Ø PRINT TAB(1Ø);SCORE(Ø,ZN) 4ØØ PRINT 410 PRINT "PRESS ANY KEY TO CONTINUE" 42@ CALL KEY(0,K,S) 43Ø IF 501 THEN 42Ø 440 CALL CLEAR 45Ø NEXT ZN 46Ø END

> set any problems We have not this month but intend printing the finished program complete with color and title screen next month.

> it's Well that's it for now 50 goodbye till next month.

> > ALAN FRANKS

```
SCR #90
  0
  1
     1 VARIABLE X
    : PROMPTS
                 PAGE
  3
                 ." Name
                            : " CR
                 ." Street :" CR
  4
  5
                 ." Suburb :" CR
                 ." Phone :" CR
." Category:" ;
  6
  7
  8
    : ZEROX
                 1 X !
  9
    : +X
                 1 X +! ;
                 9 X Q AT ;
 10
    : XY
 11
     : SMITH.T
                 XY . " 20 BROWN"
                                     +X
 12
                 XY ." THE MEADOWS" +X
                 XY ." 049 45678"
 13
                                     +X
                 XY ." FARMERS" ZEROX ;
 14
                 9 O AT ." NO ENTRY OF THAT NAME" ;
 15 : MSG1
SCR #71
  1 : SEARCH
              HERE
  2
              CONTEXT @ @ (FIND) DUP 0=
  3
              IF DROP HERE LATEST (FIND)
              THEN ;
  5 : ACCEPT
              9 0 AT HERE 8 GETS ;
  6 : VIEW
              ACCEPT
                                  ( accept request to HERE
  7
              SEARCH
                                  ( is it in dictionary 1=yes, 0=no )
  8
               IF
                                  ( if word already defined
  9
                DROP
                                  ( drop lengh byte
 10
                CFA
                                  ( convert pfa to code field addr )
 11
                EXECUTE
                                  ( execute that word
 12
               ELSE
                                  ( word is not already defined
 13
                MSG1 CONTINUE
                                  ( message/wait space bar press
 14
               THEN ;
              PROMPTS VIEW ;
 15 : @DATA
```

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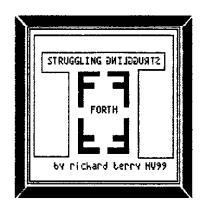
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Somewhere in the dim distant past I seem to remember I was aimost up to the article about the Dictionary of our Forth setup.

Well, this article, rather than being informative, is actually going to be full of questions to our international Forth Community somewhat of a PLEA FOR HELP in some aspects of the confusing ο÷ understanding Forth without teacher.

being the addictive orth language it is, I don't believe there isn't someone in one of the user groups overseas who receive our newsietter, who is not only well versed in Forth, but prepared to correspond with our Forth group. If such a person exists I'd like to make the following requests:

1.CORRESPONDENCE ON ANY FORTH PROGRAMS OF INTEREST

Z.HELP Īΰ UNDERSTAND misconceptions

ASSEMBLER SORT ROUTINES

4.LISTING/PROGRAM OF ANY FORTH it will execute independently. WORD

PROCESSOR comparable ŧο TI-WRITER

5.LISTING OF AN EDITOR OR DECIPHERING listed below.

A month ago I started to look actually use. in detail of the structure at the entries in the dictionary, as is well described in Brodie/etc. decided an interesting project would particularly be to harness the power of Forths thousands of clients with ability

existence ο÷ а definition, construct a program which would use the dictionary as a random address For example one might just book. to want store phone numbers/addresses of people for use within a program. If one entered surname as an actual Forth dictionary entry one could (FIND) to quickly find any entry irregardless of the fact it was not in alphabetic order. The body of word could contain the information one requires. For example:

: SMITH.P ----;

One could at the time definition enter the desired data into the definition or simply leave a blank block and add it later, defining the appropriate words to enable one to do so.

I wrote a little routine which will find and execute any existing dictionary word from user input WITHIN a program instead of as part of the program or in the immediate mode.:





A word of warning before you ioad 90,91 and use it. Its only set THE up for my definition. VIEW will PROBLEMS OF OF THIS FORTH DECOMPILER executed on its own accept any word or rather to straighten out our within the length indicated but as your word may depend on what's on 3.LISTINGS/PROGRAM OF ANY FORTH the stack or at other address's lits not wise to use it unless your sure

> Though this exercise may seem useless to many of you, I believe it AUTO-REPEAT could have enormous uses on a system "RKEY" as with larger memory which one may later move onto, taking ones Forth skills with one. Of course this is a crude version, not one you would:

As an extension of this it I I had another thought. my business to search the whole attendant data/financial records. dictionary/or vocabularies for the Again, from within a program one may

need to enter the clients name to obtain data. Sure, its possible to analysis starting letters to gain quick access to a basic record, but there are other methods. As well as for basic data contained ready reference in the definition as above, one could in one byte keep the starting record ΘŤ that particular clients file records on the disk in its BASIC file format. and jump instantaneously to that.

But all that's not really what I wanted to talk about.

Joe popped over the other day after me protesting the fact we needed more co-operation between the Forth members of our group. I'd just decided I might sus out the source code of the auto-repeat editor, not by using my brain power, but the easy way out: by using a Decompiler.

DECOMPILING FORTH CODE.

This is not a lesson how to, more a lesson how not to and an International Plea for help.

I've reproduced at the end the decompiler I'm using, which came from unknown sources with no acknowledgment of the Author. There was a note with it saying there was a bug in it but neglected to say where.

With eager anticipation I powered up, entered the EDITORI vocabulary and started to decompile. SWCHing the screen output to the printer before hand. Comparing the code with that of the standard EDITOR one finds it mostly similar except for the following definitions:

RKEY, which is presumably repeat key, some additional variables and constants you can see on VLISTING. W,X,Y,Z, and some minor modifications to the definition of BOX which I could decipher.

This introduced me to ØBRANCH AND BRANCH and the start of our difficulties. OBRANCH is compiled into the definition by IF, UNTIL and

When decompiling RKEY one gets:

```
C7F4 :
CZF6
     ?KEY
C7F8
     -DUP
CZFA
      BLINK
     OBRANCH 56
CZFC
C800
     Y var1
C802
C804
     1 const1
     Y vari
C806
C808
     + 1
CBOA
     OBRANCH 42
C80E Z var23
C810
     (a)
C812 Y var1
0814
      æ
C816
C818 OBRANCH 14
C81C W const5
C81E Z var23
C820
C822 1 const1
C824 Y var1
C826
C828 1 const1
      BRANCH 1E
C82A
C82E OK varF
C830
C832 OVER
C934
C836 OBRANCH A
C83A
      DROP
C83C
      0 canst0
C83E
      BRANCH A
C842 1 consti
C844
      BUB
C846
     Y var1
C848
C84A BRANCH 4
C84E 1 const1
C850
      BRANCH 12
C854 X const23
C856 Z var23
C858
CB5A 0 const0
C85C
      Y vari
C85E
C840
     BLINK
C862 0 const0
C864
      OBRANCH FF90
6883
      DHP
CB6A
      OK varF
C84C
      ij
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This introduced me to ØBRANCH AND BRANCH and the start of our difficulties. OBRANCH is compiled into the definition by IF, UNTIL and WHILE to perform a conditional branch. It expects a truth flag on the top of the parameter stack. If false(Ø), the offset to which the interpreter pointer points is added

;S

to the pointer to cause a forward of backward branching, otherwise, no is taken, and the code following the BBRANCH IS executed.

BRANCH, is compiled by ELSE, AGAIN, LOOP, +LOOP, AND REPEAT to cause an unconditional branch.

Sounds fine in theory, and in fact is easy to decipher in simple there will have logically see where the IF,s and THEN's should be. However anything more complicated such as RKEY becomes harder. In Theory one should be able to calculate using the offsets where the paired THEN's are but I must be doing something wrong and have a basic misunderstanding of the concepts because the offsets just dont't add On the printout, Joe pointed out that some addresses are missing ie they aren't all going up 2 bytes at a time, and that some of the offsets seem to fall on these hidden addresses:

In short: HELP HELP HELP HELP.

decompile simple definition:

> : CONTINUE BEGIN PKEY 32 = UNTIL ;

when decompiled is printed out as:

> CADS : CADA ?KEY CADC LIT 20 CAEO CAE2 OBRANCH FFF6 ; 5

ie BEGIN isn't there. The FFF6 presumably is for negative numbers meaning jump back & bytes if top of stack is zero ie in this case back to ?KEY.

Lets try another:

TEST IF ." OK" ELSE NOT-OK" THEN :

and decompile this:

The result at my terminal once it reaches ELSE is garbage iockup.

So, In the short period I've been fiddling with it I'll have to admit defeat. I hope someone out the time decompilations, where one can generosity to write and fill us in .

> ADDRESS FOR CORRESPONDENCE. RICHARD TERRY 141 DUDLEY RD WHITEBRIDGE 229Ø NSW AUSTRALIA PHONE Ø49 H:2245Ø/WK:436511.

screens start over page





ANCH our biled . and onai ig on Ι÷ h the ldded

```
SCR #104
  O ( FORTH RECURSIVE DECOMPILER-1)
  3 The top word RDCP, expects to be followed by the definition you
  4 wish to decompile.
  6 Press any key to decompile that word only
  7 Press q to quit at any time
  8 Press Enter to drop the process to the next lower level
 10 Placing a non-zero value in KEYSW permits continue operation as
 11 if <enter> was pressed throughout the Run
 12
 13 Author Unkown
 14
 15
SCR #105
  O ( FORTH RECURSIVE DECOMPILER-2) BASE->R HEX
  2 C VARIABLE GIN
  3 O VARIABLE BASESAV
  4 0 VARIABLE KEYSW
  5 0 VARIABLE RDFEN
  6 ' BL
             2 - @ CONSTANT CONST.ADR
  7 ' BASE
             2 - @ CONSTANT USERV.ADR
  8 ' GIN
             2 - @ CONSTANT
  9 : U.
             O D. ;
 10 : GBV
             OVER @ 2+ ;
 11 : 2+D
             2+ DUP ;
 12 : .G@
             0 4 D.R GIN @ ;
 13 : DIN
             CR DUP .G@ SPACES ;
 14 : GIN+
             CR OVER .GC 2+D GIN ! SPACES ;
 15 ~->
SCR #106
  0 ( FORTH RECURSIVE DECOMPILER-3)
  1 : GCHKTYP
  2
             CASE ' LIT
                            OF 1 ENDOF
 -3
                  BRANCH OF 1 ENDOF
                  ' OBRANCH OF 1 ENDOF
  5
                  ' (OF)
                            OF 1 ENDOF
                    (LOOP) OF 1 ENDOF
 7
                  ' (+LOOP) OF 1 ENDOF
 8
                  O SWAP
  9
             ENDCASE :
 10 : 1KEY
                                   ( pfa -- pfa c)
 11
             KEYSW @
 12
             IF ?TERMINAL
 13
               IF 51 ELSE DUP RDFEN @ UK
 14
                 IF BL ELSE OD THEN THEN
 15
             ELSE KEY THEN ;
                                                          -->
```

```
SCR #107
  O ( FORTH RECURSIVE DECOMPILER-4)
  2 : GCHK
             1
                                  ( pfa --- pfa [altered]
  3
           CASE GOV ' COMPILE =
              OF 2+D @ Z+ NFA ID. ENDOF
  5
                 GOV GCHKTYP
  6
              OF 2+D @ SPACE U.
                                  ENDOF
  7
                 GOV ' (.") =
  8 OF 2+D COUNT TYPE DUP C@ 1- + ENDOF
 9
           ENDCASE 2+ -2 GIN +! ;
 10
 11 : CK:
                                 ( pfa --- pfa f
 12
          DUP CFA @ ' : CFA @ = ;
 13
 14
 15
SCR #108
  O ( FORTH RECURSIVE DECOMPILER-5)
  2 : DISTYPE
                                 ( nfa ----
  3
      DUP C@ 40 AND
  4
  5
       IF ." [COMPILE] " ID.
        ELSE DUP ID. PFA CFA DUP @
          CASE CONST.ADR OF ." const" EXECUTE
  7
                                               U. ENDOF
  8
                 VAR.ADR OF ." var" EXECUTE @ U. ENDOF
  9
               USERV.ADR OF ." user" EXECUTE @ U. ENDOF
 10
               DROP
 11
          ENDCASE
 12
        THEN ; -->
 13
 14
15
SCR #109
  O ( FORTH RECURSIVE DECOMPILER-6)
  1 : (GOESINTO)
                                 { pfa --
       IF 2- DIN ." :" 2+D NFA C@ 40 AND
  2
  ₹
         IF . " IMMEDIATE" THEN
           BEGIN DUP @ DUP ' ;S CFA =
  5
                  OVER ' (; CODE) CFA = OR O=
  6
           WHILE
  7
                  2+ GIN+ DUP NFA DISTYPE
  8
                  IKEY CASE
 9
                  51 OF SP! BASESAV @ BASE ! QUIT
                                                     ENDOF
 10
                   D OF MYSELF
                                                     ENDOF
                  55 OF DROP DROP R> DROP -2 GIN +! ENDOF
 11
 12
                  DROP ENDCASE GCHK
 13
           REPEAT CR
 14
                  GIN @ 6 + SPACES 2+ NFA ID.
 15
           THEN DROP ; -->
```

SCR	#110				
0.0	(FORTH	I RECL	RSIVE DE	COMPILER	-7)
1.					
2	: RDCP		BASE @ BA	ASESAV !	HEX
3			-FIND		
4		IF	DROP O G	IN ! CK:	
. 5			IF (GO	ESINTO)	
6			ELSE NFA	DISTYPE	
7			THEN		
8:		ELSE	." Not is	n Dictio	nary"
9		THEN			
10		CR E	ASESAV @	BASE !	;
11					
: 12					
13		HERE	RDFEN !	R->BASE	; S
14					
15					

The Serial Board Option

With a hardware set-up that section consists of various stand-alone instructions peripherals, the 32K 'Matchbox' memory expansion and the 'PBUFF' persist. Some test equipment may be Printer Buffer (see my article in the November 1986 issue frequency of this fine publication),I limited Therefore anything that can cut down should prevent any problem caused by the space and the resultant tangle purchasing chips which are too slow

As I have both Axiom. äП parallel printer interface AND a PBUFF Serial Board option as a Schubert RS232/MODEM,I figured that building gone a way towards helping clear the Don McKenzie's Serial board for the clutter on my desk. The rest will be PBUFF would allow me to eliminate sorted out when I complete the the Axiom and it's associated Budget PEB project. From a useage cabling.

expanded PBUFF i≤ 'piggy-backing' the optional subassemblies unto the main PCB via a series of male and female header

pins mounted offset to each other and on opposite sides of the PCB's. This allows you to expand your 'bare bones' FBUFF as and when you need to without too much drama. This system allowed me to add Serial-Parallel, Serial-Serial and Parallel-Serial computer-printer options to my PBUFF for <\$40.00. It also allowed me to eliminate the Axiom parallel interface from my rapidly-shrinking desk. (Anyone want to buy a the Axiom?)

The PBUFF Serial Board option is very versatile, since it allows the above-mentioned computer/printer options with selectable Baud rate (from 75 to 19200), selectable data format(from 5 to 8 bits),1 or 2 stop bits,and EVEN,ODD or NO parity.Each is selectable via links on PCB, but the extra effort required to fit switches would result in an even more versatile unit.

with the main PBUFF, the A5 Short- form Serial Board consists of a PCB, circuit diagram and detailed instructions.ine pretty construction is straight-forward, and the set-up and test instructions are excellent. The 'It Doesn't Work' section of the PBUFF's instructions pretty main well covers the majority οf construction-caused problems that you may encounter and the in the Serial Board's outlines checks to be carried out if problems previous required if you cet a clock problem,but careful am reading of the instructions BEFORE in desk space. you set out to buy your components of mains leads sounds good to me. for the unit's operating frequency.

In summary, I would describe the stand-alone worthwhile project, and one which has point of view....NO PROBLEMS.....except maybe remembering To digress slightly, I didn't to enter RS232.DA=8.DA=9600 after mention in my previous article that years of PIO or AXIOM as the printer by command.

GEOFF WARNER

have the pho moni

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4) 5)

6) 71

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Adventurers¹ Corner

with "the adventurer"
rodney gainsford

* ADVENTURE NEWS FLASH *

ZURK I, ZURK II and ZURK III have been solved! Yes, solved! Over the holidays, after many lengthy phone calls we have done it! This month we have:-

- a) The solution to the Royal Puzzle.
 b) A list of treasure and objects
 with their use.
- c) A point summary for ZORK III.
- $\hat{\mathbf{d}})$ A description of ZORK's I, II and III.
- e) A list of spells from SORCERER.
- f) One step towards the solution to THE COUNT.

Due to a lack of room there will be no map this month, but stay tuned, next month there will be maps to both ZORK II and III!

Don't forget to keep those hints rolling in:

One Solution to the ROYAL PUZZLE

- i) Down
- 2) Push east wall
- 3) West
- 4) Push south wall
- 5) East
- 6) South east
- 7) North east
- 8) North
- 9) Push east wall
- ið) South west



- ii) South
- 12) Push south wall
- i3) Get book
- 14) Push south wall
- 15) Push west wall
- ió) South
- 17) Push east wall
- 18) North east
- 19) North east
- 2週) North
- 21) North
- 22) Push west wall
- 23) North West
- 24) Push south wall
- 25) Push south wall
- Zó) Push south wall
- 27) Push east wall 28) South
- 29) Push west wall
- 30) South west
- 31) Push north wall
- 32) Fush north wall
- 33) North east
- 34) Push west wall
- 35) South west
- 36) Fush north wall
- 37) Push north wall
- 38) North west
- 39) Up



ZORK III

TREASURES

WHAT
Gold statue Dragon lair
Portrait Chairman's office

\$2ØØ in Zorkmids Vault

Small gold key Received from Princess

Coin Small ledge

Rare stamp In library's purple book Grown In dusty room's chest

Ruby Lava room

Violin In steel box on carousel

Pearl necklace Fearl room

ZORK II

OBJECTS

WHAT USE. Lamp Light - finding hidden door Teasing dragon, breaking aquarium Sward Blue sphere Making black sphere :: 22 Red :: Clear :: :: . Black Summoning demon Carry water for well Teapot Nice, but nothing! Red rose Sliding under dreary room door Flacemat Letter opener Pushing out key Opening dreary room door Key Matches Lighting papers & string making hot air for balloon Newspaper String Fuse for explosive brick Brick Explosive for box Green cake Shrinks you when eaten Biue ** Restores normal growth Řèd Absorbs water Ürange " Explodes if eaten Fiask Not usefui Candy Feed to lizard Robot Pushing buttons & lifting

Tames dog

POINT SUMMARY - ZORK III

Home plate, breaking aquarium

Rare stamp in purple book

Good for a fel moves

- i. Getting to chest
- Pieeting shadowy figure
- 3. Attacking shadowy figure
- 4. Entering lake

Collar

Books (4)

Grue repelient

- 3. Rubbing table
- 6. Pushing wall in puzzle
- 7. Time travel to 776

DESCRIPTION OF GAMES

ZORK I

You start near a deserted house, over a huge and wonderous undergroung cavern. Nineteen treasures await discovery, but are well

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Ami

mai mai Get hidden by the expansive and novel-like text descriptions of the dam, coal mine, lake, chapel and even the Gates of HELL!! Along the way you will meet a testy Troll, an evil thief and a hungry Cyclops.

ZORK II

You start where ZURK I left off. Another 400 points and ten more treasures will test your imagination and logical abilities to the limit. You'll encounter a dragon, a unicorn, a Princess, a baby sea monster, a huge dog and a powerful demon. On top of this, the wizard of Frobozz almost endlessly torments you. You may contend with lots of objects, a riddle and a hot air balloon from which you may even catch a glimpse of the white house where all this started.

ZORK III

Armed only with your trusty lantern you only have to round up seven points. You obtain them by accomplishing specific tasks, likemastering the Time Machine, from which you may even glimpse the fabled Lord Dimwit Flathead himself. But the seven points are only half of it!! The real game lies ahead of you. Why are you here and what is the meaning of all that you survey???? You can find out when all the treasures of Zorkdom, including a controlling interest in Frobozz Co International are at your disposal.

THE SPELLS OF THE SURCERER

SPELL	DESCRIPTION	<u>LOCATION</u>
GNUSTO	Write a magic spell into the Spell Book	Spell book
VEZZA	View the future	Spell Book
PULVER	Cause liquids to dry up	Spell Book
IZYUK	Fly like a bird	Spell Book
NIMOY.	riind probe	Spell Book
REZROV	Open even locked or enchanted objects	Speli Book
FROTZ	Cause something to give off light	Spell Book
MEEF	Cause plants to wilt	Library
GASFAR	Provide for your own resurrection	Helistar's Room
AIMFIZ	Transport to someone else's location	Trunk
FWEEP	Turn caster into a bat	Hidden cave
SWANZO	Exorcise an inhabiting presence	Chimney
YONK	Augment the power of a certain spell	Cannon
MALYON	Bring to life inanimate objects	Arcade
GOLMAC.	Travel temporally	Siant room
VARDIK	Shield mind from an evil spirit	Slant room
1		

POTIONS OF THE SURCERER

COLOR NAME DESCRIP	1.1011	<u>LOCATION</u>
Indigo vial Flaxo Exquisi	need for breathing te torture to see in dark places	Store room Mail box Torture chamber Hidden cave Flag

GETTING STARTED WITH THE COUNT

On route to dungeon, enter and raise the dumb waiter. Go room. Get matches & garlic. In dungeon. Tie sheet to ring. Climb sheet. Light match. Get torch. Climb and untie sheet. After bell rings, go outside. Get clip. Drop note.

rous weli

ELECTRIC CIRCUITS

PART I

by PAUL MULVAMEY

This is the first part of a series of operating circuits. Originally designed as an introduction to circuit reading for junior apprentices in industry. The idea was to present a dynamic operating circuit rather than a static drawing. It allows the controlling elements to open or close as they are operated and shows the current flowing from the active to the neutral. The light circuit in this program is the simplest and easiest circuit to follow. The character redefinitions at the start of this program are more than is required for the part I circuit but will save adding extras for the next few circuits. The code for the next circuit will be able to be added to this program with only minor changes to the original code.

100 CALL CLEAR :: CALL SCREE N(15)

110 : 120 REM REDEFINING CHARACTER 5 AND COLOURS

130 1

140 A\$="FFFFFF0707070707" ::

150 CALL CHAR(97,RPT%("07",8)):: CALL CHAR(98,B%):: CALL CHAR(104,B%):: CALL CHAR(11 2,"03070E1C3870E0C0")

160 CALL CHAR(105, RPT\$("C0", 8)):: CALL CHAR(106, RPT\$("03",8)):: CALL CHAR(136, RPT\$("00",8)):: CALL CHAR(137, RPT\$("03",8))

170 CALL CHAR(107, "183C7EE7C 3C1C0C0"):: CALL CHAR(108, "1 83C7EE7C3830303"):: CALL CHA R(138, "183C7EE7C3C1C0C0")

180 CALL CHAR(100, "071F3F7CF 8F0E0E0"):: CALL CHAR(101, "E 0F8FC3E1F0F07077"):: CALL CHA R(102, "E0E0F0787C3F1F0F")::

CALL CHAR(103, "07070F1E3EFCF 8F") 190 CALL CHAR(99.A+):: CALL

190 CALL CHAR(99,A4):: CALL CHAR(1109,A4):: CALL CHAR(1109,RPT4("007",8))

ZØØ CALL CHAR(33,"Ø71F3F7CF8 FØEØE"):: CALL CHAR(34, "EØF8 FC3E1FØFØ7Ø7"):: CALL CHAR(3 5, "EØEØFØ787C3F1FØF"):: CALL CHAR (36, "Ø7Ø7ØF1E3EFCF8F") ZiØ CALL CHAR(IZØ,RPT\$("EØ", 8)):: CALL CHAR(121,84):: CA LL CHAR(128, B+):: CALL CHAR(139, "183C7EE7C383Ø3Ø3") 22Ø CALL CHAR(37, "CØCØC"):: CALL CHAR (38, "Ø7Ø7Ø7") 23Ø CALL CHAR(4Ø,RPT\$("FØ",8)):: CALL CHAR(41,RPT+("FØ", 8)):: CALL CHAR(42, "Ø"):: CA LL CHAR(43, "Ø") 24Ø CALL CHAR(96, "CØCØC"):: CALL CHAR(122, "Ø3Ø3Ø3") 25Ø CALL COLOR(9,10,1,10,5,1 ,11,3,1,12,2,1,13,7,1,14,11, 1,1,5,1)

260 !
270 REM LIGHTING CIRCUIT
280 !
290 DISPLAY AT(3,4): "SIMPLE
LIGHTING CIRCUIT"
300 FOR L=1 TO 2 :: READ R,C,K,T :: CALL VCHAR(R,C,K,T):
: NEXT L
310 FOR L=1 TO 13 :: READ R,C,K,T :: CALL HCHAR(R,C,K,T)
:: NEXT L

320 DISPLAY AT(20,6): "PRESS I TO SWITCH ON" .: DISPLAY A T(ZZ, 6): "PRESS Z TO SWITCH O 33Ø DISPLAY AT(24,6): "PRESS 9 TO END" 340 : 350 REM LIGHT CIRCUIT DATA 360 : 37Ø DATA 6,4,97,12,6,29,12Ø, 12,12,5,98,3,12,10,104,14,12 ,25,122,1,12,26,121,3,11,8,1 12,1,10,9,112,1 380 DATA 12,24,37,1,11,24,10 5,1,10,24,107,1,10,25,106,1, 11,25,106,1,6,6,65,1,6,27,78 , i 390 3 400 REM SWITCH LIGHT 'ON' 4iø : 42Ø CALL KEY(Ø,N,S):: IF 5=Ø THEN 420 :: IF N=57 THEN 63 Ø ELSE IF N<>49 THEN 42Ø 43Ø FOR L=1 TO 9 :: READ R,C ,K,T :: CALL HCHAR(R,C,K,T): : NEXT L :: RESTORE 600 44Ø CALL MAGNIFY(4):: CALL 5 PRITE(#1,40,15,72,1,0,30,#2, 40, 15, 72, 72, 0, 30) 45Ø CALL SPRITE(#3,4Ø,15,72, 144,0,30,#4,40,15,72,216,0,3 (ت 460 : 478 REM LIGHT 'ON' DATA 480 :

490 DATA 10,9,32,1,11,8,32,1
,12,8,128,2,12,10,78,14
500 DATA 12,24,96,1,11,24,13
6,1,10,24,138,1,10,25,139,1,
11,25,137,1

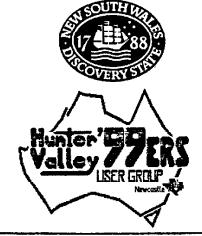
510 !
520 REM SWITCH LIGHT 'OFF'
530 !
540 CALL KEY(Ø,N,S):: IF S=Ø
THEN 540 :: IF N=57 THEN 63
Ø ELSE IF N<>50 THEN 540
550 IF N=57 THEN 32767 ELSE
IF N<>50 THEN 540
560 CALL DELSPRITE(ALL):: FO
R L=1 TO F :: READ R,C,K,T :
: CALL HCHAR(R,C,K,T):: NEXT
L :: RESTORE 490 :: GOTO 42

57Ø :
58Ø REM LIGHT 'OFF' DATA
57Ø :
6ØØ DATA 11,8,112,1,10,9,112
,1,12,10,104,14,12,8,32,2
61Ø DATA 12,24,37,1,11,24,10
5,1,10,24,107,1,10,25,108,1,
11,25,106,1

620 ! 630 DISPLAY AT(12,5)ERASE AL L:"MORE NEXT MONTH" 640 END

Find yourself.
Or lose yourself in the

The Premier State



This article appeared in February issue of TISHUG News Digest, the magazine of the Sydney TI Users Group, and was written by Steven Shraibman.

I am sure that most of you have bought a program by the mystifying | you type in DSKn. ie without a name of MAX/RLE from the club shop filename, you will get a catalogue most of impressed additional ο÷ pictures disks available.

Well. going back to the beginning, RLE stands for Run Length a) a Graphx file Encoded, something that I am sure is b) a TI-Artist file quite meaningless to most people. C) a DIS/FIX i28 file To put it simply, RLE is a standard d) a DIS/VAR 80 file protocol that can be used to describe colour) on all different computers.

This means that one file is suitable to describe a hi-res screen on all computers, all you need is the program to translate the file into a picture, in the TI's case this is MAX/RLE.

This of course means that all upper or lower case. those great digitized pictures were most likely NOT to have been made on Here is a list of the colours:a TI. (However all your friends with Crummydores don't know that, & we won't tell them, will we?). But RLE does not only mean digitized pictures, it can be any hi-res screen, whether from BASIC, Assembly Language or a drawing program such as Graphx or TI-Artist.

iriost of these pictures are found on Bulletin Boards across America, literally in their file thousands. (There is a floating around that lists just some of the pictures available on a few of the BB's in the US.

To get these files off a BB in America all you have to do is download with XMODEM protocol (and pay an ISD fortune!).

The other bonus of this being a transferring standard protocol is that one can | TI-Artist and Graphx, and back. transfer pictures between different

computers direct. I believe Arty (Arto Heino, a member of TisHUG) is working on programs to connect our computer with some other computers such as the Apple and the Amiga.

Anyway, getting into tne MAX/RLE program itself, there some functions that many people will not be aware of.

First, from the main menu, if recently and I am equally sure that of disk drive n. Obviously if you you have been quite type in DSKn.FILENAME you will load with it and on the the file FILENAME from disk n.

> above that, the program will load in four types of files:-

hi-res screens (without | (N.B. for TI-Artist, it must be from VZ.8 & don't type in the _P or _C)

> Now that you have the file on the screen what can you do? Well, quite a bit. First, if you type the keys Ø to 7 and A to F will change the foreground and background colours, depending on if you are in

KEY	COLOUR	KEY	COLOUR
(قو	transparent	1 !	black
2 é	med green	3 #	it green
4 🕏	dark blue	5 %	it blue
6 ÷	dark red	フ を	cyan
ĕ ¥	med red	9 (it red
аÀ	dk yellow	b B	lt yellow
c C	dk green	d D	magenta
еE	gray	÷ F	white

Pressing P will print out the screen to an Epson compatible printer.

Pressing S will save the file in the four above mentioned formats. To alter the format, just press the space bar.

Not only is this handy on its own merits, it's just great for screens between

0 'n b P P W t t O i 0

Finally, pressing (ENTER) will return you to the menu ioadi another picture.

Quite a handy package indeed. yours now from the club library for the usual small copying fee.

(20. 20. 20.

from brian rutherford

for business letters, I have set up when it's miller time. commands, margins and indents, plus have friends of both sexes. "DATE", as I am always forgetting to usually referring to a type it in. After using this system intelligence. while, I realised that aithough I had a copy of each letter on disk, I did not know when they had been written, as the date had been input from the key board when So I started to keep a counter. print out. hard copy of the letter as well, CHARACTER DENSITY - The number which I wrote on the copy by hand. After using this method for a while club. another defined prompt "COPY?". Now no longer in vogue, except in Iran. through the fomatter, the first copy five days, accompanied that prompts "COPY?", I press ENTER throat, runny nose and fever: for a null string and on the second COMPILE - A one I type in COPY and the file name vegetable matter. I saved the file under, so when I CPH - A juvenile way of telling your look that letter up I also know what dog has missed the paper. name I called it. Below is a copy| of the file I use.

> .DP 1:COPY? **#1#** .DP Z:DATE .FI;AD;LM 8;RM 72 .IN +4i B. Rutherford 9 Bombala Street Dudiey N.S.W. 229Ø Australia. Ph. (Ø49) 498184 *2*

THE INCOMPLETE AND ABRIDGED COMPUTER TERM LEXICON

This article originally appeared in the Washington, DC "Gazette" of July i3, i783, and came to us via Staves, the newsietter of the Sait Lake &

Valley 99er Users Group. APPLE - Typically a device used to seduce men, usually equipped with display screens and/or worms. Using the word processor mostly BAR CHART - A list of places to go a file with all the formatter BINARY - Possessing the ability to address and a defined prompt BUBBLE MEMORY - A derogatory term, person's See also vacuum tube'. BUG - Small living things that small living boys throw on small living girls. CARRIAGE RETURN - The prompted for in the middle of the returning a vehicle to the rental very weird people in your computer I came up with the idea of including CLOSED LOOP - A method of execution

when the letter is being printed out CODE - Usually lasts about three to bУ head of decomposing

CRT - A movie about a little alien who forgets his telephone number and must write nome.

CURSOR - An expert in the use of four letter words.

DEBUG - The act of placing leather against a small creeping creature.

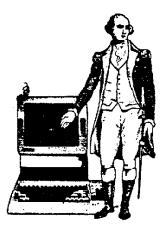
DOWNTIME - Title of a love song popularized by Petula Clark.

ERROR - Something only humans can commit.

FIFO - A cute name for a dog.

GIGO - A movie industry acronym referring to the numerous Gidget Goes XXX movies, eg GIGO Hawaiian, GIGO Surfing, etc. etc.

. IN +E



VACUUM TUBE - A derogatory term.

See 'Bubble Hemory'.

"Would I lie to you?

PRESS RELEASE

from A. Kieinschafer esq.

NEW ANTIVENOM DEVELOPED

HEGAHERTZ - A very large car rental Another major breakthrough by CHAOS MANOR has been in the development Commonly for an ANTIVENON for the FUNNELWEB modem (Atrax Robustus) genus T. & W. McG. It has been given the tradename CHANTIFUNN.

talk PRODUCT INFORMATION

a kit with the following contents. i box Campfire Hatches iZ assorted cans of XXXX

treatment of patients with systemic envenomation by the genus T. & W.

CONTRA-INDICATIONS None.

PRECAUTIONS

Severe cases of envenomation should be managed with extreme caution. There is no information on the safety on the antivenom in pregnancy and it should be used only when the expected clinical benefits outweighs the potential risk.

ADVERSE REACTIONS

adverse reactions have been observed so far.

MANAGEMENT OF A CASE INCLUDING DOSAGE AND ADMINISTRATION.

SIGNS AND SYMPTOMS.

The presence of any of the following indicate that significant envenomation may have occurred.

- i Bulging and bloodshot eyes.
- Z Red and sore finger tips.
- 3 Hypertension in a previously normotensive patient. Confusion or depressed level of

consciousness.

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FIRST AID TREATMENT.

CASUALTY MANAGEMENT.

61Ve 375 MI of XXXX and observe for BEEN MODIFIED SO THAT THE PROGRAM two hours, then, if stress is still CALLING DEVICE NAME CAN BE SELECTED apparent give another 375 M1 of XXXX FROM P10, AXIOM OR RS232 JUST BY THE and observe for further two hours. FLICK OF A SWITCH. If no symptoms present release rope I DON'T DO TRUE LOWER CASE DESENDERS and administer another 375 Ml of SEE--> gggg, BUT I PRINT QUITE XXXX, observe for further two hours RESONABLE TEXT. I WILL WORK WELL then let patient return home. If the symptoms remain treat as a MINI WORD PROSSESOR.

MANAGEMENT OF A CASE OF DEFINITE

case of definite envenomation.

ENVENOMATION.

With the patient fully restrained collect all documents and disks PS. I am available for viewing at contents of the sealed bottle marked with him soon! KEROSINE collected on ali paraphernalia and light with the matches, at the same time administer all the XXXX the patient seems to need. The possibility of delayed serum mickness should be borne in mind and short term oral doses of coffee may be required.

NOTE:

Patient is a vomiting hazard.

GENERAL TREATMENT.

Due to shock some or all of the following therapeutic measures may be indicated.

- i üxygen.
- 2 Muscle relaxants (XXXX).
- 3 Sympathetic blockade.

OVERDOSE.

No information available.

STÜRAGE.

Store in a well ventilated area, away from any persons that may suspect that they are being watched for envenomation. The XXXX should be stored refrigerated at approx 8°C. WARNING the XXXX is addictive so keep locked against addict abuse.

For further information on CHAOS products contact (XIN-XINGERI(RR)

*** FOR SALE ***

Immediately tie the patient down HI !! I AM FOR SALE, I AM A firmly. SEICKHOSHA 8" PRINTER, I COME COMPLETE WITH AN AXIOM INTERFACE, HAVE HAD A POWER SUPPLY BUILT IN TO DRIVE THE AXIOM AND THE AXIOM HAS

WITH EITHER FUNNEWEB OR BRIAN R'S

I AM PRICED AT \$198.88 . DÜES AYONE WANT TO GIVE ME A GOOD HOME??.

RON KLEINSCHAFER.

where the ATRAX lurks, empty the Al Lawrence's place, so get in touch

FOR SALE

TI.-BITS & PIECES

- * TI. Exp Box 32k card \$5Ø
- * TI. Multiplan module \$40
- # TI. Chess Module ---- #15
- * TI. Speech Synthesizer-¥5Ø
- * Assorted other modules

CONTACT: -

VIV BRUNNER él Broughton Rd. KEDRON - QLD. 4031

Phone > Ø7-8574829 VIATEL> 78574829Ø

or Contact - The Secretary **HV**FFers ó Arcot Cí. TARRO - NSW. 2322

for further details.

HUNTER VALLEY 99'ERS USERS GROUP .

LIBRARY SOFTWARE GUIDE

ADDRESS LABELS. (ADDREADEL)

Input information at the prompts to print address labels.

COMPACTOR.

Compresses the line numbers from a merge format file program.

COMPRES.

Object file compressor. The information is not in English.

DISKLABELER. (DISKLABLE)

Print labels for your disks. Alter lines il@ and 240 to your printer specifications.

ELECTRONIC TYPEWRITER (ELEC/TYPER)

Provides you with the features of aan electronic typewriter. To edit etc,

FCTN 5 moves the cursor to the left,

FCTN D moves the cursor to the right,

FCTN 3 deletes an entire line,

FCTN 2 inserts a space for adding an extra character,

FCTN i deletes a single character.

MEGA-MONSTER. (MEGA-MONST)

Hit the monsters using the joysticks and score points. There are 4 levels of advancement and 3 skill levels. Each level has 6 sets of monsters.

PROGRAM LISTER. (PRG-LISTER)

Provide yourself with a list of programs and their programmers. The programming language can also be included. Sort by alphabetic title or programmer.

PRINT-DV8Ø.

Prints DIS/VAR 80 files and gives you the option of deleting the file when it has been printed.

SHRINK.

This program condenses a program by:-

- i) Removing all the REMarks.
- 2) Shortening the variable names.
- 3) Replacing the number "i" by the symbol &.
- To get the instructions LIST the program and read from line $iar{
 u}ar{
 u}$ to 529.

O

TEXTWRITER.

This is a seventy line wordprocessor program.

TITAN.

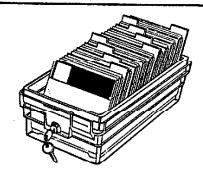
Control a Titan rocket with up to 6 stages.

MAGELLAN VOYAGES. (VOYAGE)

You can recreate the voyage of Magellan by selecting from the options provided.

WORD POWER 3. (WORDPOWERS) (SPEECH)

From "It Pays To Enrich Your Word Power" in the Readers Digest.



SOFTWARF LIBRARIANS NEWS

BY AL LAMBENCE

HI PPTers.

Welcome to what we hope will be a great Year for us all. If you month by a different MEMBER of the have made any resolutions, I hope one club as in the past. So when asked of them is to help your User Group to do a review, try to get it in for survive as the news is a lot of the ist Tuesday to the EDITOR at the changes are going to take place in Committee meeting. 787.

Cor-Comp has gone, now only MG will, on request, make and Myarc are left to SUPPORT us programs if you see me at the USERS. IMAGIC has left the meetings. Australian market after they had tried to push a few items аt inflated prices to what they had New thought was a captive group of TI users (at least TEX CoriF dumped their goodies at prices so low that | fans - Rei 3 of 699 Compiler.Clint only the falling Ap beat). They Pulley's 2 DS/SD or 4 SS/SD disks. never did reply to any of the I have not had time to review this. requests to come to Demo at our raybe someone who is interested will meetings.

One item that I think exciting rumoured to be putting together an menu. Interface to make the T199/4A an IBM compatable machine, which would be a fine way to upgrade - even if it is expensive it would have to be cheaper than a new IBM.

CASSETTE TAPES

---- AND ----

DISK OF HONTH

As the demand for tapes has not been great the last 6 months or so. I can only assume that most of the club has upgraded to disk now. it involves a lot of time to sort and make a master copy, then make a copies of it, from the FEB meeting, any persons requiring tapes can order them for the next meeting. They will contain, as near as possible, the same programs as the Disk of the Month. If any programs are disk only then another program will replace it.

The Disk of the Month

This will be reviewed

32k consol with tape only? I any

Fairware

Just arrived for all do so (or start a class!).

Labelprint D.Batey/K.Herbert of is MG and a large U.S.A. company is Texas. This gives 3 choices on list

- i. Address lable.
 - Disk lable.
- ž. 3. Design lable.

Then next menu has list of further options to choose from. This is the best one I have seen and is worthwhile to add to your Utilities.

Forth? Consol with 32K and only cassette? Then this V2.Ø from Sweden is what you need to keep R.Terry same and off my back. More info at next Meeting.

关关关关 丁工关时巨马 关关关键

It is sad to report that as from May TI99/4a EXCHANGE will be no more. But a new UK User Group is to be formed if they can get enough PERSONS interested to get it under way and a new editor to ensure the continued publication of the MAG.

A big thanks to Clive and Audery for all the support they have given to the TI Users, and all the hard work and effort they put into the last 4 years of editing TI*MES.

A big plus to them was that it was all NON PROFIT and I think they got a lot of satisfaction from doing it, which is what we got from reading it.

We wish them all the best in the future in whatever they do and we THANK YOU BOTH for your help to the ORPHAN.

Which reminds me a lot of support from our own members will soon be needed as AGH time rolls near, so a think about how you can help keep the HV79 ers banner flying high.

All the Club Software is available on Demand. \$4.00 P/P

Keep on Computing.

Al Lawrence.

FOR SALE PE.SYSTEM

TI.- CORCOMP 9790 MINI SYSTEM System includes:-

- * TI-99/4A console with XB.
- * Full Corcomp 9900 mini PE.
 - DSDD disk controller
 - RS232 card (RS232/PIO)
 - 32K memory expansion
- # 2 only Mitsubishi DS Drives with power supply.
- * i only AMUST DTiØØ Printer(PIO)
- * Speech Synthesizer
- * Assorted other TI.Hodules

ALL BOXED AND FREIGHTED

サ12220.n.c.

CONTACT: -

VERN TAYLOR c/o Radio Australia DARWIN - N.T. 5790

Phone > Ø89-27Ø73Ø

or Contact - The Secretary HV97ers 6 Arcot Cl. TARRO - NSW. 2322

for further details.

WANTED

MICROPAL XB CARTRIDGE

CONTACT: -

JOHN PAINE 19 Janet St. Mt.DRUITT - NSW. 2778

Phone > $\emptyset Z - 81972 \emptyset \emptyset$ or through TIsHUG Australia