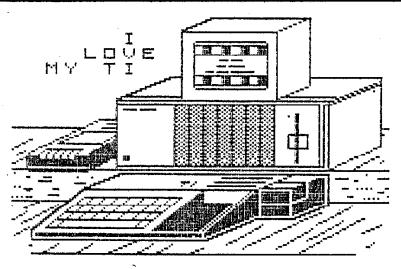
HUNTER VALLEY 99ERS USERS GROUP

HOME GOMPOTER ZEWSLETTER









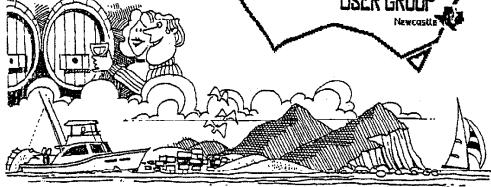
JUNE 1988











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Members and non members are invited to contribute articles for publication in HV99 NEWS.

Any copy intended for publication may be typed, hand written, or submited on tape/disc media as files suitable for use with TI Writer (ie. DIS/FIX 80 or DIS/VAR 80). A suitable Public Domain word processor program will be supplied if required by the club librarian.

Please include along with your article sufficient information to enable the file to be read by the Editor eg. File Name etc. The preferred format is 35 columns and page length 66 lines, right justified.

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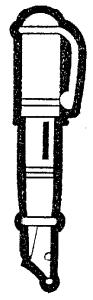
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PRESIDENT'S



with Paul

Mulvanes

With the annual general meeting upon us. this marks the final President's Pen column from me. will not be seeking position on the committee as I have enrolled at the technical

college and have class nights of Monday and Tuesday which effectively preclude me from an active role in the group. I am not abandoning the group and look forward to the special interest afternoons etc.

like would to take opportunity to thank the outgoing committee and all the group members who have helped me during the last twelve months. In particular would like to single out Albert Anderson for the tremendous jab he has done as Secretary and Brian Woods for the sterling effort in compiling the newsletter each month. During the month I attended World Expo 88 in Brisbane, a bewildering array of high tech entertainment from around the world. If the expo is an indication of the way the computer world is going then someone will have to develop touch screen control so our TI can stay with the field. I guess there will be a flood of IBM computers on the market when expo closes; Get your latest model computer lovingly pre-tested by 50 million grubby fingers!

While in Brisbane I and six HV99 members represented the group at the Brisbane User Groups TI Faire. Congratulations to Garry Christensen and his group for turning on a top The Geneve computer and the 99 keyboard enhancement were demonstrated, Inscebot and Asgard software and Micropendium magazines were available. It was heartening to see the overseas suppliers recognising local groups.

Other groups . represented Sydney, Melbourne, Adelaide and Coffs Harbour. Special thanks to members Tony McGovern, Joe Wright Richard Terry for releasing programs for the Faire. Tony came up with version 4.1 of Funnelweb, the configuration has been easier by pull down menus or windows - as Tony said "The orphanage now has windows." Joe's Genealogy program is a winner, far surpassing anything else available. Richard's cheque and credit card record keeper provides a handy reference for where your money has gone. It is good to see our group contributing to the survival of the TI community.

HELP US TO HELP YOU

What would you like the Group to do for you over the next 12 months?

What sort of articles do you want to appear in YOUR newsletter?

Would you like tutorials on some of the software available from the Group's library?

Would you like more social activities organised? What sort?

What sort of things should we have at the Monthly Meetings? More demos? What sort? More discussion time? Any other suggestions?

Any suggestions, ideas, criticisms (constructive or not) are wanted NOW. Get in touch with the Secretary if you have ANY ideas.

SECRETARYS REPORT



ALBERT ANDERSON FROM

Hello once again to our readers wherever you may be as we head further into the southern winter. What better excuse to head north for temporary reprieve than TI-Faire... that's just what 20 so devotees of the 4a User Group fraternity from Newcastle, Sydney, Melbourne and Adelaide did on the weekend of May 21.

On behalf of the members of HV99 I would like to sincerely thank the members of the Brisbane Users Group(TIBUG) and in particular Gary for providing the Christensen opportunity for these people to get together in one place and freely opportunity exchange information on a person to person basis. I would also like to thank our Chas Bagley(HV99 member from Brisbane) who provided us the use his system for the day. After being torn from its home in Algester it had boards and modules stuffed in and out of it all day, it was force fed disks from all directions and did it hic-up not ance complain... nor did its owner.

Elsewhere in this issue there is a many comprehensive review on the Faire from Pete Smith but there are a couple of things that I would like to go on and mention with relation to HV99's input HV99 to it. members, Richard Terry, Joe Wright and Tony & Will McGovern went to a up and take a bow gentlemen as these meeting... is that crazy or is it

greatly received by all at the were Due to time limitations it show. possible Richard's demonstrations αf Cheque/Card Management System or Joe's Genealogy program however overviews of these were given as the various people purchased the disks. As part of the venue John Paton was asked to do a tutorial on up-dates of the V4.1 Brisbane Faire release FUNNELWEB. John has never this sort of thing before however due to his knowledge and with confidence Funnelweb he provided us all with an excellent tutorial on this amazing piece of software. The new CONFIG program and John real dazzler a presented it with equal gusto... Ι heard that just days before Faire John had found a couple of bugs during his very thorough beta testing of 4.1 and with lots and lots of fix here and patch there and "there go and try that", Tony was able to give John the release able version the night before the Faire. In my opinion, Tony could not have picked a better beta tester or presenter in his absence than John and I take my hat off to both of Well done, you have both you... done HV99 proud!!

Before I mentioned person to person contact and in my own opinion this was probably the highlight of a great Faire. There were many really good demos done all day on the many aspects of use of the 4A and these were well appreciated by us all. However the one thing that really came out was the enthusiasm and excitement of actually being and working with people from all over the same Australia that share enthusiasm... this is a special attribute that really comes alive at such meetings. Ιt was really terrific to meet Richard Earl from the ATTIC group in Adelaide who just flew up for the day... why anyone would outlay so much to travel 2500 klms is beyond me but we are glad that he did. The same for Peter Gleed from the Melbourne group who we got to meet once again.. he only travelled 2000 k's and the bus load of guys from Sydney.. now this is a real doosie. We HV99ers live about great deal of effort to provide us 180k's(a bit over 2 hours away) from with 3 top class software releases these guys yet we both travel just for the Faire. You can stand 1000k's north to be at the same

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big message that I get from this and I would hope that members of user groups everywhere get the same message is that the old TI??/4A is well and alive because of its USER GROUP base - SUPPORT YOUR LOCAL USER GROUP WHO IN TURN SUPPORTS OTHER USER GROUPS and YOU the USER CAN'T LOSE...

I couldn't leave the Faire without thanking the Brisbane people for there hospitality over the weekend especially at the night out that we shared at the Redcliffe Hotel... was terrific. The venue was nice, the food excellent and plentiful as was the liquid refreshments and most of all the company was great. This hospitality was duplicated the next day when the HV99ers sought the abode of Larry & Gay Reid who are also members of our group. short visit didn't exactly planned end up that way and Gay really went out of her way to make us feel welcome. Thanks a lot guys.

That wraps up what I wanted to say about the Brisbane TI-Faire however I'm not quite finished with Brisbane just yet. While I was up in the sunny state I, like millions of other Aussies and people of all creeds went to visit WORLD EXPO , 88 the shores of the beautiful Brisbane River which meanders through the business centre of Brisbane. In short I and my family were very impressed with the whole The site is huge and in a exposee'. perfect location and at night the Brisbane city skyscape across the river really adds to the exciting atmosphere. It's beautiful... Crowds are massive but are well and behaved well controlled throughout the entire complex. All of the exhibiting countries have really put a lot into there pavilions and welcome all visitors with open arms. It is well worth the effort and I. would thoroughly recommended it anyone. My only regret is that 3 full 12 hour days just wasn't enough for us.

Did someone say club business?? OK, club business. First, we welcome a couple of new members this month. Whilst we were up in Brisbane Peter Bourne visited us at the Faire and decided to join HV99. We're glad that you have Peter and we look forward to future contact with you.

From a place called Trois-Rivieres Quebec, in Canada, Francois Gauthier, has sent application for membership to HV99 and recently sent a copy of the MAURICIE 99 groups newsletter called Unfortunately this is totally written in French and is being translated bУ one αf Rodney Gainsford's friends. Welcome to HV99 Francois and could could you please pass on our best wishes to the people of MAURICIE 99.

Renewal of membership has commenced and I am happy to report that they are coming in in droves. Its great to open the letter box each day and see the yellow forms come in. Thank you to all those that have done so at this stage and may I just remind everyone that renewal is due as of 1st JULY '88. If you have misplaced the yellow renewal form just send your renewal fee and details and I'll fix the rest. If you want another form just let me know and I'll send it. Maybe you know someone that has a TI and wants to join!!!

Whilst on this particular subject of membership renewal, this month will be sending the HV99 newsletter with an accompanying. letter previous members of HV99 with whom we have lost contact. The aim of this is to regenerate interest in the use of their computer if they still have it and if not ask them to consider selling it to current members or people who we know are looking to buy them. If you know of any 'past users' that fall into this category you may be able to assist me in re-establishing contact.

I received a letter from Doug Moller from Aitkenvale in Northern Queensland this month with comment on the Exchange Newsletter Mailout that HV99 has been providing for our non-local members. Doug received the first two newsletter packages but hasn't got the last two as yet. Doug is concerned that this service may have been withdrawn and that we have not made mention of its demise in the newsletter. Well in answer to Doug

non-local members that may not be getting the mailout this service is still being provided and will continue whilst ever the interest remains from our non-local members. As this system works on a

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"chain-mail" type system unfortunately it has a built in weak link in that it relies on one person sending to the next in line and that person to the next until the end of the chain. So if you are involved in the "chain" please, for benefit of the others in your chain, don't hoard the parcel. Have a good look through the info, copy what you want and then get it in the mail to the next person. We have had quite a bit of positive feedback from people about this service and as there are 6 chains with 5 or 6 people on each one we would like to hear more. Please contact Joe or myself with your comments. Thank you Doug for your letter as without it we would assume that everything was going along without a hitch and the system was working fine. Hopefully one of your chain members will read this and the chain will jump out of its loop and onto next statement... "send parcel Doug Moller".

That's about it locally and now to our overseas contacts. While I was on holidays my terrific neighbours had the joy of picking up the mail that goes through 6 Arcot Close. of all of the overseas Because newsletters, letters and disks. particularly from the USA. coming in they now think that I have a part time job with the CIA or KGB or Yes, something. the exchange newsletters are coming in and have been processed for the Publication Library. There's lots in this months reading so as usual get onto Joe for your share.

Ennio Medici from Italy has once again sent us a nice letter complimenting HV99 on the quality of the newsletter and he has also sent 2 fairware disks for us to included the library. One is TI-EXAM which I believe is a utility that can be used to look at memory locations etc. anywhere within the system and the other is a very fast language space invaders assembly type game called GALAXIA.

From our prolific writer, Bob Carmany from North Carolina comes an accusation that "the dirty dozen" (that's us) has corrupted his computing in that his XB cartridge has been relegated to the back shelf as a program loader since we sent him the GED 32k supercart. Well,

this is the bush, and things are tough in the bush, ehh!! Bob plans to put the module through its paces at the next Guilford group meeting hopefully using Ron Kleinschafers latest loader software for the QED. Good to see you putting it to good use Bob.

Onto our friends from West Germany. Haven't heard from them in quite while and then all of a sudden Mike Heuser from Workshop Rheinland sends a parcel with letters and disks and a thing called a GRAM-LOADER-MODULE. Now I don't know what this module is or does and unfortunately everything with it is in pure German. Now I've only been learning English for the last 30 years or so and I can't handle it very well so what chance have I got with German??? thought, well this thing travelled about 14000 k's to get here so what's another 600. I have packed it up and sent it to Ron Kleinschafer (geez I wish he had a shorter name!!!) for his GPL's to interperet . GPL is Ron's pneumonic for German Program Language. When its all desciphered I expect that we will get a full rundown on its use and capability from CHOAS MANOR. In letter Mike says that the GRAM-LOADER-MODULE is available from Workshop Rheinland for deutshe-mark plus 25 DM post handling via Airmail and with the first orders they are supplying ЗØ disks of software support with the module with such things as special versions ۵f TI-Writer, Multiplan, E/A, Logo etc, etc. also included in the package a disk of 80 column software for use with the Geneve or Mechatronics 80 Column Card and that has gone into the library. The name of the disk is 80 COLUMN. In the package as well were some brochures which give us insight into Mikes home town of Cologne which he describes as "the most astonishing city universe". Nice to hear from people that are proud of where they live! Thank you very much for everything to our friends in Germany.

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Well, that's about it from me for the time being. There's probably stuff that I've forgotten to rave on about...Oh yes!! RAVE; I didn't tell you about the demo of the RAVE keyboard that John from TIBUG gave at the Faire.... all right, all right I'll get off and let someone else have a go....

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IN THE NEWS



A POT POURRI OF LOCAL AND INTERNATIONAL NEWS COMPILED BY

joe wright

Hello again. You will have noticed that I have taken to starting this article with a quotation. This is one of my many favourites!;

In time take time while time doth last, for time Is no time when time is past.

ANONYMOUS

FLOPPY COPY.

Jack Sughrue writing in the MAY 1988 issue of the Guilford 99'er Newsletter reviews this disk copying programme. Here is part of that review;

"Floppy Copy copies quickly. With two drives it is capable of copying some disks completely in 24 seconds. It will copy ALL disks within three passes at 138 sectors per sweep.

FC can be loaded with any of the following: MINI MEMORY, EXTENDED BASIC or EDITOR ASSEMBLER modules. (M-M E/A load 24 seconds; XB takes 50 seconds.)

If all FC could do is make back up copies super fast, it would be worth the price. But that is not all it can do.

It catalogs: displaying the complete

status of the disk, including disk name and file index.

It validates the duplicating process. Error messages will appear if the disk is not transferring data.

It initialises. And it does that faster than DISK MANAGER, too.

It has REDO functions (great for intialising or duplicating a number of disks).

It has an immediate menu. Ease of back-and-forthing among the functions is just right.

Within larger functions, there are other menus: you can take just files for a quicker copy, or you can copy the entire disk (including the blank sectors), for an example. You can copy SSSD or any other configuration established by the DM or CORCOMP. So far I've found that FC will copy everything but itself."

Jack has more good things to say about FC in the remainder of the article. It is available from:

SOFTSPOT, P.O. BOX 8786, SILVER SPRING, MD USA.

Price is US\$24.95 plus S H.

PICTURE-IT.

Another software review, this time from Steve Mehr writing in the March TILT 99'ers.

"PICTURE-IT companions PRINT-IT beautifully with a wealth ۵f features designed for use with Picture-It TI-ARTIST instances. contains these teatures: BANNERS. Converts TI-ARTIST instances to be in your banners. Converts included TI-ARTIST fonts to be used in your banners as text! Much more! VIEW INSTANCES TI-ARTIST converts instances to view on screen either character or sprite mode. Character mode allows saving instances in Merge format to allow use of CALL LOAD's included with Picture-It, to move entire instances all once! at Create that 112 character space ship and slocowiy move 1 t across the screen! (How's that Orsen Wells)? Much TI-WRITER this is where Picture-It really exceis in performance and usefulness! Converts instances 50 that can through the be output

RANDOM BYTES

from BOB CARMANY

Just when I was lamenting the lack of substantive new programs, two outstanding contributions have come out in the past several months. The first of these is ARCHIVER Vn 2.4 by Barry Boone.

Until recently, those of us who are still using the "orphan" were left out when it came to a compressing archive program. All at once, there were two available. One, by Al Beard, was FORTRAN-based. It did a 9000 job of compressing and archiving files but it was very to cumbersome use. Almost simultaneously, Barry Boone came out with his version. Version 2.3 was obviously a "rush" job and even at that, it was superior to Beard's entry. Anyway, he released Vn 2.4 in early February as "what it would have been had it not been released prematurely". It is in the UG library and, if you haven't tried it, you certainly should! It makes sending program intrastate (or intercontinental) much more Ву economical. archiving and compressing a group of related files, you can save up to 70% of disk space. In fact, I recently, reduced 6 SSSD disks (nearly full) to: a single "flippy"!!

The best part of it is that there is a corresponding SAVINGS in \$\$\$ when downloading files from a BBS. In fact, we have archived and compressed our entire set of TI files on our local BBS. Imagine taking less than half the normal time to download (or upload) a set of files to your BBS.

for those of you who can't do without F'WEB, it is F'WEB "aware". That doesn't mean that it can remognize a spider at 50 paces but it: has a menu selection to re-load F'WEB through the UTIL1 file. Ιt warks quite flawlessly. Besides the buffer size has that. been increased and a set of disk utilities has been added to allow you to manipulate files without leaving the ARCHIVER environment.

The second outstanding program to be released in recent months is TELCO by Charles Earl in Canada. This little "gem" is a terminal (modem) program that will make you forget all about MASSTRANSFER, FAST-TERM or whatever it is that you are using. It has been described as "better than sex" and the best thing since sliced bread". I don't know about that, sliced bread is hard to beat!

The program is written as a series of overlays and it will run on BOTH the 99/4A AND Geneve!! The sections of code are run in as needed and, when loaded into a RAMdisk it is a truly neat package. It will emulate a couple of different terminals, has auto-dial and auto-redial, supports xmodem file transfers with CRC error checking. Everything is so nice and "user-friendly" that documentation is scarcely necessary --- but there is some, anyway.

Both of these programs are available in the UG library -- I sent them along with this lot of articles.

After touting those two programs, guess I had better get on to a few Let's talk "goodies". about couple of F'WEB tricks that you can use from the Editor and the PF The Editor will accept function. some print commands just as if they were entered and printed out of the Formatter. Everyone should know by now, that CHR\$(14) sets most printers to expanded print and CHR\$ (2Ø) cancels it. CHR\$(15) sets condensed print and, likewise CHR\$(18) cancels it. Quite by accident, I discovered that you can send most of your printer codes that begin with ESC CHR\$(27) in the text and the printer will recognize them when printed through the Editor. All you have to do is enter the "Special Character Mode" by pressing (CTRL-U) and the appropriate conbination of keys (see page 146 in the TI-Writer manual). For example, my Star NP-10 will print emphasized print if I send it ESC "E". That translates to (CTRL-U), SHIFT R. <CTRL-U> (to exit Special Character Mode) and "E" followed by a carriage return (CR). It just takes a line or two at the top of the document to: get your printer to do the job for which it was intended.

While we are on that subject, you

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probably didn't realize that, in most cases, your printer will retain the pitch and type style that you set until it is either turned (which resets it) or gets the reset code. The reset code for CHR\$(27) fallawed ЬУ CHR\$ (64). That's one reason that some of these orinter set-up programs come in handy when you are working with word processor. .

Well, the 'ol "BUFFER FULL" message is about to come up so I had best close this column for this month. Next time, we will look at some CALL LOADs, CALL PEEKs, and maybe even a little FORTH.

QED CPU PAD MODIFICATION

by NEIL QUIGG

BACKGROUND:

As many interested TI faithful may have noticed TI in their infinite Wisdom managed to waste considerable amount of the available 9900 address map in the area >8000 to >9FFF, one section of this area is dedicated to the CPU PAD RAM. This small block of 256 bytes is decoded into a lKbyte block and responds to the address bases of >8000, >8100, >8200 and >8300 and it noted in various instruction manuals that software should be written to conform to the base of >8300.

THE DETAILS:

For the intrepid user club hackers with the do it yourself bug and a little practice with the soldering iron this 256bytes of PAD can be very simply increased to 512 bytes. All that is required is two 6810 memory chips some fine insulated wire a soldering iron and solder and a little patience.

THE METHOD:

Step 1. Open the console and remove the main circuit board in its tin casing, take care not to damage the keyboard connection.

Step 2. Remove the casing from the board to give access to the electronics.

Step 3. Locate the two existing 6810 memory chips, near the cartridge port connector, and unsolder pin 12 of each chip.

Step 4. Carefully remove the pin from the circuit board and bend

clear of any contact.

Step 5. Bend pins 10 and 12 of the new 6810 chips so that they will be clear of contact and then place the chips in piggy back fashion on top of the existing 6810 chips, solder the remaining 22 pins of each chip to the original chips.

Step 6. With some of the fine wire connect pin 12 of the new chips to the hole in the circuit board from which pin 12 of the original

chips was removed.

Step 7. Connect pin 10 of the new chips to pin 12 of the original chips and also to pin one of either of the system ROM chips on the circuit board. These are the two 24 pin chips located adjacent to the 6810 chips.

Step 8. Visually check all connections and then reassemble the console taking special care to align the metal casing correctly on the circuit board.

FINAL NOTES: The modification can now be tested by using a debug program or any program that allows direct acces to memory locations. If the operation has been a success you will be able to load different data into the memory at >8200 to that at >8300.

The extra PAD memory can now be used for such things as return vector stacks and work space area and presumably many other handy little things.

Good luck and happy hacking.

A COMPUTERS MEMORY SPAN IS ONLY AS LONG AS ITS POWER CORD.

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SCR #34 0 RHT06Jne88 2 .3 4 STRUGGLING FORTH STRUGGLING DAILDBUSTS 5 6 HV99ERS JUNE ARTICLE 1988 8 :The trouble with EXPECT... 9 :A Superforth screen print utilit 10 11 12 by richard terry HU99 13 14 15

Life is whirling past in quite a So I thought I'd hard copy much blur at the moment. There never seem to be enough days in the week pleasing to the eye, and compact. or hours in the day at the best of Hence this little program which times, but currently we seem to be more shortchanged than normal. Our days are getting shorter, and in my case the work load getting heavier. There are alot of beasties down here population (people virus's computer virus's). upon a 3 month study of an ancient works by utilizing these buffers, chinese practice needing my body to you cannot run this code unchanged somehow appear 100 miles away in in TI-FORTH, but with a little Sydney two evenings a week, where in imagination you can change it. deference to everyones timidity I've somehow assumed the role of class It IS NOT good code. model - a pseudonym cushion"

After my brief foray into Extended Basic, a territory into which I've vowed never to return unless dragged there screaming by a blind demented programmer; and a similarly brief flirtation with assembler, joy was experienced in returning to the land of Forth, like returning to the comforting arms of a long lost friend.

For the last couple of months I've been on a "get organized" binge. My non-forth disks being relatively sorted out and labelled, it was Forths turn. Those of you familiar with Forth will recognize that one of its strenghs, ie that of a sector editor, is also one o f its weakness's, for in the hands of the disorganized programmer (not me of course!!) code is quickly lost. the disks are not in file format I've always been annoyed with this like basic, and some applications may cover only a dozen sectors or screens, it is easy to "lose" your code amongst the 1400 odd sectors on input without requiring a positive a floppy.

my code, and wanted something produces the in printout magazine.

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Ιt i s unashamably code nasty viral SUPERFORTH. This version of forth ravaging the which is well worth you purchasing not has six disk buffers as opposed to I've embanked five for TI-FORTH. As this program

I whipped it for "pin up off the end of my pen, rather than organise or optimize it. SLOW but it works. T wouldn't recommend usina it for routing printouts, just for archival material or to peruse a long printout.

> After I'd whipped this up I to put it into a whole program, complete with titlescreen, menu's etc, which I quickly did.

> Once again I was hit with two repeatedly troublesome problems I've previously encountered. Lockup on autoboot which either no-one world wide seems to experience, or they just won't help me with, and an irritating property of the word EXPECT.

THE TROUBLE WITH EXPECT.

It has, as supplied, word. irritating properties. Firstly it accepts data up to the requested (ENTER) from the user to finish the,

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                             RHT28May88
                                                                      \ Saperforth print atility
                                                                                                   RHT28Nay88
\ Superforth print utility
                                                                      \ Setup parameters for printout
                                                                                                        \ expects from scra, toscreea
                                                                      : SETUP
   O VAR FROMSCREEN
                                 \ start screen to print
                                                                                    2HP
                                                                                                       \ F,T,F,T
\ F,T,F,T+1
  O VAR TOSCREEN
                                 1 last screen to print
                                                                                    I SWAP -
   C VAR PAGES
                                  \ total number of pages
                                                                                    6 /HOD SWAP
                                                                                                        \ F,T,div,remainder
  O VAR CPAGE
                                  \ current page being printed
                                                                                     IF 1+ THEN
                                                                                                        \ F,T,total page numbers
1028 CONSTANT 1K
                                 \ constant for 1000 bytes
                                                                                    PAGES !
                                                                                                        \ save to variable
                                                                                    TOSCREEN !
                                                                                                        \ end screen number stored
\ calculates loop index for screen load
                                 \ expects framscra
                                                                                    FRONSCREEN !
                                                                                                        \ start screen number stored
: LOOP-INDEX
             TOSCREEN 8 1+ SWAP - \ total screens left
                                                                                                        \ leaves nothing on stack
                                 1 1=6 0 =(6
                                                                      \ Increment starting screen at top of next page
             6 /NOD
                                                                                                        \ expects all, leaves all
             IF BROP 6 THEN I
                                  \ leaves index on stack
                                                                      : INCPAGE
                                                                                    FRONSCREEN DUP
                                                                                                        \ dup address of buffer
\ add 3 and re-store
                                                                                    E 3 + SWAP ! ; -->
Screen #34
                                                                      Screen #39
                                                                      \ Superforth print utility
                                                                                                    RHT28Nay88
\ Superforth print utility
                                28May88
 : MSG1 ." FORTH SCOURCE CODE";
: MSG2 ." Program:";
: MSG3 ." Date:" ;
                                                                      \ Get blocks to print into memory
                                                                                                        I expects nothing on stack
                                                                      : LOADSCREENS
                                                                                    EBS
                                                                                                        \ clear buffer area
  MSG4 . Screen &" ;
MSG5 ." ### Forth screen print utility -fairware- by Richard
                                                                                    FRONSCREEN & DUP
                                                                                                        \ calc on screens to load
                                                                                    LOOP-INDEX O
                                                                                    90
Terry Hv99ers EXE* ;
                                                                                       MP
 : MS67 ." Page " ;
                                                                                       I + BLOCK DROP
                                                                                                        1 inc for next scrn to load
                                                                                    INDE
                                                                                                        \ and do the lot
                                                                                                        \ leaves nothing on stack
                                                                      \ Print complete line of printout
                                                                      : .LINE
                                                                                    7 SPACES 64 TYPE
                              --}
                                                                                    7 SPACES 64 TYPE ; -->
                                                                       Screen #40
Screen #37
                                                                                                    RHTZ8May88
\ Superforth print utility
                             RHT28May88
                                                                      \ Superforth print utility
                 A$ 64 ENIT ;
   HORMAL.
                                                                      \ increment address by equiv of 1 line
   COMPRESS-OR
                 AS 15 EMIT; : COMPRESS-OFF AS 18 EMIT;
                                                                      : +LINE 64 + + ;
                                                                                                        \ expt adr, leaves adr+64
   DOUBLESTK-ON
                 A$ 7! ENIT ; : DOUBLESTK-OFF A$ 72 ENIT ;
   FMPH-RM
                 AS 69 ENIT : ENPH-OFF
                                             AS 70 ENIT ;
                                                                      I draw a straight line across the page
   TOP-OF-FORM
                                                                      : DASH-LINE
                                                                                    4 SPACES
                                                                                                         l expects nothing on stack
                 AS IZ ENIT ;
 : 1/8"-LINES
                 AS 48 ENIT :
                                                                                    76 Q
                                                                                                        \ print width=76 columns
                                                                                      90
 : PAGE-HEADING DOUBLESTK-ON EMPH-ON
                                                                                       157 ENITS
                                                                                                        \ dash code for my printer
                 4 SPACES MSGL ZZ SPACES
                                                                                     LOOP
                 MSGZ 12 SPACES MSG3 CR CR
                                                                                                        \ leaves nothing on stack
                 DOUBLESTK-OFF EXPH-OFF :
                                                                      \ check if screen number is in range
                                                                       : CHECKOK
                                                                                                         \ expects fromscreen
                                                                                     TOSCREEN @ 1+
 : PAGE-FOOTER
                 EMPH-ON 7 SPACES MSG5 EMPH-OFF ;
                                                                                                         \ to plus 1
                                                                                                        \ leaves i=valid O=invalid
                                                                                     (:
      *** Forth screen print utility -fairware- by Richard Terry Hv99ers ***
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STRUGGLING FORTH continued

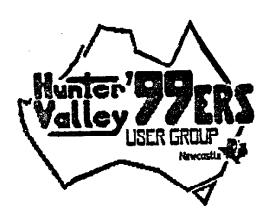
accept, and secondly, something not obvious until you get a non-typist using your program, that of accepting and EMITING the down arrow key ASCII 10 which is in fact the key code for a vertical tab. This is what will happen if the user inadvertently or on purpose hits this key - your entire display will be scrolled vertically off the screen never to be returned. Sounds ridiculous - well just try it!

There are many ways to fix this. In forth the monitor or printer or whatever all seem to be treated the same way, depending where the output is being pointed. If ones application did not involve using the printer and 10 EMIT one could modify EMIT. Alternatively one can rewrite EXPECT to not allow the down arrow to interfere.

Just out of interest I took the second course of action. (see following screens). This does not work entirely the same way as the original version, all I've done is make it output a blank space in lieu of a vertical tabulation, but it seems to work ok.

Letters and correspondence to:

RICHARD TERRY
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WHITEBRIDGE
NSW 229Ø
AUSTRALIA
Ø49 436511/29245Ø



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the BRISBANE TI- FAIRE

a report by PETER SMITH

Scene..10.00 am Sunday Morning, 22nd May.

"Tic....tic....tic....tic...tic...

"That bloody heart of mine is still going and the rotten thing keeps making my brain pound." moaned our esteemed editor.

You guessed it. We had a great time on Saturday night at the Norfolk Room in the Redcliffe Hotel north of Brisbane. As a matter of fact I believe we have kept up a tradition of showing others how to enjoy ourselves at such goings on as II shows.

Three of us travelled to Brisbane by bus on Friday night to be met at the wonderful Roma Street passenger terminal by Albert who took us, ably assisted by my terrific (?) navigation, to our motel near the Campus of the Brisbane CAE at Carseldine.

After finally finding the site of the Brisbane TI-Faire we began unloading gear from Albert's and Paul's (our illustrious president who also had his family with him) vehicles.

We were given a great welcome by the Faire's organiser, Garry Christenson, who allocated areas and introduced people as they arrived.

Numerous TI groups were represented, many in large numbers and others by single travellers who had travelled many ks to attend.

Our Sydney friends arrived in force and had numerous displays, of which Peter Schubert's AT series of hardware items took pride of place.

The Mini-PE card with its various options sure looked professional and each time I see it I am amazed at its capabilities. The same can be said about the multifunction card and the new mini ram card which fits the AT mini-PE card and the Cor-Compexpansion system.

Great work Peter. They are a credit to you.

Also of great interest was the RGB modulator created, once again by Peter, which was demonstrated driving monitors which, believe it or not, were obtained for \$188.88 each. (Boy couldn't we do with a truck load of them!).

Along with these goodies were numerous ram-cards and modems... all offering great great value and interest for prospective purchasers.

Ben Tachak (also in the TIShug group) displayed many Mechatronics items of hardware including a mouse, a gram card and an 80 column card. Also in his bundle of exotic hardware was a very intriguing plotter from, I think, a British source. All very mouth watering and interesting.

(At this point I apologise to any of the people whose display I mis-represent. I assure you any errors are completely unintentional, but this report is only from my memory and hence prone to much corruption and error. Please forgive me for any omission).

RAVE99 Α keyboard was demonstrated by John from the Brisbane group. This device certainly had many fine points and one keyboard was sold at the Faire to a discerning TI'er.

Among other displays by the Brisbane group were the 9640 "GENEVE" machine, and numerous programs running on 99/4a's around the place.

Of great interest was a new data-base called TI-BASE which was put through its paces after lunch. It was so popular that it sold out before I could get a copy. Oh well! That's my luck for you. The program and the demonstration certainly were first-rate. I guess I'll have to save my sheckles and send US for a copy.

Peter Gleed from Melbourne, after having driven from his home town South-Of-The-Border, represented his club with his usual panache. He had many interesting anecdotes to relay and his knowledge of the American scene was found to be of great interest to all.

Peter also brought along a program dealing with semaphore, in case your telephone is cut off. (Albert's arms would fall off and Viatel would go broke.)

The editor of the Adelaide TI magazine, Richard Earl was the sole soul to travel from our Festival city to the Faire. He demonstrated

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a new language which one of his club members has written by demonstrating "The Game Of Life", written using this language.

A large table on which were placed items for sale by anyone attending the day, drew continued patronage. Many pargains were had by those keen enough to make enquiries.

Our club was well represented with a total of 9 members appearing during the day. Many of our members were combining a visit to WONDERFUL EXPO with a visit to the Faire. Thanks to those who took the time to support our club and our machine. It was great to see your interest.

We offered Tony and Will's new version of FUNNILWEB (much to the delight of attenders); details of how to install reset switches; the QED module for display along with Joe Wright's fabulous GENEALOGY program & Richard Terry's Cheque Book manager program, all of which were well received.

punctuated with The day was various demonstrations of... Rave 99 keyboard, Geneve, RGB cards and testing software, a new various data-base, Mechatronics gear, and the highlight of the day.... our own JOHN PATON strutted his stuff and did a marvelous demonstration of the new Funnelweb - boy has he got talent to use during this 90702 coming year!

A disappointment to all who attended was the non-appearance of Lou Phillips and the latest version of 9640 along with MDOS, but this soon faded with the fine social interchange and friendships being developed while learning about our surprising machine.

One of the many highlights of our trip north was meeting so many keen TIers, not the least our far-away members.

Into that category definitely fits Larry Reid, with whom we visited on the Sunday (sore heads and all).

He certainly made us welcome and demonstrated his commitment to the TI and some of his fine library. His filing system is still being developed but it certainly gave us something to think about for our own collection of disks. Thanks for the hospitality Larry and Gay, we really enjoyed it.

Congratulations to the organisers... you took many risks

but not put-off Бу were The faire, as far as I obstacles. was a great success am concerned. to all. Queensland and a credit is second to none and I hospitality to the next one, look forward to little closer hopefully a Newcastle.(Hint!Hint!) (about 10Øk away would be nice.)

Ask Brian Woods if its true that he is considering buying a turban just so that he can ride in a stretched-limo (Taxi variety) in style.

Talk about long bridges in Queensland - you need to pack a picnic lunch just to visit people north of Morton Bay.

John Paton has outgrown security-blankets - it's the tears and the screams when he discovers his pillow is missing that upsets fellow travellers now.

Albert should not be able to sneak-up on anyone these days. I believe he has taken to wearing wooden clogs. (Seems the fashion around Redcliffe).

Who are the meenies who took their kids to EXPO and didn't take them on any of the "Whoopy" rides?

an interesting observation

This poem was brought to my attention by my wife, as it originally appeared in a womens magazine. There was no mention of the author's name.

Some members keep a club so strong, While others join just to belong. Some dig right in, some serve with pride, Some go along just for the ride. Some volunteer to do their share, While some lie back & just don't care. Some always pay their dues ahead, Some get behind for weeks instead. Some do their best, some build, some make, Some do neither, but only take. Some lag behind & let things go, Some never help their club to grow, Some drag, some puil, some don't, some do, CONSIDER WHICH OF THESE ARE YOU!!

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PLUS?

This Fairware wordprocessing companion and utilities disk of templates, tutorials, articles, codes, and programs for the various versions of TI WRITER (particularly the Australian FUNNELWEB), was created, edited, adapted, rewritten, and/or collected especially by ME for the FAIRWARE marketplace. I hope you enjoy this disk, make backups, and pass it on to other TI people in this identical form. If you like PLUS! please send \$100 to Jack Sughrue, Box 459, East Douglas, MA 01515. Thank you.

The PLUS! files will perform OK with <u>any</u> versions of FUNNELWEB. If you have DSDD or RAMDISK (or similar bulk capacity), load up the newest version and ALL the PLUS! files all together. LOAD your FORMATter, download the docs to your Star-compatible printer (OK for all Epson except BOX stuff) starting with "READ/2ND." While still in FORMATTER (after your first printout), just press ENTER and 2 (FORMATTER) again. Now you will see "DSK2.READ/2ND" in the filename spot. Change that to whatever other files you like (such as "QUICK/REF") until you've printed out all docs which should take you easily through all the marvelous PLUS! items described in detail below

DON'T FORMAT ALL THE DV/8Ø FILES!! The IFFING/TL file is prepared to run through the XB program MULTCOLUMN to print in 2 columns. Read the docs follow program prompts and defaults (Epsons change 24/216 to 36/216 DON'T FORMAT THE FOLLOWING FILES TO HARDCOPY: 1 2 3 4 5 7 8 at prompt). C2 C3 C4 C5 C7 C8 C9 M1 M2 G G1 G2 G3, as they are screen and format codes. The T codes and BOX files will print properly on Star printers but require changes in accessing codes for other printers, but they are just a tiny part of the 66-file powerhouse of PLUS!, which includes instant DV/8Ø text graphic printer; screendump; banner program to create your own designs; desk and yearly calendar programs labelmaker; multiple-column personalize your calendars; instant condensed envelope tinyteeny wordprocessing; cataloguer; caligraphy printing; templates for TI's built-in graphics; codes that create Iffing with TransLiteration; Mnemonic Reference Chart for built-in TL codes; an active cataloguer to print, leap from and to Drives 1, 2 & 3 (and back into FUNNELWEB), delete, reenter XB auto load programs; mini screen dump; Pig-Latin writer, etc. All on <u>ONE</u>

PLUS single-stroke autocoding, the most popular feature of all PLUS-series disks! PLUS! just might be the best wordprocessing companion/utility disk you'll ever own!

NOTE: If your disk did not come with a printout of all the filenames (necessary for FORMATting above), LOAD CAT in XB, pick your drive, and press 5 to get your quick mini catalog. When finished printout press 3 (AGAIN) and continue cataloguing.

BIGCAT PLUS's active cataloguer lists disk contents of Drives 1, 2 or 3 (including RAM). Screen breaks files into program and other. To load program files (if in XB only [or BASIC that is supported by XB or uses Jim Peterson's great BXB subl) press the corresponding letter. Files list type and number of sectors used; disk title and total sectors used are also displayed. SCREEN OPTIONS:

- 1) CONTINUE If there are too many files for the screen, pressing 1 displays the next batch of files.
- 2) QUIT Press to quit back to TI screen.
- 3) AGAIN Reloads to catalogue another disk in same or different drive or back to FUNNELWEB.
- 4) DELETE Delete by answering PROGRAM (P) or FILE (F) Then letter corresponding to line of File or Program. Computer will double check that you are still okay by asking if you are sure you want ____ deleted.

 5) PRINT Will print the catalogue as shown in condensed format on a PIO printer. (GEMENI 10X is what I use for this). These configurations may be changed by LISTing the XB program.

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INSTALABEL is FAST, will print up to six lines on a label in condensed (default) or normal. Type what you want on the lines and number needed. When labels are done the program lets you immediately create another. And so on. Typing 99 will escapes to FWB.

CALENDAR PROGRAMS These drastically-modified programs let you create personalized desk and yearly calendars suitable for writing in daily notices (with additional blocks for other important announcements). You are led through the processes and may print out text in upper or lower case. Be sure you have your printer on and ready to go with paper lined right up to printer head. After you have typed your heading and chosen year and month, you will be asked (on DESK/CAL only) if you want messages for specific dates. If Y, the computer will ask which date. Type number. Then type message which will be printed on that date. You must press ENTER after each 18-letter (maximum) line. There are 6 lines in each box. After the last line is ENTERed you will be asked if you want any more messages (Y/N). If N the calendar will print instantly. If Y you can continue to put in messages (including in boxes before and after month by giving -3 or 35 [or whatever] as before or after dates). When the calendar has printed, you'll be asked if you want one exactly the same or if you wish to change some messages on an otherwise identical calendar or if you want to go on. Then you'll be asked if you want another month to print. An N here will return you to FWB. A Y will ask you for title, year, month again and print another desk calendar out for you. And so on.

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INSTAPRINT prints any DV80 text or graphic file instantly without using EDITOR or FORMATTER. It prints just as if you did PF in EDIT mode. Give DSKn.FILENAME as asked. Be sure your PRINTER IS ON! Like all tiny INSTA XB programs, this is FAST!

BANNER PROGRAM is a much-modified PDer operating off two menus. When the first screen comes up choose:

N - Normal. Normal TI character set.

R - Reformed. New character set (which will remain in effect even when returning to PLUS! unless you return to normal with the last menu [S - Start Over]).

C - Create. Design your own characters, numbers, or pictures by using the 8X8 grid. Type the Row # then the Column #. This will be automatic without a need to ENTER each time. S will store (for later retrieval or embellishment) and Print. You'll be given a magnification option to make your special creations up to 8 inches high.

Q - Quits you to PLUS! The second menu of each above set lets you select the height of the items you are going to print. (Note: All letters will be enlarged using a collection of the small letters selected [except in C] and will all be printed sideways.) Lastly, you'll be asked to print the words you want bannered.

3/COL Based on a program by Jack E. Evans Sr. which originally appeared in the SPIRIT OF 99, this program has been reduced and modified to permit envelope-sized catalog printouts with the maximum number of files and to automatically print your name on each hardcopy.

INSTADUMP Is a 2-sector program that dumps any non-redefined characters directly from the screen to printer. Put your printer on and run the program. Easily adaptable to GOSUBs, for printing partial LISTs, for tiny wordprocessing duties, for printing character-graphic screens. Experiment. You'll be surprised what it can do.

IG!PAY Type any words, phrases, or sentences you want in English. The computer converts English to Pig Latin. If you want multiple phrases continue to press Y when offered option. The percent sign lets you print directly. N will quit program (still in memory for another RUN or LISTing).

BOX stuff The BOX/REF, BOX/DOC, and T templates are for accessing the built-in graphics codes of the Star printers (like Gemini). If you have

a different printer, refer to your manual

G loads are templates for TL graphing. (see tutorials)

Lipads are templates for letters. Using these, it is easy to design your own. Li uses the BOX codes above and gives all the directions for creating such a template. LZ is a smaller, modified version of the same. Both G and L files include all the active TL keys described in the tutorial. Both L files use the Define Prompts, so the dates and names have to be typed in during FORMATting. These DPs can be eliminated if you have no use for this sort of thing. (Many users requested this feature.)

M loads prepare formatting structure for MULTCOLUMN.

<u>INSTAMAIL</u> is a very quick hardcopy address maker, handy for people who need printouts for maillists without going through a database.

<u>SETUP</u> is a sophisticated Gemini-compatible printer setup. Load up whatever codes you want in your printer. Then use your wordprocessor [or whatever] without shutting off the printer. What you established will come out in the hardcopy.

MAX/DOC explains how to use the wonderful MAX/RLE. MICKEY is a graphic to test it out.

tinyteeny Is the world's smallest wordprocessor! Using subscript, this short program even lets you print on normal adding machine paper! Though many of the features of TIW are missing, tinyteeny does let you print your whole novel on a dozen pages (or half-a-dozen feet of adding machine paper). What other word processor can make that claim?

<u>FWFLOW</u> is a marvelous flowchart reprinted here with permission of author Charles Good (of Lima Users) which step-by-steps the FWB processes (especially CONFIG). These files, the absolute best on the subject, were an immense help to me.

SMALL/DOCS explain how to use PLUS's SMALLIFICATION program which reduces XB programs considerably to save space and run faster and more efficiently. (Change drive # in Line 36Ø if Smallify 1 & 2 are not in Drive 1.) One SSSD disk of programs I wrote for school was reduced by 112 sectors when run through SMALLIFICATION!

SLASH/Ø encodes your printer to make slashed zeros.

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tinypro is a tiny wordprocessor with a built-in tutorial.

<u>PLUS!VIEW</u> is a workshop/presentation, music/graphic tool. This program (which is used here to explain the features of PLUS!) can be adapted to any business or user-group application. Make your point clearly and succinctly. This could be one of your most important business or user-group files.

p! is a program that brings up the PLUS! logo as a cursor. Thanks to Jim Peterson for yet one more idea. If you'd like to customize it for yourself LIST the program and make the substitutions. [While on the subject of Jim (of TIGERCUB fame), his NUTS & BOLTS disks — 3 disks of over 300 subroutines — exceed some of the most powerful super XBs out there. Send \$1 for his catalog: 156 Collingwood Ave., Columbus, OH. 43213. Returned with first order. Superb stuff from "Mr. TI."]

THE # & C FILES are the autoloaders in the EDIT mode (see DECODING). Each number when used as the single-keystroke filename in LoadFile, will automatically set your TABs to 1 & 38 (screen size) to eliminate windowing. It will also automatically set the FORMATting "IF" codes. Leave the codes in the opening lines. When your text is run through the FORMATter, all hardcopies will contain those particular code functions.

For example, LF DSKn.4 will load C4. That will give you term-paper formatting (wide margins, double spacing, name headers, auto page numbering, NLQ, etc.) and, like ALL of these codes, complete access to the TL templates for the full range of fonts, size, graphics, and other printer commands through the TL key. There are Tutorials for IFfing and TLing on IFFING/TL, REDEF/TL, IMPLANT/TL, GRAPHS/TL, and ALLCODING. Here is what each autoload number will do: C1 - the basic TL coding with normal margins; C2 - condensed coding (118-columns wide) with built-in spacing; C3 - normal mode (what I use 90% of the time) with graphics (Heart/N; Goose/Y) and narrow lines (J) in conjunction with condensed and superscript; C4 - term paper mode; C5 - full 80 columns;

C6 is empty for your own personalization; C7 - full non-spaced TL that includes an arrow pointer and a copyright symbol; C8 - loads up a fully-spaced, compressed, superscripted, narrow-lined text mode to type 134 columns by 134 rows, about 18,000 characters per page!; C7 - (see ALLCODING). On MOST of these templates the WXYZ keys are for my special redefinitions or are left open for redefining by you. G files redefine WXYZ into graphics, while maintaining the standard TLing.

<u>DECODING</u> and <u>ALLCODING</u> are comprehensive tutorials with detailed examples on the use of all the codes and templates. IMPORTANT DOCS!

QUICK/REF is a comprehensive, one page quick reference chart for any form of TI WRITER (best for FUNNELWEB). This chart also includes the standard TLing. Keep this handy guide near your computer.

FNLSTRIP makes a 4-line console strip that includes the double-line commands for TI WRITER, the single-line for DM-1000 (which is within FUNNELWEB), and another line for manually filling in commands for other software. This file can also be a template for any needed strips.

is a hybrid with lots of history. Years ago programs were developed to convert TI WRITER files into two-column printouts Many TI users developed such programs. newsletter and other uses). Probably the best of the lot is Jim Peterson's PRINTALL (which even The first I saw was from a New Jersey prints up to five columns). newsletter years ago. I haven't been able to locate the author's name. Then within months, it seems, there were dozens of variations, each with improvements and additions (such as more than two columns) MICROpendium. for example, recently published another, much-improved version by William Brown (which, itself, was REVISED in 1985!) The LA Users (particularly Tom Freeman, Mike Dodd, and George Steffan) improved upon the earlier variations and added more selection screens (similar to Peterson's PRINTALL) and Bartholomew Punch's peculiar version written specifically for my class to make a 5th-grade newspaper in 1982!!! This small PLUS! program with auto-templating owes a debt of thanks to all these people mentioned above and to all those unnamed persons whose efforts contributed to this "final" result. M1 & M2 are the autoloaders MULTCOLDOC is for setting up the structure for this conversion. essential for operating the three files. A newsletter editor's dream come true.

We assume no responsibilities for improper use or malfunction of any files contained on this disk. Please contact me with suggestions, comments, improvements.

THERE ARE 66 FILES AND 720 SECTORS (and a lot of work!) ON THIS DSSD (OR FLIPPY SSSD) DISK. WHEN SHARING THIS DISK, PLEASE MAINTAIN THE INTEGRITY OF THIS WORD-PROCESSING COMPANION/UTILITY BY KEEPING ALL THE FILES INTACT. - I appreciate your support, Jack Sughrue.

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YOURS!

Copies of Jack Sughrue's amazing package - PLUS! - are available from the Software Librarian. If you want a copy please send \$5 for a DSSD disk or \$6 for 2 SSSD disks.

Jack, an overseas member of group has asked that the HV99ers distribute this disk in Australia for him, so instead of sending your fairware donations to individually, send your money to our Software Librarian who will pass all monies he recieves on to Jack in one cheque, as well as the names and addresses οf those who have contributed.

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You will probably recognize lines of code that we are using as an example from the FILE/READ program that appeared in the July '87 issue of the newsletter. conserve space, most of the program will be omitted and just those lines that deal with how the files are read in and processed are going to explained. For clarity, constants have been replaced with their corresponding variables once again.

22Ø DISPLAY AT(8,1)BEEP: "Device.Fillename": ")" :: ACCEPT AT(9,2)81ZE(15):FILE# :: CALL ERASE

23Ø DISPLAY AT(16,1):"Device.Filena me" :: DISPLAY AT(17,1):">"&FILE\$

These two lines prompt you for the device (ie. DSK1, DSK2, etc.) and the actual filename (ie. TEXT/1, DOCS.etc.)

24Ø DISPLAY AT(8,1)BEEP: "File Descriptors (Choose 1)" :: DISPLAY AT(9, 1): "1) DISPLAY , VARIABLE": "2) DISPLAY , FIXED"

25Ø DISPLAY AT(11,1):"3) INTERNAL, VARIABLE":"4) INTERNAL, FIXED" :: D ISPLAY AT(13,2Ø):"1" :: ACCEPT AT(13,2Ø)VALIDATE("1234")SIZE (1):A :: CALL ERASE

26Ø DISPLAY AT(8,1)BEEP: "Record Len gth" :: DISPLAY AT(9,6): "8Ø" :: ACC EPT AT(9,6)VALIDATE(DIGIT)SIZE(3):L:: CALL ERASE

.27Ø ON A GOTO 28Ø,29Ø,3ØØ,31Ø

lines prompt the These next four to enter the actual file descriptors (ie. DISPLAY/VARIABLE. DISPLAY/FIXED, INTERNAL, VARIABLE, and INTERNAL FIXED). The user also prompted for the record length Control (ie. 8Ø, 128, etc.). then passed to the appropriate line in the program based on the user's choice.

28Ø ON ERROR 61Ø:: DISPLAY AT(2Ø,1): "DISPLAY ,VARIABLE":: DISPLAY AT (2Ø,19):L :: OPEN #1:FILE#,INPUT ,D ISPLAY ,VARIABLE L :: GOTO 32Ø

29Ø ON ERROR 61Ø :: DISPLAY AT(2Ø,1): "DISPLAY ,FIXED" :: DISPLAY AT(2Ø,16):L :: OPEN # 1:FILE\$,INPUT ,DISPLAY ,FIXED L :: GOTO 32Ø

300 ON ERROR 610 :: DISPLAY AT (20,1): "INTERNAL , VARIABLE" :: DISPLAY AT (20,20): L :: OPEN #1: FILE\$, INPUT , INTERNAL , VARIABLE L :: GOTO 320

310 ON ERROR 610 :: DISPLAY AT(20,1): "INTERNAL ,FIXED" :: DISPLAY AT(20,17):L :: OPEN #1:FILE\$,INPUT ,INTERNAL ,FIXED L :: GOTO 320

The next four lines are the actual OPEN statements for the files. For example, line 280 OPENS FILE\$ (which is DSKx.filename) as [Sequential], INPUT, DISPLAY, VARIABLE L. Sequential does not appear because the computer has designated it by default and the variable "L" is the file length in characters that the user input earlier in the program.

At the beginning of each line is an ON ERROR statement to aid in error trapping and the file type is displayed at the bottom of the screen to make the program more.

"User friendly".

32Ø DISPLAY AT(8,1): "Parameter Flag ":"1 For DISPLAY Files": "2 For INTE RNAL Files" :: DISPLAY AT(10,22):"1 " :: ACCEPT AT(10,22) VALIDATE("12") SIZE(1): Z :: CALL ERASE

Line 320 does an interesting thing, it adds a "parameter" flag. This is just a way of being able to use LINPUT (for DISPLAY type files) or INPUT (for INTERNAL type files). By selecting either "1" or "2", we can keep track of each file and switch control to the appropriate line in the program to do the file reading.

33Ø F=Z

Simply puts the parameter flag into the variable "F".

34Ø DISPLAY AT(8,1)BEEP: "Printout of file? (Y/N) N"" :: ACCEPT AT(8,25 VALIDATE("YyNn")SIZE(-1):F#

35Ø IF P#="N" OR P#="n" THEN 45Ø

36Ø DISPLAY AT(8,1)BEEP: "Printer de vicename " :: DISPLAY AT(10,16): ">PIO" :: ACCEPT AT(10,17)SIZE(-3): PRINT\$

370 DISPLAY AT(23,1):"Printer >"& PR RINT\$:: CALL ERASE

38Ø ON ERROR 61Ø :: OPEN #2:PRINT\$, OUTPUT ,DISPLAY

39Ø IF EOF(1)THEN 51Ø

400 ON F GOTO 410,420

41Ø LINPUT #1:A\$:: GOTO 43Ø

42Ø INPUT #1:A\$

43Ø CALL KEY(Ø,K,S):: 1F S<>Ø THEN 43Ø ELSE PRINT A\$:: PRINT #2:A\$ 44Ø GOTO 39Ø

45Ø IF EOF(1)then 52Ø

These lines ask the user if he wants a printout and then prompt the user for a printer device name (ie. PIO). The printer is then OPENed in line 380 for file printing in [Sequential], OUTPUT DISPLAY [80] mode. The information in the

brackets is supplied by default by the computer. Line 390 looks for an EOF marker and closes the file when it is found (as does line 450). Lines 430 and 440 simply test to see if a key has been pressed and halt printing if one has been pressed.

46Ø ON F GOTO 47Ø,48Ø

47Ø LINPUT #1:A\$:: GOTO 49Ø

48Ø INPUT #1:A\$

490 CALL KEY(Ø,K,S):: IF S<>0 THEN 490 ELSE PRINT A\$

5ØØ GOTO 45Ø

518 CLOSE #2

52Ø CLOSE #1

This set of lines does the same thing as the ones that control the printer except that they display the file information of the screen. Lines 510 and 520 simply close the files when the EOF marker is encountered.

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Those are the "guts" of the program. The actual file handling is straightforward and relatively simple. Just remember that you don't have to enter all of the file descriptors --- some of them are supplied by default.

FOR SALE

1 PE BOX MOUNT MODEM

This modem is the Schubert type that mounts in the PE Box

It operates at 300/300 Baud and at 1200/75;75/1200(Viatel)

\$200

CONTACT: -JOHN PATON 1 Parlin Cl, RUTHERFORD - NSW. 2320 Phone Ø49-326Ø14

FUNNELWEB version 4-10 oulline an

AL LAWRENCE

Exposed at Brisbane TI FAIRE was a Special Version of Funnelweb. Its release timed almost to the last | ! Sysinfo Quit Install ! second after months of late night programing and testing.

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This article is only a small window into V 4.1 to highlight some of the great improvements , made due box with 3 choices pops up. to the numerous requests, criticisms & miscellaneous positive feedback the authors have received over the last few years.

In answer to Stephen Shaw's great difficulty in configuring F'WEB 4, Tony and Will have developed a 58 sector program (CF/CG) from 500 sectors of source code that is SHEER MAGIC to use (or play with!). This is what you would | Press L and default DSK1.SYSCON pops expect to see on an IBM not a TI. Pity is most people will only need to use it once, after all the time and hard programming packed into it.

** FWEB 4.10 and 4.0 ARE NOT COMPATABLE so 'Mix 'n' Match' IS NOT RECOMMENDED **

As usual make a backup after making sure that the original has a write protect tab on it first!!!

HINT...put only the files that you need to work with while configuring Fweb on a freshly formatted disk to save unnecessary | !Keys now in use throughout Fweb.! head movement, eg LOAD, UTIL1, CF/CG, DS, EA, UL, SYSCON.

FUNNELWEB is more than an enhanced TI WRITER but that is the area about which most tips and hints one reads are about. Maybe reviewer will do an indepth review of the numerous other assets and ! programming tools offered on it?

Select CONFIGURE from the XB | | MENU, Opt 3 or Opt 8 in UTIL1 then | !Enter to PROCEED. Opt 8.

Entry Screen proclaims: -

!FUNNELWEB Vn 4.1Ø ! ! Configuration !

Bottom line in Inverse Video.

<?> Help. <ctrl C>Back. <fct 7>Dir

Pressing any key and along the top 2nd screen you get.

Select by first letter.

Press 5 to select Sysinfo and a

! Load ! Select L if not loaded Select E when loaded ! Edit! Select S when finished ! Save !

NB...you must LOAD to EDIT!! and SAVE before Exiting to INSTALL.

up, if correct press enter and when loaded select E to Edit.

> ! E ---to ! EDIT ! box 1 ! below

!Ctrl C / Fctn 9 BACK.

!B / N pages fwd/back or up/down.!

!Window in use_Box line thickens.!

!<?> on screen HELP.

!Commands active are shown in REVERSE VIDEO

!At cartain stages it is possible ! !to have 7 interlaced boxes pop up! !on the screen while Editing....!

				-						
			! pressing !							
		-!1!	<u>!</u>							
i			! E !							
į	Loading	į	i boba nb pox ;	!						
ŧ	Devices	!	!	ŀ						
į	Colors	!	1 to 1	ļ.						
į	Menu	!		ļ						
ŧ	XB list	!								
ļ	UL list									
į		! Edit	DS list!							
here										
		if re	quired! save	ļ						
			! DS/UL	į.						
			! before	!						
!		. — !	here quired! save ! DS/UL	- ! !						

!When Customising the Menu you now !have 4 choices each side (TIW/EA)! !to add to the 4 already installed!

! exiting!

I will not insult the intelligence of the readers by going any further here, as you are (dare I say it?) 'led Letter by Letter in each stage.

After you have finished the Editing mode and saved the SYSCON file Ctrl C out and select Install mode where the choices are:

! LOAD -XB / XBII! ! ! ! FW-UTIL1 other !

You can rename UTIL1-FW if it is also another program on the disk.

Again select by letter and when Load and FW/UTIL1 are installed (Fweb does all the work) press Ctrl C and then Quit.

Reset and Quit then reload and the screens will be as you set them up. If you have made an error it is a pleasure to Redo it again!

SOME OTHER IMPROVEMENTS

DM-1900 has been modified, slimmed and updated to V4 status with BELLS added so the user is aware when the task in hand has finished - A MOST welcome addition.

It also copies more sectors per pass (added after the faire release, and suggested by Larry Reid).

Also included is on-screen warning (and in the docs) if Myarc Disk Controller card is in use (regarding Sector Ø reading and 16/18 track formatting) or Backup copying onto 1 to 4 Drives if Ramdisk on board.

LINEHUNTER is an added feature by young Will that will be a valuable tool in program de-bugging. This is an Assembly Source Line Locator and uses the computer to search out the line numbers (or label) with errors or needing modification.

The file name is carried through in the mailbox, enter line/label number and sit back and watch the numbers flash past similar to the verifying when a disk has been formatted. When the line has been located it appears at the bottom of the page to read. When finished press Ctrl = to return to F'WEB.

Notes

- 1) Some features are missing that were on V 4.0 so if you USED them, do not trash your old copy until you know what they are!! If you used them write and let Tony and Will how useful you found them.
- 2) c-COMPILER loader fully compatable with V 4 of Clint Pulley's c99 and returns to FWEB on completion if desired.
- 3) DPATCH now has alternate key press functions so if you are used to Birdwell's DSKU style (Ctrl H= Hex, Ctrl A= Ascii) it's there, as are the original TI keystrokes. Both are listed on the entry screen.
- 4) DS is a suggested list of Disk Utilities file similar to UL and they are no longer loaded in UTIL1 but may be customised if not to your requirements.

Triple AAA Credit ratings in all sectors of this Value for Dollar FAIRWARE offering. If you have not made any donation before, make sure you do NOW.

modified lower case CHARACTER SET REVISITED

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LI

LI

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RT END

MOV

RO,1800

R2,64

BLWP GVMBW

FMBI >82E0

RI, BORDER

@>837C,@>837C

@SAVRET, R11

see article next page

```
DEF
              ZCHARS
 VMBW
         EQU
              >2024
    CALL LINK("ZCHARS")
 ¥
 ¥
    ASSEMBLE WITH R OPTION ONLY
LWCASE DATA >0000,>0070,>0838,>4874,>0040,>4078,>4444,>4478
        DATA >0000, >0038, >4040, >4438, >0004, >043C, >4444, >443C
        DATA >0000, >0038, >4478, >403C, >0018, >2420, >7020, >2020
        DATA >0000, >0438, >4438, >047C, >0040, >4078, >4444, >4444
        DATA >0010,>0030,>1010,>1038,>0008,>0018,>0808,>4830
        DATA >0040, >4048, >5070, >4844, >0030, >1010, >1010, >1018
        DATA >0000, >0078, >5454, >5454, >0000, >0058, >2424, >2424
        DATA >0000, >0038, >4444, >4438, >0000, >0088, >4478, >4040
        DATA >0000, >0038, >4454, >4834, >0000, >0058, >6440, >4040
        DATA >0000, >003C, >4038, >0478, >0010, >3810, >1010, >1408
        DATA >0000, >0048, >4848, >4824, >0000, >0044, >4428, >2810
        DATA >0000,>0044,>5454,>5428,>0000,>0044,>2810,>2844
        DATA >0000, >0044, >2418, >1060, >0000, >007C, >0810, >207C
        DATA >0000, >00F8, >0808, >0808, >0000, >00FF, >0000, >0000
        DATA >0000, >0000, >FF00, >0000, >1010, >1010, >1F00, >0000
        DATA >0808,>0808,>F800,>0000,>1010,>1010,>1010,>1010
BORDER DATA >0000, >001F, >1010, >1010, >0000, >00FF, >FF00, >0000
       DATA >1818, >1818, >1818, >1818, >0000, >001F, >1F18, >1818
       DATA >0000, >00F8, >F818, >1818, >1818, >181F, >1F00, >0000
       DATA >1818.>18F8,>F800,>0000,>0006,>0808,>0808,>0808
MYREGS BSS
             >20
SAVRET DATA >0
ZCHARS MOV RII, @SAVRET
       LWPI MYREGS
       LI
             RQ. >0608
       LI
             RI, LWCASE
                                      This
                                               routine
                                                           i 5
       LI
             R2,260
       BLWP @VMBW
                                      last months issue.
```

modification of the one published in last months issue. Some of the character codes have been altered. It is necessary to assemble this using the R option and to save as file say ZCHARS/O. The other three routines herein use these characters to display the boxes, frames etc.

A FORTH PROGRAMMERS FLIRTATION WITH ASSEMBLY

RICHARD TERRY

Needing some routines to use in my last and never to be repeated extended basic program, I decided to tackle some simple assembler. My experience in Forth helped alot, speeded up by numerous phone calls to Will and Tony and Jue. I only had a matter of hours till the program deadline, so what was needed was a functional result - ie the code had to do the job, not be What I wanted elegant or pretty. was a series of routines to speed up the screen displays - to draw the equivalent of windows where needed, and to clear parts of the screen quickly. My first effort was what I left as the FRAME routine below, which I have used to "frame" my documentation as it is being presented from within the program. others were slight modification of Tony's descender character set with a few added characters, and the two general routines to clear part of the screen (PCLS) and draw the window boxes (BOX).

If your going to use these then it goes without saying you probably not a skerrick about assembler code or compiling it, because if you did you wouldn't be contemplating their use. Load the Editor part of Ti-writer or the Assembler and type in EXACTLY what you see. You don't have to understand it. Then save each example as an individual file name Eg ZCHARS/S the S standing for source code. Next load assembler and follow the prompts, saving the output as eg ZCHARS/O, O standing for object code. Hit enter at the prompt for list device, and leave only R in the options prompt. If you've typed them correctly you'll be presented by a prompt daying 0000 errors. I've double checked them today and they all work, so if they won't assemble its definately your typing.

These are undoubtedly bad assembler and not code efficient, but they work. They won't take up any extra space in your extended basic program because they occupy a spot in the computer not used by basic program space or stack. To use them all in program simply use the your following code to load them at the start. They are offered without any commentry or explanation as to how they work. Brian Rutherford popped in today and tells me he has finished a similar routine, which does all this but exists as a single program instead of multiple files, so you may prefer to use his instead.

10 CALL INIT::CALL LOAD("DSK1.ZCHARS /O", "DSK1.FRAME/O", "DSK1.BOX/O", "DSK1.BOX/O", "DSK1.PCLS/O")

BOX ROUTINE.

This draws a box of any size on the There i 5 NO screen. VALIDATION, so if you write a column or row etc outside of the mormal 1-32 cols, or 1-24 rows, or incorrect heights, widths, you will get erratic results or lockup. This of course will not happen in your program if you pass the correct Note that this routine parameters. works on the same screen area as that used by HCHAR, VCHAR etc, ie col 1 for these routines is same as for these subprograms.

To use include the following:

Eg 100 CALL LINK(*BOX*,5,5 20,10) will draw a box starting at row $5,col\ 5$ (of 32) being 20 wide and 10 high.

PART CLEAR SCREEN

This clears a box sized area within the screen display area as used by the DISPLAY AT(X,Y) subprogram is will clear from column 1 to 28, the same area you can display text in, in extended basic. To call it use:

LL

LINK("PCLS", row, col, width, height).

FRAME ROUTINE.

was written as an aid to presentation of documentation. The program does can be written using ti-writer, right justified etc, and then loaded in as pages 22 lines at a time. The frame routine is used

GALL LINK ("FRAME")

first as:

Before subsequent pages are displayed the PCLS routine can be used to clear the inside of the framed area quickly as opposed to wary slowly in basic. Here is a sample subprogram to acheive this:

100 SUB HELP

110 GO TO 120 :: B,X,As,K,S :: !@P-

120 ON ERROR 230

130 OPEN #1: "DSK1.DOCUMENT", DISPLAY

, INPUT , VARIABLE 80

140 CALL CLEAR :: CALL

LINK ("FRAME")

150 FOR E=1 TO 6 :: REM 6 PAGES

160 CALL LINK("PCLS", 2, 1, 22, 28)

170 FOR X=2 TO 23

180 LINPUT #1:A\$:: DISPLAY

AT(X,1)SIZE(28):A*

190 NEXT X

200 CALL KEY(0,K,S):: IF S=0 THEN

200 ELSE IF K=15 THEN CLOSE #1 ::

SUBEXIT

210 NEXT B

220 CLOSE #1 :: SUBEXIT

230 CALL CLEAR :: DISPLAY

AT(11,1)SIZE(28): Doc file error -

Redo/Back" :: CALL

LINK("BOX",10,2,3,30):: ON ERROR 240

:: CLOSE #1

240 CALL KEY(0,K,S):: IF S=0 THEN

240 ELSE IF K=6 THEN 120 ELSE

SUBEXIT

250 !@P+

240 SUBEND

ZCHARS ROUTINE

Once loaded before using any of these routines you must link to the new character set, which contains descenders and the necessary graphics characters to allow display of the boxes etc, by:

CALL LINK("ZCHARS")

DEF BOX VMBW EQU >2024 VSBW EQU >2020 NUMREF EQU >200C FAC EQU >834A MYREGS BSS >20 SAVRTN DATA >0 ROW DATA >0000 COL DATA >0000 WIDTH DATA >0000 HEIGHT DATA >0000

* CALL LINK

* ("BOX",Row,col,height,width)

* for col 1->32, row 1->24

* ASSEMBLE WITH R OPTION ONLY

¥

BOX MOV R11, @SAVRTN LWPI MYREGS

> LI R2,1 @GETNUM BL.

INC R2

MOV

BL @GETNUM

R3, @ROW

DEC RJ

MOV R3,@COL

INC R2

BL **EGETNUM**

MOV R3, @HEIGHT

INC RZ

BL @GETNUM

MOV R3,@WIDTH

CLR R3

SETUP MOV @ROW,R3

> DEC R3

SLA R3,5

@COL.R3

ULC

LI R1,129

MOV R3,R0

DEC RO

BL **@CORNER**

TOPLIN

MOV @WIDTH.RZ

LI R6,124

BL BLINE

URC

LΙ R1,123

BL **@CORNER**

RSIDE

MOV @HEIGHT,R2 LI R6,136

GSIDES

LSIDE

MOV R3, R0

LI R6,128 MOV @HEIGHT, R2

BL @SIDES

•			RO	W	DATA	>0000
LLC	ΑI	RO,32		L		>0000
	DEC	RO	1	DTH		>0000
	LI	R1,126	í	IGHT		>0000
	BL	•	''-	20111	2616	70000
· ·			1			
BOTLIN	MOV	@WIDTH, R2	*	CALL T.		
	LI	· · · • —		CALL LIN		
		-				ol,height,width)
	BL	@L I NE				JX" routine
			*	these ~	EB di	isplay at(r,c)
LRC	LI	R1,127	*	assemble	with	n R option
	BŁ.	@CORNER	*			
	JMP	FINISH	1			
			PC	LS	MOV	R11,@SAVRTN
RETURN	₿	*R11				MYREGS
CORNER	INC	RO	į		LI	R2,1
	MOV	R11,R10			BL	@GETNUM
	BL	@PUTCHR	l		DEC	R3
	MOV					
	В	*R11	1		MOV	R3, @ROW
		71144	İ			
LINE	INC	RO			INC	R2
C T 1/4 E					BL	@GETNUM ·
	MOV	•	ì		MOV	R3,@COL
	MOV	· - ,				
	BL	@PUTCHR ·			INC	R2
		R10,R11			BL	EGETNUM
	DEC	R2	ļ		MOV	R3,@HEIGHT
	CI	R2,2	İ			,
	JGT	LINE	l		INC	R2
	В	XR11			BL	@GETNUM
			1			
PUTCHR	SWPB	R1	<u> </u>			R3,@WIDTH
	AI	R1,>4000			CLR	R3
		evsbw				
	B	*R11	3E			@ROW,R3
	•	KK11				R3,5
GETNUM	CLR	RO			ΑI	R3,-32
OL MON					A	@COL,R3
	MOV	R2,R1			MOV	@HEIGHT,R5
		@NUMREF_	•			
	MOV	GFAC, RJ	TO	PLIN	MOV	@WIDTH,R2
		R3,>00FF			LI	R6,32
	B	*R11				R3,32
						R3,R0
SIDES	MOV	R6,R1	l		BL	@LINE
	AI	RO,32				
•	MOV	R11,R10				R5
	BL	GPUTCHR			CI	R5,0
	MOV	R10,R11				TOPLIN
	DEC	R2			JMP	FINISH
	CI	R2,2				
	JGT	SIDES	LIN	4E	INC	RO
					MOV	R6,R1
	В	*R11			SWPB	R1
FINICH					ΑI	R1,>6000
FINISH		>83E0			BLWP	evsbw
	3 B	@>837C,@>837C			DEC	R2
	MOV	@SAVRTN,R11				R2,0'
	RT					LINE
	END				B	*R11
		<u> </u>				A IS & &
				T h !! 15-0	C1 ->	20
	DEL	PCLS	65		CLR	RO
VSBW		>2020			MOV	R2,R1
NUMREF		>200C				@NUMREF
FAC	EGU	>834A			MOV	@FAC,R3
MYREGS	BSS	>20			ANDI	R3,>00FF
SAVRTN					B	*R11
JHVKIN	DATA	⁷⁹				•

```
FINISH
          LWPI >83E0
                                          ADJ2
                                                          RO,32
                                                    LI
               @>837C,@>837C
                                                     LI
                                                          R1,>8300
          MOV
               @SAVRTN,R11
                                                     ΑI
                                                          R1,>6000
          RT
          END
                                          REDGE
                                                    BLWP @VSBW
                                                     CI
                                                          RO,704
                                                     JEQ
                                                          ADJ3
                                                     ΑI
                                                          RO,32
                                                     JMP
                                                          REDGE
                                          ADJ3
                                                    LI
                                                          RO,63
                                                    LΙ
                                                          R1,>8300
          DEF
               FRAME
                                                    ΑĮ
                                                          R1,>6000
VMBW
          EQU
               >2024
VSBW
          EQU
               >2020
                                         LEDGE
                                                    BLWP GVSBW
MYREGS
          BSS
               >20
                                                    CI
                                                          RO,735
SAVRTN
          DATA >0
                                                    JEQ
                                                         FINISH
                                                    ΑI
                                                         RO,32
                                                    JMP
                                                         LEDGE
* DRAWS HEAVY FRAME AROUND
* WHOLE SCREEN used as
* CALL LINK("FRAME")
                                          FINISH
                                                    LWFI >8JE0
* ASSEMBLE WITH R OPTION
                                                    SB
                                                         @>837C,@>837C
                                                    MOV @SAVRTN,R11
                                                    RT
FRAME
          MOV R11, @SAVRTN
                                                    END
          LWPI MYREGS
          JMP
               CORNRS
CORNRS
                                        SAMPLE PROGRAM ON USE
          LI
               RO, O
          LI
               R1,>8400
               R1,>6000
          ΑI
          BLWP @VSBW
                                        To illustrate the use of all these
                                        above, just type in the short sample
          LI
               RO,31
                                        program below, and it will show you
          LI
               R1,>8500
                                        how quick these things can be done.
          ΑI
               R1,>6000
          BLWP @VSBW
                                        10 CALL INIT :: CALL
                                        LOAD ("DSK1.CHARS/O", "DSK1.BOX/O",
          LI
               RO,736
          LI
                                        "DSK1.FRAME/O", "DSK1.PCLS/O")
               R1,>8600
          AI
               R1,>6000
                                        20 CALL LINK("ZCHARS")
                                        30 CALL SCREEN(5):: FOR A=1 TO 14 ::
          BLWP @VSBW
                                        CALL COLOR(A, 16,5):: NEXT A
          LI
               RO,767
                                        40 CALL CLEAR :: CALL
          LI
               R1,>8700
                                        CHAR(34, "FFFFFFFFFFFFFFF"):: CALL
          ΑI
               RI, >6000
                                        MCHAR(1,1,34,768)
          BLWP GVSBW
                                        50 GDSUB 100
                                        60 CALL LINK("PCLS",8,10,10,10)
                                        70 GOSUB 100
          LI
               RO. 1
               R1,>8200
          LI
                                        80 CALL
          ΑI
               R1,>6000
                                        CHAR(34, "0000000000000000"):: CALL
TOPLIN
          BLWP @VSBW
                                        LINK("FRAME"):: CALL
          CI
               RO,30
                                        LINK("BOX",8,12, 10,10)
              ADJ1
                                        90 GO TO 90
          JEQ
          INC
               RO.
                                        100 DISPLAY AT(1,8)SIZE(14): Press
          JMP
               TOPLIN
                                        any key" :: CALL KEYCON :: RETURN
ADJ1
          LI
               RO,737
                                        110 SUB KEYCON
BOTLIN
          BLWP @VSBW
                                        120 CALL KEY(0,1,5):: IF S=0 THEN
          CI
               RO,766
                                        120
               ADJ2
                                        130 SUBEND
          JEQ
          INC
          JMP
               BOTLIN
                                        R. Terry
```

THE INFORMATION PAGE

IN YOUR NEWSLETTER THIS MONTH

Wright In the News - a round-up of TI happenings Carmany В. Random Bytes Quigg Ν. QED CPU PAD Modification Struggling FORTH - Super Forth screen print R. Terry Smith Brisbane TI-Faire Sughrue PLUS! - details of the Fairware package J. Call Files-(3) В. Carmany Lawrence FUNNELWEB 4.10 -what its all about Α. Terry Character Set revisited R. Terry Assembly Language Box routines

PLUS MUCH MUCH MORE!!!!!

COMING EVENTS

Next Committee Meeting: Tuesday 5th July, 1988 General Meeting: Tuesday 19TH JULY, 1988 (3rd Tueday in month)

AGENDA FOR JULY MEETING

BASIC games demonstrations Drawing of Multiplan Raffle

CLASSES AVAILABLE FOR MEMBERS

Genealogy (TYFA) Group - Thursday 23rd June at Warners Bay

ANNUAL SUBSCRIPTIONS

Subscriptions to the Group cover the period 1 July to 30 June following year. Membership enquiries are welcome; please address all enquiries to the Secretary.

The annual subscription is:
Australian Residents...\$25
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