

THE HUG
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1985

Sydney News Digest

COMPUTER WAVE

325 George Street
(Near Wynyard Station)
Sydney
Phone: (02) 29 1631

PTY LIMITED

upstairs for all your

TI computer needs

"COUNTDOWN" X BASIC Cassette program for only \$15.

COUNTDOWN IS THE SECOND GAME FROM JOHN ASHMORE AND IS TOTALLY DIFFERANT FROM THE FIRST, IT IS AN ARCADE TYPE OF GAME AND MOVES AT A FAST PACE. IT HAS A NUMBER OF INTERESTING AND GOOD FEATURES A LASER THAT WORKS ALMOST THE SAME AS THE ONE IN PARSEC INCLUDING THE OVERHEAT FEATURE. A HIGH SCORE RECORD AND THE LASER HAS A HAIR TRIGGER SPEED BY THE WAY AND ALSO THE SPRITES GO UP TO MAX SPRITE SPEED MAKING IT A VERY FAST GAME. THIS GAME HAS TO BE SEEN TO BE BELIEVED, GREAT GRAPHICS AND THOUGH NO MUSIC THE SOUND EFFECTS ARE EXCELENT.

THE PURPOSE OF THE GAME IS SIMPLE TO DEFEND A NUCLEAR STATION THAT IS UNDER ATTACK BY TERRORISTS AN ENDLESS AMOUNT OF ROCKETS COME FLYING IN AT VARYING HEIGHTS ANGLES AND SPEEDS YOUR JOB STOP THEM WITH A GROUND BASED LASER AT THE BOTTOM OF THE SCREEN. BUT SHOUD YOU FAIL ALL IS NOT LOST THE ROCKETS ARE NOT POWERFUL ENOUGH TO DESTROY THE STATION ONLY CRACK THE SHIELDING.

WHICH OF COURSE HAS TO BE SEALED AND GUESS WHAT THERE ARE SOME LEAD BLOCKS CLOSE BY TO DO THE JOB. YOU CAN NOW MOVE THE TANK. THE TANK IS EQUIPPED WITH A LASER WHICH IS JUST AS WELL AS THE ROCKETS NOW COME DIRECTLY AT YOU, THIS IS NOT ALL THE TERRORISTS, NO BUNNIES HAVE EQUIPPED THESE ROCKETS WITH BOMBS SO WHEN YOU BLAST THE ROCKET IT DROPS THE BOMB ON YOU, MAYBE?

ONCE THE LEAD BRICK IS PLACED IN THE REACTOR THE FLOOR PLAN OF THE BUILDING APPEARS AND THEN ITS A FAST RACE UP THE LEVELS USING JUMP DOORS TO GET TO THE LEAK. THIS SECTION OF THE GAME IS RELITIVELY EASY AND SEEMS TO BE WHERE THE GAME GET'S IT'S NAME AS THERE IS A COUNTDOWN TIMER ON THIS LEVEL WHICH COUNTS THE TIME FOR THE LEAK TO BE SEALED. OO THE TIME IS AMPLE UNTIL YOU REACH 1500 POINTS THEN THERE IS NO ROOM FOR ERROR AS FAILURE ENDS THE GAME. THE ONLY DANGER HERE IS THAT YOU MIGHT TOUCH THE SIDE WALLS WHICH SENDS YOU BACK TO TO BOTTOM LEVEL THERE WITH MINMUM TIME TO START AGAIN.

ON SAVING THE WORLD OPPS! SORRY THE NUCLEAR REACTOR IT STARTS AGAIN WITH THE ROCKETS SPEED GOING UP A NOTCH. POINTS ARE SCORED BY HITTING EACH ROCKET AND COMPLETING EACH OF THE TASKS AND A BONUS LIFE IS EARNED AT THE 1500 POINT LEVEL THE GAME RUNS IN EX/B NO JOY STICK IS NEEDED AND IS THE FASTEST GAME I HAVE SEEN ON CASSET, AND OVERALL DEFINITLY A VERY GOOD BUY.

A comprehensive range of Texas Instruments

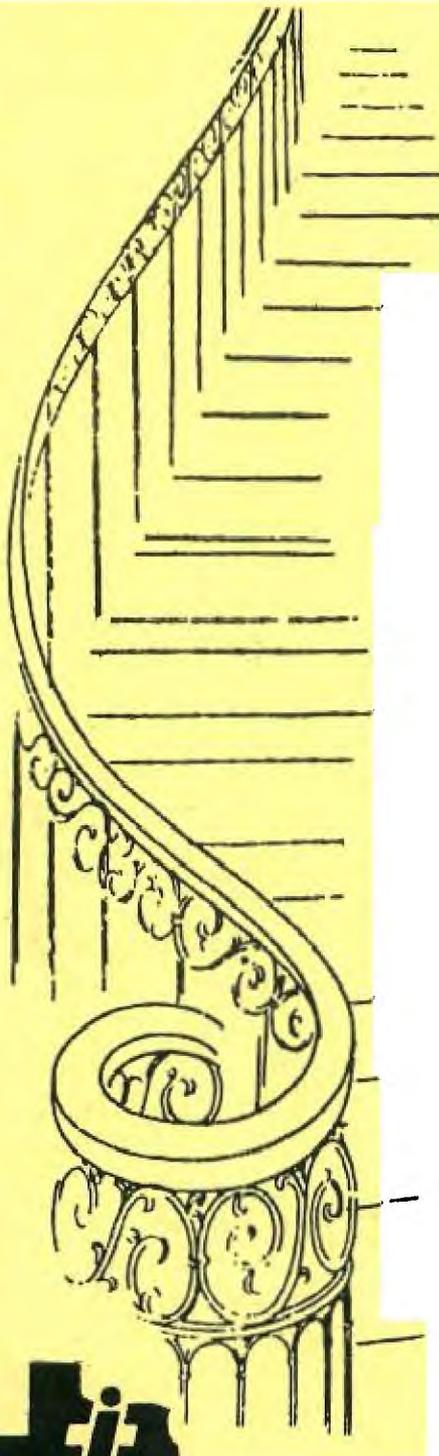
Education, Games, and Personal Business

cartridges + many 3rd party cassettes.

We also have TI-99/4(A) Peripherals and

hardware like Modems, Monitors & Printers.

We specialise in cables for your hardware needs



Come up and see us some Time! **IMAGIC**



Hello once again for another year. This year is going to be another one full of activities, as you can see from reading this issue of SND.

I'll just that this opportunity to send a cheerio call to my Assistant Editor who has not been well. He has had pain in his hands and unable to assist with this publication...and I pray like crazy that they get better ready for the next one...hurry up hands! Also for our Art Director, Jim Howard, who has been ill recently. Hope things work out soon.

This will be a combination column of both EDITORIAL and COMMUNICATORS, for this issue...

|||||
So! you want to contact THE WORLD
Here is a guide to do just that!
|||||

Global Communications with Modem is fast becoming a big interest to all with modems. So I thought that I would briefly clue you in on contact to do just that.

The communicate with such centres in the U.S.A as The Source and DIALOG/Insearch...you need an account with MIDAS Marketing. It should cost you nothing to apply for Midas access but it helps if you know which Service you want them to link you to.

Write or phone for details to...
MIDAS MARKETING. G.P.O. Box 7000
Sydney 2001. Tele:(02)230 5000 or
Telex:AA20591.

Once you have opened your Midas Account then you can apply for other services.

Like: DIALOG/INsearch. P.O.Box K16.
Haymarket. NSW 2000 or phone
(02)2122867. This is the Sydney
office for a huge computer-base in
the U.S.A. They will send you out a
large folder of valuable details
relating to all the goodies available
from them.

THE SOURCE: Contact Humphrey Lindley
at P.O.Box 77. ZILLMERE. QLD. 4034.
or phone him on (07)2636161 anytime
up to 9pm. He uses that system and
can provide you with further details.
Or contact SEAHORSE COMPUTERS (in the
Sydney Phone book).

SDC Information Service. ORBIT SEARCH
SERVICE. ATT:Katie Blake (Manager).
P.O.Box 439. Milsons Point. 2061.

I.P.SHARP Associates. APL TIME-SHARING
NETWORK.
8th Floor. Carlton Centre. 55
Elizabeth Street. Sydney.
Phone(02)232 6366.

Each of the addresses can link you to their systems via Satellite to the U.S.A through MIDAS.

Early this year, I plan to arrange another BBS PARTY and Night out at either DIALOG or MIDAS Sydney Centres. If you are interested, please let me know.

TI ADDENDUM *****

Star Micronics, manufacturer of the gemini printers has produced an addendum to it's User Reference Guide, which relates specifically to the TI home computer. Should you want this book, contact the above company at No. 3 Oldfield, Irvine, California, 92714, USA.
INFOCOM-UNIQUE :

INFOCOM very well noted for their fantastic ADVENTURES are now making a ful range of these top-line brain games for the TI-99/4(A) and TI PROFESSIONAL Users throughout the world.

TITLES LIKE...ZORK 1, ZORK 2 & ZORK 3
plus DEADLINE..WITNESS..STARCROSS..
SUSPENDED..PLANETFALL..ENCHANTER..
SORCERER..INFIDEL & SEASTALKER.

Write to them at:INFOCOM Inc. 55
Wheeler St. CAMBRIDGE. MA 02138
U.S.A. or phone
ISD:0011-1-617-492-1031 . If you are
a Dealer or Distributor...ask for
Gayle Syska

SUBJECT:NEW MULTIPLAN BOOK

Since Multiplan is not Machine-specific worksheet models should work on any machine. There is a new book out which contains many models for business and home use. It's called 'TIPLAN Home and Office Companion'. The cost is only \$16.96 U.S. and well worth it. Publisher is McGraw-Hill, ISBN# 0-88134-133-9. If you're into Multiplan, this is the one to get.

SUBJECT:MICROPENDIUM

TI SOFTWARE PRICES DRASTICALLY REDUCED.

Contact HOME COMPUTERS. 1055 Taylor Ave. Towson. MD or Phone (ISD) 0011-1-301-3372733.

SUBJECT:TERMINAL EMULATOR ON DISK

This is just the product the thing as a very powerful alternative to your Terminal Emulator Cartridge.

It's called the TE-1200* and sold through SOFTMAIL Inc. P.O.Box 745 ROCKWELL. TEXAS U.S.A. 75087.

The disk is priced at \$49.95 (U.S.). Some of it's features:both 300 and 1200 baud transmission. No more having to stop and dump to disk by screen...this one automatically put

all communication to disk and can be retrieved at the press of a button.

TE-1200* Does not facilitate speech or graphics. You will need 32K memory/ Disk system/RS232 and Editor Assembler cartridge.

TENEX COMPUTER EXPRESS

The following listing has been provided by TENEX COMPUTER EXPRESS. P.O.Box 6578 South Bend. IN. U.S.A. 46660 Phone:0011-1-219-259-7051.

VISACARD and MASTERCARD are welcome...

They carry a huge range of Hardware and Software for the Texas Instrument 99/4A Home Computer...including JOYSTICKS, POWER SPIKE REDUCERS, DISK-CASSETTE & MODULE STORAGE BOXES DUST COVERS,CABLES,PRINTERS, MODEMS, PAPER,DISKETTES,DRIVES, RECORDERS, MONITORS not to mention the incredible reange of 3rd PARTY SOFTWARE like...

*SUPER EXTENDED BASIC *And software from great software producers like...

AMERICAN SOFTWARE .. FUTURA .. KEAN COMPUTING .. PARKER BROTHERS .. REPUBLIC SOFTWARE .. NORTON SOFTWARE .. ATARISOFT .. MOONBEAM SOFTWARE .. EXTENDED SOFTWARE .. PEWTERWARE .. CHALLENGER .. MAPLEAF .. INFOCOM .. NOT POLYOPTICS .. MICROCOMUTER GAMES .. MICRO PAL .. KIDWARE .. MicroEd .. PSI LAB. Each and everyone of these software houses make at least half-a-dozen different and challenging programs just for your 99/4A computer.

Write away for their 50 PAGE cattledog and be stunned by the support.

And when you write away,tell them you are a member of TI.S.H.U.G.

UNISOURCE Electronics In.

This is the other BIG distribution centre for TI HARDWARE & Software in the U.S.A.

They can be reached on 0011-1-806-7458834 (I.S.D).

AMERICAN SOFTWARE DESIGN Co.

P.O.Box 46, Cottage Grove. MN 55016 (I.S.D.):0011-1-612-4590557

O.K. How's that for an overall report. See you at the FULL-DAY TUTORIAL WORKSHOP. BYE 4 NOW.
SHANE.

A SMILE



IS THE SHORTEST DISTANCE BETWEEN TWO PEOPLE

Jenny's YOUNGER SET under 18's page

Hello gang! Well, another year of having fun with your TI.

Firstly, I want to say a special HI! to all the new members who have recently joined TI.S.H.U.G. and Younger Set.

The Younger Set PAGE is dedicated to all Under 18's in this club. A time to share your HIGH SCORES in the Hall Of Fame, plus have your programmes printed in your very own page.

I have received some mail from you, and I have some other good news. But before I share that with you, there is a program for you to type in, called ...

Mickey Mouse



```

100 REM PIC OF MICKEY MOUSE
      DONE BY DAVE ROSE
105 CALL CLEAR
110 CALL SCREEN(16)
112 FOR I=1 TO 14
114 CALL COLOR(I,2,1)
116 NEXT I
130 FOR I=35 TO 138
140 READ A$
150 CALL CHAR(1,A$)
160 NEXT I
170 RESTORE 520
180 FOR I=2 TO 13
190 FOR J=13 TO 19
200 READ A
210 CALL HCHAR(1,J,A)
220 NEXT J
230 NEXT I
240 FOR I=18 TO 20
250 FOR J=6 TO 26
260 READ A
270 CALL HCHAR(I,J,A)
280 NEXT J
290 NEXT I
300 CALL KEY(O,K,S)
310 IF S=0 THEN 300
320 CALL CLEAR
330 END
340 DATA 0000000000000001,00
000000073F7FFF,000000080F0F
8FC,000000000010303,000
73FFFFFFF,00C0F0FCFEFEFF
FF
350 DATA 0303070707070707,FF
FFFFFFFFFFFF,FFFFFFFFFFFF
FFE,00000000071F3FFF,030
30303E1FFE3C1,FFFFFFFFF8
F8
360 DATA 07030301,FFFFFFFFF7F
1F,FFFFFFFFE1C1C3C,C3811820
200E112,8C928200001C2281
,FF7738381C1C1E1E,FOC
    
```

```

370 DATA 3C3C3E3E3F3F301,202
0262727128001,011939391100F8
FC,1E3E3E3E41,0000000000
804040
380 DATA 2020202110100807,01
4181404020100F,FCFCF8F000010
6FC,402050818204186,4040
8
390 DATA 0000000103070F0F,00
OFFFFFFFFE7EFD,C2F1F8FEFFFFFF
FF,2409F3078FFFFFFF,8000
008080C0C0E
400 DATA 0F0F060404080808,80
00387878787161,1F070060F0F0F
OF,FFFFFFF7B3B131F0F,E0E0
F0F0F8F8FCFC
410 DATA 0808080804040404,01
01,FOE0C,0F0F0F1F1C10101,FOE
0E08
420 DATA 0808080403,00100804
02EF1F0F,0000000000FF7FBF,1C
1008080830CEC1,000000000
00000E
430 DATA 00000000001F608,070
3010100C03C03,BFDFDFEF77B7
1B,C0C0E0E0E0F0F8FC,1F,0
0F8060101010638
440 DATA 000101010101,800000
0000008040,000C020101,1F0B08
0C0A894804,FBFBF00000810
204,F01E0201408,000000C03008
0404
450 DATA 20180403,000000807F
,040A19608,081000C020180601,
00000000000003FC,0404040
810608
460 DATA FCFCFCFC3038383C,03
03030300010103,F0F0F0FC0C0C
0C0,3078783000000007,0000
00000000003E,1C1C1C04040404
4
470 DATA 00000000000000F8,00
0000000000001F,000000000000
07C,343633333131FCFC,020
60C0C9898F363,C0C0C0C0C0C0F0
F0
480 DATA 707010101010107C,7F
7F41404040417F,0404040507040
41F,F8F860804060307C,7F7
F41417E40417F,1F1F0404020201
01
490 DATA 7C7C1010202040C,FCF
C,6303,F0F0,7C7C,7F3E,1F1F,0
000000000030303,80808080
80E0E0E0
500 DATA 000000000000001C,00
00000000000007,7F7F4141414141
7F,1C1C08080808080F,7171
2121202021F9
510 DATA FCFC0400F80404FC,0F
07,F9B8,FCF8
520 DATA 35,36,37,32,38,39,4
0,41,42,43,44,45,42,46,47,48
,49,50,51,52,53
530 DATA 32,32,54,55,56,57,5
8,32,32,59,60,61,62,63,32,64
,65,66,67,68,32
540 DATA 32,69,70,71,72,73,3
2,32,74,75,76,77,78,32,32,79
,80,81,82,83,32
550 DATA 32,84,85,86,87,88,8
9,90,91,92,93,94,95,96,32,97
,98,99,100,101,102
560 DATA 103,104,105,106,107
,108,109,107,110,111,32,32,3
2,103,104,105,107,130,13
1,109,107
570 DATA 112,113,114,115,116
,117,118,119,120,121,32,32,3
2,112,113,114,132,133,13
4,135,119
580 DATA 122,123,124,125,126
,127,125,126,128,129,32,32,3
2,122,123,124,126,136,13
7,138,126
    
```



Sydney News Digest

YOUNGER SET with Jenny

(continued) ...

Did you recognise yourself in those photographs taken at the recent Christmas Party?

Shane has told me that he will be putting more of Party Pictures throughout this Magazine...so watch out for them.

Here is a letter from MARK HORNELL of Picnic Point...

Dear Jenny,

My name is Mark and I am a member of T.I.S.H.U.G. I have enclosed some of my top for the HALL OF FAME... CATERPILLAR .. 242 and SNAKE 1190. Mum has signed to verify my scores.

CONGRATULATIONS MARK, I WILL PUT THEM IN THE BOOK FOR LATER.

Here is another letter, from P.NICHOLLS...he has written to tell us his high score with BUCKROGERS of 120,244. His dad verified this high score.

Now here is a different letter. It is from an up and coming cartoonist called PETER LEES (hope I spelt that right) aged 12 and a half...

DEAR JENNY,

I HAVE REACHED MY HIGH SCORE OF 490300 ON MICRO SURGEON, SO I HAVE DECIDED TO SENT IT IN WITH AN 'IDEA' I HAD LAST WEEK...HOW ABOUT HAVING A 'Younger Set' CARTOON MASCOT TO PUT ON YOUR PAGE IN SND ? I HAVE SENT ALSO A FEW CHARACTERS ON THE ENCLOSED SHEET. HERE IS MY FAVOURITE:

PETER PARSEC



ALTHOUGH YOU MAY THINK OTHERWISE. ALSO, FOR THOSE WHO HAVE TROUBLE GETTING BALLOONS ON XBASIC (yes, party balloons) HERE'S A

SAMPLE:"03070F0F1F1F1F1F0F0703 0100010201C0E0F0F0F8F8F8 F8F8F0E0C08080000000".

YOU MAY WISH TO EXPERIMENT WITH IT. PUT THE FINISHED CHARATOR ON THE SCREEN WITH MAGNIFICATION(3) AND A SPRITE; SOMEONE MAY EVEN COME UP WITH A GAME WHERE YOU HAVE TO SHOOT THE BALLOONS!

Gorping Gary



Thinga-ma-jig



Religious Roy



Peter Parsec



WELL, THATS ALL FOR NOW, I HOPE TO WRITE REGULARLY TO HELP MAKE THIS COLUMN A PAGE. PETER.

Well, Peter, you did help make it a 2 page special, and I thank you for your comments and cartoon work. Keep up the good work and keep those letters coming in. Jenny.



I hope to you'll come along to the next meeting...which is going to be the FULL DAY WORKSHOP TUTORIAL DAY...on Saturday the 2nd of February.

It will be a great day of fun and learning all about programming plus Peter Varga, our Club Co-Ordinator will be doing demonstrations of PLATO EDUCATIONAL SOFTWARE. Peter has started a Special Interest Group of PLATO Users within the club, and you'll want to check-out this very interesting form of Education.

Well, that's it for now. Keep those letters coming in, and I'll have some more fun for you next month.

Bye for now.

JENNY.

Jenny
P.S. MORE NEWS OF YOUNGER SET IN THIS SND I'M GOING TO BE ON THE BBS

In May of this year, we will be 4 years old. And so far, have fast become one of the (if not the) largest Computer User Groups in Australia, With over 1,000 members and around 120 of them with modems that are linked into our very popular TEXPAC Electronic Bulletin Board Service (BBS). Our Auditorium is getting just a bit too large to fit every one in, and so we think we have found a great new venue which we hope to move into by April or May.

We generally have a great deal of fun together at both our Main meeting and our Home Regional get-togethers. The photographs we are about to share with you...taken by Maurice, are some scenes from these meetings. Oh! by the way, the photo of everyone with their hands up in the air is not a mass hold-up...Shane took us through some quick stretches after a long talk from one of our guests.



Sydney News Digest



ERROR HANDLING IN EXTENDED BASIC

BY MIKE SLATTERY

The following program demonstrates the use of the error handling routine of extended basic. This even includes I/O errors from trying to read from an empty drive.

```

100 CALL CLEAR ::ON ERROR 1000
110 OPEN #1:"DSK1.",INTERNAL,
    RELATIVE,INPUT
120 INPUT #1:A$:PRINT A$
130 CLOSE #1 ::GOTO 170
140 OPEN #1:"DSK1.AFILE",INTERNAL
    INPUT
150 INPUT #1:B$:PRINT B$
160 CLOSE #1
170 REM REST OF PROGRAM
.
.
1000 CALL ERR(CODE,TYPE,SEVER,
    LINE)
1010 IF LINE<>120 THEN 1020 ::ON
    ERROR 1000 ::RETURN NEXT
1020 IF LINE<>130 THEN 1030 ::
    GOSUB 1100::RETURN 110
1030 IF LINE<>140 THEN 1050
1040 PRINT "I/O ERROR ";CODE;"IN
    LINE";LINE:"CHECK FOR DISC
    NOT PRESENT,": "NOT INSERTED
    CORRECTLY,NOT": "INITIALISED
    OR DRIVE DOOR OPEN":GOSUB
    1100::RETURN 140
1050 PRINT "ERROR ";CODE;"IN LINE"
    ;LINE:"CHECK FOR CAUSE":GOSUB
    1100::RETURN 170
1060 END
.
.
1100 CALL KEY(O,A,S)::IF S=0 THEN
    1100::ON ERROR 1000::RETURN
    
```

This program reads the disc name off a disc and prints it. It also reads other information off the disc and prints this.

The program works as follows: If there is a disc drive problem the first error detected will be in line 120 when the program tries to read the information on the disc catalog. The program transfers to line 1010 which resets the error handling routine and returns the program to line 130 to close the file opened in line 110.

Line 130 will now cause an error as the file is apparently not truly open. Line 1020 handles this error and prints a message to tell you to check the drive for the problem and also resets the error handling routine. After the drive has been checked to determine the cause of the error and correct it, press any key to continue and the program will read the disc catalog again.

If there is no further error at this stage, the program will go to another part and eventually return to line 140. If there is another problem the error will be handled by line 1030 which again prints a message and resets the error handling routine before returning to line 140 to read the file again.

Note the difference between the two attempts to read from a disc. In the first instance the error does not occur until the program

tries to read from the file and the file must be closed before it can be reopened again.

In the second instance the file is never opened at all and thus does not need to be closed before opening again.

NOTE 1: The error handling routine MUST be reset after every error or the program will crash on the next error.

NOTE 2: It is essential to set the error handling routine at the start of the program to ensure all errors are detected before they crash the program.



T.I. Printers/Years of trouble Free Service.

Texas Instruments printers have provided years of trouble-free service at major airline ticket counters, satisfied the fast-paced needs of the international media services and kept the world banking community up-to-date. Printer dependability is the best assurance that you're getting the most for your money.

The flood of sophisticated personal computers has created a demand for a whole new generation of dependable printers that can print data at high speed, yet also be able to print letter quality correspondence and documents on demand.

The new 855 can satisfy this seemingly impossible demand. In fact, TI has reliable printers designed for high speed, wide carriage applications and telecommunications.

The 855 is designed to work with every major brand of personal computer and can handle every printing task from letter quality correspondence, reports and contracts, to spreadsheets, charts and graphs, invoices, purchase orders and cheques.

The 850 satisfies all the daily printing jobs where speed and legibility are important. Rough drafts of correspondence, internal memos, financial documents, accounting records, production orders and time-keeping record are typical assignments for the hard-working and reliable 850.

The 820 Receive-Only model is an ideal standalone printer for telecommunications areas. It can dependably operate unattended and works equally well with mini or mainframe computers. It is suitable as the main printer in a message centre, or as a continuous document printer for big jobs such as invoices and other sales documentation.

The 810 has demonstrated that day-in, day-out reliability is a reality. The rough and ready 810 is an outstanding performer for all types of form imprinting and data printouts. The Enhanced 810 adds improved letter quality and graphics to the standard model.

Sydney News Digest

SUPER COMPETITION ...

all the latest news about the
GRAPHX Contest.



Here is the very latest news concerning the new GRAPHX contest: This event will consist of 3 areas for Judging by RON DAVIS (Author) & SHANE ANDERSEN...

- (1)....* BEST CLIPBOARD ANIMATION,
- (2)....* BEST SCREEN PICTURE, and
- (3)....* BEST PRINTABLE PICTURE.

The contest will commence from Saturday 2nd February and will go through to 1st of June. So there is plenty of time for you to buy your copy of GRAPHX and get to work and create a masterpiece.

You can submit as many entries as you like ON DISK, however, when those disks are submitted, they will become property of T.I.S.H.U.G. instead of an Entry Fee.

THE PRIZES: If you are a lucky winner of one of the 3 sections...you will WIN

- (1)....* A complete collection of all entries submitted, and
- (2)....* The very latest GRAPHX UTILITY disk to be marketed by June '85. This GRAPHX UTILITY will feature BANNER PRINTING & EXTRA HUGE PICTURES etc from your GRAPHX program. A sample of this will be show at the FULL DAY TUTORIAL WORKSHOP on Saturday 2nd February. This is one program you will want to get for your GRAPHX program.

Join in the fun...and get your entries in A.S.A.P. to

T.I.S.H.U.G. GRAPHX CONTEST.
P.O. BOX 595. MARRICKVILLE.
N.S.W. 2204.

This competition is for any Australian member of T.I.S.H.U.G...and the Judges decision of winners will be final.

If you still haven't obtained your GRAPHX program...it is available from either RON DAVIS (02)7139506 or COMPUTER WAVE P/LTD. 325 George St. Sydney N.S.W. 2000 at a charge of only \$50.00.

There are three versions...*EXTENDED BASIC. *EDITOR/ASSEMBLER and *MINI MEMORY. The latter has a few more Clipboards. You'll require 32k of memory...Disk system. If you wish to submit the SCREEN/PRINTER entry...you will also require RS232/PIO and DOT MATRIX PRINTER.

Good Luck.
Lets see how creative you can be.



THE JUDGES !!!



Now here is a like-able pair if I ever saw one... This is TRENT from IMAGIC and MARK our BBS Co-Ordinator. Would you buy a used car from these two?

Expertise in all areas of Technology

Texas Instruments Corporation's technology base is one of the broadest in the industry, with the company working at state-of-the-art advancements in materials, semiconductor devices and processing, computer systems, software and geophysical seismic technology.

The Corporation has over 50 plants in 19 countries and employs more than 83,000 people worldwide.

DATA SYSTEMS

TI is a major supplier of data systems products with an installed base of more than 100,00 computers and one million terminals and printers. A major portion of the company's computer research and development effort is involved with networking and voice recognition.

SEMICONDUCTORS

TI remains the world's largest supplier of semiconductors with its emphasis on

service, on-time delivery and quality.

CONSUMER PRODUCTS

Calculators and learning aids are an important sector of TI business. The company is the largest supplier of calculators to the US market, and a major supplier to the world market.

MATERIALS & CONTROLS

Areas of technology leadership include clad metals, connectors and electro-mechanical skills.

GOVERNMENT ELECTRONICS

TI supplies vital components for airborne radar, infrared and missile guidance technologies. Productivity tools play an important role in design aids, factory automation, etc.

GEOPHYSICAL EXPLORATION

TI is involved in the search for energy world-wide, with sophisticated technology being used in all aspects of exploration.



THE IMPOSSIBLE IS WHAT NOBODY CAN DO ...

UNTIL SOMEBODY DOES IT!

Sydney News Digest

PLAN TO ATTEND THE NEXT FULL-DAY/TUTORIAL WORKSHOP
It will be packed with activities...including the...

YOUNGER SET GAME COMPETITION FOR THE TUTORIAL WORKSHOP **3D-TENNIS** CHAMPIONSHIP MATCH

Younger Set (under 18's) are asked to be at the Hall early to Register to compete in this Big afternoon activity of Championship 3D TENNIS, with some great prizes to be won.

Some of the Guest lecturers will be as follows...

- * Shane Ferrett with ASSEMBLER.
- * Shane Andersen with MODEM COMMUNICATION.
- * Mark Nielsen with FILE HANDLING.
- * Russell Welham with PROGRAMMING MUSIC.
- * Peter Day with BASIC FOR BEGINNERS.
- * Tony McGovern with EXTENDED BASIC TUTORIAL.
- * Plus (and please forgive me for this, as I've lost the bit of paper with his name on it...and he's grid his teeth at me..) a class on FORTH.

The following will be repeated both Morning and Afternoon...so as to attend both:

ASSEMBLER, FILE HANDLING, PROGRAMMING MUSIC, and EXTENDED BASIC.

The class on BASIC FOR BEGINNERS will be conducted from 9:15(sharp) to Lunchtime, as will also the Demonstration of PLATO EDUCATIONAL SOFTWARE.

The afternoon only activities will be(right after. lunch)...MODEM COMMUNICATION and the YOUNGER SET CHAMPIONSHIP 3D TENNIS PLAY-OFF.

Lecturers are asked to bring your own TI HARDWARE, and the club will supply to some, overhead projectors.

MEMBERS: Please note...You will be required to bring those items as listed elsewhere in this publication.

There will be a limit of 250 people to attend this activity, and the entire day is provided with thanks to the members from the Committee of TI.S.H.U.G.

Unfortunately, ONLY FINANCIAL MEMBERS will be able to attend. You are asked to be prepared to stay the entire day. Late comers may not be able to attend due to disruptions of classes.

.. .N: \$3.00 each (or SALE \$2.00 by pringing your Discount admission ticket).

A TUTORIAL/WORKSHOP MAGAZINE will be provided at a low cost of \$1 each (only 250 printed) filled with programmes to type in, and Tutorials.

At the AGM there was a proposal put forward for an amendment to the Constitution:

***** NOTICE OF MOTION *****

Positions be made available on the Co-Ordinating Committee for representatives of any Regional Group. The representative to have full voting powers. If the representative cannot attend then a vote by proxy to be permitted.

The representative to be known as a District Delegate.

Moved by M.Tudor seconded by Mel Copeland. Amendment to the motion seconded by Norm Woolven.

ARGUMENT FOR THE MOTION:

The Petitioner, Mel Tudor, has not submitted a statement to the Secretary.

ARGUMENT AGAINST:

Your Committee recommends that the members vote AGAINST the proposed amendment. Any member is able to attend the Executive Meetings, and have a specific item either placed on the Agenda or brought up during General Business. At the November Meeting it was resolved that Regional Groups outside the Sydney Metropolitan area be self-supporting and that they run their group according to their own requirements.

Following on from discussions at the November meeting of your Co-Ordinating Committee it was decided to place the following Notice of Motion.

***** SECOND NOTICE OF MOTION *****

The financial year of the Association shall start on the first day of January and end on the last day of December each year. Moved by John Robinson seconded by Terry Phillips.

The changes in the wording of the Constitution required to alter the financial year will be as follows:

Under the heading FINANCE will read: (A) The financial year of the Association shall start on the first day of January and end on the last day of December each year.

Under the heading MEETINGS will read: (A) The Annual General Meeting shall be held in the month of February each year.

ARGUMENT FOR SECOND NOTICE OF MOTION:

With the January holiday break it will be easier to have audited accounts ready in time for the AGM which will be held in February instead of November. Your Committee recommends that the members vote FOR the proposed amendment to the Constitution.

ARGUMENT AGAINST:

A minority on the Committee suggested if a change was to be made then the new financial year should conform to the usual Australian Business Year i.e. end June 30th, start July 1st.

In accordance with the Constitution a vote will be taken by financial members at the March 1985 meeting.



Programming Music

By Russell Welham (Music Co-Ordinator.)

To start the article I will write some words about how I write my music programs.

To start with I have a small program which I load into the computer this has the REM statements, all the frequencies allocated to their variables, the variables used for the Duration and the Subroutines to generate the sounds.

```

1 !*****
2 !*
3 !* EXTENDED BASIC MUSIC !*
4 !*
5 !*     VARIABLES     !*
6 !*
7 !* BY RUSSELL WELHAM. !*
8 !*
9 !*****
11 AFO=779 :: A0=825 :: A90,
BFO=875 :: B0=923 :: C0=982
:: C80,DF0=1040 :: D0=11 0
2 :: D80,EFO=1168 :: E0=1237
:: F0=1311 :: F80,GF0=1389
12 A1=110 :: A81,BF1=117 ::
B1=123 :: C1=131 :: C81,DF1=
139 :: D1=147 :: D81,EF1 =
156 :: E1=165 :: F1=175 :: F
S1,GF1=185 :: G1=196
13 A2=220 :: A52,BF2=233 ::
B2=247 :: C2=262 :: C82,DF2=
277 :: D2=294 :: D82,EF2 =
311 :: E2=330 :: F2=349 :: F
B2,GF2=370 :: G2=392
14 A3=440 :: A83,BF3=466 ::
B3=494 :: C3=523 :: C83,DF3=
554 :: D3=587 :: D83,EF3 =
622 :: E3=659 :: F3=698 :: F
S3,GF3=740 :: G3=784
15 A4=880 :: A84,BF4=932 ::
B4=988 :: C4=1047 :: C84,DF4
=1109 :: D4=1175 :: D84, E
F4=1245 :: E4=1319 :: F4=139
7 :: F84,GF4=1480 :: G4=1568
16 G0=1471 :: G80,AF1=1559 ::
: G81,AF2=208 :: G82,AF3=415
:: G83,AF4=831 :: G84,A F
5=1661 :: R=40000
17 X=175 :: Y=X#2 :: Z=X#1.5
:: @=X#0.5 :: GOTO 30
20 CALL SOUND(T,S1,V1):: RET
URN
21 CALL SOUND(T,S2,V2):: RET
URN
22 CALL SOUND(T,S3,V3):: RET
URN
23 CALL SOUND(T,S1,V1,S2,V2)
:: RETURN
24 CALL SOUND(T,S1,V1,S3,V3)
:: RETURN
25 CALL SOUND(T,S2,V2,S3,V3)
:: RETURN
26 CALL SOUND(T,S1,V1,S2,V2,
S3,V3):: RETURN
27 CALL SOUND(T,S1,V1,S2,V2,
S3,30,-4,V3):: RETURN
28 CALL SOUND(T,S3,30,S3,30,
S3,30,-4,V3):: RETURN
29 CALL SOUND(T,S1,V1,S3,30,
S3,30,-4,V3):: RETURN
30 !*** SONG START ***

```

I then add to this the program information required to play the song that I want the computer to play.

Starting with the variable for duration then frequency and finally the volume level.

I then GOSUB to the subroutine required to generate the correct tone .

```

31 T=Y :: S1=C3 :: S2=E2 ::
S3=C0 :: V1,V2=0 :: V3=2 ::
GOSUB 28 :: T=Z ::
S3=C1 :: S3=C1 :: GOSUB 26 :: T=@
:: S3=E0 :: GOSUB 27
32 T=Y :: S1=G2 :: S3=G0 ::
GOSUB 29 :: T=Z :: S1=E2 ::
S2=C2 :: S3=E0 :: GOSUB
27 :: T=@ :: S3=G0 :: GOS
UB 27
33 T=Y :: S1=D2 :: S3=F0 ::
GOSUB 29 :: T=Z :: S1=E2 ::
S3=F1 :: GOSUB 24 :: T=@
:: S1=F2 :: S3=A1 :: GOSUB 24
:: T=Y :: S3=C1 :: GOSUB 24
34 T=Z :: S3=A1 :: GOSUB 22
:: T=@ :: S3=C1 :: GOSUB 22
:: T=Y :: S3=G0 :: GOSUB 2
8 :: T=Z :: S1=B3 :: S2=G2 ::
S3=G1 :: GOSUB 26
35 T=@ :: S3=B1 :: GOSUB 26
:: T=Z :: S3=D1 :: GOSUB 26
:: T=@ :: GOSUB 25 :: T= Z
:: S1=A3 :: S3=B1 :: GOSUB
24 :: T=@ :: S3=D1 :: GOSUB
25
36 T=X :: S1=C3 :: S2=C2 ::
S3=C0 :: GOSUB 27 :: GOSUB 2
7 :: S3=C1 :: GOSUB 26 ::
T=@ :: GOSUB 26 :: S3=E0 ::
GOSUB 27
37 T=Y :: S3=G0 :: GOSUB 28
:: T=Z :: S3=E0 :: GOSUB 28
:: T=@ :: S3=G0 :: GOSUB 2
8
38 T=Y :: S3=C0 :: GOSUB 28
:: T=Z :: S2=E2 :: S3=C1 ::
GOSUB 26 :: T=@ :: S3=E0 ::
GOSUB 27 :: T=Y :: S1=G2 ::
S3=G0 :: GOSUB 29

```

The following program plays the Theme for A Country Practice, included in the program is a program from the 99'ER magazine, called Sunrise, used for graphic on the screen.



```

1 !*****
2 !*
3 !* A COUNTRY PRACTICE. !*
4 !* BY RUSSELL WELHAM. !*
5 !*
6 !* SUNRISE DISPLAY. !*
7 !* BY S. T. HOLL. !*
8 !*
9 !*****
10 !
11 DO=1102 :: EFO=1168 :: FO
=1311
12 BF1=117 :: C1=131 :: D1=1
47 :: EF1=156 :: E1=165 :: F
1=175 :: G1=196
13 A2=220 :: BF2=233 :: B2=2
47 :: C2=262 :: DF2=277 :: D
2=294 :: EF2=311 :: E2=330 ::
F2=349 :: F82,GF2=370 :: G
2=392
14 A3=440 :: BF3=466 :: B3=4
94 :: C3=523 :: DF3=554 :: D
3=587 :: EF3=622 :: E3=659 ::
F3=698 :: F83,GF3=740 :: G
3=784
15 A4=880 :: B4=988
16 G0=1471 :: AF1=1559 :: AF
2=208 :: AF3=415 :: AF4=831
17 X=250 :: Y=X#2 :: @=X#0.5
:: FLAG=0
18 CALL PICTURE
19 GOTO 26
20 CALL SOUND(T,S1,V1):: RET
URN
21 CALL SOUND(T,S3,V3):: RET
URN
22 CALL SOUND(T,S1,V1,S3,V3)
:: RETURN
23 CALL SOUND(T,S1,V1,S2,V2,
S3,V3):: RETURN
24 CALL SOUND(T,S1,V1,S2,V2,
S3,30,-4,V3):: RETURN
25 CALL SOUND(T,S1,V1,S3,30,
S3,30,-4,V3):: RETURN
26 !*** SONG START ***
27 T=X :: S1=B3 :: V1,V2=0 ::
V3=3 :: GOSUB 20 :: S1=D3
:: GOSUB 20 :: S1=G3 :: GOSU
B 20 :: !@P-
28 S1=D3 :: S2=B3 :: S3=G0 ::
GOSUB 24 :: S3=D1 :: GOSUB
23 :: S3=G1 :: GOSUB 23 ::
S3=A2 :: GOSUB 23
29 S1=B3 :: S3=B2 :: GOSUB 2
1 :: GOSUB 22 :: S1=D3 :: S3
=D2 :: GOSUB 22
30 S1=C3 :: S2=A3 :: S3=G0 ::
GOSUB 24 :: S3=D1 :: GOSUB
23 :: S3=A2 :: GOSUB 23 ::
S3=B2 :: GOSUB 23
31 S3=C2 :: GOSUB 21 :: S1=A
3 :: GOSUB 22 :: S1=C3 :: G0
SUB 22 :: S1=E3 :: GOSUB 22
32 S1=A4 :: S2=C3 :: S3=D0 ::
GOSUB 24 :: S3=D1 :: GOSUB
23 :: S3=A2 :: GOSUB 23 ::
T=@ :: S1=G3 :: GOSUB 23 ::
S1=FG3 :: GOSUB 23
33 T=Y :: S1=E3 :: S3=C2 ::
GOSUB 23 :: S1=FG3 :: GOSUB
23
34 T=X :: S1=D3 :: S2=A3 ::
S3=G0 :: GOSUB 24 :: S3=D1 ::
GOSUB 23 :: S3=G1 :: GOSUB
23 :: S3=A2 :: GOSUB 23
35 S3=B2 :: GOSUB 21 :: S1=B
3 :: GOSUB 22 :: S1=D3 :: G0
SUB 22 :: S1=G3 :: GOSUB 22
36 S1=D3 :: S3=G0 :: GOSUB 2
4 :: S3=D1 :: GOSUB 23 :: S3
=G1 :: GOSUB 23 :: S3=A2 ::
GOSUB 23
37 S3=B2 :: GOSUB 21 :: S1=B
3 :: GOSUB 22 :: S1=D3 :: S3
=D2 :: GOSUB 22 :: S1=G3 ::
GOSUB 22

```

```

90 CALL COLOR(2,16,2)
91 CALL COLOR(8,11,11)
92 FG$="FFFFFFFFFFFFFFF"
93 BG$="0000000000000000"
94 FOR DARK=1 TO 50
95 CALL HCHAR(23,1,SKY,32)
96 CALL HCHAR(23,RND*30+1,STAR,1)
97 PRINT :
98 GOSUB 150
99 NEXT DARK
100 BGC=FGC
101 DATA 15,9,11,4,5,6,6,6,6,0
102 READ FGC
103 IF FGC<>0 THEN 105
104 SUBEXIT
105 CHSET=CHSET+1
106 IF CHSET<7 THEN 108
107 CHSET=2
108 CALL COLOR(CHSET,FGC,BGC)
109 IF FGC<>SUNRISE THEN 111
110 ONN=1
111 FOR EIGHTH=1 TO 8
112 PATTERN$=SEG$(FG$,1,2*(EIGHTH))&SEG$(BG$,1,2*(8-EIGHTH))
113 SKY=(CHSET+3)*8+EIGHTH-1
114 CALL CHAR(SKY,PATTERN$)
115 CALL HCHAR(23,1,SKY,32)
116 IF OFF+(1-ONN) THEN 124
117 SUNHI=SUNHI+1
118 SWIDE=SUNHI
119 IF SWIDE<5 THEN 121
120 SWIDE=9-SWIDE
121 CALL HCHAR(23,17-SWIDE,SWUN,2*SWIDE)
122 IF SUNHI<8 THEN 124
123 OFF=1
124 PRINT :
125 NEXT EIGHTH
126 GOTO 100
127 CALL MAGNIFY(4)
128 RANDOMIZE
129 CALL CHAR(140,"FFFFFFFFE1E1FFC1")
130 CALL CHAR(141,"C1C1C1C1FFFFFFFF")
131 CALL CHAR(142,"FFFFBFBFB787FFB3")
132 CALL CHAR(143,"83838383FFFFFFFF")
133 FOR I=1 TO 5
134 SKYLINE(I)=185
135 NEXT I
136 FOR SP=1 TO 10
137 I=INT(1+RND*5)
138 SKYLINE(I)=SKYLINE(I)-32
139 CALL SPRITE(#BP,140,2,SKYLINE(I),32+32*I)
140 NEXT SP
141 CALL CHAR(132,"00000000000000")
142 CALL CHAR(133,"6308080001000000")
143 CALL CHAR(134,"00000000000080")
144 CALL CHAR(135,"000000001C61010")
145 CALL CHAR(136,"00000000000000")
146 CALL CHAR(137,"00140000000000")
147 CALL CHAR(138,"00000000000000")
148 CALL CHAR(139,"000000000002800")
149 RETURN
150 IF DARK-12*INT(DARK/12)>2 THEN RETURN
151 WC=WC+1 : UP=-2-RND*8 : RT=-15+RND*30
152 CALL SPRITE(#WC,132,2,16,83,UP,RT)
153 CALL SPRITE(#WC+7,136,7,161,83+RT/4,UP,RT)
154 RETURN
155 SUBEND
    
```

```

59 S3=B2 : GOSUB 21 : S1=B3 : GOSUB 22 : S1=D3 : S3=D2 : GOSUB 22 : S1=G3 : GOSUB 22
60 S1=C3 : S2=A3 : S3=G0 : GOSUB 24 : S3=E1 : GOSUB 23 : S3=A2 : GOSUB 23 : S3=B2 : GOSUB 23
61 S3=C2 : GOSUB 21 : S1=A3 : GOSUB 22 : S1=C3 : GOSUB 22 : S1=E3 : GOSUB 22
62 S1=A4 : S2=C3 : S3=D0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=A2 : GOSUB 23 : T=0 : S1=G3 : GOSUB 23 : S1=FS3 : GOSUB 23
63 T=Y : S1=E3 : S3=C2 : GOSUB 23 : S1=FS3 : GOSUB 23
64 T=X : S1=D3 : S2=B3 : S3=G0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=G1 : GOSUB 23 : S3=A2 : GOSUB 23
65 S3=B2 : GOSUB 21 : S1=B3 : GOSUB 22 : S1=D3 : GOSUB 22 : S1=G3 : GOSUB 22
66 S1=D3 : S2=B3 : S3=G0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=G1 : GOSUB 23 : S3=A2 : GOSUB 23
67 S3=B2 : GOSUB 21 : S1=B3 : GOSUB 22 : S1=D3 : S3=D2 : GOSUB 22 : S1=G3 : GOSUB 22
68 S1=C3 : S2=A3 : S3=G0 : GOSUB 24 : S3=E1 : GOSUB 23 : S3=A2 : GOSUB 23
69 S3=C2 : GOSUB 21 : S1=A3 : GOSUB 22 : S1=C3 : GOSUB 22 : S1=E3 : GOSUB 22
70 S1=A4 : S2=C3 : S3=D0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=A2 : GOSUB 23 : T=0 : S1=G3 : GOSUB 23 : S1=FS3 : GOSUB 23
71 T=Y : S1=E3 : S3=C2 : GOSUB 23 : S1=FS3 : GOSUB 23
72 IF FLAG=1 THEN 76
73 T=X : S1=G3 : S2=D3 : S3=G0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=G1 : GOSUB 23 : S3=A2 : GOSUB 23
74 S3=B2 : GOSUB 23 : S1=B3 : GOSUB 22 : S1=D3 : GOSUB 22 : S1=G3 : GOSUB 22
75 FLAG=1 : GOTO 28
76 T=X : S1=G3 : S3=EF0 : GOSUB 25 : S1=F3 : S3=BF1 : GOSUB 22 : S1=EF3 : S3=G1 : GOSUB 22
77 S3=BF2 : GOSUB 22 : S1=BF3 : S3=EF2 : GOSUB 22 : S1=G2 : GOSUB 22
78 GOSUB 22 : S1=F2 : GOSUB 22 : GOSUB 22 : S1=EF2 : GOSUB 22
79 GOSUB 22 : S1=BF2 : GOSUB 22 : GOSUB 22 : S1=G1 : GOSUB 22
80 T=Y*4 : S1=B2 : S2=G1 : S3=G0 : GOSUB 24
81 GOTO 81
82 !@P+
83 SUB PICTURE
84 DATA 32,42,2,3,88,6,0,0,0,10
85 READ SKY,STAR,FGC,CHSET,SWUN,SUNRISE,SUNHI,ONN,OFF,WC
86 CALL CLEAR
87 CALL SCREEN(2)
88 GOSUB 127
89 CALL COLOR(1,2,2)
    
```

```

38 S1=C3 : S2=G2 : S3=G0 : GOSUB 24 : S3=E1 : GOSUB 23 : S3=A2 : GOSUB 23 : S3=B2 : GOSUB 23
39 S3=C2 : GOSUB 21 : S1=A3 : GOSUB 22 : S1=C3 : GOSUB 22 : S1=E3 : GOSUB 22
40 S1=A4 : S2=C3 : S3=D0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=A2 : GOSUB 23 : T=0 : S1=G3 : GOSUB 23 : S1=FS3 : GOSUB 23
41 T=Y : S1=E3 : S3=C2 : GOSUB 23 : S1=FS3 : GOSUB 23
42 T=X : S1=G3 : S2=D3 : S3=G0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=G1 : GOSUB 23 : S3=A2 : GOSUB 23
43 S3=B2 : GOSUB 23 : S1=B3 : GOSUB 22 : S1=D3 : GOSUB 22 : S1=G3 : GOSUB 22
44 S1=A4 : S2=F3 : S3=D1 : GOSUB 23 : S3=A2 : GOSUB 23 : S3=D2 : GOSUB 23 : S3=E2 : GOSUB 23
45 T=Y : S3=F2 : GOSUB 23 : S1=G3 : S2=E3 : GOSUB 23
46 T=X : S1=F3 : S2=D3 : S3=G0 : GOSUB 24 : S3=G1 : GOSUB 23 : S1=G3 : S2=E3 : S3=G0 : GOSUB 24 : S3=G1 : GOSUB 23
47 S1=A4 : S2=F3 : S3=G0 : GOSUB 24 : S3=G1 : GOSUB 23 : S1=B4 : S2=G3 : S3=G0 : GOSUB 24 : S3=G1 : GOSUB 23
48 S1=G3 : S2=E3 : S3=C1 : GOSUB 23 : S3=G1 : GOSUB 23 : S3=C2 : GOSUB 23 : S1=B3 : S2=G2 : S3=B2 : GOSUB 23
49 S1=D3 : S3=D2 : GOSUB 23 : S1=C3 : S3=C2 : GOSUB 23 : S1=B3 : S3=B2 : GOSUB 23 : S1=G2 : S2=E2 : S3=G1 : GOSUB 23
50 S1=G3 : S2=EF3 : S3=F0 : GOSUB 24 : S3=F1 : GOSUB 23 : GOSUB 23 : GOSUB 23
51 S1=F3 : S2=D3 : GOSUB 23
52 S1=EF3 : S2=C3 : S3=F0 : GOSUB 24 : S3=F1 : GOSUB 23 : S1=F3 : S2=D3 : S3=F0 : GOSUB 24 : S3=F1 : GOSUB 23
53 S1=G3 : S2=EF3 : S3=F0 : GOSUB 24 : S3=F1 : GOSUB 23 : S1=A4 : S2=F3 : S3=F0 : GOSUB 24 : S3=F1 : GOSUB 23
54 S1=F3 : S2=D3 : S3=BF1 : GOSUB 23 : S3=F1 : GOSUB 23 : S1=A3 : S2=F2 : S3=A2 : GOSUB 23 : S1=BF3 : S3=BF2 : GOSUB 23
55 S1=C3 : S3=C2 : GOSUB 23 : S1=BF3 : S3=BF2 : GOSUB 23 : S1=A3 : S3=A2 : GOSUB 23 : S1=F2 : S2=D2 : S3=F1 : GOSUB 23
56 T=Y+Y : S1=E2 : S2=D1 : S3=D0 : V2=3 : GOSUB 24 : T=X : S1=FS2 : GOSUB 24 : S1=B3 : GOSUB 24
57 S1=D3 : GOSUB 24 : S1=G3 : GOSUB 24
58 S1=D3 : S2=B3 : S3=G0 : V2=0 : GOSUB 24 : S3=D1 : GOSUB 23 : S3=G1 : GOSUB 23 : S3=A2 : GOSUB 23
    
```



MONTHLY SOFTWARE AWARDS

Each month, we select a SOFTWARE COMPETITION. All entrants receive a selection of any three of their choice from the Library, and can, if chosen to be the winner of that month's contest, win up to \$50 CASH. Here are the details---

THE AWARD OF THE MONTH: For the best program supplied, which will have a value of \$50. Entries will be limited to financial T.I.S.H.U.G. members, and anyone can enter.

THE JUNIOR AWARD OF THE MONTH: For original entries by our YOUNGER SET under 18 members. These will be written by you, and will work (you loose points for program bugs - in fact, that goes for all entries in every category). The prize will be \$30 per month, unless JENNY of YOUNGER SET is conducting another JUNIOR SOFTWARE AWARDS, then the prizes could be even more in value.

ROOKIES AWARD OF THE MONTH: For any member of this group who has had his or her computer for less than 6 months. The prize will be \$20.

Like all competitions, there are conditions and rules, which are as follows:
(1) The entry must be of your own work, not a copy of someone else's program.
(2) The program must run on any commercially available TI-99/4 or 4A equipment which is available in Australia.



(3) All entries are available for distribution as FREE CLUB SOFTWARE.

(4) Entries must be forwarded to our LIBRARY. ADDRESS: P.O. BOX MARRICKVILLE N.S.W. 2204 or handed to PHILLIPS at the MONTHLY MEETING.

(5) The initial Judging panel will consist of three Committee Members, who have not submitted any entries for that contest.

(6) If this judging panel feels there is no entry of sufficient standard, or if the number of entries is insufficient, they will defer judging for a month. This means Awards will only apply to good quality entries. If the panel has entries which have potential, but are not 'robust' and so are not suitable for distribution, they will advise the entrant and suggest possible modifications.

(7) The panel will select the 3 best entries in each class for presentation to the next MONTHLY MEETING. (YOU MUST BE THE FINAL CHOICE). If there are more than three(3) outstanding entries in any group, they may, at their discretion increase the number.

(8) No one entry may win more than one award.

So, there you have it. You may have noticed, that over the past couple of months, there has been no judging of these awards. The reason is, that there has been very little response. We don't want to believe that you have no talent for writing programs, and we are sure that you are interested in receiving all that wonderful money, SO, LET'S CRACKING and get those wonderful works of art you have designed, which you call a program.

Secretary's Notebook

with J.R. TISHUG



I hope you all had a good Christmas and New Year. I have received a number of entries to my cursor problem. Andrew McCallum has kindly volunteered to input all the programs, which were submitted on paper. I hope to be able to announce the winner in the next issue of SND as this column has to be with the Editor by the first week in January. Looking ahead to March The Fourth Australian Personal Computer Show will be held at Centrepoint here in Sydney March 13-16th. As in previous years TISHUG will have a stand in the Computer Club Corner. We are looking for volunteers now to make a commitment to work at the stand and help with the moving in and out of equipment. We have got 100 free passes for this show to give away. The normal entrance fee is \$5 so if you want to save send me a stamped addressed envelope with a note telling me whether you want one or two tickets.

We intend to make a big effort to try and increase our membership, which has recently started to decline, the first time this has happened since the club was formed three and a half years ago. At the November committee meeting it was decided to advertise on a monthly basis in the Sunday Telegraph. There are a lot of TI 99/4A Users out there who do not know this club exists.

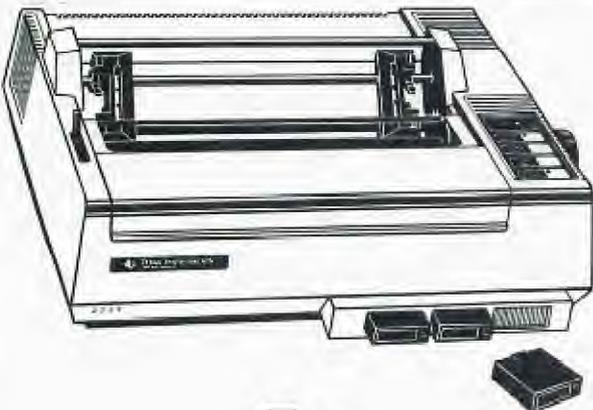
Your committee decided to proceed with an application to hire the Burwood RSL club's Main Auditorium for our monthly meetings. Located within 500m of the Burwood railway station, this new venue will be nearer to the majority of our members, who live in the Western Suburbs. Unfortunately extensive alterations to the Hall are scheduled to start early in 1985 and it will not be possible for us to make the move until July at the earliest. We will have access to a large projection TV unit so that we will be able to show the monthly software competition entries more effectively than at present. At the meeting a complaint was received from one of our members, concerning the presentation of his program at the November meeting. It was agreed that in future, entrants would be given the opportunity to demo. their own programs. Also the judging of programs will be modified to have a total of ten points awarded for each of five categories for a maximum score of 50 points. The categories will be:

1. EASE OF USE
2. ENGROSSMENT
3. GRAPHICS
4. ORIGINALITY
5. PLAYABILITY

A decision was made to assist Regional groups outside the Sydney area with club software. The general consensus was that all our Regional Groups should be self supporting. Those members who attended the AGM will recall there was a motion passed concerning a proposed amendment to the Constitution. Details of this and another amendment concerning a change in the financial year follow this article.

Our friend Jim Peterson from TIGERCUB SOFTWARE, 156 Collingwood Ave., Columbus OH 43213. has sent us some more tips to pass on to TISHUG members. A new catalogue is now available. It contains over 130 programs in Basic and XB at only US\$3 each plus postage and packing. We have published some of his tips from time to time but you now have the opportunity to purchase a disk full of the entire contents of his first 14 newsletters. The cost for the disk containing 50 programs, routines and files is US\$15 postpaid. TISHUG members who order before the end of February will receive a 10% discount. You may place your orders on the club shop and we will forward them in bulk direct to Tigercub.

Also available is a disk called Nuts and Bolts. It should be very useful for those of you who program. There are 100 XB utility subprograms in MERGE format, ready for you to merge into your own programs.



Sydney News Digest

Contents include 13 type fonts, 14 text display routines, 12 sorts and shuffles, 9 data saving and reading routines, 9 wipes, 8 pauses, 6 Music, 2 protection, etc. etc., all for just US\$19.95. When placing your order direct with TISHUG add 15% to the prices quoted to cover the exchange costs and remit in Australian dollars.

Now to my mail: Russell Bell from Taree writes: "In the October issue of SND a question was asked about what happens after level nine in Fathom. Well Fathom is only a nine level game at the end of which there is a message displayed 'Congratulations in successfully completing the nine levels of Fathom'. This is printed on a black screen in white letters and on the left there is the games bird and on the right the curved dolphin with water splashes around it. When this appears the options of pressing REDO or BACK also appear. I hope this sets the man's mind at ease!"

Ross Tickner from Toormina writes: "I only visit Sydney on business and with a tight schedule this does not allow me to attend any of your meetings. The SND is read as soon as it is opened. I intend to upgrade my TI99/4A to help me run my small business. Can you give me some details of software, which would have the ability to handle a 1000 customer mailing list." The answer is that there is some very good software for small business available from Lindley and Associates. A review of the TI-COUNT software was given in the November issue of the SND. There is also a mailing list program, which the club is planning to use, after someone has written a program to convert the PRK files to DIS/VAR 80 format. Incidentally if you want to make the writing of programs easier you can convert the program format to DIS/VAR 80 format by using the command LIST "DSKn.XXXXXXXXX" where n=disk number and XXXXXXXXX is any filename, after loading the program into memory. The file can then be read by TI-WRITER or the EDITOR/ASS and the full editing resources of this software made available to you. After you have finished editing your program the following program, courtesy of the Cin-Day User Group, can be used to convert the file into a MERGE format.

```
100 !TRANSLATOR
110 ! ORIGINAL PROGRAM BY JOHN HAMILTON
120 !CENTRAL IOWA USA
130 !MODIFIED BY FREDERICK HAWKINS
140 !LEHIGH 99'ER
150 !THIS VERSION BY ED YORK
160 !CIN-DAY USER GROUP
340 DISPLAY AT(6,10)ERASE
ALL:"TRANSLATOR" :: DISPLAY AT(10,1) : "ENTER FILE TO
BE CONVERTED:"
:: "DSK1." :: ACCEPT AT(12,6)SIZE(10):A$
350 DISPLAY AT(14,1):"ENTER FILE TO BE MERGED:" ::
"DSK1." :: ACCEPT AT(16,6)SIZE(10):B$ :: OPEN
#1:"DSK1."&A$ :: OPEN #2:"DSK1."&B$,VARIABLE 163
360 LINPUT #1:C$ :: A=POS(C$, " ",1):: ON ERROR 400 ::
B=VAL(SEG$(C$,1,A))
370 ON ERROR 390 :: C=INT(B/256):: A$=CHR$(B-C6)
380 PRINT #2:CHR$(C);A$;CHR$(131);
SEG$(C$,A+1,80):CHR$(0):: GOTO 360
390 PRINT #2:CHR(255);CHR$(255)
:: CLOSE #2 :: DISPLAY AT(22,6):"PROCESS COMPLETED!"
:: END 400 ON ERROR 390 :: RETURN 360
```

John Kerr, a new member from Aldgate South Australia writes: "One of our most treasured software items is the complete set of Adams Adventure cassette tapes. They have proved excellent both for entertainment and also for training in logical thinking for our two school age kids (not to mention their ageing parents). When we purchased our disk system early this year one of the first priorities was to transfer our cassette programs to disk. The primary reason was, of course, because disk based programs are so much faster and more convenient to use than cassettes. Additionally I felt that disks were probably more reliable than cassettes especially as we occasionally experienced loading difficulties with some of our cassette tapes. Well all went well until we tackled the Adams Adventure tapes which try as we might we just can't transfer to disk. I wouldn't feel so bad if we could

produce backup tapes but we can't even do that. As these tapes do get quite a lot of use and often at the hands of inexperienced young operators I am dreading the day when one fails as we have absolutely no backup. So my question is can you offer me any advice on how to backup these tapes, preferably to disk but even to cassette would do. Needless to say my backups would be for my own private use and in any case the adventure programs are useless to third parties without the TI module." The answer is if you attach the Tunnels of Doom module, and then select option 3, load your cassette program into memory, then go <FCTN> 9, you will be able to save the entire program to Diskette as per its menu.

Next month I will pass on some interesting procedures for all those members with a bare bones system, which will allow you to access sprites without XB. This information has come to us from Marcello Zannini, of the Italian User's Group.

Running out of memory.

John Robinson
John Robinson.
Hon. Secretary

```
|||||
||
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T.I.S.H.O.G. SHOP
with Terry



Greetings to all members and welcome to the first SHOP column of 1985. I sincerely trust that all members had a happy Christmas and that the new year has been prosperous so far.

On sale at the February meeting will be two tapes. Numbers 1985/1 and 1985/2 containing the following programs. Also on disk.

1985/1	1985/2
3D Maze Challenge	Calculator Decisions
Running Horse	Mail List
Naughts/Crosses	Personal File
Parachute	Phone Costs
Siam	Savings
Stone Stepper	Sprite Builder
Victoria Sewer	VCE Filer

Also at the February meeting I will have the high speed tape copier to exchange any faulty tapes from Number 15 onwards. Also as this is a full day workshop there may be time to download some software so bring a blank tape with you.

On sale at the shop will be the following items:

Issue #5 of Home Computer Magazine at \$6 each.

Cartridge Expanders - price to be determined but around the \$44 area.

Super Duper Disk Copiers also at about \$44 each.

Console Writers word processors no peripherals apart from a printer required about \$50 - \$55 each.

Millers Graphics Smart Programming Guide for Sprites at \$8 each.

The Best of 99'er at \$25 each.

A few copies of Introduction to Assembly language remain at a cost of \$23 each and Programs for the TI at \$21 each.

The following software items will also be on sale:

No Frills Spreadsheet with 9 pages of documentation - Tape \$6, Disk \$8.

Torpedo Attack a fine fast speed game written in Extended Basic on tape at \$10 each.

Three new games from Pewterware - Tractor Follies, Pest Frog and Norbert all written in Extended Basic at \$10 each.

Remember you can select any 3 programs for our commercial range for only \$25, a saving of \$5 on individual prices.

Plenty of disks are available at the good value price of \$25 per box of 10.

Cassette Reversing Plugs are available at \$5 each. These will be a must if using the No Frills Spreadsheet and your plug will presently not control the tape recorder.

The latest issue of Softex Magazine will also be on sale at \$4 each.

Imagine a computer that obeys verbal instructions. By adding the Texas Instruments' Speech Command option to its Professional Computer you can have a system that does as it's told.

Think how much more you could accomplish with a computer that listens to your commands and does what you ask, every time. When you're up to your elbows in work, a spoken command can send your computer searching for sales data or retrieving the financial figures you need.

You can program the Speech Command system to operate your software programs so you can work with the results without having to be part of the process.

First you decide what you want your TI Professional computer to do 'on command' and enter these operating commands - for the first and last time. However, you can change them whenever you wish.

Second, you assign a 'key phrase' to each of your commands so the computer will know when you want it to go into action.

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Your computer can also act as a telephone answering machine recording messages while you are away. It will store and retrieve important telephone numbers, place calls at specific times, then wait and record a response as well as keeping track of your personal calendar.

One of the most significant factors in improving office productivity and efficiency in the 80s has been the rapid acceptance of standalone personal computers. The data processing environment has become less structured as users apply personal computers to individual problem-solving in finance, marketing, engineering and other areas.

The proliferation of these stand-alone personal computers as productivity tools for individuals has created a need for instant information exchange, as well as for sharing resources to keep total installation costs at a reasonable level.

Computing power is now available when the user needs it and where it is most convenient - at the individual's desk. However, without an interactive communications systems, intra-office communication is still accomplished by pen, paper and legs as it was 50 years ago.

Local area networks (LANs) such as Texas Instruments' EtherSeries were designed to solve intra-office communication problems by enabling each personal system to retain its individual computing properties, while allowing information exchange, peripheral sharing and providing instant communications via electronic mail.

Users of IBM PC's can also benefit from the advanced features of the TI computers by combining them with EtherSeries into a co-operative network.

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There are also specific programs available for a wide range of specialist applications including medical office managers, real estate investors, property managers, accountants, tax preparers and engineers.

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Call up inventory reports, price lists or get up-to-the-minute information on your client's order from his office, your office, hotel room or even telephone booth.



Selling real estate or insurance can be made much easier if you can access information on-the-spot. Home demonstrations become easier and more impressive as you gather the facts pertinent to your client on your TI 700 series.

With the TI 700 series your versatility is only limited by your imagination and your computer's capabilities. Its electronic mail and message function keeps you up to date on the latest events.

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Marketing Manager Ian Hawkins

For all TI businesses, research and development are the lifeblood of the future and we are continuing to increase expenditure on R&D with an all-time high of over \$10 million being reached in 1984.

TI is a major supplier of data system products with an installed base of over 100,000 computers and one million terminals and printers. Current development work is targeted at the upper end of the micro-computer and minicomputer markets.

Regards,

John Robinson

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====> NATIONAL NEWS <====

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Co-Ordinator: Doug Thomas.
ADDRESS: 59 Landstrom Quadrant, Kilsyth
Vict. 3137. (03)7258178.

TI.C.H.U.G. (Canberra)

Co-Ordinator: Von Klimpel
ADDRESS: P.O. Box 610 Belconnen, A.C.T
2617. (062)588486.

TI.U.P. (TI USERS of PERTH)

Co-Ordinator: Les Twiss.
ADDRESS: P.O. Box 246, Mt. Lawley, WA 6050
(09)2718642.

A.T.I.C.C. (Adelaide TI Computer Club)

Co-Ordinator: Fred Cugley
ADDRESS: 26 Suffolk Ave, Brahma Lodge, SA
5109. (08)2583499.

TI.T.U.G. (TI Tasmanian User Group)

Co-Ordinator: Rex Shephard.
ADDRESS: 1 Benboyd Crt, Rokeby, TAS. 7019
(002)294009-Leon Lonergan.

TI.B.U.G. (Brisbane)

Co-Ordinator: Greg Lane.
ADDRESS: P.O. Box 57, Aspley, QLD. 4034.
(07)2634989

and of course the listing wouldn't be complete without us...

TI.S.H.U.G. (SYDNEY)

Co-Ordinator: PETER VARGA

MEMBERSHIP ADDRESS: John Robinson P.O. Box
149, Pennant Hills, N.S.W. 2120
(02)8480956.

CLUB ADDRESS: P.O. Box 595, Marrickville,
N.S.W. 2204

BBS(02)5600926.

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with our
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ROBERT P.



*** GREETINGS FOR THE NEW YEAR ***
 Over the break I received two enquiries about some hardware for use in the TI.

One was whether CHINON 502 disc drives were suitable for use in the expansion box.

Well the answer is yes. These particular drives appear to offer the best compatibility when fitting two drives in the expansion system without the need to change the power supply.

I believe that these drives are available locally for approx. \$190 (\$228 INC. tax) each. But if 5 or more of these drives are purchase together then they will cost approx. \$180 (\$216 INC. tax) each. In addition to the CHINON drives I have also found that TEAC have a drive (model FD 55 B) which may also prove to be suitable. The price for these drives is approx. \$182 (\$218.40 inc. tax) each. NOTE:- these prices do not include the special cables or mounting brackets that are required for fitting two drives. These would cost approx. \$50. So for anyone who is interested in buying any of these drives contact me as soon as possible as these prices may not last long.

The second enquiry was regarding the use of the TOYO TP 40 or (MCP-40) Colour Printer Plotter. Now these plotters are similar to the Tandy Plotter with the exception of the RS 232 inter-face. These plotters have only the CENTRONICS inter-face provided, which is a slight problem, but only slight. The problem is that the "PIO" port (PARALLEL IN/OUT PORT) provided by the RS 232 card is not a True Centronics inter-face, but with a simple piece circuitry fitted in the printer cable it should run without a fault. (this modification should solve a similar problem in some other printers on the market.)

If you wish you can do as I did, that is you can build a RS 232 to Centronics inter-face for approx. \$50 (Note this inter-face requires the supply of an unregulated supply from pins 1 & 2 of the RS 232 card through pin 11 of the RS 232 port), and uses the RS 232/2 port saving the PIO port for a faster Dot Matrix printer and RS 232/1 for a Modem. This inter-face can also be used with any other "CENTRONICS" type printer and is also a ETI Computer project (ETI 675, Note this project will still require some

modification to suit the Texas). To show how this system works I have used it to print this section of the newsletter. Mind you this plotter is slow (approx. 12 characters/sec) but also draws charts, graphs, etc. by using simple Basic Programming instructions (refer to April '83 Newsletter under "ANOTHER RS 232 SUCCESS STORY" pages 5, 11 & 13). By the way these plotters were on sale at JAYCAR & DICK SMITH for \$100 to \$150 depending on the special sale prices available at the time.

Another enquiry was to do with using the cassette inter-face for transmitting signals via telephone. This would be possible using a suitable acoustic coupler (would amplify the signal only. There would be NO RS 232 signals.). The limitations would be that the system can only be used with another 99/4A using OLD & SAVE CS1 commands, also the system would also be prone to clicks & pops on the phone line. The only thing the system would be good for is transferring programmes.

Technical manuals will be available from the club soon. For price and availability contact the Club Librarian.

By now you should be aware that this months meeting is an all day work shop. There will be technical literature and tools available (for minor repairs), so I would to hear from anyone who would be able to lend assistance during this day or from anyone who has a project they have been working on and need help with or demonstrat to the club. If so contact me before the meeting.

If anyone has a technical problem or wishes to contribute technical articles then contact me (ROBERT) on 602-4168 between 5.00-8.30 PM or send a letter to

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ANYONE WISHING TO OBTAIN INFORMATION, PLEASE SEND A SELF-ADDRESSED ENVELOPE (WITH SUFFICIENT POSTAGE STAMPS) TO THE ABOVE ADDRESS.



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Design contributed by Lisa Maggi



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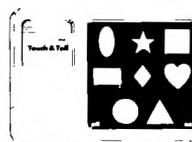


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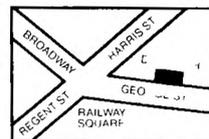


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Welcome to the third in my series of understanding LOGO. So far we have covered simple statements and procedures. This month I will look at procedures with inputs. As you have probably realised when trying out the exercises in the first two columns, it is a nuisance to have to keep retyping or just editing a procedure to get a different result.

LOGO has made things easier by allowing inputs, similar to BASIC or XBASIC. Naturally the commands are different. The general form of procedures with inputs is shown below:

```
TO (name) :variable 1 :variable 2
and so on.
```

Note: it is essential to include
A) a colon (:) in front of your variable name
B) a space in front of every colon in the title line and subsequent procedure name used
C) no space between the colon and the variable name being used.

If no space is left in front of the colon LOGO assumes it to be part of the procedure name. Thus BOX :A is a procedure name with input A whereas BOX:A is simply a procedure name with no inputs. If you type the latter, then try to input a variable you will get an error message.

The LOGO manual is not well set out as it appears to show no space before the colon(:). I spent a lot of time before finding that the space is essential.

Also when typing in the procedure name do not leave a space between the colon and the variable name or LOGO will not recognise that name as that of a variable.

To see how procedures with inputs work try:

```
TO BOX :SIDE
REPEAT 4 [ FD :SIDE RT 90 ]
END
```

Now type BOX 40 and ENTER it. A box of side 40 is drawn. Without clearing the screen enter BOX 60. A larger box will be drawn. Boxes of any size can be drawn using the above procedure.

LOGO permits the use of more than one variable in procedures. Try:

```
TO RECT :LENGTH :BREADTH
REPEAT 2 [ FD :LENGTH RT 90
FD :BREADTH RT 90 ]
END
```

Enter RECT 30 60 and a rectangle will be drawn. RECT 60 30 draws the same rectangle but on its side. Any combination of length of sides can be used. If the same value is used for both length and breadth a square will be drawn.

The angle can also be a variable:

```
TO ANG :SIDE :ANGLE
REPEAT 4 [ FD :SIDE RT :ANGLE ]
END
```

In this example only 90 for the angle will give a regular closed figure, but try and see what you get with different angles.

LOGO (Turtle) TUTORIAL



BY
MIKE SLATTERY

The following procedure will draw a closed figure:

```
TO CLANG :SIDE :ANGLE
REPEAT 2 [ FD :SIDE RT :ANGLE
FD :SIDE RT (180- :ANGLE) ]
END
```

This will draw a figure with equal length sides. Parallelograms with sides of different lengths can be drawn with the following:

```
TO PARA :SIDE1 :SIDE2 :ANGLE
REPEAT 2 [ FD :SIDE1 RT :ANGLE
FD :SIDE2 RT (180- :ANGLE) ]
END
```

The above procedure can be made as complex as you wish by adding SIDES and ANGLES as necessary. But to get a closed design, all angles must total 360.

Inputs can be used in all normal arithmetic operations, i.e. they can be added, subtracted, divided or multiplied by either constants or other inputs.

The following examples will show how this is done, and will draw some very interesting designs at the same time.

EXAMPLE 1.

```
TO SQ :S :A
CS SXY 0 25
L :S :A
END
```

```
TO L :S :A
FD :S RT :A
L :S+1 :A
END
```

S is the initial length of the side of the design and A is the angle. The length increments one unit each cycle until out of ink. Angles of particular interest are 60, 90, 120, 135, 157 and 210. Of special interest are the following two groups: 117, 120, 123 and 117, 180, 183.

Run the procedure by entering eg. SQ 1 90. The order of entry of the variables is important. The angle must be after the side otherwise LOGO will take the first variable to be the side length.

Note: for clarity :S+1 can have brackets () around it. This will be of more use when more than one variable is being altered at the end of a procedure. Putting them into brackets is not essential to the running of the procedure.

EXAMPLE 2.

```
TO SQ1 :S :A :IN
CS SXY 0 25
L1 :S :A :IN
END
```

```
TO L1 :S :A :IN
FD :S RT :A
L1 ( :S + :IN ) :A :IN
END
```

:IN is the incremental value and can be any number. If you want to vary the angle, you can use either a fixed increment to give

```
L1 ( :S + :IN ) ( :A + :IN )
```

if you want to increment the angle by one unit per cycle or

```
L1 ( :S + :IN ) ( :A + :P ) :IN :P
```

if you want to use a variable for the increment. If you use a fourth variable in the preceding example, do not forget to include it in the procedure title line and also in the return line at the end of the procedure.

To finish, here is a program to demonstrate the graphic capability of the turtle mode:

```
TO A
CS SXY -60 -10 A1
FD 40 RT 10 FD 55 LT 20 BK 55
FD 30 RT 100 FD 72 RT 65 FD 34
SXY -50 -10 RT 35 FD 37 BK 37
RT 170 FD 20 RT 90 FD 10 RT 90
FD 20 LT 10 FD 37 SXY -10 0
REPEAT 3 [ A2 ] SXY 110 -13
REPEAT 10 [ A3 ] PU LT 85 FD 15
PD REPEAT 4 [ A3 ]
END
```

```
TO A1
REPEAT 2 [ FD 40 RT 90 FD 100
RT 90 ]
END
```

```
TO A2
SH 70 FD 10 RT 90 FD 10 RT 30
FD 10 RT 120 FD 10 RT 30 FD 10
RT 90 PU BK 20 PD
END
```

```
TO A3
A4 PU RT 60 FD 10 RT 90 FD 30 PD
END
```

```
TO A4
SH 30 REPEAT 4 [ A5 RT 180 ]
PU RT 230 FD 7 RT 10 PD FD 5
RT 10 FD 10 RT 20 FD 10
END
```

```
TO A5
REPEAT 10 [ FD 1 RT 27 ]
END
```

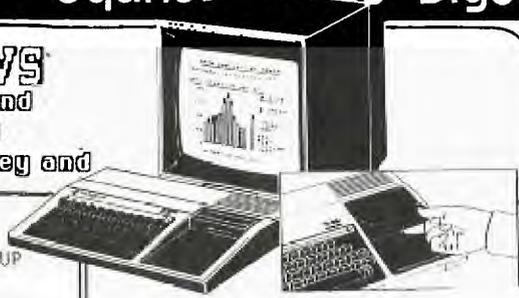
"A" runs the program.

You may have noticed, in the Christmas Sydney News Digest, that there was a chunk of program missing from the LOGO CHRISTMAS SCENE. Infact, an entire page was lost. So, keeping with the theme that its better late than never, we have located that page, and here it is so that you can complete that program ready for next Christmas....

Sydney News Digest

REGIONAL NEWS

A report of meetings and times of our Regional Home Groups around Sydney and New South Wales.



MARRICKVILLE REGIONAL GROUP

MONTHLY MEETING

Starting in FEBRUARY 1985 the MARRICKVILLE monthly meeting will be held at

43 BOYCE STREET
GLEBE

on the second Tuesday of each month, starting at 8 P.M.

Anyone wanting further details can obtain them by phoning MIKE SLATTERY on 6920559 after 8.30 P.M. most nights.

Hope to see you there for the latest on news, reviews and any other matters.

*** BANKSTOWN REGIONAL REPORT ***

by David Mayo & Paul Cohen.

The bankstown group has been in recess over the holiday period so there's not much to write about in the past tense but we are planning some interesting evenings in the coming year.

We intend to enter the graphx contest and hopefully win a prize so come on all you artistically gifted members and come up with a top screen picture or animated design.

Down loading of club software at recent meetings has taken up too much time so in future this will mostly be done between meetings, just give a ring to check out if it's O.K. first or obtain your software from the shop.

Bring your programing problems along or share with the group something you have learned or demonstrate a program you have written. We want future evenings to be more of a learning process with an accompanying feeling of satisfaction.

We would also like some feedback on whether to change from Sunday evening to say Tuesday or Wednesday evening. Well bye for now, happy computing.

Regards
David & Paul.

*** LIVERPOOL REGIONAL REPORT ***

A meeting was held at Ross Hardy's place in Merrylands in November '84. A report was given on the A.G.M held in October followed by a discussion on a number of proposals for introduction to benefit the members of the Regional Group. One member has made a switch for his RF Modulator which allows it to be used on VHF/UHF TV. Following the formalities, it was time to switch on TI and call up the BBS. This was a tremendous opportunity for the majority of members who attended, as it was their first occasion to see how good TEXPAC Bulletin Board really is.

We were also fortunate to find Shane at home working busily on TISHUG business but still having time to have a CHAT on the BBS with us. After the BBS segment, an election of Regional Committee was held and the following committee was elected.

CO-ORDINATOR VINCE CERRETO
SECRETARY HANS ZECEVIC
TREASURER STAN PUCKLE
LIBRARIAN DAVID BALL

Following the elections of officers, Kevin Gardner provided a demonstration of his self-developed program of AUTO-GRAPHICS. This program actually writes XB GRAPHICS and MUSIC Sub-routines, and he is to be congratulated on a tremendous innovation. Kevin is now working on this program in order that it can run on a System without memory expansion.

The last meeting for 1984 was held at Campbelltown at Stan Puckles on Friday 7th December '84.

The theme for this meeting was 'AN INTRODUCTION TO ASSEMBLY LANGUAGE'. This talk was given by Kevin Gardner and was well presented and greatly appreciated by the members attending.

It is evident from the interest shown, that Kevin will be requested to give a follow-up talk this year. It was a very business night with a great deal of interest in the purchase of software occurring. It was unfortunate that the discussion on VDP CHIPS was not held and it is now proposed to have this at the February meeting.

Meetings have been arranged to be held as follows...

Friday 8th February '85 7:30pm at the home of Hans Zecevic, 33 Malinya Cr. Moorebank. Theme for this meeting: FORTH LANGUAGE.

FRIDAY 8TH MARCH 7:30PM to be held at the home of C. BOLISEN, 4 Madeline Ave, Northmead. Theme for this meeting to be advised.

Cheers for now.
STAN.

FROM THE EDITOR: Great to see that the Regional Groups are active and vibrant. Unfortunately, I had not received any other reports, but hope that they are forthcoming for the next issue. Paste-up day, as usual, is the second week-end of the month. So lets get those reports in. SHANE.

MORE LOGO...

TO CAR :C
PT 183 :C 23
IF :C> 31 STOP
CAR 1+ :C
END

TO SANTA
TELL 3 SC 6 CARRY 14
TELL 6 SC 0
TELL 25 CARRY 21 SXY 18 -22
TELL 24 CARRY 22 SXY 18 -6
TELL 23 CARRY 20 SXY 2 -11
TELL [23 24 25] SC 6
WAIT 240
SV 0 -2
TELL 24
POST1
END

TO POST1
IF YCOR<-50 TELL [23 24 25] SC 0
SV 0 0 STOP
POST1
END

TO COLTREE
TELL TILE 183 SC 8
TELL TILE 231 SC 2
TELL TILE 239 SC 2
TELL TILE 247 SC 2
TELL TILE 255 SC 4
END

TO LIGHTS
TELL [1 2 3 4 5 6 7 8 9] SC 4
CARRY 25
TELL 1 SXY 8 1
TELL 2 SXY -15 -6
TELL 3 SXY -7 33
TELL 4 SXY -16 8
TELL 5 SXY -8 -23
TELL 6 SXY -31 -31
TELL 7 SXY 16 -31
TELL 8 SXY 9 -46
TELL 9 SXY -16 -46
TELL [10 11 12 13 14 15 16 17 18
19 20 21] SC 4 CARRY 24
TELL 10 SXY -23 58
TELL 11 SXY 8 58
TELL 12 SXY -32 42
TELL 13 SXY 17 42
TELL 14 SXY -47 18
TELL 15 SXY 32 18
TELL 16 SXY -56 -6
TELL 17 SXY 40 -6
TELL 18 SXY -64 -30
TELL 19 SXY 49 -30
TELL 20 SXY -71 -54
TELL 21 SXY 57 -54
END



Sydney News Digest

 *
 * 1 9 8 5 with T.I.S.H.U.G. (Aust) *
 *

The first meeting for us in 1985 will be the very special FULL DAY TUTORIAL WORKSHOP. I time to learn programming on the cheap. Infact, all it will cost you is \$3.00, unless you have a Discount Ticket (provided in this issue of SND...a saving of \$2.00) The cheapest Programming Tutorial in town. A Tutorial Booklet will be available at the hall for only \$1.00 extra ... filled with programs and tutorial notes.

We will be conducting classes in ASSEMBLY, BASIC FOR BEGINNERS, LOGO, FORTH, FILE HANDLING, MUSIC PROGRAMMING, and MODEM COMMUNICATION. Peter Varga will be there to show off PLATO EDUCATIONAL COURSEWARE for his newly formed Special Interest PLATO Group.

Each class will be repeated to give you an opportunity to attend at least 2 classes throughout this full day activity.

Our Technical team will also be available to answer any questions and find out what your needs are regarding future expansion of your TI.

THIS ACTIVITY will be conducted at St. Johns Church Hall at Victoria St, Darlinghurst ... 9AM to 4:30PM.

We ask that you be on time, as there will be a limit of 250 members at this Tutorial Day...And late comers will miss out. Only Financial members will be able to attend this activity, and all you are asked to bring...
 (1)Your MEMBERSHIP CARD, (2)NOTE PAD & PENS,
 (3)Your Lunch, (4) \$3.00 (or \$1 and Discount Entry Ticket). (5) \$1.00 for your own personal copy of the TUTORIAL Booklet (which will only be available at that meeting.

See you there.

Oh, by the way... some members either haven't received their Membership Card, or have lost it. When you enter the hall...JOHN (Secretary) will be there to check you in with the membership listing.

We have located an alternative HALL to cope with our growing membership...Burwood RSL. However, that hall is undergoing repairs and there are some delays before we can move in...so PLEASE STAY POSTED TO YOUR SND.

MARCH GET-TO-GETHER...

This one is going to be DIFFERENT with a capital 'D'. We are going to have a CLUB AUCTION with Peter Varga as our Auctionere.

You will have the opportunity to SELL SWAP OR BUY any TI GOODS other than TI CONSOLES.

There will be a small fee to assist club funds...of \$2 those wishing to participate in having their software or hardware sold on that day.

SO BRING YOUR MONEY ... AND YOUR SELLABLE EQUIPMENT WITH YOU.

More details about this unique afternoon later.

ALSO IN MARCH: ...

The very large PERSONAL COMPUTER SHOW PC85 will be conducted during 13th & 16th of March at CENTREPOINT. John Robinson looking for members who can work on the T.I.S.H.U.G STAND at that show.

If you can assist, please phone him at home on (02)848 0956 A.S.A.P.

Texas Instruments TI-99/4 Home Computer

Video Display Terminal Formatting Sheet

CHAR Worksheet

	LEFT BLOCK	RIGHT BLOCK	CODE	SHORT- HAND CODE	DOTS
ROW 1				0	0000
ROW 2				1	0001
ROW 3				2	0010
ROW 4				3	0011
ROW 5				4	0100
ROW 6				5	0101
ROW 7				6	0110
ROW 8				7	0111
				8	1000
				9	1001
				A	1010
				B	1011
				C	1100
				D	1101
				E	1110
				F	1111

INPUT TO CHAR: _____

COLUMNS

	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31
2																
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APRIL MEETING: AUSSAT. A representative of the Australian Satellite Service will be our guest to show you what this service is all about and how it can help you.

====> New Committee for TISHUG <====

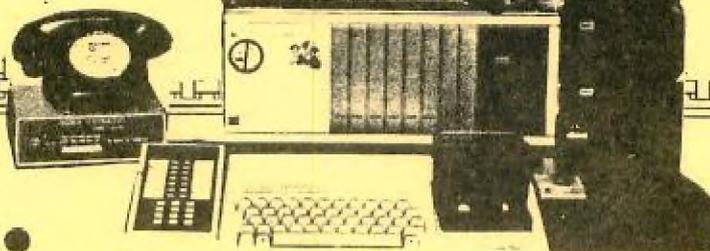
As on the recent A.G.M. the following were Re-elected by the members of this group to hold office for 1985...

- TI.S.H.U.G. CO-ORD: Peter Varga *
- SECRETARY: John Robinson *
- TREASURER/LIBRARIAN Terry Phillips *
- EDUCATIONAL CO-ORD: Peter Lynden *
- BBS SYSOP/EDITOR: Shane Andersen *
- BBS CO-ORD: Mark Nielsen *
- MUSIC DIRECTOR Russell Welham
- ASSISTANT LIBRARIAN Fred Morris *
- ASSISTANT EDITOR: Ray Spargo *
- ADVERTISING EXEC: Greg Hope *
- PUBLIC RELATIONS: Chris Ryan
- PROGRAMMERS CRISIS LINE: Graeme Hollis
- TECHNICAL ADVISER: Robert Reverill *
- COMMITTEE MEMBER: Ian Docherty



All those with an ASTERISK after their name are also contactable via this BBS.

THE CUT PAGE



TEXPAC ELECTRONIC BULLETIN BOARD SERVICE
P.O. Box 595, Marrickville, N.S.W. 2205.

REGISTRATION FORM

FEATURING: * ELECTRONIC SHOPPING, * ELECTRONIC MAILING,
* International and National TI NEWS,
* Programmes to Down-load,
* Programming HINTS, * JOKES, etc.

I wish to Register to operate the TEXPAC-BBS, please record the following details as printed below.

The USERNAME I have chosen for myself is [][][][][][][][][][][][][][][][] to be used for Electronic Mail etc. (Any NIC-NAME can be supplied other than your own).

MY NAME: _____ ADDRESS: _____

PHONE: () _____ Approx AGE: _____ P/CODE: _____

Please find enclosed with this Registration form, the sum of \$5 as being Annual Service Fee.

I own a (MODEM, BAUD RATE): _____

DATA STORAGE DEVICE: DISK DRIVE, CASSETTE, PRINTER, OTHER: _____

SOFTWARE I AM INTERESTED IN DOWN-LOADING as follows (please tick)...
 EDUCATION, BUSINESS, GAMES, OTHER: _____

I would like to join the BBS SUB-COMMITTEE.
 I agree not to use this system in any way, which would bring T.I.S.H.U.G under disrepute, an will be thoughtful to other by not HOGGING the line.
 I understand that printed instructions and on-line training will be provided.
 Photocopy of TI USERGROUP MEMBERSHIP CARD supplied.

PASSWORD and USERNAME will be also provided.

Signed: _____
Alternative Username: [][][][][][][][][][][][][][][][]
This service is open to all Financial members of any Australian Texas User Group, proof of membership must be supplied (i.e. Photocopy of Membership card).

COMMENTS:

-----OFFICE USE ONLY-----

DATE RECEIVED: [][][]/[][][]/[][][]. MEMBERSHIP Exp Date: [][][]/[][][].

PASSWORD SUPPLIED: [][][][][][][][][][][][][][][][]. USERNAME: [][][][].