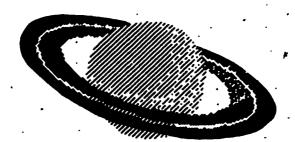


Newsletter of the

April 83

ews an Digi

Texas Instruments



# COMPUTER 80's



### with BRIAN LEWIS (Co-Ordinator)



TI S.H.U.G. wants to set up Specialist Groups which can concentrate on local areas, and/or special languages or techniques. We have discussed this at various meetings and now is the crunch -- let us try it out in May. Several members have offered to lend their homes so members in a locality can get together for an evening and decide:

Do we, as a local group, want to meet as a small group on a regular basis?

Do we want to meet in a home environment, exchange programmes, ideas, and get to know each other better

Do we want to specialise in a particular language, or the use of a particular accessory such as the speech synthesizer?

THE FIRST ROUND OF MEETINGS ARE DETAILED BELOW:

MERRYLANDS: at 11/26 Neil St. on the 18th MAY at 7:30p.m. Your host is VINCENT CERROTO, and he says he can host up to 12 people.

MacQUARIE UNIVERSITY:in building E8A -look for the signs, it is located between two buildings so ask the attendants for assistance. If you have your membership card you may avoid the 60c parking fee! Enter from Epping Rd. Your host is JOHN RAISON and his telephone #'s are 866364(W) and 889472(H) and the date is 23rd MAY-7:30pm

NORTH ROCKS: at 12 William Place on 25th May at 7:30pm and your host is TONY CASMIRI, telephone (H) 6833415.

MIRANDA: at Computer Connection on Saturday afternoon(2pm) the 29th May in in their shop at 629 Kingsway, telephone 5261404.

COLLARDY: at 20/17 Frazer St, on 30th May at 7:30pm. Your host is...ME. Telephone 9829973

BONDI: at 63 Ocean Street, and your host is PETER VARGA who will advise dates and times at our next meeting.

On behalf of your Committee, I thank each of these members for their assistance in offering their homes. If any one else would like to help us, please let a Committee Member know, meanwhile, the success of this project depends on you - go along, have fun, and lets make these TI HOME COMPUTERS SING !!!

Prian Lewis.

The go aloue the g •-ESHUG AUSSIE TAXHELPER in Extended Basic (4,3,1):: CALL COLOR(7,3,1):: CALL COLOR(7,3,1) NEXT (13 0 1):: A\$="FF00000( 100000" :: CALL CHAR(128.A\$) 1.1)BEEP SIZE(11):"CL: NAME" :: ACCEPT AT(1,14)SIZE(13)VALID CUMPENAL CN\$

1, 1) BEEP SIZE(16): "GROSS INCOMF (\$)" :: ACCEPT AT (3,19) SIZE(7) WIDATE (DIGIT): GI :: DISPLAY AT (3,26) SIZE (3): "TAX INSTALM: S PAID (\$c)" :: ACCEPT AT (5,19) SIZE (25): "TAX INSTALM: S PAID (\$c)" :: ACCEPT AT (5,19) SIZE (1) VALUATE (DIGIT" "): ITP

200 DISPLAY AT (6,1) BEEP SIZE (28): "TOTAL DEDUCTIONS ALLOWED (\$)" :: ACCEPT AT (7,19) SIZE (7) VALUATE (DIGIT): TDA :: DISPLAY AT (7,26): "OO"

250 DE GI : S SON SIZE (18): "TOTAL DEDUCTIONS ALLOWED (\$)" :: ACCEPT AT (7,26): "OO"

250 DE GI : S SON SIZE (18): "TOTAL DEDUCTIONS ALLOWED (\$)" :: GOOD AT (7,26): "OO"

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250 DE GI : S SON SIZE (18): "TOTAL DEDUCTIONS ALLOWED (\$)" :: GOOD AT (7,26): "OO"

250 DE GI : 35788 :: R=0.60 :: S=12614.92 :: GOSUB 390 SIZE(13):"CLIENT'S NAME" :: DISPLAY AT(8,16)SIZE(14):C "GROSS INCOME #########":GI

## SECRETARY'S NEWS with John Robinson





At the last General meeting Peter Day, a teacher at a local Business school, gave a talk on some of the courses available to learn Basic. Questions from the floor stimulated valuable discussions on the ways and means of increasing one's expertise in computer programming.

Demonstrations of the April club software were given by Russell Welham, Igor Mrimotat, and Lou Newhouse.

The members present voted on the club logo, and the winner was Manuel C. The prize to be awarded will be a 12 months TI S.H.U.G. membership. A total of 61 members and guests attended. At our next meeting we'll be talking about COMPUTER COMMUNICATION via Modems, and our June meeting will be a FULL-DAY TUTORIAL WORKSHOP on programming, then, at our JULY meeting Colin Stewart of MEMOREX will be our Guest Speaker. Colin will be talking about the manufacture, care & use of floppy discs.

At the last committee meeting, resulting from a letter received from Mr. Howard of Concord, a working Library Committee will be formed immediately. The key objectives of this committee will be:

[1].Complete Indexing of all programs

[2].Classify all programs.

[3]. Issue special purpose tapes.

[4]. Ensure a balance between various languages of monthly tapes.

Shane Andersen was voted unanimously a Life Member of the Club in recognition as the founder of the Club and the hard and unrewarded work done during the club's early days.

John Robinson.

In previous issues of this publication, mention has been made about HCSC, THE HOME COMPUTER SERVICE CLUB, and here is some more news...
FOR THE SERIOUS USER OF TI'S HOME COMPUTER, A SUBSTANTIAL DISCOUNT ON THE REGISTRATION FEES OF PERIPHERAL EQUIPMENT IS BEING OFFERED. THE MORE YOU REGISTER, THE GREATER THE DISCOUNT.

H.C. CONSOLE PLUS 1 PERIPHERAL = 20% DISCOUNT TEXAS INSTRUMENTS

" " 2 " = 25% " AUSTRALIA LIMITED

" " 3 " = 30% "
" " 4 " = 35% "
" " 5 " = 40% "
" " 6 " = 45% "
" " 7 AND ABOVE = 50% "



H.C. CONSOLE, SPEECH SYNTHESISER & MODULES DO NOT QUALIFY FOR DISCOUNT. Example of 3 1st year...H.C. RS232,DISK CONTROLLER & DRIVE.

typical system? REG; was \$66. Now it is \$52.20. Saving \$13.80

2nd year...H.C. RS232, DISK CONTROLLER, DRIVE#1, DRIVE#2 AND MEMORY EXPANSION. REG; was \$107. Now it's \$72.20

3rd year...H.C. TI BOX,RS232,CONTROLLER CARD,DRIVES 1,2,&3 MEMORY EXPANSION AND IMPACT PRINTER. REG; was \$171. Now \$105.50

For more information about the Home Computer Service Club, contact PAUL ENGLAND, CUSTOMER SERVICE MANAGER, TI(Australia)often very LIMITED.
6-12 Talavera Street, Nth Ryde. NSW 2113 (02.8871122).



# COMPUTER CONNECTION

# THE T.I. DEALER IN THE SOUTH



COMPUTER COMECTION

629 THE KINGSWAY, MIRANDA, NSW 2228. PHONE (02) 526 1404 EDITORIAL with Shane 5

I was really stoked, a short while ago, when I received a particular program from the International User Group, via our beloved Melbourne Co-Ordinator, Doug Thomas. On the disk he sent me, it was simply listed "SINGCOMP". I was instructed to ensure that both my SPEECH SYNTHESIZER and TERMINAL EMULATOR #2 module was connected. When I ran the program, people in adjoining home units could have heard me laugh my head off (however, they wouldn't have head the thump as my head hit the floor...JOKE!!) From out of the speaker of my Green-screen monitor came a male voice SINGING "Daisy, daisy, give my your answer true, I'm half crasy oh for the love of you"...etc. I'll bring it along to the next meeting on Saturday 7th May, and see what you think of it. And it will be part of the JUNE CLUB SOFTWARE.

This program enables you to make the computer sing anything you want it to. Just when you thought that your TE#2 module would enable you to communicate via modem to other computers, and provide unlimited speech in your programmes, plus read your listings for you...now it will make your TI HOME COMPUTER S I N G !!! I'm sure it won't take very long before one of you has composed a program to make it sing the theme from HAPPY DAYS or Handel/Mozart's MESSIAS.

Speaking of Club software, this months tape includes such programmes as FIREBALL..An EDUCATIONAL SPACE GAME. MARTY MARTIAN..." " " ,

INVASION...Fire down the flying VW's in mid-air(HITLERS REVENGE RE-VISITED), GAMES STACK...Set of 7 games of skill,

& TUCKER BOX..great music program by Russell Welham.

Some people seem to think that you have to pay \$3 for each program on the monthly tapes...WRONG !!! They are \$3.00 for the entire tape, to cover the cost of the blank tape and help pay off the new multi-tape recorder the group has just purchased, and for those who can't get to the meetings, \$1 extra to cover the cost of Jiffy Bag & postage. At the moment, until we get our act together, those orders should go through the club address at Pennant Hills.

Also concerning those of you who can't get to the meetings, and want to receive copies of the INTERNATIONAL 99'er MAGAZINE, please phone Terry, our Treasurer on (02)7976313 a/h.

In late June or early JULY, we plan to attend a special evening at OTC HOUSE in the city, to be their guests for an evening demonstration of COMPUTER COMMUNICATION VIA SATELLITE. At our next meeting, we'll be finding out who will be able to come along, but once again, for those unable to attend that meeting, please phone JOHN ROBINSON on (02)8480956 if you would like to join us for this very interesting night. With the introduction of the new low-cost WAFER TAPE & RS232 Interfase, we should be able to have a large number of members connected to modems before the end of this year...SEE OUR CENTRE PAGES for more details about that. We hope to have those low-cost peripherals at our JUNE FULL-DAY PROGRAMMERS WORKSHOP.

For those of you who have requested BACK-ISSUES of this SYDNEY NEWSDIGEST, SORRY...because the size of this group, we are unable to provide back-issues, but we will be re-printing HIGHLIGHTS of them in future issues.

I have just received my copy of a brand new book entitled...
"PROGRAMS FOR THE TI HOME COMPUTER" by Steve Davis, and it's brilliant.
126 pages full of programmes like TALKING TELETYPE, FRENCH NOUNS & FRENCH
TEACHER, VIDEO TAPE FINDER, AIRLINE GUIDE, MUSIC DURATION & FREQUENCY TRANS-T
LATOR, MURDER, ALLIGATOR ALLEY, SPEECH HELPER, SPEED READING, PLOT, SINE, COSINE
& CIRCLE PROGRAMMES, A HUGE ADVENTURE IN OZ GAME, TALKING TI TAROT, AND
MORSE CODER, plus so many more. It retails for \$23.95 and will be on sale
in a week or so at selected TI outlets. By



### IHE\_II-WRIIER

The TI-Writer Word Processor is a vast improvement on conventional typing, no longer does one require liquid paper or extensive re-typing to produce quality output, using this excellent package makes the production of any sort of document quick and easy.

You can create, save, and print your documents with the Text Editor, or insert format commands into your document and print it using the powerful Text Formatter. The TI-Writer Word Processor has many of the features of the larger Word Processors. With the Text Formatter, such operations as **overstriking** and <u>underlining</u>, and right margin justification are made available, as well as setting margins and paragraph indentation, inserting blank lines, centering, and automatically numbering pages consecutively.

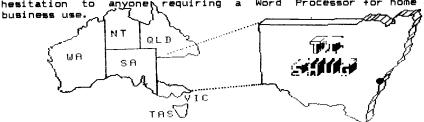
Creating a document with the Text Editor of the TI-Writer Word Processor is made easier with the Word Wrap feature that automatically moves words that exceed the right margin down to a new, automatically inserted blank line. This means you do not have to press a key at the end of each line as you would if you were using a typewriter. With Word Wrap, you simply type, and the Text Editor keeps your margins for you. Now, you don't have to keep looking back and forth from your text to the screen to see if you are running over the right margin. You can immediately see the benefits of having Word Wrap once you have used it.

With the Text Editor any type of document in paragraph form can be created using Word Wrap. Suppose your document needs a diagram, or a chart or table. These too can be created using the Fixed Mode of the Text Editor. In Fixed Mode, the Word Wrap feature is not activated so that inserting and deleting text will not cause Reformat to "readjust" the rest of your document.

It is also possible to use the TI-Writer to use any type of file in DIS/VAR 80 format so it is possible to use it to create files for later assembling by the TI Assembler package and as its editing features are even better than those of the Editor Assembler's this is a useful facility.

The package includes a quick reference card detailing the many functions of the program and a Manual which sets a new standard in program documentation. Included in the TI-Writer Manual are special tutorial sections on using the Text Editor and the Text Formatter. These two sections take you step by step through the creation, editing, and printing through the Text Formater. At the end of the Manual is a reference section that lists the Function and Control Key combinations, the Command Mode Commands, and Text Formatter commands, as well as a Glossary section and an Index.

In conclusion the TI-Writer is an excellent product which will meet with the approval of all who use it and can be recommended without hesitation to anyone requiring a Word Processor for home or small



# mod no chnology

### BRINGING COMPUTER COMMUNICATIONS TO THE PEOPLE

LUKE TO DAD: "Hey Dad! what's a MODEM/ACOUSTIC COUPLER?"

DAD: "Well son, it's a device that enables you to connect your TI Computer to the telephone.Then you can chat,with someone on another computer, either in the Sydney TI User Group, or Interstate and even Overseas."

\_UKE: "Oh WOW!!! Can I use it to swap programmes,instead of getting them
on tape from the club librarian?"

"All of the CLUB SOFTWARE comes from our Librarian, who gets it from members like ourselves. Other members write the programmes, and share them with the Librarian, so he or she can share them with us.

To help our club Librarian in his or her massive task of distribution, we can also swap programmes we have already received, with others in the club. To answer your question...all we need to do is telephone another member of the club, that we know has a modem, and arange to exchange programmes with each other."

"But Dad! How come every one in our group doesn't have a modem?

"Up to a short time ago, they were an item that only the rich could afford. Now that Modems are being made less expensive, they are becomming within our financial reach."

"Do we need any other stuff connected to our TI, making it possible for us to connect up to a modem?"

"Well, we don't, because we have the PERIPHERAL EXPANSION BOX with the RS232 CARD. But many of the members cannot affort this expence."

LUKE:(turning to Shane,who just happened to be visiting them):
"Shane,have you ever used a Modem on your TI?"

SHANE: "Yep! sure have Luke.Infact I had a long chat via my computer, to a fellow & his wife, in DENVER COLORADO,U.S.A., via satellite, through the SOURCE COMPUTER in the States."

With the introduction (in JUNE/JULY), of TI's new WAFERTAPE, RS232, MINI PRINTER-PLOTTER & HEXBUS CONNECTER...COMPUTER COMMUNICATION will become more readily available. This will save others the expence of getting the Peripheral Box. And at our next COMPUTER CLUB MEETING on SATURDAY the 7th(2pm), ANDREW NUTTING & JOHN ROBINSON, will be sharing with us the fun & frustrations of using their MODEMS to communicate with each other. Plus we'll be asking the other members at that meeting, who would like to join us at OTC(Overseas Tele-Communication) one night through the week, for a display of modems in use via Satellite.

Infact LUKE, if you read through THIS SPECIAL CENTRE-FOLD, you'll be able to read about how to communicate from computer to computer."



DAD:

LUKE: DAD:

LUKE:

DAD:





MIDAS is an international data transmission service which utilises packet switching technology to enable Australian customers to gain access to overseas data networks and through them a wide range of online database and remote computing services.

MIDAS is designed primarily for low speed terminal-to-computer operation, but computer-to-computer operation is also possible.

The transmission techniques employed by MIDAS make it a highly economic service for Australian users.

OA solution to the problem of information gathering.

Communications and your Home Computer.

By Andrew Nutting and John Robinson.

Perhaps one of the most exciting areas involved with the ownership of the 99/4A or the 99/4 is its potential as a communications device. At most elementary level you can use the word processor program that is available on tape and send messages through the Post by using cassettes.

While this method is satisfactory it leaves a lot to be desired. I realise that economic constraints affect us all but if you look at the number of command modules that you own and total the cost you may suprise yourself. For probably less than you've already spent you could have pursued a different line of expansion. .... COMMUNICATIONS....

### HOW TO DO IT & WHAT YOU WILL NEED:

1) you will need an RS232 interface. This may be in the form of the new RS232 card (which also has the parallel port) or the older stand alone type unit which may be picked up second hand. This device is also necessary for "Printing".

2) the only other item that you will require is a MODEM. This device allows your computer to communicate with other computers over the phone. Modems that are currently available fall into one of three catagories: direct connect modems such as the \$199 Dick Smith (excellent performance and one of the cheapest) / accoustic couplers (At about \$400 they are more expensive but dont need any special Telecom Outlets also you must remove and replace the receiver to talk to the person on the other end) / and lastly kit modems at about \$150 - \$200 these may be good value as some appear to offer baud rates (the speed of data transfer) of up to 600 which is double that available on the two preceding modems)

While mentioning baud rates, to give you a rough idea of the speed of 300 baud it is similar to the time taken to load a program from a cassette recorder.

Okay assuming that you have aquired items 1 & 2 just what can you do with them ?

John and I knew very little about the potential of the system until we had gained knowledge through trial and trial. While I am sure that we will continue to find new alternatives here is a brief summary of what is possible at the moment.

- A) programs can be exchanged by using the SAVE "RS232" & OLD "RS232" commands. You can both send and receive programs all for the cost of just one phone call. (using the word processor letters or files may also be sent)
- B) Data files generated from such modules as the Personal Record Keeper, the Personal Report Generator and the Statistics module may be sent to a friend with a printer or with complementary modules.

in a Antony Lewis have both been members of THE SOURCE for about a year and enables them to communicate with other computers around the world via this incredable media based in the U.S.A. Here is the minimum configuration required to estabish the connection to the SOURCE.

- (1) TI-99/4 or 4A plus (a MUST if you want to connect to TEXNET and use its vast facilities for the TI HOME COMPUTER).
- (2) RS232 INTERFACE (this is required to connect an ACOUSTIC COUPLER or Modem to your system).
- (3) ACOUSTIC COUPLER or MODEM: this enables your system to send data over the telephone lines to anyone, but in this situation it establishes the link with MIDAS SATELLITE link in Sydney.
- (4) MIDAS Account (Application form from DTC in any State); this provides you with a User Name & Password which will enable you to connect to the U.S. 'PACKET SWITCHING' network via satellite, and through this you are connected to the SOURCE; MIDAS is accessed through a TOLL-FREE number from anywhere in Australia, there is no joining fee and the charges are about \$12/connect hour and \$.60c/1000 characters, billed to you monthly.
- (5) SOURCE Account(Contact Shane to arrange the connection for you in this regard); The SOURCE A/c provides you with a SOURCE ID & PASSWORD through which you have access to all the vast facilities of the SOURCE & TEXNET and you can change your password as often as you wish, for security. The joining fee is US\$100 & approx \$5.00US/connect hour non-prime time(9am to 10pm weekdays & all day Saturday & Sunday AUST; EST)or \$15/connect hour prime time(10pm to 9am weekdays)plus any storage(very cheap rates)if you maintain data files. This is all billed to your charge account monthly(see item#6).
- (6) CHARGE CARD Account: i.e. Overseas Bankcard (VISA or MASTERCHARGE) or AMERICAN EXPRESS. This item is necessary because the SOURCE will only bill in US\$ and via a charge account, so you cannot connect to the SOURCE without one TIME TO BUTTER UP THE BANK MANAGER; an Overseas Bankcard costs about \$25pa renewable yearly.
- (7) TERMINAL EMULATOR Module: (If you wish to access TEXNET then you must have the TE#2,otherwise TE#1 will suffice). These are required to convert your system into a terminal so that it can be commanded by the host system, i.e. the Source.

Shanes TECHO-SHEET#1(available upon request via the club or at Computerwave provides you with the wire configuration of the adapter cable between the RS232 Interface & SENDATA MODEM 700.

- C) If you own a Terminal Emulator II you can either send stored letters or information to anyone who also has a TE.II the messages can also be spoken if you have the speech synthesiser connected.
- D) Avid readers of the 99'er magazine will also know of the recent release of software games that can be played by two or more people via phone lines, RS232's and Modems.

While this article doesn't pretend to be any more than a skimming of the surface on communicating with your computer John and I hope that it gives you enough encouragement to launch into this exciting new area.

We hope to hear from you soon

John & Andrew. ....over



12 WE ARE PROUD TO ANNOUNCE OUR NEW, LOW COST, MULTI-SPEED, HIGH FUNCTION COMMUNICATIONS MODEM. THIS AUSTRALIAN DESIGNED AND MANUFACTURED PRODUCT IS NOW AVAILABLE FROM YOUR DEALER.

### **FUNCTION**

The UDM-1200 allows you to connect your micro-computer or VDU to other micros, VDUs mainframes or public data bases such as The Australian Beginning, INFONET, I P Sharp, through your home telephone line.

### SIMPLICITY

The UDM-1200 is extremely simple to use. Just plug it in and communicate. No need to keep attaching each time. Lets your micro communicate when you're not there.

### SPEEDS

Selectable between 300/600/1200 bits per second under/manual or computer control. The UDM-1200 handles all the common public network speeds. High speed 1200 bps communications will cut out the tedium and give massive savings on STD and connect time charges. Speeds can be set manually or by your computer. Thus on a dirty line you can automatically switch to a lower speed.

### INDUSTRY STANDARDS

Supported are the CCITT V21 and V23 using the RS232C interface. These are the standards used in Australia and Europe, so you can interface with 99% of all VDUs, micros, minis, data bases offered in Australia. The Bell 103/113, 108 and 202 standards are also supported so you can dial direct to the U.S.A.

### **AUTO DIAL**

Under your computer's control. This will save connections. It allows unattended operation by monitoring or security systems.



THE UNIVERSAL DATA MODEM-1200

### **AUTO ANSWER**

Lets you access your computer remotely. You can easily set up your own private (or public) data base.

### PHONE

The modem only ties up your telephone when you are actually communicating. It can be used normally at other times.

### TELECOM APPROVED

Approval No. C83/37/1020. This means you are allowed to connect to the telephone network.

### SELF CHECK

A loop back facility offers you the ability to test the modern by a flick of a switch. This is a simple way to identify problem areas.

### INSTRUCTIONS

The UDM-1200 comes with a simple User Manual, which not only shows you how to set up and use the modem, but also provides a guide to application uses, public data bases, and communication gateways open to you.

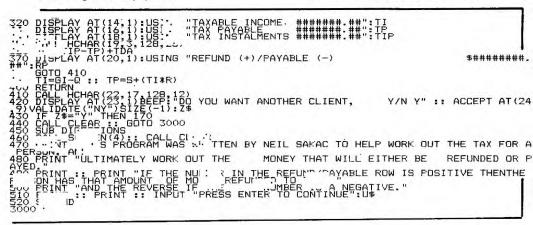
### SOFTWARE

MICRO TECHNOLOGY has software available to give you low cost communication functions, to help you utilize your UDM-1200 to its fullest.

### WARRANTY

A 12 month warranty is offered with each modem. Then a low-cost maintenance agreement is available to protect you in case of hardware problems.

MODEM TECHNOLOGY is a division of HIGHLINE SYSTEMS SPECIALISTS PTY. LTD you time and eliminate mistakes when making an Australian owned company specialising in high technology developme Suite 1, 55-65 Phillip Street, Parramatta. 2150. Telephone: (02) 635 9618 Postal Address: P.O. Box 778, Crows Nest. 2065





### "THE NEW RS232 CARD: USING THE PARALLEL PORT" by Andrew Nutting -TI.S.H.U.G.

Those of you that have purchased the new EXPANSION BOX and RS232 CARD may wish to save money by using the parellel port provided by the new card. This additional port will allow you to connect a printer with a centronics interface, saving you about \$100-\$200. The interface cable that I will describe works on an MX-100 and should work on similar printers, at the very worst you will have a good start along the way to using any standard printer with a centronics port.

I think that the hardest part of the task was to obtain the parts, and then find out how the pins on the TI's port are numbered.

### WHAT YOU WILL NEED:

"PIO":R9232

- [1] A-suitable male plug for the printer (26 pin)
- [2] A 16 pin T & B Ansley polarised plug (I think that it comes from the series know as "BLUE MAX")
- [3] 2 meteres of ribbon cable.

The 16 pin plug is wired as follows: Pin 1 is denoted by the " " symbol. Other pins can be found 2 below 1... and at the other end 16 helow 15.

"PRINTER"

WIRE THE CABLE AS INDICATED ...

F1N 1.....PIN 1 

10.....11(BUSY)

16......(optional).....any other earth

PS: The Dick Smith Modem also works well with the RS232 connected as follows: RS232/MODEM... U.E. 273, 3/2, 7/7, 20/8.

GOODLUCK AND GOOD PRINTING !



Yes it's our INTERNATIONAL MAGAZINE crammed with News & Views, and programmes too. The MARCH ISSUE is now available at the next club meeting. The April issue (out soon) reviews MULTIPLAN, HOME COMPUTER CRYPTOGRAPHS, FUN WITH SPRITES, plus loads of programmes.

Be sure to get your 99'er at your club meeting, or phone (02)7976313 -TERRY to obtain your personal copy if you can't make it to the meetings.



HELPING TI.S.H.U.G. GROW

CORRECTION TO "OLDIES BUT GOODIES 1"

### NUMBER SCRAMBLE

2100 Should read GOTU 1850 Line Not GOTO 1840

Line 3200 Should read IF KEY+1=1 THEN 3270

Not IF KEY=0 THEN 3270

These corrections will make the game run correctly giving you more details.



# ınger Set

\*HUSTLE YMMBL with

\*VIDEO GAMES \*TUNNELS OF DOOM

> Т IΑ

>>> COMPETITITION <<<

with this month's HALL OF FAME....

*PARSEC		*INDOOR SOCCER	*MUNCHMAN
		PLAYER	
ATTACK	99800	s.HODGES	LEV 4
CAR WARS	79490	P.DOBE	S .D. 9 STAGE 10
MUNCHMAN	187770	R. TURNANSKY	2 % 1 STAGE 45
PARSEC	3542000	E.KING	No Details
PINBALL	1068460	A.LEWIS	N/A
TI INVADER	S 32 <b>8</b> 16	A.LEWIS	No Details
TOMBSTONE CIT	Y 90650	C.PHILLIPS	Day 12
*INV	ADERS	*ADVENTURE	*WORDMA7F

WORD OF WARNING: VERFICATION MUST without written verification. (A BOOK FOR THIS PURPOSE

On a brighter note, thanks to Andrew Liell and all members who sent in their high scores for PARSEC.Keep Stuart Downes also wrote to say that he had achieved 99 wins without a miss in A-MAZE-ING. The set-up being used was 'CHEESEHUNT, BLIND-MAZE, 2 CATS, FAST MOUSE'.

This month, we have a super competition, the prize being a \$50 open order at COMPUTERWAVE.O.K. All you have to do is to go through this newsletter, and find the names of SOME TI GAMES. As a clue, the words will have an asterisk printed next to them. When you have all 26 words, make a list of them, and then find them on the maze below, and post your entry to:-

YOUNGER SET, *FOOTBALL		<del>×</del> ⊣
A HIMALAYA C	RES	GAD.
SEVEN HI	LLS, 214	7
The winner will be presented wit the big WORKSHOP DAY in june.So go		at

Don't forget, if you are under 18, this is your page! So feel free to send me your programmes or high scores.

\*TIC TAC TOE

If there are no correct entries, the prize will be forfeited, and re-offered at a later time .

\*SUPAMIND

\*PINBALL

\*CAR WARS \*OLDIES BUT GOODIES UNTIL NEXT TIME.

.\*A MAZE ING

\*YAHTZEE

\*HUNT THE WUMPUS

Denny

ENTRY FORM. AYITIHJESE MKLUIUFIEE AUKNVNEOVE ZPUNXTRLS EADEL TUDR NOOSZENEW GRMOCWESRY DEUFKUVBAU DZNDKMDUCB NCCOCFATMX IIHOAULGBS MNMMJSROLR ADAYKUYOAE PONWC ST UOTWAUIITA SRLKLWCEOV CSZDBWESPN BE SUPPLIED.As of this month ,I CANNOT accept any scores EOMIAXNTII SCEACVOHNF RCOBIITABE WILL BE AT ALL FUTURE MEETINGS). AETLKDSNAZ PRCOFEBGLA GRALOOMMLM

\*HANGMAN

Address\_\_\_\_

JATEOGOALD

PICLIAINNR

HTITBMDWTO

BATSAEASOW

ACSULSOYEQ OKIHLOTE



All Correspondence to: Box 268 **GPO Sydney** N.S.W. 2001



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TO BE THE LARGEST TI HOME COMPUTER RETAILER IN AUSTRALIA, WE MUST BE DOING SOME THING RIGHT !!!

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COME IN AND CHECK OUT OUR RANGE...PRICES HAVE JUST GONE UP DUE TO THE DEVALUE OF THE AUSTRALIAN DOLLAR, BUT ANY STOCK THAT WAS PURCHASED BY US BEFORE THE DEVALUATION, WILL REMAIN AT THE OLD PRICE UNTIL STOCKS ARE GONE.

And now, here are some items we believe, you'll want to know that we have just for you...

No longer do you have to hassle over converting those ATARI type JOYSTICKS to go on your TI-99/4(A), for \$25.00 we've got the answer... "THE JOYST ADAPTOR" All the conversions are done for you inside this black box. A must if you want to use those REMOTE CONTROL JOYSTICKS etc.

We also have stocks of the powerful TI WRITER at only \$109.00 (A saving of \$40.) plus the ALL NEW "MICROSOFT MULTIPLAN" and other Business programmes.

IN A WEEK OR SO, WE'LL BE GETTING IN SHIPMENTS OF THE 126 PAGE BOOK ENTITLED...

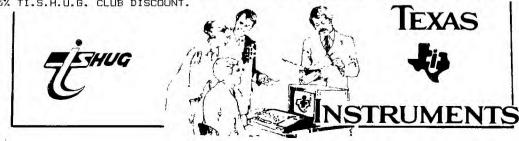
"Programs for the TIHOME COMPUTER" by Steve Davis.

This huge book will retail for only \$23.95 and is crammed full of nothing but PROGRAMMES for your computer. It has 51 programmes for you to type in, in both TI & EXTENDED BASIC. It also has a huge adventure program called ADVENTURE IN OZ This is one publication you won't want to miss out on.

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You can order by phone or mail by either providing us with your BANKCARD, AMEX or GRACE BROTHERS CREDIT CARD NUMBER.

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***********************************
* PROGRAM TO CLEAR THE SCREEN IN A CURTAIN EFFECT SCROLLING *
* USED WITH CALL LINK("CS") FROM BASIC OR EXTENDED BASIC
* IF USING MINI-MEM, THE LABEL "CS" MUST BE INCLUDED IN THE *
* REF/DEF TABLE ALONG WITH THE ADDRESS >7D00.REFER TO THE
* LINE BY LINE MANUAL. DEF CS WILL DO THIS AUTOMATICALLY IF *
* YOU ARE USING THE EDITOR/ASSEMBLER.
                                                 BY MANUEL C. *
***********************
WD
       EQU
            >8000
WA
       EQU
            >8002
RD
       EQU
            >8800
       DEF
            CS
                         REMOVE IF USING LINE BY LINE ASSEMB.
CS
       MOV
            R11,R10
                         SAVE BASIC RETURN ADDRESS
                         14 SIDE SCROLLS
       1 1
            R3,16
50
       LI
            R4,15
                         15 COLUMNS ON EITHER SIDE
            R5.30
       LI
                         ADDRESS OF RIGHT SIDE
                         ADDRESS OF LEFT SIDE
       LI
            R6,1
       LI
            R2,24
                        24 ROWS PER COLUMN
S1
       MOV
            R5,R0
                        LEFT SIDE ADDRESS TEMP. IN RO
                         READ CHAR AT LOCATION RO
       BL
            asr
                         MOVE THAT CHAR TO R1
       MOVB ORD,R1
       INC
            RO
                         NEW SCREEN LOCATION OF THAT CHAR
       BL.
            ลรพ
                         SET ADDRESS OF NEW LOCATION
       MOVB R1, DWD
                        WRITE THE CHAR TO NEW LOCATION
                        RIGHT SIDE ADDRESS TEMP. IN RO
       MOV
            R6,R0
       BL
            OSR
                        READ CHAR AT LOCATION RO
                        MOVE THAT CHAR TO R1
       MOVB arD.R1
       DEC
            RO
                        NEW SCREEN LOCATION OF THAT CHAR
                         SET ADDRESS OF NEW LOCATION
       ВI
            ลรผ
                        WRITE THE CHAR TO NEW LOCATION
       MOVB R1, aWD
       ΑI
            R4,32
                         NEW SCREEN POSITION FOR LEFT COLUMN
                        NEW SCREEN POSITION FOR RIGHT COLUMN
       ΑI
            R5,32
       DEC
            R2
                         24 ROWS PER COLUMN COUNTER
                         MORE ROWS TO FINISH THAT COLUMN
       JNE
            S1
       LI
            R2,24
                         NEW COLUMN
            R5,-769
                         NEW POSITION OF RIGHT COLUMN
       AI
            R6,-767
       ΑI
                         NEW POSITION OF LEFT COLUMN
            R4
                         15 COLUMNS ON EITHER SIDE COUNTER
       DEC
                         MORE COLUMNS
       JNE
            S1
                         FIRST TIME AROUND?
       CI
            R3,16
       JNE
            S3
                         NO.
* FILL MIDDLE TWO COLUMNS WITH BLANKS 1ST TIME AROUND
                         POSITION OF MIDDLE COLUMNS
       LI
            RO, 15
            R1,>8000
       LI
                         SPACE CHARACTER
       LI
            R2,24
                         24 ROWS PER COLUMN
S2
            อรพ
                         SET ADDRESS
       MOVB R1, DWD
                         BLANK AT THAT ADDRESS
                        BLANK AT NEXT ADDRESS
       MOVB R1, aWD
                         NEXT SCREEN POSITION
       ΑI
            RO,32
                         COUNTER
       DEC
            R2
       JNE
            S2
                         NOT FINISHED
                         NUMBER OF SCREEN SCROLLS COUNTER
S3
       DEC
            R3
       JNE
                         MORE SCREEN SCROLLS
            50
                         RETURN TO BASIC
       R
            *R10
* SET WRITE ACCESS ADDRESS IN VDP *
                         ENABLE THE WRITE FLAG IN VDP
SW
       ORI
            RO,>4000
            ACCESS ADDRESS IN VDP *
* SET READ
                         SWAP BYTES
       SWPB RO
SR
       MOVE RO, OWA
                         WRITE LSB OF ADDRESS TO VDP
                         SWAP BYTES BACK; TAKES TIME
       SWPB RO
       MOVB RO, WAA WRITE MSB OF ADDRESS TO VDP
ANDI RO, >3FFF REMOVE WRITE FLAG FROM RO
       RT
       END
```

Here is a demonstration game that I call Jack in the minefield, or Jumping Jack. It shows how to use the 4 arrow keys; S,

E.D. and X as well as the 'corner keys'; W. R, Z, and C, to move a character around the screen. The program also keeps score

and keeps a running high score. This program serves as a starting place for a wide number of run-through-the-maze games. If I counted right, it has only 83 lines.

TOO CALL CLEAR 101 CALL SCREEN(9)

102 SCORE=0

110 PRINT "

120 FOR DELAY=1 TO 16 121 CALL SCREEN (DELAY)

122 CALL SOUND(100.DELAY\*DELAY+110,0)

JUMPING JACK":::::::::

130 NEXT DELAY TRY TO JUMP THROUGH THE" 140 PRINT "

150 PRINT " MINEFIELD, JACK, EACH" JUMP IS WORTH A POINT !":::::::: 160 PRINT "

170 FOR DELAY=1 TO 1000 180 NEXT DELAY

190 REM TWO JUMPING JACKS

200 CALL SCREEN(3) 210 CALL CHAR(96, "18187E9999244281")

220 CALL CHAR (97, "18187E3C5A242466") 230 REM FLASH

240 CALL CHAR(104,"914A3455AA54BA11") 250 REM MINE

260 CALL CHAR(112,"0000000000387C38") 270 CALL COLOR(9,11,3)

280 CALL COLOR(10,10,3)

290 CALL COLOR(11,13,3) 300 ROW=12

310 COL=16

315 CALL CLEAR

320 CALL HCHAR(RND\*23+1,RND\*31+1,112)

330 CALL HCHAR (ROW, COL, 97) 340 REM START JACK

350 CALL KEY(O, KEY, STATUS) 360 REM IF STATUS=0 THEN 350

370 OLDROW=ROW

386 MEDCAL≂CAL

390 [F KEY<>83 THEN 420 400 CDL=COL-1

410 GOTO 660

420 IF KEYK>87 THEN 460 430 ROW=ROW-1

440 COL=COL-1

450 GOTO 660 460 IF KEY<>68 THEN 490

470 COL=COL+1

480 GOTO 660 490 IF KEYK>82 THEN 530

500 RDW=ROW-1 510 COL=COL+1

520 GOTO 660

530 IF KEY<>69 THEN 560

540 ROW=ROW-1 550 GOTO 660

560 IF KEY<>67 THEN 600

570 ROW=ROW+1

580 COL=COL+1

590 GOTO 660

A OUICE HINT '''!!!!!!!!!! \_\_\_\_\_\_ FOR THOSE OF YOU WHO ARE LUCKY

ENOUGH TO HAVE THE SPEECH SYNTHESIZER & TE#2 MODULE, YOU MAY LIKE TO TRY THIS OUT.....

To get your console(with the above items), to read program listings aloud, simply type...

LIST"SPEECH" and press enter. Other formats include... LIST"SPEECH": 100, LIST"SPEECH" 100-,

and LIST"SPEECH": 100-200 etc. It's great if you want to check a printed listing, and not bother

about looking at the screen. 600 IF KEY<>88 THEN 630

510 ROW=ROW+1 620 **GOTO** 660 430 IF KEY<>90 THEN 320

640 ROW=ROW+1 650 COL≕COL-1

660 CALL HCHAR (OLDROW, OLDCOL, 32)

670 CALL GCHAR (ROW, COL, MINE) 680 CALL HCHAR (ROW, COL, 96)

690 CALL SOUND(25,-7.0) 700 CALL HCHAR (ROW, COL. 97)

710 SCORE=SCORE+1

720 IF MINE=112 THEN 740 730 GOTO 320

740 CALL HCHAR(ROW.COL, 104)

750 CALL SOUND(1000,-6,0) 760 CALL COLOR(10,16.3)

770 CALL SOUND (1000, -7,0)

780 PRINT " YOU GOT BLOWN UP. JACK !!" 782 IF HIGH<SCORE THEN 785

783 IF HIGH=SCORE THEN 785

784 GOTO 790

785 HIGH=SCORE

790 PRINT " YOUR SCORE ":SCORE 791 PRINT " HIGH SCORE "; HIGH

800 FOR DELAY=1 TO 2000

810 NEXT DELAY

820 6010 100 830 END

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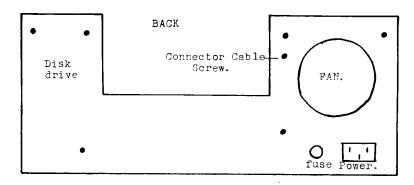
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"PROGRAMMERS CRISIS LINE"

Graeme Hollis 992229 EDUCATION CO-ORDINATOR: Peter Lynden 6357841.

SOFTWARE LIBRARIAN: Manuel Constantinidis 5971069





### Remove the Cover.

Pull on/off knob off.

Remove all Phillips head screws on every panel.

Remove the dummy disk drive cover.

The front of the box should slide away from the back allowing you to work on the power supply.

### Changing to 240V. working.

The wire going to the bottom front terminal of the switch has a connector in the lead. Carefully pull this connector apart.

Lift the Orange wire off the terminal strip near the switch and connect this lead to the switch.

The Red lead that was removed from the connector canbe placed on the terminal strip where the orange wire was removed.

Change the plug on the power cord to the Australian type ensuring the active wire goes to the fuse. On my cord blue-active, brown-neutral, green/yellow-earth.

### Assembling the Unit.

Slide the two halfs together, if you are fitting the disk drive leave the screws out on the drive side of the back cover this allows you to get the connection cable in, Else screw unit together and happy computing

P.S. Replace on/off switch knob by pushing straight in.