RENEWAE T1ME ZT T1.8.H.E.G.
registered by australia post PUBLICATION No. NBH5933


# SYDNEY 



 DUE TO THE PUBLIC HOLIDAY ON THE FIRST SATURDAY OF THIS COMMING MONTH OUR MEETING DAY IS ON THE All. you need to bring is yourself plus FEN \& PAFER... read all about it on page 3 IT: F FEMEWAL TIME FGF: MAMT GF YGU! ! : \& Take a look at your MEMEERSHIF CARD,
if it. has either EEPT. or GCT"gs on it, we urge you
to send us your renewal 220 Now, as you could miss out on your next issue of the SYDNEY NEWSDIGEST
SEE THE RENEWAL FOFM ON THE BACE Fr. $16,14+2$


Eefore I get into the meaty side of the news. there are a few items which you will want to know aboutit."."

TWO NEW REGIONAL MEETINES.
ON SUNDAY THE 9thscday after our next BIG meeting) I have been asked to be the guest speaker at the LIVERFOOL FEGXGNAL.. GFOUF. This will be their first session, so if you live nowe or around the Liverpool area come on along and have some fun.

It will be conducted at 19 CHEERYBROOK AVE, LANDSVALEE (2pm sharp). Fror further details contert: Ale: Extom on 7277061.

The other new meeting will take place on the Wednesday evening after our next big meeting for those in or around GOROKAN. For further details, contact RUSSELI. WELHAM at either (w) 04. -521595, ( 17 ) 043-924000. The meeting will be at his home... 20 Avonlea Ave Gorokan.

Just in case you typacd in the program walled SUCCESS FORMULA from the lest issue of the $99^{\circ}$ er magezine and found an errorg perthaps this will make it all right. .. ON FAGE 48, line number 2920 change the RESTOFE Iine to meac RESTOFE SgBo. HOFEFULIUY ALL WILL. EE O.K. Thamts to Fiussel. 1 for contacting me about that:

Due to the public holiday this week-mend, the Club Meeting will be held the following week. I should memtion that the followimg month four A. G. M.) will also be held on the second Saturday of NQVEMBEF.

All. you need to bring with you for this very unique afternoon of family sharing, Will be
[1]: A FEN or quili with int
[2]: A NOTE PAD to take down notes!!!!!!
[3.7: ANY PROBLEMS YOU HAVE ABOUT FROGRAMMING or COMPUTING.

We"re going to Mave on stagen a FANE: OF GLEST FROgrammers, along with an overhead projector, ready to answer your questions, or share with you some interesting routines to entance your programmes:

QUR GUEST PANEL will consist of:
GRAEME HOLLSS from the Programmers Crisis line ANDFEW NUTTING Education/Communications Div. PETEF LYNDEN Educational Co-Drdinator Author DAVID LIELL Frogramming tip-ster
JOHN ROEINSON Club Secretary supreme.
We have had well recelved half yearly tutorials(next one planned for FEBRUARY) "but you"ll really mjoy this imfommal PANEL OF FRO"G. So, all this coming weekn write down the things you are having problems with pelated to computing, bring your notes along to the next meeting with enough paper to write down the brilliant replies. GEE YOU THERE, at Stuamn"s Chureh Hall Victoria St, Darlinghumst between the Kings Cross Fire Station and St. Vincent"s Hospital (2pm to 4:30pm).

I recently had the phone put on specifically to be used for MODEM COMMLNICATION at homen Aridrew came over and showed me how to use my new CICADASOO modem. A demonstration of this equipment will be given at my regional meeting on the first Tuesday of this month. We now have o or 7 members in our cilub with modems and are alyle to access the free data beses in sydney, as well as MiCC, ALUSRALIAN EEGINMING OVERGEAS SYSTEMS VIa Satelliten If you are interested i MODEM/COMFUTER COMMUNICATION please comtact

Fromemed with thjs issue are membershim carde for $1989-1964 . \quad$ If there is no card with the newsletter then you have either not renewed or you reweived yours at the last mesting or by

 be your last newsletter if we do not recejve your menewal. form and membership fee of $\$_{2}^{20.00}$ by the end of October" "So do jt now! ! !

We have had several Eamplaints about the Ioading of the Clut Software Tapes BASIC Vol. 1. No. I and EXTENDED BASIC VOL. 1. NO. I.. If you are experiencimg difficulty a tip is to remove the
以othy on your twaerecorder. I founc that these two extions emalaled me to load both tapes without any difficulty"

Hamley Armstromg writes that he is having probldems loading a Basic program. I think he may me loadime this whownthe Extended Basic
 mot avail able in Extended Easic.

Mere" who actidentiy type OLD CSin nit <ENTER \% amd suddendy readi we they want to GAVE the program they have worked on for the last few hours - no wormias, just SHIFTE, Mit SENTEFP, get an EFROR MESSABE and start agajn.

## COMMITTEE ROUNDUP:

At meeting \#22 held on August 30th final proofs of the Constitution were chected and format af the publication decided. Your executive agreed to purchase a loudspeaker system for use at our generel meetimgs. We are investigating the costs of an overhead projector. A decision is expected at the next meeting on the tape/dist supplier*

We are now looking forward to receiving NOMINATIONS for the CO-ORDINATING COMMITTEE for 1983-84. Nomination forms are arovided elsewhere in this newsjetter. Terry Fhillips Mas recently been nominated to be Club Libramian since he has just purchased a dist: system from Computerwave.
keep those renewals rolling in,
Happy Computing:
John Frobinson.

Andrew, dohm FyManual Cotraeme S, Andrew $W_{3}$ or myself.

Here is a list of the FrEE DATA BASES available in Sydmey..."

Mj. Computer Clubn.n(o2)662168日
SOFTWAFE TOOLE...... (O2)9971BSE
(this one is a CF/M Data Ease and so to get on you should type DDT as the password to get on)

MICRO DEGIGN LAB..."(O2) 66SOIE1.
TELECOM BES.n....n.n(O2)663OISE
GYDNEY FUBLIC ACCESS (O2) BOG35SG
AWA DATABASE.......n(O2) 922465 E
Flus of course, all those you know who have modems connected. 1"IJ shame more information about FROTDCOL etc in the mext issue of SYDNEY NEWSDDIGEST.

BY FOR NOW

## Questions and Answers About the 128K Card

Q. I don't program at all. I just use programs like Multiplan ${ }^{\mathrm{TM}}$ and TI -Writer ${ }^{\mathrm{TM}}$. I hope that if I buy the 128 K card, I'll be able to work on spreadsheets and documents that are four times larger than those that fit in 32K. Is that how it works?
A. Yes, but not using those particular programs. You see, those programs were written to use only 32 K . We have no way of modifying them to use 128 K . Of course, similar programs could be written to use all the available memory, and then you would have exactly what you want.
Q. What will happen if 1 plug in a 128 K card and try to run Multiplan, Ti-Writer, or something similar?
A. It will behave just as if you only had a 32 K card. For example, if you run Extended Basic and type "SIZE", the computer will tell you that you have " 11840 BYTES OF STACK FREE, 24488 BYTES OF PROGRAM SPACE FREE."
Q. Why is that? You'd think that the computer would be able to tell how much memory is available and to use all of it.
A. Well, the 71 computer can only address 32 K bytes of expansion memory at a time. The way that Foundation provides 128 K is by making it look to the computer like four separate 32 K cards, only one of which is turned on at a time. This technique is called "bank switching".
Q. Would you summarize the reasons for getting a 128 K card instead of a 32 K card?
A. The best reason for getting the 128 K card is that you write programs and you need more memory than 32 K . If you don't write programs yourself, the best reason for getting a 128 K card is that you want to be able to take advantage of large-memory programs as they become available. We are working on several ourselves, and we are aiso talking to severai third-party software houses about writing and adapting software to use the extra memory.
Q. What kind of programs are you working on?
A. Well, the first and most important is called a "disk emulator". It allows you to read and write files from memory as if they were on a very fast disk. It provides à new device called "DSKX". You can OPEN files on it then INPUT and PRINT to them, all at memory speeds.
Q. It sounds like this disk emulator is pretty important. Are you sure it can be done in the time frame you're talking about? Also, how much will it cost?
A. It will cost less than forty dollars, and it will be available this summer. It's a very straightforward piece of software; nothing really exotic is involved.
Q. It sounds like I always need the DSR option. Is that true?
A. If you're a really excellent assembly-language programmer who already has a Mini-Memory ${ }^{\text {rm }}$ module, you could get along without it. But otherwise you should definitely get it.
Q. I already have a 32 K card. Can I use the 128 K card in addition to it?
A. Unfortunately, the answer is no. There is no way to turn off the 32 K card, so it always "collides" with the active bank of the 128 K card. If you want the 128 K card, you'll have to put an ad in the paper and sell your 32 K card.

David Liell, member of TI.S.H.U.O. plans to bring this fabulous card into the country, but due to Customs and freight charges, the $128 k$ card will cost just over \$400. 00 If you are interested in obtaining this card, please write to DAVID C/-- SYDNEY NEWSIGEST
F.O.BON 595

MARFICKVILLE,
N.S.W. Aust. 2204

## SOFTWARE

1 EET TEI ERDUN SFRIMGFIELI MD．
100 FEM＊FFIGHT PLARAINS FFDGFAM
110 FFIAT＂AHMUEF FMTH DUESTIDH
HNI FRESS EDTEE
120 FRINT：
12 INFUT＂FRESENT FIEFDRT NAME
＂；F＂
12G INFIT＂IESTMATIDN HIFPQPT N
Frict：IT
130 FRINT＂ENTER LAT GND LQNG IN
DE－GEEES HMD MPNTES：EMHFF
LE：37．15
13 FFINT ：
140 IPFUT＂ENTEE DDIE FRESENT LA TITIDE FHI FRESS EITEE：＂：In，H
$145 \mathrm{FLT}=\mathrm{I}+\mathrm{HE}$
151 IHFUT＂FRESENT LDUGITUIE＂：II．
$155 \mathrm{FLG}=\mathrm{I}+\mathrm{H} \mathrm{EH}$
160 INFUT＂IESTINATICH LATITUNE＂
：I，M
$165 \mathrm{ILT}=\mathrm{I}+\mathrm{A}+\mathrm{G}$
1FO INFUT＂TEETINHTION EDNGTUTE ＂：In M
$175 \quad \mathrm{LLG}=\mathrm{I}+660 \mathrm{C}$
1 EU IMFUT＂WINI DIEEGTIDN GEGFE
EW？＂：WI
190 IAFUT＂GIAD UELDCITY KNDTST ＂：wis
EOD INFUT＂TRUE FIFEPEED ©NDTS？ ＂：TH
210 INFUT＂FUEL D\＆EDARIT（GHL）
＂：F！
EED INFIT＂FUEL CONGUHFTIDOEFH ？＂：FO
EOU INFUT＂HVE，MAE，WHEIATIDA HLDNG ROUTE ES：E，E＂EMV，HI
ESI FFINT：
QE IF MT＝＂E＂THEH 234 ELSE E40
$234 \mathrm{Mv}=-14$
240 $\mathrm{HE}=\mathrm{HES}(\mathrm{FLT}-\mathrm{ILT}) * \mathrm{O}$
ESO $\mathrm{BL}=\mathrm{CAFS} \mathrm{FLG}-\mathrm{DLE} \% \mathrm{ED} * \mathrm{QD} \mathrm{C} \mathrm{F}$ LT＋ILT？ 114.591553
EG IIS $=\mathrm{SR}(\mathrm{HE} \mathrm{C}+\mathrm{EL} \mathrm{C})$

Ee0 IF FLT $=$ ILL THEN ESU ELSE 2 O
0
2go IF FLE＝ILG THEN S0U ELSE 31
$301 T C=F L F H H+2 T 1$
$310 \mathrm{TE}=70-\mathrm{PLFH}$
3 Sa ज口TD 260
390 IF FLG：ILG THEN 340 ELSE 35
$340 \mathrm{TE}=\mathrm{FLFHH}+1 \mathrm{BU}$
345 EOTD 360
350 TO $=180+\mathrm{FLFH}$
BE FNG＝AES TC－RTM
TE IF FNG 1 EO THEN OES ELSE SEE
$36 \mathrm{IF}=18 \mathrm{D}-\mathrm{FN} \mathrm{I}$
364 GロTロ 380
36 IF AHG 180 ThEH BEE ELSE BE
3EE IF $=\mathrm{FA} / \mathrm{G}$
उET GOTD 3 E0
369 IF HNG＝1E0 THEN 372
369 IF HNG＝0 THEN 374
FE BS＝TA＋44
379 150T7 375
374 БS $=$ TH－6
OTE WCA $=0$
37E IF $=0$
37F GロT］393

 ． 29
$391 \mathrm{C}=18 \mathrm{D}-\mathrm{WH}-\mathrm{IF}$
 57． 596
420 IF UDCT：THEN 430 ELSE 440
480 IDTD E00

40 IF UTCTC＋BO THEN 450 ELSE 4 E0
450 GOTD EEO
$4 E 0$ IF MIT TE +1 EO THEN 470 ELSE 4 80

470 BOTD EGU
480 IF WIOTI THEN 490 ELSE SOU 491 5ロTD E40
500 IF WD＝TE +180 THEN 510 ELSE 5 20
310 ETTD E41
EQ0 IF HTCTL THEN 5SO ELSE 540
5 E 0 GTO EEO
540 IF HIT TH－1EO THEN 550 ELSE 5 60
550 GDTD 600
50 IF UDTO－EO THEN STO
570 GOTD ERO
100 CALL CLEAR
110 CALL SCREEN（13）
120 CALL COLOR（9，5，5）
130 FOF $A=1$ TO 5
140 CALL $\operatorname{HCHAR}(A, 1,96,32)$
150 NEXT A
160 CALL COLOR $(9,16,16)$
170 FOR $B=7$ TO 12
1 日0 CAL HCHAR（B，1，96，32）
190 NEXT E
200 CALL COLOR（9， 9,9 ）
210 FOR $\mathrm{C}=14$ TO 19
220 CALL $\operatorname{HCHAR}(C, 1,76,32)$ 230 NEXT C
235 GOTO 120
240 GOTO 240
$600 \mathrm{TH}=\mathrm{TC}-\mathrm{HO}$
$605 \mathrm{HH}=-\mathrm{mLA}$
610 EपTロ E50
EE日 TH＝TC＋WH
ESE $\mathrm{HCH}=+\mathrm{WCA}$
Egi Iota e50
$641 \mathrm{TH}=\mathrm{TC}$


65 $\mathrm{AH}=\mathrm{TH}+14$
E日 EFT＝ $\mathrm{HTS} \mathrm{O}+\mathrm{a}$
ETG EF＝FI：$E F T$
EOU FR＝FII－EF
690 FRIHT＂FFDA＂；Fs

F1I PFINT＂TFUE CDUESE＂：TE
TEO FFINT＂WINDE＂ $\mathrm{BLD}:$＂IEGFEES
HT＂EW？＂KNDTS
FO FFIRT＂HINI EORFETTIDN HUGLE $=": \mathrm{LLH}$
740 FFINT＂TFUE HEAIIMT＝＂：TH 750 FFINT＂MFIVETIE UHEIATIDN＝＂； 14
TEO FEINT＂MAGNETI：HEADING＝＂：HH FES FFINT
TVU FRINT＂＊s\％NQTE：IEGIATIDN MU ST EE FIDED DE SUETRHETEI TD DET

FO FRINT：
$T T 5$ FRINT＂THE EDH＂HNII FEES EATEF WHEA YDU AFE FEHIDH TD CD H－TINUE．
$T E$ EFEFE
 NDTS：
FGU FFIMT＂IISTANCE＝＂SDIS＂NHUT IGHL MILE
EUU PRIMT＂EST．FLTEHT TIHE＝＂：EF T：＂HOURS
EIO PRINT＂ET．FUEL BUFTEI＝＂：EF ＂＂GAL＂
QU0 FEIMT＂EST，FHEL FESEPUE＝＂：F F：＂GHL
Q2S FFIHT ：：
 DTHE HLTMTUE © DE M＂：HE E40 TF HE＝＂：＂THE IGU ELSE GE0 E4S FFTHT
ESO INPUT＂HO YOU URTA TD TEY GN QTHEE DESTIMTHAG O DE M ：BE
 BTG PRMT＂HAE G BAFE FLIGHTE： ！！
910 EN
You may have noticed in last months SYDNEY NEWSDIGEST，A program entitled．．．
HALLELUJA CHORUS，which seemed to come to an abrupt end once you run it．Well，the answer is we only printed half the program， so here＇s the other half．
You may notice that it sounds even better once you add it to the rest of last months listing．

1 E90 CALL SDINTGTE， $5, E H, 5, \mathrm{HH}$, 5

1 BOU LALL SDUNITE，T，S，FH：S，FHH， 5 1310 CHLL OUNTGE， $5, E H, 5, \mathrm{FH}$, 5
1 OEO GHLL BLAMTTE， 40001,5$)$
 ，5）
 ， 5
 F？
 5
1970 HAL SDUMTS：E，5，HH，5．月HH， 5
1ge日 CALL SOUNTTE，E，S，IH，5，GHB， 5
1390 EALL SDHICT4，$, 5, \mathrm{CH}, 5, \mathrm{AHH}$, 5
1400 GFLL DDIMI ©TE：H． $5, \mathrm{CH}, 5, \mathrm{HHH}$ 5
1410 CALL CDLDF：1，11．16
14 E 0 THLL DUNI TB： $400 \mathrm{D}, 5$
149 CFLL SUDITTE， $\mathrm{C}, 5, \mathrm{EH}, \mathrm{E}, \mathrm{AHH}$ ：5
1440 EHLL SDUNET1E， $\mathrm{C}, \mathrm{E}, \mathrm{EH}, \mathrm{FH} H$ 5
 F）
 5
 5
1480 EALL SDUHETE，E， $5, \mathrm{DH}, 5$, GHO 5
1490 CHLL DUAUIT4，F，5：CH：5，FHH：
5
1501 EHLL DUNACTB， $5, \mathrm{CH}, 5, \mathrm{FHH}$, 5
1510 CRLL SDUNTE， 400019
$15 \mathrm{G} 0 \quad \mathrm{~F}$
1590 RHL CDLDE：G， 9
1540 EOTO 590
 5
1560 पRL ODDPU：E，
ETU GAL SDPLCT，FL， $5, \mathrm{CH}, \mathrm{S}, \mathrm{EH}$ ， 5
15G0 GAL MDLE $1,4,16$
159 OHLL SDOTSTSALL， $5, \mathrm{CH}, 5, \mathrm{EH}$ ， 5
1600 CFLL CDLDR $1: 5 \cdot 16$
$1 E 19$ GALL SDUNI TG，HL， 5, IH $5, \mathrm{EH}$ ， 5
16E0 MPL COLDEA： $1: 16$
15 EO CHLL SDURIGT，IL：S，F，5，IH， 5
1G40 CRLL SHHTME：IL，E，F，5，IH：5
1550 CHLL EDIDEC1：4：4
1 EGO IHPUT＂UDILI YDU LIKE TD HE HE IT FGHIM GES ND＂：ZI
1GTO IF ZT＝＂MES＂THEN 100
16en EHD
4
［TI BASIC］

10）FEN FUSEELL HAHSDA RDCHESTEE
101：55901
EO GHLL CLEHF
30 FROH＝E
40 COLPA $=6$
$50 \mathrm{BEFS}=54$
$60 \mathrm{FESE}=57$
70 LENGTH＝G
GO FEM FESISTDE GRUIIT

D＂
 010＂）
110 DAL EHAF 196 ＂DU0UOOFF 00000 D00＂）

8us＇
130 GFL CHAF 1 DQ，＂FFFFFFFFFFFFF FFF＂）
140 GUSUE EG
150 GUSUE 510
160 GOLHA＝CDLHA－9
170 GDSUE 90
180 CDLMA＝8
190 FDUF＝15
200 50SUE 400
E10 FRINT＂FESISTOR EMUCTIOM $P$ HFT $1:$
EOU PRTNT＂BW EUSS HRGUN：RGCAE
TEF Hin＂
E30 FDE NELFH＝1 TD B00
240 HEST DELPY
ES0 GD TD 56
EGU EEU HDRIZDUTAL EESISTAR SUE
E70 GALL HCHBE ROUR，COLHR， 108
已）
E90 GAL HCHAR GDWH，ODLHA $3,104 \%$

2）
310 ChL HCHAF GOUR，COLHA $+9,10 \mathrm{O}$ GEO GHLL HOHAR EDWA－ $1 . \mathrm{COLHA}+4 \mathrm{GE}$

330 GAL HEHAF FOWH－1，OOLHA＋5．E 1
340 CALL HCHAF EOWH－1，CDLMA＋E，FS EES
S50 RETUR
SEO REU VERTICA RESISTOR SUE
BTO GAL WHFP G［UA，CDLVH， 10 O
SGU GHLL UCHAF EFDWA +1 CDLAH： 107 ，
0

40 CRL WCHFF GOWA 7, COLMF， 107 ：
e）
40 CHL WOHEEGDUH＋G，CDLMH： 10 B
$4 B 0$ CAL VCHAE EDUH 5, CDLMA $+1,8 E$

 2
450 EETUFA
4EO FEM HOEIZMTAL LINE SEGMENT LENGTH VAFIHELE
470 GLL HCHAR GDUA，CDLAA， $108 \%$
4BO GALL HCHAP EDWA，CDLHA +1 ， 1 OE， LENGTH
4GO CFLL HCHBF EDWH，COLPA＋LENGTH $+1,1 \mathrm{~B}$
500 RETURN
511 FEM VEFTICAL LINE LENGTH YAR IASLE

530 GHL VCHAE CDUH 1 ，CDLMA， 1 OT： LENGTH）
540 CALL YOHAE EDOH $+L E N G T H+1$ ，COL MF． 10 O

5CO RETURO
5EO CALL CLERE
50 FFINT＂EESISTDF EDLGE I：
DIES＂：：：
SGO FRINT＂THE FESISTANSE UHLIE DF FESISTDFS IAR EE FEAI FROM TH EIF COLDE EHNJS＂；：
590 FEINT＂THE FIFST TWI EHNII S AEE MIGIT RUII THE THIFII IS
THE MULTIFLIEF：＂：
GOU FRINT＂TD GRLCUATE THE FESI STHVE CHBNGE THE FIFET TWD ODLD FED EANIS TO THEIF HHAEE YHLUE＂ EIO FRINT＂THEN AID THE HUMEER $\square$ $F$ ZERDES THAT THE THIEI ERN I）QHLLS FOE＂：：
EQO INFUT＂FRESS ENTEF TQ CDNTND E：HF
EGO CHLL CEFF
E4D FFINT＂THE GLLDRS HBUE PIHEE FS：＂：
GEO FFINE＂ELACK＝ 0
EEO FRIAT＂ERDWA＝ 1 ＂
GT FRIUT＂REI＝
680 FRINT＂ロFRAGE＝3＂
GO FFIET＂VELLDW $=4$＂
7 OLFFINT ＂GFEEH＝5＂
710 FFIINT＂ELUE $=6 "$
TEO FRTNT＂YIOLET＝？＂
TO FRINT＂GFH＂i＂＝O＂
P40 FRIMT＂MHITE＝\％＂：
TEO FRINT＂EWHAFLE：FED RLUE DRH
WIE IS E（FED GELUE OUUCPRHGE
IS 3 ZERDES MAKTHE 26000 DHMS＂
：：
TG0 FRIAT＂DI THE FDLLDUTHE FROE
LEMS ENTER THE FESISTIF UPLUE＂
FTif FFIVT＂IF YCU GIVE UF EMTEF
IHO 111 WILL BIUE THE GISUEF FRII $99 G$ WILL END THE FFOGFAT
TGO INFUT＂FRES．ENTER TU EEGTA ＂：HI
FGI REM FESISTDE CDLDES
EOM CHLL CFEEAE
E1D CHLL GLEAR
EOO FANIDHIZE
ESU FDF $\times 1$ TO
$849 \mathrm{~N}=\mathrm{INT}$ CNI $\mathrm{CN}+1$
850 WHLUE O $=\mathrm{H}-\mathrm{B}$
BEO FDR $\mathrm{I}=1 \mathrm{TO}$
g70 REAL RIUCK
BGO IATA $2,13,7,11,12+4+34,15$ 16

TELLDH，GREEH，BLUE YIDLET，GFAY，WH ITE
G00 NEMT I
910 EETDRE 90
GEO FDR $\mathrm{I}=1 \mathrm{TE} \mathrm{H}$
9 GD EAL CDLFESO
940 NE NT I
950 RESTUFE BEO
GE NE：T K
G7 FESISTME $=$ UALUE $\because \because$ U＋MPLUE

GEOFEINT＂CDLDR＂CDLFSE 1 ）＂
＂GULFGG？＂＂GLLFSO
990 FRINT＂GHAT IS THE EESTSTHMC E＂
1000 हUW＝G
$1010 \mathrm{BL} \mathrm{O}=4$

1 पS0 EAL HHAG＂FFFFFFFFFFFFF FFF＇${ }^{-1}$
1040 GHLL EHAE 136 ＂FFFFFFFFFFFF FFFF＂
1050 GHL CHFF 144 ＂FFFFFFFFFFFF FFFF＂
10E0 GFL HHAE $15 E$ ：＂FFFFFFFFFFFF FFFF
1 UF FEM WIRE
 1090 CHLL HHAR RDU＋E，CDLH＋EDSE ， 5
1100 FEA RESIGTLE EDII
1110 CFLL CDLDE（9354
1120 EAL HOHAE ROU，COLDTE9T： 5
1130 GFLL HOHRE EDU $+1, \mathrm{CDL}+5,97$ i5）
 15
 15
 150
1．？FHM EHNE GF CDLDE
 1）

 2．
1210 GAL UHAREROU，CDLITE，144：E
 ）
1230 GAL MOHAE ROH，COLH 10,136 5
124 IHPT PEST
1250 IF FEST＝11 THER 1340
12E0 TF REST＝9GG THEN 1 SEO
IETO IF FEISTUEAEST THEM 1 S00
12G日 PETH＂TRY HBAIN
1291 EDTD 1241
1 BOU PETHT＂CDERET：
1310 FDE DELAY＝1 TD 600
1320 REXT DELR
1801 日ロ T0 790
1940 FRIMT＂THE RESISTALOE WHS
FRESISTLE
1350 GDTD 1310
GEO PRTNT ：
1GTO PRIMT＂PROTTOE HARES PEREE GT
1560 EL

Toin our family of TI USERS With over 50，000 MEMEERS
worldwide－within．．．


Gverseas Membership．．．＂\＄8．00
（ FPlease send me more information about．I．U．E © 3 wanna join I．U．G．．． Please find enclosed my my membership fee．

## NAME：

ADDFESS
Fost Code（zif）
I am a member of TIns．H．U．G．








 1+


Our friendly staff are ready to
 needs, muts-- dart far get we still

 stow your card at bur centres.


## things go Better with

## joke!

by Richard De La Cruz

"Sure you can become a systems analyst if you want to But tell Daddy, what is a systems analyst?"

"This problem was my life's work. I planned to devote my remaining years to it. It's just been solved in four seconds."

The following program was written by Richard De La Cruz, one of our own Group members who lives at the Top End of Australia. Obviously, there are no other entertainments to distract him from programming as Richard is churning out some fine material. The program is written in Extended Basic and for the 4A as the print statements were written using the Alpha Lock up. However, our antique typewriter will not type in this mode, so Richard I do hope you will forgive me for changing it.

100 CALL CLEAR :: CALL SCREEN (12) 110 ON WARNING NEXT
120 PRINT "****** FUNTUNES ******"
130 PRINT : : : :
140 PRINT "BY RICHARD DE LA CRUZ"
150 PRINT :: :
160 PRINT :: :: JABIRU NeT. " 170 PRINT :: : 180 PRINT : : : :
190 PRINT "ENTER NOTES AS NUMBERS (0 TO 40) WHICH CORRESPONDS TO (L OW C TO A VERY HIGH NOTE) INCLUDE S SHARPS \& FLATS"
200 PRINT : : : :
210 PRINT :: :
220 PRINT "USE SPACE BAR TO SEAR ATE NOTES. MAX OF TWO CHARACTERS PER NOTE. (IE $112223 \begin{array}{lllll}14 & 24 & 7 & 7 & 9\end{array}$ 5015 ETC), UP TO 5 LINES OF INS UT"
230 PRINT : : : :
240 PRINT "BE SURE OF NO MORE TH
N TWO CHARS! PER NOTE."
250 PRINT : : : :
260 PRINT "PLEASE WAIT A MOMENT "
270 OPTION BASE 0
280 DIM Z(50)
290 FOR $N=0$ TO 50
$300 \mathrm{R}=2 \wedge(1 / 12)$
$310 \mathrm{Z}(\mathrm{N})=131$ *RAN
320 '... N

330 DISPLAY AT $(23,1)$ : "ANY KEY TO BEGIN"
340 CALL KEY $(0, K, S):$ : IF $S=0$ THEN 340 350 CALL CLEAR : : CALL SCREEN (4)
360 INPUT "NOTES":T\$
370 PRINT : :
380 PRINT : :
390 INPUT "SPEED (50 TO 150)" :D
400 PRINT : : : :
410 FOR Y=1 TO LEN (T\$)
420 CALL $\operatorname{SOUND}(D, Z(V A L(S E G \$(T \$, Y, 2)))$,
$3, Z(\operatorname{VAL}(\operatorname{SEG} \$(T \$, Y, 2)))+3,5,-3,8)$
430 NEXT Y
440 PRINT : :
450 PRINT " REPEAT SAME TUNE ?? (A)"
460 PRINT : : : :
480 PRINT : : :
490 PRINT "END PROGRAM
500 PRINT : : : :
510 PRINT :: :: :: : : :
520 ACCEPT VALIDATE ("ABC"):R\$
530 IF $\mathrm{R} \$\langle>$ "A" THEN 540 ELSE 390
540 IF $\mathrm{R} \$<>$ " B " THEN 550 ELSE 360
550 CALL SCREEN (2) : : FOR $T=1$ TO 200
: : NEXT T
560 END

## 90 TIPS <br> FFOMT DAVID LIEIU

BASIE, like all computer languages has a set of rules and definitions. Thi main component are

COMHANDS 11 ke RUN, LIST
PROGRAM STATEMENTS 11 kE GOTD, READ
DATA GTATEMENTS like As, POCKET_MONEY
This month we wili loak at Date gtatements.
There are twa types of computer catal one is Called STFTNG and the whther is called NUMEFIC. Anyting can be included in STRING data but NUMERIE data can include only the numbers from o to 9 in various combinations. STRING data is mainly used for alphabetic informationn and this includes the letters of the alphabet plus all the special Eymbols such as $+-=$ etse, STRING data is mainly used for printing feport heading, instructions to users, etc. Numeric data is used for calculations.

Try the fallowing STRINgG. . .
100 PRINT"THIS IS A STRINC CONGTANT"
RUN
110 A ${ }^{2}$ "THIS IS A STRING VARIABLE"
120 PRINT AB
RUN
BASIC allows tooth constants and variabless. $A$ constant is something you will probataly only use once in your program. If you need to use the string mome tham once, use a variable. STRTNG variales ame identified by a sign, which must be the last character in the name. The maximum length is 15 characters, including the $\$$. There are other rules also, and these are explained in the USERS REFERENCE GUIDE page II-1I. NUMERIC variables may be almost any combination of letters and numbers up to a maximum of 15 characters: except. that the last character may NOT be a 9 . Some examples of NUMERIC variables are...

## 110 GIFTS $=0$

## 120 DAY日 = 1

130 COUNT $=10$
GEE HUW meaningful names are used for variables. This is a good programming practice to develop. It will help you debug your program later if you can read it like a letter.
The next thing you will pmobably want to do is ta use constants and variables in your progrem to work out a sum. Maybe, how much pocket morrey you will earn by Christmas holidays. To do this, that is to perform arithmetics: you will need to Write ExfRESSIONS. An expression is the name given to a computer sum. It: will consist of the constants and variables which we have just learrit joined together with things called OPERATORS. Arithmetic operators have special signs, similar to those used in Algebra.
They are + (addition), -- (subtraction), * (multiplication), ( (exponentiation). Les.s look at some expressions...
$100 A=6$
$1108=4$
$120 \mathrm{C}=20$

## $1305=2$ <br> 140 PRINT A*B/2

Enter this progrem and RUN it. you should get "12" as the output. So yeu see now how ta perform arithmetic on your computer. Two points to watch. Firstly, variables may be positive or negative, if we wanted to make A negative, we would follow the same rule as Algebra and writesul
$100 A=-6$
The second ruje also follows Algebra, that is te order of the variables in an expression is important to the computer. The rules are nicely defined in the URG page II-13. Please look them up and look at the examples on this page. It is inportant to understand these rules for later.

Now jets get back to that POCKET MONEY problem. Let TOTAL be the answer. Let WEEKLY be our weekly allowance and let the number of weeks ta Christmes be 15. $\operatorname{si}$ our simple program will reads.

110 TOTAL w WEEKLY * 15

## 120 PRINT WEEKLY

WHAT mकnwer did you get? if" in sure that everyone got 120. Wow! Christmas will be great this year. ONE. LAST POINT before we leave this subject. You may express numbers using seientific or" "E" form. This can be very useful. when working with mery sinall or very large numbers. A number in "E" notation consists of the number followed iby "E" followed by the power of ten. Some tsimple examples..

## [1000 $100^{2} 1=1 E 3$

$145\left(1.45^{2}\right)=1.45 E 2$
Unlass you are inta Maths, don't warry too much about thif. I have included it mainly for those who have done some Algebra and may want to try it out.

## GOOD FROGRAMMING

## bayid eiell

## Hiscosing

## ADVERTIEING RATES in this GYDNEY NEWSDIGEST.

The following rates are for advertisers who provide ART-WORK.

FULLFAGE: $\$ 50$
5/4 FAGE: \$45
1/2 PAGE: क\%
1/4 PAEE: $\$ 20$
For those advertisers who committ themselves ta 10 consecutive issues, we will give you the 11 th advert FREE OF CHAFGE

Each month, we print over 500 copies of this publicaiong which is sent to all of our MEMBERS, pIUS INTRA INTERSTATE READERE.

## MEMBERAS WISHIMG TU GWAP, SELL or BUY;

\$1.00 per item or $1 \%$ of the sale price, which ever is the more.

FLEASE SUBMIT YOUR ADVERTISING no later than the SECDND THURSDAY of each month. Copy should be posted to SYDNEY NEWSDIGEST, C/- P.O.BON 595 MARRICKVILLE, N.E.W. AUSTRALIA 2204.

## CHARLIE'S PAGE



## Editorial Comment

by Charles LaFara
President, International 99/4
Users-Group

## LOSSES CONTINUE TO MOUNT FOR HOME COMPUTER MANUFACTURERS

Second quarter losses among home computer manufacturers surpassed the $1 / 2$ billion dollar mark last week with no relief in sight as the aggressive price wars continued. Adding to the already-high anxiety level in this industry, aroused by losses of $\$ 183$ million at TI, $\$ 310$ million at Atari, and $\$ 24$ million at Mattel, is the impending introduction by IBM and Apple of home computer products priced in the under$\$ 1000$ category.

Of the six major suppliers in the home computer business, observers say only Commodore has yet to be touched by plunging profits. Although Tandy, (Radio Shack) reports growth in its computer business overall, sources say its home computer line, the Color Computer, is showing sales volumes less than expected. Timex, a privately-held company, has according to industry observers seen sales of its TS-1000 home computer come to a virtual halt.

The next act in the comedy of errors by home computer manufacturers is anticipated to take place in September when TI should begin a massive inventory clearance to ready the introduction of its $99 / 8$ home computer, sources say. Industry analysts concede that the wars between TI and its competitors are far from being over.

When asked by Consumer Electronics about the industry outlook for the next two months, William Turner, recently departed TI Consumer Group president, lamented, "Profits in 1983 will be tough. The cost simply has not come down as fast as the prices came down." What an ironic statement Irom Mr. Turner, who pioneered the $\$ 100$ rebate a year ago, which started the price war chain reaction. Mr. Turner went on to concede that the key to success of his chief rival, Commodore, has been their ability to keep a better price/cost spread in the balance of the industry

Major retail companies who have spoken to us over the past several weeks are still analyzing and reviewing products for the Christmas season. Large retailers such as Sears, Child's World, Toys 'R' Us, and Montgomery Ward are looking for home computer products that will not only influence store traffic, but also corporate bottom line profits.

Like Texas Instruments, Atari and Commodore are still holding sizable amounts of inventory that they must phase out in order to make way for inventory of second-generation machines. Commodore is faced with inventory liquidation of over 250,000 VIC-20s which set on distributor shelves and show little sign of movement. Mattel, meanwhile, is still mulling over the possibility of phasing out their Aquarius I computer keyboard, which it fears may be doomed when the enhanced version, the Aquarius II, is introduced.

The major concern among home computer manulacturers right now is the future of the Coleco ADAM home computer system. Coleco is hoping to start shipments later in August for the home computer/game/word processing system that it says will retail for approximately $\$ 600$. Many industry analysts, however, feel that Coleco will not be able to bring ADAM to the marketplace prior to the first quarter of 1984, although Coleco's president, Arnold Greenberg, claims that some $1 / 2$ million units which -are still unbuilt have been ordered by retailers.

Shifts in corporate management to top-level executives with consumer marketing expertise such as the recent moves made at Mattel, Apple and Atari would indicate that the home computer business is far from dead. Although $1 / 2$ billion dollars in losses during the second quarter of 1983 is awfully hard to swallow for many investors, a $21 / 2$ year old industry which increased its sales 500 -fold during the last year must be doing something right in some areas.

## GROUP PRESIDENT RESIGNS AT TI

Sources within Texas Instruments confirmed a report that William J. Turner, head of the Consumer Products division, has left the company to take a new post with Automated Data Processing, Clifton, NJ Reports of Turner's eminent departure from TI had been circulating since just before the June Consumer Electronics Show and were specifically denied by Turner and other TI executives to within a day of his resignation.

Although no successor to Turner has been named, Jerry R. Junkins, executive vice-president of TI Corporate, has been filling in during Turner's absence. Junkins is also in charge of the Data Systems group which developed and markets the TI Protessional Computer

TI President, J. Fred Bucy, has established an office at the Lubbock facility of the Consumer Group and will devote some portion of his time to the direct supervision of the home computer. Although total details of this latest restructuring have yet to be announced, a Tl employee told a Users Group reporter that unless sales and profit pictures improve, heads will continue to roll.

Turner joined TI in 1980, leaving Digital Equipment Corporation. Prior to that, he was with Sylvania where he was a systems engineer for military simulation equipment. He holds a degree in both Engineering and Marketing. While at TI, Turner was responsible lor lowering the retail price of the 99/4A. home computer from $\$ 799$ to ats curren under $\$ 100$ price level.

Turner also championed software strategy which threatened third-party publishers with legal action if they introduced products for the 99/4A in solid-state modules. According to Turner, such publishers would have to violate one or more of TI's patented technologies in order to create $99 / 4 \mathrm{~A}$ compatible and discouraging software support still contir inability of TI to bring to market a low-cost lit TI EMPLOYEES SHOWBIZ AGENCY

What do actors and actresses like Mary $T$ common with Texas Instruments? They're all Hollywood public relations firm of Rogers an

Tl recently retained the agency to handle a series of results will be the TI Home Compu first television appearance will take place on and Cowan's Corporate Division President D

The Product Placement Division, located other Texas Instruments products in films. Ta of the areas in which their company plans his formerly took care of all of its public relations president, Fred Bucy's idea to solicit help fror handles such accounts as Ford, R. J. Reynold: Workout Tapes).

Mr. Taylor said, "We have 27 corporate a years ago and now our Corporate Division $m$

Rogers and Cowan is a 40 -year old publi industry. Sources indicate that it is the fifth-li also has offices in New York, Washington ang

TI will continue to use in-house press rela directly by TI's president, Mr. Bucy. The new television and movie contracts.

One TI official said, "Hopelully Rogers an positioning our products in as many places a way they should be."
LOTUS 1-2.3 NOW AVAILABLE FOR TI PA
Lotus 1-2-3 will be made available to mo dealers as the result of an aqreement reached

TI will distribute Lotus $1-2 \cdot 3$ for its comp point-of sale video tape and merchandising it dealers will receive training from qualified TI Marketed for the past six months for other ma SOFTWARE CATALOG UPDATE DELAYEI

The expected release of a Soltware Excha been delayed lor approximately 60 days. The space on our mainirame computer, the TI Bus up 43 megabytes of disk space in only six me

Although an additional 43 megabyle driv distributor, we are not expecting to take deliv send out the updated catalog pages as soon

## 2OTH CENTURY FOX DUBIOUS REGARD

Although Texas Instruments continues to $M^{*} A^{*} S^{*} H$, sometime later this month, 20th Ce and plans concerning this game for other ma ColecoVision machines.

Although the game has been on the mar: budget, it has had great difliculty in penetrat slashed a month ago, and a new promotion o volumes continued to be disappointing to bo

A TI employee recently told the Users-Gr selling well, but their planned release is still Consumer Electronics Show in June, our opi better came along.
T~NGDr FFATMTEFR FL A few months ago, we printed a $A$ in conjuncticin with the TANDY Ce This program came to uss wittit the They have now provided us with t connection. All you need is your


SOCFET IDN "RANDTD SHACK"

## 

 Several industry sourcos asos blame Tuner tor the peripeatal pooducts promiese in limaty.Moore Syvesese Stallone and Rober Redolod have in
 wan
ic e elations sor is is Home Computer division The itrs in in appearance in movese and on leevision The $99 / 4 \mathrm{~A}^{\mathrm{s}}$
 aylor, "TI will be in every episode."
urbank, CA, will also work on getting the $99 / 4 A$ and went on to explain that television and films are only two sibility exposure for TI products. Texas Instruments ouse, and a company spokesman said it was TI's big entertainment agency, whose Corporate Division cai, Home Box Office and Karl Video (Jane Fonda
Its We started developina a corporate am about tout up $35 \%$ of our total business.
ations company basically catering to the entertainment t public relations firm in the country. Rogers and Cowan idon.
s and PR people. However, they will be scrutinized cy will focus primarily on consumer press and allied
wn will bing us into the 2olt century. Thee will be sible We have eneer really pusted dur rooducts the

## :ssional

an 300 Texas Instruments Professional Computer ween Lotus and Texas Instruments. to dealers in an introductory offer which will include as well as a national advertising campaign. The TI onnel that have been trained at Lotus headquarters. es, Lotus $1 \cdot 2 \cdot 3$ has a suggested retail price of $\$ 495$.

Library Catalog update scheduled for September 1 has son for the delay is because we have run out of disk s Systems 672. "It is hard to believe that we have filled ", said Mike Ray, IUG DP manager
s been ordered from Texas Instruments through a local or several weeks. We apologize for the delay, and will possibly can

## $\mathrm{M}^{*} \mathrm{~A}^{*} \mathrm{~S}^{*} \mathrm{H}$ SUCCESS

e high hopes for its release of the video game cartridge, $y$ Fox says that it is seriously re-evaluating its position es including VCS cartridges for the Atari 2600 and
nce April and had a multi-million dollar advertising he marketplace. Even when prices on $M^{*} A^{*} S^{*} H$ were ig a T-shirt to intended buyers was offered, sales th Century Fox and retailers throughout the country hat they are aware that the $M^{*} A^{*} S^{*} H$ package is not chedule. From demonstrations which we saw at the was it was a module we could pass on until something

## ГTEFR

ram to be used
:itip
 mpliments of TI.U.F.(TI Ussern of Fertol) Scematio to make that ald jomortant - and Rscure plum of courme thils printer

PINS ON T.I. RS232 INTERFACE $\because \sim$ DATA TERMINAL REAY
a - Ground
data set ready

## SERIGL DATA OUT

ODEN\#1:"RS232.BA $=60 \varnothing$ "

100 OHLL CLEFR
110 CRLL CHAREBS, "OOMOODO10BOROF 1F"
120 CHLL CHARS 34 "OFGFAFFFFFFFFF FF')
130 GAL GHAR 35 ,"FGFGEFFFFFFFF FF", 36 , "0000000 800 cofo "
140 GAL CHAFBT: OOOLOGORTOTGF 1F"
150 GALL CHARGS, "TOFGFEFFFFFFFF 7F" 39 , "OD1COFFFFFPFFFFF" 1 GO GRLL CHARC 40, "EFFFFFFFFFFFFF FF": 11 :"OOEOFOFGFFFFFFF")
170 GAL CHAR 42, "OUOOOOOBOCOFD FC" 48 , "OC1EPFFFTBFSFF")
160 GHL CHAP 44 , "mounOCOE 1 FgF FF", 45: "OOOOU46FFFFFFFF", 190 CALL CHAR 46 , "OOOOOOCOFFFFFF FF" : 47, "FEOFSFFGESFDFGF"


210 CHL CHFRGO, "SFEETGE11071F BF", S1, "TFBFTFFFFFFFFFFF"
20 OHLL CHARCSZ, "FFFFFFFFFFFFFFF TE", 5S, "FGFGFEFOEOUOQOO")
230 CRLL CHARES,"OF1FGFFFFFPF 1 EO", 5s, "FFFFFFFFFFFFFFFO"
240 GALL CHAESES, "GFPFPOD17CRFF FF')
 EO"?
260 GALL CHAF GS, "7F7COO10030F1F BF", SQ,"BFTFPFFFFFFFCOP"



D1", ES, "EOEDEDEDEDODOCO"
290 CBLL GHFCE " 1 Comotorafof $1 F$ 3F", 55 " 010000 QE FFFFFF"?
SOO CAL CHAR CES, "FFGFBFFFFFFFF FF", ET: NFFFFFFFFPFPEREF:"
310 CAL CHFFGE "CODOQOQOOOOU 010", 69 "FFFFFFFFFFTFPFEF"

E0" , 11 , "Cogoonotonouonot"
3S CALL OHAR 72 , "GFPFFFFFBFIF DF", 73 , "FFFEFCFEFUEUOUC""
340 CHLL CHART4, "FFFFFPFTEGTO


350 CALL CHARTE, "EbEOOODODOOO 09" 77 , "0for0poguloin000"
360 CHL CHRTG, "FDPCRFCFEFFTF SF" 79 : "FGED40000000000")
3O CAL CHAR GO, "OFOEODODODODO OU": 31, "FFPFSF1FOFOFIFIF"
OGO GAL GHFR GO. MFFFFFFFFEFEFE FC", GS, "Encones lougoton")





410 CHLL CHARCES,"1F1F1F1F1F1FOF Q7":89, "FGRFBFOFQEOEDO"; 420 CAL OHARC90, "OQOT1FPFFFFF7F

4 GO CAL CHAR 92 , "7FPFFBFSFSF1F
1F", 9 , "070G010000000000") 440 GHL CHARC94, "COBDODODODOQ
 450 GHLL CHAF 113 , "FFFFFEOE 1801 810". 122 , "800002061630600") 4EO GALL CHAFC12S, "1F1F1F1FSFSFT F7F": 124: "FFF1FCFEFB1000GO";
 [10"
460 CHLL CHARC 126 , "OOODODOODO
OU0", 120 . "FFFFFFFFFFFFFFFFF"
490 GHLL CLEFR :: FDF C=0 TD 12 : OALL CDLORCC. 4,1 )
500 CAL SOREENQ: 510 IISFLF FTC 1,1$): 4 \cdots \cdots$
 \$44, "\#F.
 ,+- 0.
540 ITSPLAY RT (4: 1 ) $1 \times 123 \times \infty 45$ $67 \times 89 \times$
550 DISFLAY HTC5, 1 ) $1 \mathrm{Na}: \times \infty \times$
 EFF:
脚:
EGO DISFLAY ATGB, D: "FQF: ETM.




600 REM PLACE GREENDUMF ROUTINE HERE.
62 EEH
6G REI


Grisis Sine 992229

## Drop into the

## dealer in the North

 TEx
＊WGF゙D FFFDCESSING
＊DATA EASE
$* レ \square \square \square$
＊DISド 5 YSTEM
＊EXFANSICM
＊
＊
＊EDLUC，TIGMAGI


＊JロソsTエCドS
＊MINI MEMDFY
＊TEFATITMAL EMMIULATCF
＊FLLUS MロFE



＊





# COMPUTER DYNASTY 

FLGFENCE AFCADE：$\triangle$ FLGFENEE ST，HOFNGEY



| Mini Memorg | Bencbmark |
| :---: | :---: |
| tests for you | to tepe in from 1.t.G. |
| (1) |  |
|  |  |
| ( | (tay |
| (enter | (tan |
| (ex |  |
| 0010 0011 ********************** |  |
|  | ${ }_{0}^{0012}$ * EXECUTES IN 5 SEC ${ }^{\text {a }}$ |
|  | ${ }^{\text {coll }}$ |
|  |  |
|  | (e) |
|  |  |
| ${ }_{0}^{0021}$ |  |
|  |  |
|  | (1) Roze |
| ${ }_{0}^{0027}$ * inittalize countrer constants |  |
| O0288 NN LT 4, 3 2400 "10" | ${ }^{\text {coser }}$ |
|  |  |
|  | (en |
| Oo33 * initralize cannter |  |
|  |  |
| ${ }_{0}^{\text {OO36 }}$ O37 * Print connter |  |
|  |  |
|  |  |
|  |  |
| ${ }^{0} 0043$. Jup IN |  |
|  | OOP4 OO45 JMP AD |
|  | OO46 * Scroll buffer 0106 END |
|  |  |
|  |  |
| Oo51 BLIWP' evMB |  |
|  |  |
|  |  |
| ${ }^{00557}$ 0056 Exable interupts |  |
| - |  |
| cose |  |
| (eater | 0061 H0VE $\times 1+$ e88c00 0015 |
| (en | OHR NEXT B1G MEETING... |
|  |  |
| (ex | SATHRAMY tbe stb october |
|  |  |
| (ex | ges..tbe second saturdag |
|  | see Editorial on page |
|  | Eattorial on prge |
|  | Lor all the details |


on the second saturday of Noyember, its A.G.M time so bere is your special NOMINATION FORM for office benrers of... co-ordinating commíttee yitbin T1.s.14.ひ.G.

The following, are the positions available for you to either nominate yourself, or a fellow member of TI.S.H.U.G.
(1):CO-ORDINATOF; (2):SECFETARY, (3):TREASUFER, (4):EDUCATIONAL CO-OFD, (5):LIBR ARIAN: ( 6 ): EDITOR-PUBLICATIONS,
(7):PUBLIC RELATIONS OFFICER, (9): ADVERTISING MANAGER, (9):MEMEEF.

All of these positions will be briefly explained to you at the coming meeting.
And now, place the names of these who you feel would be availatile to take on the above mentioned positions...
(1):
(2):
(4):
(5):
(6):
(7):
(8):
(9):
remember, you must be a
finoncial Member to
pote, nominate or be
nominated as a commítee Member of T.1.s.H.U.G.

# TISITIG 1st Younger Set SDFTM／IRE AMI／IRDS 

Hi again，gang．This month，we have both at SOFTWARE AWARDS and a HALL．OF FAME report．

Regarding the SOFTWARE AWARDS，the response to date has been really poor，considering that great prizes to be won．As well as the prizes the competition is also an opportunity to have YOUR PROGRAM PUBLISHED ON THIS PAGE ：

On the subject of the awards，I recently visited COMFUTER CONNECTION．Their range of TI gear is growing constantly and already they have a good selection of cartridges．They also r cognise the groups so a 5\％discount applies to TISHUG members．It is readily accessible toy public transport，being only a stroll from［MIRANDA railway station．
Next：issues I will present the full revised list ot the HALL DF FAME．To see what the current Thigh ascomes are，don＂t miss this page next time！！！ F．G．The September issue of Austr－iliar Fersonal Computer has reviews of several İ gand modules．As with last month．I have loom ADDRESEES OF OVERBEAS USERE＇GROUPE for YOU HI write to，and perhaps swap programs，etce．netc．

CANADAI Edmonton Misers group．FO Box 11963，Edmonton，ALBERTA CANADA TSJJL1．

TEXAE：Central Texas $9014 \Delta$ UV，$P G$ Den FO2G，AUSTIN TEXAS 78764，

OHIDI CIN DAY USERS：GSDLE，DO BOX 519，WEST CHESTEF OHIO 45059－0519．

NEW YORK！NEW YORK $59 / 4$ LG，SA MAPLE AVE．AFIMONF NEW YORE 10504

Try writing to these toroupssand if possible，include some forograms on tape．If they respond likewise，and if you are successful you have a ready－made library of software．

STRICTLY FOR UNDER 1 B MEMBERS ONLY！ We have 2 great prizes：the first prize being a \＄50 voucher for COMFUTER CONNECTION at Miranda．

The second prize is a copy of the＂BUMEER BOOF DF LIETS AND REVIEWS＇oy Peter Lymden． CONDITIONS
a）［ontest open to all members under 18 years of аロ゙
b）The entrant must be the SOLE AUTHOF of the program although other may help in debugging．
c）ABSOLUTELY NO CDFYING OF FIFACY of any dothan program permitted！
（1）Either Basic or X－Easic may be used．Don＇t forget to state the language the program is in
e）Save the program on both side of the tape．If a program will not load from mither coop，the entry will be disregarded．
f）Operating instructions must be included，if applicable．
q）All tapes and programs become property of Younger Set．and may be used at the discretion of Younger Set．
h）Remember，use your imagination！Judges will be looking for full bes ot features burt as graphics and sound．
i）The Judges＂decisions are fins and no correspondence will be entered into．
j）Competition closes last mail，November 4，198
To enter，save your program on a tape，fill ir the coupon below，read the eamititions and post the thane ton

F．日．Bay 595
Marrickoville．2204．N．G．W．


FM TEGTTMM FEM

NAME
ADDRESS
AGE
Frog remark
Entry Forms
Frog remark：
also available
at meetings

An Interface from your PIO PORT CABLE
to your
CENTRONICS
PARALLEL PORT

| 70 cm | $\$ 26$ |
| ---: | ---: |
| 100 cm | $\$ 27$ |
| 2.5 m | $\$ 28$ |

Sue Hogbin
Domestic Computer Rodway Arcade NOWRA
（O44） 218191
Trading Hours PM only


## SYGNEY NeWSGIGEST SPECIAE

## for members with a printer

## send for your free... GOTH月C PROGRAM

A11 you need is Dist: Memory Drive, Z2k Memory card plus a Frinter, and you Eam obtain this unique GOTHIC LETTEFING program by Fichard Maineer. suppiled to us from Til.u.F. (Western Austraita)" Simply send us $\$ 6.00$ to cover the cost of either DISEETTE OR CASSETTE : FOSTAGE etc.
And we'l. send this program to you by return mail. ADDRESS YOUF CHEDUE MONEY ORDEF to TI. S.H.W. G. C/FFublications Dept. F.O. Bom 595, MARFICKVILLE, N. $3 . W$. Australia. 2204.

## If the family computer


r IT"S TIME I RENEWED MY MEMEERSHIF...
< 3 I WANNA JOIN TI.G.H.U.G.
APPLICATION FORM for MEMBERSHIP to TEXAS INSTRUMENTS HOMECOMPUTER USER GP. MEMEEPSTIIF/FEENEWAGLFDFRM: :

NAME:
ADDRESS:
TOWN/SUEURB:
STATE:
. . . . . . . POSTCODE:
PHONE (HOME): (WORIL): $\qquad$
[Students Only] AGE: . . . . SCHOOL:
[The following information is necessary for ..................................
COMPUTER MODEL: . . . . . . SERIAL No.: . . . . . . . . . . DATE OF FUFCHASE; . . . . . . . .
I am interested in the following areas iplease be specific):
$\qquad$ TI. S.H.U.G. FO BOX 147, FENNANT HILLS. NEW. 2120

