SASKATOON
TEXAS
INSTRUMENTS
COMPUTER
CLUB

NEXT GENERAL MEETING AT:
SASKATOON REGIONAL COMMUNITY COLLEGE,
ROOM 114, 145 1ST AVE. N., 7:00PM
FEB 4TH, 1985
MAR 4TH, 1985
APR 1ST, 1985
MAY 6TH, 1985

WE DISCUSS AND REVIEW NEW PRODUCTS FOR THE TI 99, WHILE
PROVIDING TECHNICAL SUPPORT FOR ANY PROBLEMS THAT A MEMBER MAY
HAVE. WE ALSO SUPPORT A SOFTWARE LIBRARY AND HAVE REGULAR
CONTACTS WITH OTHER GROUPS IN CANADA AND THE UNITED STATES. OUR
MEMBERSHIP FEES ARE VERY REASONABLE FROM $10.00/SINGLE TO
$12.00/FAMILY. IF YOU WOULD LIKE TO BECOME A MEMBER OR REQUIRE
MORE INFORMATION, CONTACT:
FRANCIS X. GASTON 978-0182
DEAN JAMIESON 373-3548
HARRY CARUK 244-8379
KEN READ 384-2844 (BBS)

PRESIDENT: FRANCIS X. GASTON 978-0182
VICE PRESIDENT: DEAN JAMIESON 373-3548
SECRETARY: HARRY CARUK 244-8379
TREASURER: RON SCHNOR 343-1256
LIBRARIAN: GORDON MILLHAM 374-3387

STICC DISCLAIMER

WE ARE A SMALL, NON PROFIT CLUB HERE IN SASKATOON. WE
NEVER HAVE OR EVER WILL, CONSIDER OUR NEWSLETTER, AS A
PROFESSIONAL MEDIUM IN ITS FIELD. THEREFORE WITH THIS
CONSIDERATION, THE VIEWS PRESENTED IN THE ARTICLES, BY VARIOUS
AUTHORS, MAY NOT BE THE VIEWS OF THE NEWSLETTER COMMITTEE, THE
STICC EXECUTIVE, OR ITS MEMBERS. ON THIS BASIS, THIS CLUB
CANNOT BE HELD RESPONSIBLE FOR OMISSIONS, ERRORS, VIEWS, OR
COPY INFRINGEMENTS, AS PRESENTED IN THE ARTICLES.

STICC BBS

OUR BBS IS OPEN 24 HOURS A DAY, SEVEN DAYS A WEEK (WITH
THE EXCEPTION OF DAILY MAINTENANCE), AND CAN BE CONTACTED AT
(306) 384-2844. KEN READ IS OUR SYSTEMS OPERATOR, AND BARRING
ANY PROBLEMS, CAN ALSO BE REACHED AT 382-2527 (VOICE). THE
SYSTEM OPERATES AT SEVEN BITS, EVEN PARITY, AND ONE STOP BIT.
THE TELECOMMUNICATIONS FIELD, NEXT THING TO BEING THERE.
(THERE GOES OUR DISCLAIMER!!!).

PRESIDENT'S MESSAGE

WELL, THIS PAST MONTH HAS BEEN A VERY BUSY ONE FOR ME BUT
NOT NECESSARILY DUE TO MY COMPUTER. SO YOU WILL HAVE TO EXCUSE
MY LACK OF USUAL ENTHUSIASM IN THIS MONTH'S NEWS.
AS USUAL, WE HAVE MANAGED TO CONTINUE OUR COURSE OF TI/99
COMPUTER SUPREMACY (STAR WARS THEME AGAIN!!!). AND ONCE AGAIN,
WE ARE STILL HERE. AS SOME OF YOU MAY NOW KNOW, WE HAVE BEEN
HOLDING WEEKLY SESSIONS, LOVINGLY TERMED AS "TECH TALK". THESE
ARE USUALLY HELD AT ONE OF THE MEMBERS RESIDENCE, WHERE WE
DISCUSS ALL THE PARTICULARS OF OUR COMPUTER. WHETHER IT BE
SOFTWARE OR HARDWARE, WE TRY, AND YET TRY, TO BETTER OUR
UNDERSTANDING AND KNOWLEDGE OF OUR "MYSTERY" MACHINE. IF YOU
WISH TO PARTICIPATE IN THIS, GIVE ME OR KEN READ A CALL.
IN THIS MONTHS NEWS, WE MADE A SUCCESSFUL DEBUT IN A
COMPUTER SHOW, ONE OF OUR MEMBERS HAD 10 DISK DRIVES (DSDD)
AVAILABLE FOR $105.00 (AND THATS CANADIAN FUNDS YET!!!!),
PLATO MODULES HAVE ARRIVED FROM OTTAWA, AND I WILL PRESENT A
SUCCESSFUL, YET UNSUCCESSFUL ATTEMPT AT INSTALLING A LIGHT
DIMMER FOR THE PEB FAN (BY ME, THE BUMBLING ELECTRONICS
UN-EXPERT!!!!).

AT THIS TIME, I WOULD LIKE TO EXPRESS MY DEEPEST
GRATITUDE TO BOB BOONE FROM OTTAWA. HE HAS BEEN INSTRUMENTAL
IN ASSISTING OUR CLUB IN ITS MANY ENDEAVORS. THE RECENT ONE'S
ARE THE OBTAINANCE OF PLATO MODULES AND THE ADDRESSES OF
FOREIGN COUNTRIES FOR THE TRADING OF NEWSLETTERS. I TRULY
BELIEVE THAT BOB CERTAINLY DESERVES A BIG, IF NOT A BIGGER
HAND.
WELL, I WILL SEE YOU NEXT MONTH.

-FRANCIS-

TEA AND KANGAROOS

AT THE LAST MEETING, A MAJORITY VOTE WAS RECORDED IN
WHICH WE WILL BE INITIATING A NEWSLETTER TRADE WITH BOTH
ENGLAND (THAT'S FOR YOU TEA LOVERS) AND AUSTRALIA (THOSE BOUNCY
THINGS DOWN THERE!!! AND USE YOUR IMAGINATION ON THIS ONE!!).
& LET US HOPE THAT THEY SEND US SOMETHING BACK REAL SOON!!!

REMEX DRIVES

RON SCHNOR CERTAINLY OUTCLASSED ALL OF US. HE PRESENTED
AT THE LAST MEETING, NOT ONE, BUT 10 REMEX DOUBLE SIDED DISK
DRIVES (MODEL RFD 480). NOT ONLY DID HE PAY FOR THEM OUT OF
HIS OWN POCKET, BUT HE PROCEEDED TO PROVIDE THEM TO THE
MEMBERS AT-COST OF ONLY $105.00. TRULY ASTOUNDING!!! SOME
MEMBERS IMMEDIATELY TOOK THIS OPPORTUNITY TO INCREASE THEIR
DRIVE CAPACITY. SOME EVEN BOUGHT MORE THAN ONE!!! AS FAR AS
COMPATIBILITY, THERE REALLY HAVEN'T BEEN ANY PROBLEMS IN
CONFIGURING THE DRIVES FOR OUR SYSTEMS. FROM MY LAST
CONVERSATION WITH RON, THERE SHOULD BE AT LEAST THREE LEFT.
CONTACT HIM AT THE NEXT MEETING FOR MORE INFO.

MONITORS, PEBS, BUT WHERE IS THE CONSOLE?

BOY DID I FLUB IT!!! LET THIS BE A LESSON TO ALL. PRIOR
TO OUR MEETING ON MARCH 4TH, I HAD REQUESTED FROM VARIOUS
MEMBERS TO BRING ALONG A CONSOLE, PEB, MONITORS, AND SO ON...
THIS WAS TO ENSURE THAT OUR PROPOSED REVIEWS AND TUTORIALS
COULD BE PRESENTED. WELL... BRING THEM THEY DID!!! AND GUESS
WHAT? WE HAD A MONITOR AND A PEB BUT OH.. OH.. NO CONSOLE!!!
OF ALL THE EASIEST THING TO BRING, NO CONSOLE!!!! OF COURSE MY
FAULT (I THING I WAS SUPPOSE TO BRING ONE). SO WE CONTINUED ON
OUR MERRY WAY TALKING ABOUT THIS AND THAT, AND CERTAINLY
LOOKING AT OUR USELESS EQUIPTMENT. BUT LO AND BEHOLD!!!! A
LATE MEMBER CAME IN WITH A PEB, CONSOLE, AND TWO DISK
DRIVES!!! SAVED AT LAST. WE CONTINUED WITHOUT ANOTHER HITCH.
SO LET THIS BE A LESSON - NEVER UNDERESTIMATE THE POWER
OF THE TI 99/4A CONSOLE COMPUTER (KINDA CUTE EH?)

DIMMER ATTACHMENT TO PEB FAN

DONT GET YOUR HOPES TOO HIGH. YES! YES! YES! I WAS ABLE
TO CONNECT A LIGHT DIMMER FOR MY FAN IN THE PEB BOX. THE
PURPOSE WAS TO REDUCE THE NOISE LEVEL OF THE FAN. BUT TO NO
AVAIL. YOU SEE, NO MATTER WHAT KIND OF DIMMER YOU HAVE, THE
FAN JUST WONT TURN AFTER REDUCING THE POWER TO THE FAN, SINCE
THE FAN REQUIRES MORE TORQUE TO MAKE IT TURN, AT ALL (FROM A
RESIDENT CONSULTANT). SO NO MATTER WHAT, YOU STILL HAVE THE
NOISE AFTER ALL. THE DIMMER STILL SERVED ITS PURPOSE THOUGH.
YOU SEE, NOW ALL I HAVE TO DO IS TURN OFF THE FAN IN THE FIRST
45 MINUTES OF USE UNTIL THE POWER SUPPLY AND CARDS HAVE
GOTTEN HOT ENOUGH TO TURN MY FAN ON AGAIN. SO I USUALLY HAVE
45 MINUTES OF GOLDEN SILENCE BEFORE THAT USUAL RACKET. I WILL
BE PLANNING TO INSTALL A TEMPERATURE SENSOR IN THE NEAR FUTURE
SO THAT IT WILL AUTOMATICALLY TURN ON BY ITSELF. ANYONE HAVE
AN EXTRA VARIABLE BI-METALLIC SWITCH?

ONE OTHER FACTOR, THE INSTALLATION OF THE SWITCH DOES NOT
REQUIRE ANY TECHNICAL EXPERTISE. IT IS VERY EASY TO DO AND
WILL REQUIRE ONLY A FEW WIRES, AND "QUICK CONNECTORS". THE
ONLY REAL PROBLEM THAT I ENCOUNTERED IS THE OPENING OF THE PEB
BOX ITSELF. THESE SUCKERS WERE REALLY BUILT SOLIDLY. SO TAKE
TIME TO INSTALL OR TINKER. TRIAL AND ERROR IS USUALLY THE BEST
WAY ANYWAYS. HAVE FUN!!

COMPUTER FAIRE

DID HARRY, GORDON, AND I HAVE FUN??? YOU BET WE DID!!!!
IT WAS ONE OF THE MOST INTERESTING FAIRES YET!!! (SINCE THIS
WAS OUR FIRST ONE!). IN CASE YOU WERE NOT INFORMED, THE
COMPUTER FAIRE WAS HELD AT THE WALTER MURRAY COLLEGIATE, AND
DIRECTED FOR S.A.G.E. I REALLY AM NOT SURE WHAT THE
ABREVIATION EXACTLY IS, BUT IT IS FOR THE GIFTED CHILDREN
EDUCATION. WERE THESE KIDS BRIGHT! LET ME TELL YOU WHAT
HAPPENED...

FIRST, I BROUGHT MY PRINTER, MODULES, DISKETTES, AND
VARIOUS MANUALS TO THE FAIRE, WHILE GORDON AND HARRY BROUGHT
PRACTICALLY EVERYTHING ELSE!!! GORDON EVEN BROUGHT A MODEM AND
HIS PHONE!!! HARRY OF COURSE BROUGHT ALONG HIS MBX SYSTEM
WHICH CREATED A LOT OF INTEREST ON ITS OWN. OUR COMPUTER
SET-UP AND PRESENTATION CREATED MORE INTEREST THAN ANY OTHER
COMPUTER IN THE ROOM!! WHICH BRINGS UP THE SECOND POINT.

THERE WERE TWO OTHER GROUPS PRESENT AT THE FAIRE. THESE
GROUPS WERE THE COMMODORE AND THE OSBORNE USERS GROUPS. BOY OH
BOY, DID WE SHOW THEM!!! THEY JUST WERE NOT ABLE TO COMPETE
WITH THE TREMENDOUS COLOR, SOUND, AND ESPECIALLY THE SPEECH
CAPABILITIES OF OUR TI. WE EVEN CALLED OUT TO THE OTHER GROUPS
VIA SPEECH WHICH JUST MADE THEM TURN GREEN (OR WAS IT BLUE?)
WITH ENVY. THE COMMODORE HAD ONLY ONE GAME GOING ON DURING THE
WHOLE FAIRE, WHILE THE OSBORNE GROUP (WHO HAD TWO COMPUTERS)

PRESENTED THEIR PROGRAMMING CAPABILITIES. BUT CERTAINLY OURS
WAS THE MOST POPULAR!!

IF ANOTHER FAIRE IS EVER PRESENTED, YOU CAN SURELY BET
THAT WE WILL BE THERE AGAIN. WE REALLY DID HAVE FUN. COME ON
OUT TO THE NEXT ONE.

(* - AS OF THIS WRITING, I HAVE BEEN CONTACTING OTHER
USER GROUPS HERE IN THE CITY IN TRYING TO SET UP A HOME
COMPUTER FAIRE. THE OTHER GROUPS ARE CERTAINLY INTERESTED, AND
COST WOULD CERTAINLY BE VERY LOW SINCE ALL WE HAVE TO PAY IS
THE RENTAL OF A ROOM SOMEWHERE. EVEN AT $20/HR FOR 4 HOURS
BETWEEN 5-6 GROUPS WOULD BE VERY INEXPENSIVE. I AM SURE
VENDORS IN THE CITY WOULD ALSO BE ABLE TO PITCH IN. OF COURSE,
NO ADMISSION! JUST ANOTHER SUGGESTION FOR THE MASSES.)

TID BITS

FROM WINNIPEG - UMBBS MAY ONCE AGAIN BE UP IN THEN NEAR
FUTURE. FROM SOURCES, THE MANITOBA TELEPHONE SYSTEM (MTS) IS
CERTAINLY INTERESTED (MEANING THAT THE UM PART WILL BE
DROPPED) IN HAVING MARK EVANS ("SUPER SYSOP" OF CANADA)
IMPLEMENT HIS UNIVERSITY PROJECT ON AN MTS MAINFRAME COMPUTER.
USER FEES WILL CERTAINLY BE LOW AND RUMORED AT 2-3 CENTS PER
MINUTE.

AGAIN FROM WINNIPEG U.G. - ANOTHER MAINFRAME BBS MIGHT BE
UP SOON. CODE NAMED "PLAYER SPECIAL" IT IS SAID TO HAVE 500
MEGABYTE FOR BOARDS, GAMES, DOWN / UPLOAD, CB SIMULATOR, MULTI
USER CAPACITY, AND VARIOUS OTHER GOODIES. SAID TO RUN ON AN
AMDAHL COMPUTER AND APPARENTLY FREE. VICTOR MAXWELL, WHO IS
PUTTING UP THE BOARD, IS LOOKING FOR A COMPANY SPONSORSHIP TO
PROVIDE DATAPAC ACCESS. BUT DON'T GET YOUR HOPES UP TOO HIGH
YET SINCE THIS BBS IS NOT YET CONFIRMED.

FROM MICROPENDIUM - STEVE LISONBE OF UTAH HAS THE
FOLLOWING PROGRAM FOR THE CLEARING OF THE DISK HEADS. 10 ON
ERROR 30 20 RUN "DSK1.LOAD" 30 ON ERROR 40 40 RETURN

FROM HOME COMPUTER MAGAZINE - G.A. HAMILTON HAS THE
FOLLOWING ONE LINER USING XBASIC. 1 N=28:: FOR X=4 TO N:: CALL
SPRITE(#X,60+X,X/2,N,N,X,M):: FOR Y=5 TO X:: CALL
COINC(#Y,#4,N+M,C):: M=M-C:: DISPLAY AT(4,9):M :: CALL
JOYST(1,E,F):: CALL MOTION(#4,-2*F,2*E):: NEXT Y :: NEXT X
--OBJECTIVE IS TO AVOID BEING HIT BY THE SPRITES. USE JOYSTICK
1 AND LOW SCORE WINS.

"TIRED OF TYPING THE SAME COMMAND OVER AND OVER?". WELL
YO CAN NOW PROGRAM THEN CONTROL KEYS TO YOUR LIKING WHICH
GIVES YOU 12 COMMANDS WITH 1 KEY PRESS IN XBASIC RUN OR
IMMEDIATE MODE. IT ALSO GIVES YOU A GRAPHIC SCREEN DUMP ANY
TIME YOU WANT EITHER IN A RUNNING PROGRAM OR NOT. DISK CATALOG
GIVEN ANY TIME ALSO. FOR INFO CONTACT PC KEYS,
TECHNI-GRAPHICS, 443 FERRIE DR., #302, ELK GROVE VIL, IL,
60007. PRICE IS $22.50 (US) AND REQUIRES XBASIC AND 32K.

REMEMBER SUPER SKETCH? WELL, THERE IS NOW A NEW ADDITION

NAMED SKETCHMATE WHICH COMPLIMENTS THE SUPER SKETCH AND COSTS
$29.95 (US). IT WILL NOW ENABLE YOU TO DUMP TO A PRINTER OR
SAVE TO A DISK. IT REQUIRES A WIDGET, XBASIC, MINIMEM, E/A,
SUPER SKETCH, AND 32K. IT IS AVAILABLE FROM AMERISOFT
INTERNATIONAL, P.O. BOX 2168, ACWORTH, GA., 30101.
        SEE ATTACHED PAGE ON ANOTHER NEW TI MAGAZINE. PAUL DEGNER
FROM WINNIPEG SENT IT TO US.


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**********************************************
*                                            *
*   PROVINCIAL BULLETIN BOARD SYSTEMS        *
*                                            *
*   SASKATOON                                *
*                                            *
*       Color-80 BBS         374-2391        *
*          24hrs.                            *
*                                            *
*       SPCUG BBS            242-3194         *
*          18:00 to 08:00 daily              *
*          and all day Sunday                *
*                                            *
*       STICC BBS (this one) 384-2844        *
*          24hrs.                            *
*                                            *
*       The Way BBS          242-3821        *
*          24hrs.                            *
*                                            *
*       Mustang BBS          ***-****        *
*          24hrs.(?)                         *
*                                            *
*       Gravestone BBS       665-7085        *
*          24hrs.                            *
*                                            *
*       Radio Shack BBS      384-9211        *
*          19:00 to 08:00 daily              *
*          and all day Sunday                *
*                                            *
*       Synerscan            242-8085        *
*          19:00 to 08:00 daily              *
*          and all day Sunday                *
*                                            *
*       Datapac Public       665-6660        *
*       Dial Port (300bps)                   *
*          24hrs.  (not a BBS)               *
*                                            *
*   MELFORT                                  *
*                                            *
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*     MGBBS (8 data        1-752-5577   *
*     bits, no parity,                  *
*     one stop bit)                     *
*      18.00 to 08:00 daily             *
*      and all day Sunday               *
*                                       *
*   REGINA                              *
*                                       *
*     The Valley         1-584-7424     *
*      24hrs.                           *
*                                       *
*     RABID              1-949-7766     *
*      18:00 to 06:00 daily             *
*                                       *
*     EMIS               1-586-5585     *
*      24hrs.                           *
*                                       *
*     SASK-ED-NET        1-525-9973     *
*      24hrs.                           *
*                                       *
*     Shadowland         1-789-7883     *
*      24hrs.                           *
*                                       *
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NEW COMPUTER?

EDITORIAL FROM THE MICROPENDIUM MARCH 1985 ISSUE

IT NOW APPEARS THAT A TI 99/4A COMPATIBLE COMPUTER WILL MAKE ITS DEBUT AT THE JUNE CONSUMER ELECTRONICS SHOW.
IT IS CURRENTLY IN BETA TESTING (BY PERSONS NOT ASSOCIATED WITH THE DESIGN OR DEVELOPEMENT OF A PROJECT) AND IS NEGOTIATING WITH TI FOR THE RIGHTS TO ITS PROPRIETY OPERATIONG SYSTEM. NAMES ASSOCIATED HAVE BEEN "99B". THE COMPANY WISH TO REMAIN ANONYMOUS FOR THE MOMENT UNTIL COMMITMENTS HAVE BEEN MADE. BRUCE RYAN, OF BYTE DATA, HANDLING THE PUBLIC RELATIONS FOR THE NEW COMPUTER, STATE THAT THE MACHINE USES THE 9995 CHIP AND COMES WITH 128K OF RAM EXPANDABLE TO 512K. IT HAS OPTIONS OF ADDRESSING UP TO 1 MEG DIRECTLY. INCLUDED WILL BE A 16K OF VDP RAM EXPANDABLE TO 64K AND MAY USE THE NEW TI AVDP CHIP. KEYBOARD IS DESIGNED IN THE SELECTRIC MOLD BUT MORE TOWARDS THE APPLE II OR TI 99/8. VIDEO DISPLAY OFFERS HIGH RESOLUTION TO 80 COLUMNS, AND SUPPORTS BOTH RGB AND COMPOSITE MONITORS
THE MACHINE IS FULLY PEB COMPATABLE FOR FUTURE EXPANSIONS. DOS WILL BE DIFFERENT FROM THE TI DOS BUT WILL STILL BE COMPATIBLE. CONFIGURATION WILL ALLOW SINGLE SIDE, SINGLE DENSITY, UP TO QUAD DENSITY. WINCHESTER HARD DISK

INTERFACING WITHOUT USE OF A HARD DISK CONTROLLER WILL ALSO BE
AVAILABLE.

THE NEW MACHINE WILL RUN AT 10 MEGAHERTZ, COMPARED TO
TI'S 99/4A AT 3.3 MH, AND THE IBM PC AT 4.6 MH. BUT NOT ALL OF
THE OPTIONS HAVE FULLY BEEN IMPLEMENTED YET. THE SOUND/MUSIC
CAPABILITIES HAVE NOT BEEN DEFINED WHILE SPEECH IMPLEMENTATION
IS STILL OPEN. THOSE CAPABILITIES MIGHT BE INCORPORATED USING
AN FEB CARD.

SINCE THE SUCCESS IS BASED ON THE TI USERS, ITS FATE THUS
RESTS ON THEM ALSO. FOR SUGGESTIONS OR COMMENTS, YOU CAN SEND
THEM TO MICROPENDIUM WHO WILL FORWARD THEM TO THE
MANUFACTURER. THEIR ADDRESS IS COMPUTER, C/O MICROPENDIUM,
P.O. BOX 1343, ROUND ROCK, TX., 78680. PRICE IS LIKELY TO BE
IN THE $300-600 RANGE (US).

(* - MY EARS WILL SURELY BE OPEN ONCE THE JUNE CES OPENS
ITS DOORS!!!!!!)

FOR SALE

MICROSURGEON MODULE SEELING FOR $20.00. THE BEST IN
COLOR, GRAPHICS, SPRITES, AND REAL TIME PROGRAMS. CONTACT
FRANCIS AT 978-0182.

BASIC FILE TRANSFER ROUTINES

EDITED FROM SOURCE BY DENNIS HANCOCK

Below is version 2.2 of BASTRAN. This program will transfer DISPLAY,VARIABLE 80 files into RUNable MERGE code. Any program can e turned into a DV80 file by simply "LISTing" it to a disk drive. Also, any programs downloaded using TE-II's OUTPUT mode (CTRL-2) will be in DV80.

You must have X-BASIC to run the program. The result is a MERGE format file that can then be loaded into X-BASIC and saved as a PROGRAM file that will run in BASIC or X-BASIC.

Although there are instructions included in the program, below are a few tips to aid you in your BASIC transfer endeavors:

1) After you have downloaded the program text from SF99, use TI-WRITER, ED/ASM Module or some other program to edit out all stray characters and/or blank lines. NOTE: If you are using TI-WRITER, be sure to save the file using PF (PrintFile) rather than SF (SaveFile)!

2) If the program you are transfering IS NOT numbered by increments of ten AND has lines of more than 80 characters in length, you MUST insert a at the start of each extended line so that the program knows to include it in the previous line!

3) If you wish, you can even WRITE your programs using TI-WRITER or ED/ASM Module and then "compile" them into BASIC using this program!

```
100 ! ********************* 120 ! * B A S T R A N * 130 ! *
------------- * 150 ! * ASCII TEXT TO * 160 ! * MERGE FORMAT *
180 ! ********************* 210 ! SUBFILE99 220 ! Version 2.2 230
! 11/15/84 260 DEF P(M$)=POS(M$," ",1)-1 280 ! ****************
290 ! *TITLE SCREEN* 300 ! ***************** 320 CALL CLEAR 330
DISPLAY AT(2,1):"ASCII FILE REFORMATTER" :: DISPLAY
AT(3,1):RPT$("=",22) 340 DISPLAY AT(8,1):"DO YOU NEED
INSTRUCTIONS? "CHR$(30):: CALL KEYANS(XK,XR) :: CALL
HCHAR(8,29,XK) 350 IF XR=1 THEN GOSUB 980 360 DISPLAY
AT(12,1):"INPUT FILE? DSK1." :: ACCEPT AT(12,17)SIZE(-12)BEEP:
INFILE$ 370 DISPLAY AT(14,1):"OUTPUT FILE? DSK1." :: ACCEPT
AT(14,17)SIZE(-12)BEEP: OUTFILE$ 380 DISPLAY AT(16,1):"ARE LINE
#S INCR BY TEN? "CHR$(30):: CALL KEYANS(XK,XR) 390 CALL
HCHAR(16,29,XK) :: CALL HCHAR(16,29,XK) 410 ! ***************
420 ! *SET UP FILES* 430 ! ************** 450 OPEN
#1:"DSK"INFILE$,INPUT ,SEQUENTIAL,DISPLAY ,VARIABLE 80 460 OPEN
#2:"DSK"OUTFILE$,OUTPUT,SEQUENTIAL,DISPLAY ,VARIABLE 163 480
CALL CLEAR :: PRINT "ONE MOMENT..." : : : 510 ! *********** 520
! *MAIN LOOP* 530 ! *********** 550 LINPUT #1:A1$ 560 IF A1$=""
OR LEN(A1$)<3 THEN 540 570 IF EOF(1)= 0 THEN 640 580 LINPUT
#1:A2$ 590 IF XR=0 THEN 620 600 P2=P(A2$):: IF P2<1 THEN P2=1
610 IF SEG$(A2$,1,P2)<>STR$(VAL(SEG$(A1$,1,P(A1$)))+10)THEN
A1$=SEG$(A1$RPT$ (" ",80),1,80)A2$ :: GOTO 570 ELSE 640 620 IF
SEG$(A2$,1,1)="" THEN A1$=SEG$(A1$RPT$("
```

",80),1,80)&SEG$(A2$,2,LEN(A2$)-1):: GOTO 570 630 ! 640 GOSUB
860 650 ! 660 A1$=A2$ 670 IF EOF(1)=0 THEN 570 680 IF
SEG$(A1$,1,1)="" THEN GOSUB 860 700 ! ************ 710 !
CLOSE FILES 720 ! ************ 740 PRINT
#2:CHR$(255)&CHR$(255) 750 CLOSE #1 :: CLOSE #2 760 PRINT "THE
FILE: ";SEG$(OUTFILE$,3,LEN(OUTFILE$)-2);"HAS BEEN CREATED."
770 PRINT :"DO ANOTHER FILE?" :: CALL HCHAR(23,20,30):: CALL
KEYANS(XK,XR):: CALL HCHAR(23,20,XK) 780 IF XR=1 THEN 190 790
RUN "DSK.UP/DN-LOAD.LOAD" 820 ! *************** 830 !
CREATE MERGE FILE 840 ! **************** 860 B=P(A1$) 870
C=INT(VAL(SEG$(A1$,1,B))/256) 880 D=VAL(SEG$(A1$,1,B))-(C*5) 890
E=LEN(A1$)-B 900 PRINT A1$ 910
A1$=CHR$(C)&CHR$(D)&SEG$(A1$,B+1,LEN(A1$))&CHR$(0) 920 PRINT
#2:A1$ :: RETURN 930 ! 940 ! ************** 950 !
INSTRUCTIONS 960 ! ************* 970 ! 980 CALL
HCHAR(8,1,32,512) 990 CALL CENTER("INSTRUCTIONS",9):: CALL
CENTER("------------",10) 1000 FOR PAGE=1 TO 6 1010 FOR LINE=12
TO 21 STEP 2 1020 READ M$ 1030 CALL FILL(LINE,0,M$) 1040 NEXT
LINE 1050 CALL CONTKEY 1060 CALL HCHAR(12,1,32,416) 1070 NEXT
PAGE 1080 RETURN 1090 ! 1100 DATA THIS UTILITY WILL READ
ANY,ASCII TEXT FILE AND TURN IT,INTO A MERGE FILE READY TO,LOAD
AND RUN IN TI-BASIC. 1110 DATA ANY TEXT FILE STORED IN,DIS/VAR
80 FORMAT CAN BE,USED AS THE INPUT FILE.,THE INPUT FILE CAN BE
A FILE,RETRIEVED WITH THE TEII, 1120 DATA WRITTEN WITH
TI-WRITER; ETC. 1130 DATA IF THE INPUT FILE IS WRITTEN,USING
TI-WRITER YOU MUST,REMOVE ALL `CR` *BEFORE*,USING THIS PROGRAM.
1140 DATA IF THE INPUT FILE CONTAINS,LINES OF 80+ LENGTH A
"@".*MUST* BE THE 1ST CHARACTER,OF THE EXTENDED LINE. 1150 DATA
IF THE LINE NUMBERS OF THE,INPUT FILE ARE IN INCREMENTS,OF TEN
BEFORE USING THIS,PROGRAM - ANSWER YES TO 1160 DATA THE
SECOND QUESTION PROMPT. 1170 DATA AFTER THE PROGRAM IS
HAS,CREATED THE MERGE FILE YOU,MUST LOAD THE MERGE FILE
AND,REMOVE THE ONE EXTRA SPACE 1180 DATA AT THE START OF EACH
LINE,BEFORE IT WILL RUN. 1190 DATA THEN SAVE THE PROGRAM. 1230
! ****************** 1250 ! * S U B P R O G S * 1270 !
****************** 1300 SUB KEYANS(XK,XR) 1310 CALL
SOUND(150,1100,0) 1320 CALL KEY(3,XK,XS):: IF XK=78 THEN XR=0
ELSE IF XK=89 THEN XR=1 ELSE 1320 1330 SUBEND 1340 SUB CONTKEY
1350 DISPLAY AT(24,2):"PRESS ANY KEY TO CONTINUE" :: CALL
SOUND(150,1200,0) 1360 CALL KEY(3,K,S):: IF S=0 THEN 1360 1370
SUBEND 1380 SUB CENTER(M$,R) 1390 C=INT((28-LEN(M$))/2)::
DISPLAY AT(R,C):M$ 1400 SUBEND 1410 SUB FILL(R,I,M$) 1420 FOR
X=1 TO LEN(M$) 1430 IF LEN(M$)=28-I THEN 1450 ELSE IF
SEG$(M$,X,1)=" " THEN M$=SEG$(M$,1,X)&" "
&SEG$(M$,X+1,LEN(M$)-X):: X=X+1 1440 NEXT X :: GOTO 1420 1450
DISPLAY AT(R,29-LEN(M$)):M$ 1460 SUBEND

INTERRUPT TIMER ROUTINE

A TIMELY REQUEST

By request, SF99 offers this "clock" routine that operates
from the TI's User-Defined Interrupt. Once this program is
loaded, for as long as the machine is turned on, it will
continue to keep time. When the machine is turned off,
however, the program is lost. Of course, each time you load
the program you will have to reset the time, too.

* *VERSIONS AVAILABLE FOR XBASIC,MINIMEM, AND E/A BASIC FROM
PROG. LIBRARY*

1) MINIMEM
    STKREF   EQU   .604C
    STRASG   EQU   .6048
These replace the REF in the third line of the code.
    2) X-BASIC
    STKREF   EQU   .2014
    STRASG   EQU   .2010
Remember that the interrupts are disabled upon disk access. This means
the timer will momentarily stop when accessing a record from
disk, etc. If you wish, you can compensate for this by adding
seconds to the time counter with the ATIME command.

You can also keep track of elapsed time by accessing
CHTIME. The result is measured in minutes. At any time you
may zero out the elapsed time with the CLTIME command.

Be sure you use the proper form in your string that sets
the time or unpredictable results will occur.

EXAMPLE PROGRAMS

The BASIC program below should give you a pretty good idea
of how SFTIMER works. It assumes that you assembled the object
code as SFTIMER/O. If you used some other name, insert your
new name as needed. If you are using the routine in X-BASIC or
MINIMEM, you don't need to load the BASIC Support Routines
("BSCSUP").

This routine will come in handy for games, educational
programs where elapsed time is a critical factor, and in many
other home uses. If you come up with a use for this routine
why not let us know about it?

```
100 REM *********************** 120 REM * INTERRUPT * 140 REM *
TIMER ROUTINE * 160 REM * FOR E/A MOD * 180 REM
********************** 200 REM 11/84 220 REM SUBFILE99 240 REM
*HOUSEKEEPING* 250 REM 260 CALL INIT 270 CALL CLEAR * LINE 280
NOT REQUIRED FOR XBASIC 280 CALL LOAD("DSK1.BSCSUP") 290 CALL
LOAD("DSK1.XBCLOCK") 300 REM 310 CALL LINK("CLTIME") 320 CALL
LINK("STIME","12:00:00 A") 330 REM 340 REM *DISPLAY MENU* 350
REM 360 RESTORE 890 370 FOR X=1 TO 22 380 READ M$ 390 PRINT M$
400 NEXT X 410 REM 420 READ M$ 430 PRINT M$ 440 INPUT C$ 450
C=POS("GSCA?",SEG$(C$,1,1),1) 460 ON C+1 GOSUB
520,580,640,710,770,840,860 470 C$="" 480 GOTO 430 490 REM 500
REM *ENTRY ERROR* 510 REM 520 PRINT :"ILLEGAL COMMAND":: 530
CALL SOUND(150,110,0) 540 RETURN 550 REM 560 REM *GET CURRENT
TIME* 570 REM 580 CALL LINK("GTIME",TIME$) 590 PRINT :"TIME:
";TIME$:: 600 RETURN 610 REM 620 REM *SET NEW TIME* 630 REM 640
INPUT "SET TIME:" TIME$ 650 PRINT 660 CALL LINK("STIME",TIME$)
670 RETURN 680 REM 690 REM *CHK ELAPSED TIME* 700 REM 710 CALL
LINK("CHTIME",T$) 720 PRINT :"TIME ELAPSED:
";ASC(T$);"MINUTES":: 730 RETURN 740 REM 750 REM *ADD TO TIMER*
760 REM 770 INPUT "ENTER INCREMENT:":S 780 PRINT 790 CALL
LINK("ATIME",CHR$(S)) 800 RETURN 810 REM 820 REM *END PROGRAM*
830 REM 840 PRINT :"HAVE A NICE DAY!". 850 END 860 REM 870 REM
*MENU DATA* 880 REM 890 DATA SF99 INTERRUPT TIMER
```

DEMO,------------------------------------,,,,,SELEC T ONE:,,,

<u>SPRITE ONE LINER</u>
FROM EDMONTON ORIGINALLY FROM BARRON BARTLETT OF HUG

REQUIRES XBASIC:

CALL CLEAR:: CALL SCREEN(5):: CALL MAGNIFY(2):: FOR I=1 TO
28:: CALL SPRITE (#I,64+I,16,80,30,3*I,8):: NEXT I :: FOR J=1
TO 5000 :: NEXT J

TYPE THE ABOVE IN COMMAND MODE. PRESS ENTER AND WATCH 28
SPRITES DO THEIR THING. TO SEE AGAIN, PRESS FCTN REDO THEN
ENTER. YOU CAN EDIT IT TO CHANGE COLORS, CHARACTERS, SPEEDS,
ETC. ADD A LINE NUMBER TO MAKE IT A ONE LINE PROGRAM.

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