

CLEVELAND AREA TI-994/A USER GROUPS NEWSLETTER JANUARY, 1991

OFFICERS	NORTHCOAST	TI-CHIPS	MEETING DATES
CO-PRESIDENT	STEVE BAGSTED 1-933-5977	MATT ANDEL 676-9759	NORTHCOAST 1:30 P.M. TI-CHIPS 10 A.M.
CO-PRESIDENT	BOB KAGY 1-255-2609	GLENN BERNASEK 238-6335	EUCLIDIAN ROOM N.ROYALTON LIBRARY
TREASURER	FRANK JENKINS 283-8526	LIN SHAW 235-3912	EUCLID SQUARE MALL STATE RD & RT B2
MEMBERSHIP	CHUCK POULIN 731-6473 361 E. 280TH ST. EUCLID, OH 44132	JOHN PARKEN 331-2830 4172 W. 217TH ST. FAIRVIEW PARK, OH 44126	THIRD SATURDAY THIRD SATURDAY OCTOBER 20, 1990 NOVEMBER 20, 1990 DECEMBER 15, 1990 JANUARY 19, 1991 FEBRUARY 16, 1991 MARCH 16, 1991
SECRETARY	CHUCK POULIN 731-6473	DENNIS LIKENS 842-9627	
LIBRARY(DISK)	MARTIN SMOLEY 1-257-1661	HARRY HOFFMAN 631-2354	
(TAPE & MODS)	FRANK JENKINS 283-8526	JOHN PARKEN 331-2830	
(HARD COPY)	DICK ALDEN 1-352-9172		

A COUPLE OF HOUSEKEEPING CHORES, TO START. ONE, YOUR OLD NEWSLETTER EDITOR IS YOUR NEW NEWSLETTER EDITOR. WILL TRY TO KEEP GOING ONE MORE YEAR. IT'S NOT THAT I DON'T ENJOY DOING IT, BUT FEEL THAT AFTER FIVE YEARS A NEW PERSPECTIVE WOULD HELP ALL OF US. AGAIN MANY THANKS TO THOSE WHO MAKE THE JOB EASIER BY WRITING ARTICLES. WE HAVE BEEN VERY FORTUNATE TO HAVE HAD PEOPLE LIKE PAUL NEWEYER, GLENN BERNASEK, MARTY SMOLEY, WES RICHARDSON AND STEVE BAGSTAD WHO HAVE DONE WHOLE SERIES OF ARTICLES AND MANY OTHERS WHO CONTRIBUTE SPECIAL ARTICLES. THANKS SO MUCH TO ALL OF YOU.

I WOULD LIKE TO REMIND YOU THAT THERE ARE STILL THOSE WHO WORK BEHIND THE SCENES EACH MONTH TO MAKE SURE YOU GET YOUR NEWSLETTER ON TIME. ONCE IT GOES TO THE PRINTERS, I DON'T TOUCH IT UNTIL I SEE IT COME IN THE MAIL JUST AS YOU DO. PROBABLY SINCE THE BEGINNING OF TIME AS FAR AS OUR GROUPS ARE CONCERNED, FRANK JENKINS HAS HAD THE RESPONSIBILITY OF GETTING THE NEWSLETTER TO THE PRINTERS, KEEPING AN UP-TO-DATE MAILING LIST AND PREPARING THE MAILING LABELS. AS FAR AS I KNOW, FRANK HAS DONE THIS SINCE THE FIRST TI GROUP STARTED IN SOLON. THAT IS A LONG TIME. MANY THANKS, FRANK. THE PAST YEAR TI-CHIPS HAS HAD THE RESPONSIBILITY FOR FOLDING, STAPELING, STAMPING, ATTACHING THE MAILING LABELS, AND GETTING THEM TO THE POST OFFICE. I THINK THAT MOST OF THE TIME, WE HAVE HARRY AND NINA HOFFMAN TO THANK FOR THIS THANKLESS JOB.

WHAT I WOULD LIKE IS SOME FEEDBACK AS TO WHAT WE INCLUDE IN THE NEWSLETTER. LATELY I HAVE BEEN INCLUDING SOME SHORT PROGRAMS TO TYPE IN; TI ROUNDTABLE CONFERENCES ON GENIE, ETC. I AM DO MORE, OR LESS OF THESE AS YOU WISH. EVEN THOUGH WE MIGHT NOT ALWAYS BE ABLE TO FIND ARTICLES EITHER LOCALLY OR IN OTHER NEWSLETTERS TO COVER YOUR EXACT INTEREST, WE WILL TRY IF YOU WILL ONLY TELL ME.

ALSO, MANY THANKS TO THE NORTHCOAST GROUP FOR THE BEAUTIFUL PLACQUE. THERE ARE MANY OVER THE YEARS WHO HAVE WORKED JUST AS HARD TO MAKE OUR GROUPS A SUCCESS. I DO APPRECIATE THE THOUGHT AND THE PLACQUE WILL OCCUPY A SPECIAL SPACE NEXT TO MY COMPUTERS.

AFTER SIX YEARS AS ORPHANS, WE STILL HAVE REASON TO BE OPTIMISTIC ABOUT THE TI. THERE ARE STILL NEW HARDWARE AND SOFTWARE ITEMS TO ENHANCE OUR MACHINE. WE KNOW THAT WE WILL NEVER WIN ANY RACES WHERE SPEED IS IMPORTANT (HOWEVER,

REMEMBER THE FABLE ABOUT THE TORTOISE AND THE HARE), BUT THERE ARE MANY FUN AND ALSO PRACTICAL USES FOR OUR MACHINE.

ONE WAY TO STRETCH YOUR KNOWLEDGE AND THE CAPABILITIES OF OUR MACHINE IS TO START AN "I WONDER IF I CAN DO IT" PROJECT. I HAVE BEEN INVOLVED IN TWO RECENTLY THAT TOOK ME MANY HOURS, BUT HAVE GIVEN ME A SENSE OF ACCOMPLISHMENT. ONE YOU WILL SEE ON THE INSIDE WITH THE ARTICLE ON COLOR PRINTERS. IT LITERALLY DROVE ME TO TEARS WHEN I FINALLY GOT IT FORMATTED JUST RIGHT AND THEN I DID SOMETHING TO TRASH MY HARDISK WHERE I HAD MOST OF MY FILES. I THEN HAD TO REDO THE ENTIRE PAGE, BUT IN LESS THAN HALF THE TIME I DID IT ORIGINALLY AS I HAD LEARNED SOME "TRICKS" BY THAT TIME.

THE OTHER PROJECT IS THE ONE WHERE I AM DEVELOPING ALL THE NECESSARY FORMS ON MULTIPLAN FOR PREPARATION OF YOUR 1990 INCOME TAXES. I AM A REAL MULTIPLAN NOVICE, AND THIS HAS MADE ME SOMEWHAT OF A MULTIPLAN EXPERT. AS I TEST EACH FORM TO SEE THAT IT WORKS, I LEARN SOMETHING NEW.

NEITHER PROJECT WAS EASY AND TOOK MANY MANY HOURS TO COMPLETE, BUT THERE IS ALWAYS A LEARNING CURVE IN ANYTHING YOU DO. I WOULD CHALLENGE YOU TO TRY TO STRETCH YOUR MIND AND OUR MACHINE WITH A PROJECT THIS YEAR. DON'T GET DISCOURAGED WHEN IT DOESN'T WORK THE FIRST, OR EVEN THE TENTH TIME. ALSO, IT TAKES ME JUST AS LONG TO LEARN THINGS ON MY IBM COMPATIBLE AS IT DOES MY TI. BELIEVE ME, IT AIN'T NECESSARILY ANY EASIER OVER THERE.

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TI-CHIPS (17 NOV 1990)

TICHIPS' NOV MEETING WAS CALLED TO ORDER AT 10:20 BY PRESIDENT MATT ANDEL. AROUND 23 PEOPLE WERE ON HAND TO HEAR THE READING OF LAST MONTHS MINUTES BY YOURS TRULY. TREASURY: LIN SHAW REPORTED \$973.85 IN OUR ACCOUNT. MEMBERSHIPS: TICHIPS CURRENTLY HAS 46 MEMBERS. JOHN REPORTED HE HAD TAKEN OUT A COUPLE OF LOCAL ADDS HOPING TO BRING SOME OF THOSE 99'ERS OUT OF THE CLOSET AND DOWN TO OUR MEETINGS. THERE WERE A COUPLE OF NEW FACES AT THE MEETING AND 1 GUEST WHO OBTAINED A MEMBERSHIP APPLICATION. JOHN ALSO ASKED IF ANYONE OUT THERE WANTS TO CONTRIBUTE TO THE NEWSLETTER BY SUBMITTING TO HIM ARTICLES THAT DEAL WITH THE TI YOU WISH TO SHARE.

DISKS: HARRY REPORTED ON HIS TRIP TO THE CHICAGO FAIR. HE ALSO BROUGHT BACK SOME GOODIES. HE ADVISED THE PENN GROUP'S HARD AND FLOPPY CONTROLLER ISN'T OUT YET. (SO MUCH FOR THE CHRISTMAS WISH LIST). GARY BOWSER IS REPORTED TO BE SELLING A ADDON TO THE CONSOLE (9958 CHIP) THAT GIVES 80 COLUMNS. (\$179) DOESN'T SUPPORT A MOUSE BUT COMPATIBLE WITH MAJORITY OF 80 COLUMN SOFTWARE. COMPRODINE HAS A NEW UTILITY FOR THE ARTIST FAN, "ART CATALOGER". THIS NIFFTY PROGRAM WILL READ A DISK THAT CONTAINS FONTS AND INSTANCES THEN PRINT THEM OUT JUST LIKE THE CATALOGER FOR TIPS. THIS IS ONE UTILITY THAT SHOULD HAVE BEEN ON THE PLUS DISK. ALSO OBTAINED WAS FUNNELWEB V4.31. THE PROGRAM HAS SOME NICE CHANGES FROM PREVIOUS VERSIONS. NOW DISK REVIEW HAS REPLACED DM1000 AND DISK PATCH. DISK REVIEW HAS THE SAME FEATURES THAT THE 80 COLUMN VERSION HAD IN OLDER VERSIONS. YOU CAN STILL ADD YOUR FAVORITE DISK MANAGER BUT WHY WAIST THE SPACE. THIS IS GOOD NEWS FOR THE SSSD DISK USER. THE PROGRAM ALSO IS FASTER THAN BEFORE. AGAIN THE BIGGEST CHANGE IS THE WINDOWING OF DISK REVIEW. ALSO REVIEWED BY HARRY WAS BACKSTEINI. THIS IS THE MOST ADVANCED BREAKOUT TYPE GAME FOR THE TI. YOU CAN SET UP YOUR SCREEN WITH PROVIDED MENU'S.

EXTENDED BASIC: LES WAS BACK AT THIS MONTH WITH A PROGRAM TO CONVERTS METERS TO FEET. YOU SHUTTER BUGS WOULD LOVE THIS ONE. YOU CAN TYPE IN THAT METER SCALE YOU ALWAYS FIND LISTED IN A PHOTO BOOK, TYPE THEM IN THE DATA STATEMENTS OF THE PROGRAM, AND THE PROGRAM WILL CONVERT THEM AND PRINT THEM OUT IN FEET. THE PRINT OUT IS CONDENSED SO YOU CAN SLIP THEM INTO YOUR POCKET AND NO MORE CONVERSIONS FOR DEPTH OF FIELD FOR THOSE FOCAL LENGTH SETTINGS.

THATS ALL FOR THE NOV MEETING. NEXT MEETING ON THE 15 OF DEC. DON'T FORGET TO BRING A LITTLE SNACK FOR OUR HOLIDAY CELEBRATION.

DENNIS LIKENS

TI-CHIPS (15 DEC 1990)
DENNIS LIKENS

THE 15TH CHIPS MEETING COMMENCED AT 10:15 BY BEING CALLED TO ORDER BY PRES MATT ANDEL. THE READING OF THE NOVEMBER MINUTES WERE COMPLETED AND APPROVED BY YOURS TRULY. THERE WERE AROUND 26 PEOPLE ON HAND AT THE MEETING AND ENJOYED ALL SORTS OF HOLIDAY GOODIES BROUGHT IN BY THE MEMBERS. ONLY A DENTIST COULD WISH FOR SUCH A WIDE ASSORTMENT OF TASTEFUL TREATS.

TREASURE'S REPORT: LIN SHAW REPORTS WERE BACK IN THE 4 DIGIT RANG OF FUNDS. FOR THE MONTH OF DEC WE TOOK IN \$80 FOR MEMBERSHIPS, \$15 FOR THE RAFFLE, \$19.25 FROM THE LIBRARY, \$3 FROM THE TAPE/MODULE LIB. \$4.95 INTEREST AND PAID OUT \$45.21 FOR THE NEWSLETTER. FINAL STANDING

\$1050.45
MEMBERSHIPS, TAPE/MOD LIBRARY: JOHN PARKEN REPORTED 4 MEMBERSHIPS EXPIRED OR DUE TO EXPIRE BY END OF DEC. WE HAVE AROUND 47 AT THE TIME OF THIS WRITING. A REMINDER, JOHN HAS MODULES TO BE CHECKED OUT OF THE LIBRARY. \$3 IS THE COST, \$1 TO RENT, \$2 FOR DEPOSIT WHICH YOU GET BACK WHEN YOU RETURN YOUR MODULE. RENTING IS FOR 1 MONTH. JOHN ALSO REPORTED THAT RON WOLCOT SENT HIM A PROGRAM CALLED "CGS", IT WILL TAKE THOSE 2 SECTOR GRAPHIC PIC'S AND FORMAT THEM TO TIPS FORMAT, ALSO RON IS COMING OUT WITH TIPS V1.8. THIS GUY REALLY HAS GIVEN US A GREAT PROGRAM FOR NOTHING IN RETURN. JOHN TOOK OUT AN ADD IN A LOCAL PAPER CALLED HOLIDAYLAKES TO REACH SOME OF THOSE "CLOSET 99ER'S".

DISK LIBRARY: HARRY HOFFMEN REPORTED THE LIBRARY IS DOING WELL. HE ALSO RECONIZED DEANNA SHERIDAN FOR SOME OF HER RECOMMENDATIONS FOR TIPS IS TO BE USED IN THE LATEST VERSION. REALLY LOOKS LIKE THIS PROGRAM IS REALLY MOVING WOULDN'T YOU SAY DEANNA? (HARRY)

GLEN WOULD LIKE TO THANK WHOEVER SUBMITTED TWO OF HIS "2LINERS" TO MICROPENDIUM. THERE WAS A DV80 FILE COPIER IN THE NOV ISSUE AND A DISK LIBRARY "DLIB" UTILITY IN THE DEC ISSUE. THESE PROGRAMS ARE CALLED "2LINERS" AND ARE WRITTEN BY TICHIP'S VERY OWN, GLEN BERNASEK. GLEN REPORTED THAT HE RECENTLY PURCHASED PC XFER. HE SHOWED USE SOME OF IT'S RESULTS WHERE HE TOOK THE DATA FROM HIS LOTTO PROGRAM, TOOK IT FROM A TI DISK, XFER'D IT TO A MSDOS DISK, TOOK IT TO WORK, READ THE DATA INTO QUATRO, THEN PRINTED IT OUT. THE RESULT WAS A BAR GRAPH SHOWING HOW THE LOTTO WAS MOVING COMPLETE WITH TEXT AND FIGURES. THIS PROGRAM CAN BE HAD FROM FRED MOORE, 7730 EMERSON AVE, LOS ANGELES CA 90045 FOR THE COST OF \$36.40. THIS INCLUDES THE UTILITIES DISK. YOU DO NEED DOUBLE DENSITY DRIVES.

DEMO'S: VIRGIL THOMASON SHOWED US A PROGRAM HE WROTE THAT KEEPS TRACK OF BOOKS OF TICKETS SOLD. THIS PROGRAM WILL KEEP TRACK OF WHO SOLD HOW MUCH, TOTAL THEM AND EVEN PRINT THEM OUT.

EXTENDED BASIC: LES KEE SHOWED US HOW TO GET 40 COL MODE ON THE SCREEN. THERE WERE A TOTAL OF 4 PROGRAMS IN ALL THAT COULD BE MERGED INTO OTHERS TO GET THE 40-COLUMN RESULT WE TOOK THAT TIME TO SPEAK OF NEXT MONTHS ELECTIONS, EXPLAINED JUST WHAT EACH JOB REQUIREMENTS WERE. HOPE EVERYONE TURNS OUT FOR THE ELECTION. MATT WON THE RAFFLE OF 11 DISKS. RON FROM RAMCHARGED COMPUTERS PASSED OUT A CUSTOMER PRICE LIST.

SEE YA AT THE FEB 16 MEETING.

EXECUTIVE NOTES - NORTHCOAST
BY STEVE BAGSTAD

I PERSONALLY MISSED THE DECEMBER MEETING, BUT WILL PASS ON A FEW NOTES FROM THOSE PRESENT. WE HAD A BIT LARGER TURNOUT THAN NORMAL WITH ABOUT 28 PEOPLE PRESENT. WE SEEM TO HAVE SURVIVED OUR LATEST "OFFICER" CRISIS WITH THE CHANGES TO OUR LINEUP BEING MARTIN SMOLEY TAKING ON MEMBERSHIP AND BERNIE ZUCKERMAN TAKING OVER SECRETARY (BOTH HAD BEEN WITH CHUCK POULIN). I'LL STILL CONTINUE TO SEARCH FOR A NEWSLETTER PERSON FOR DEANNA FOR WHEN SHE REALLY CAN'T TAKE IT ANY MORE! THANKS FOR YOUR WORK, CHUCK.

WE ALSO PRESENTED "THANK-YOU" PLAQUES TO MARTY AND DEANNA FOR THEIR YEARS OF EFFORT ON BEHALF OF THE GROUP. THE PROGRAM WAS WES RICHARDSON WITH AN ASSEMBLY LANGUAGE DEMO - I'M NOT QUITE SURE I UNDERSTOOD SECOND HAND WHAT EXACTLY WAS COVERED, BUT AM SURE THE ATTENDEES SAW SOME NEAT THINGS. THANKS, WES.

FOR NEXT MONTH'S MEETING, DEANNA WILL DO A TIMELY DEMO OF DOING ONE'S TAXES WITH MULTIPLAN. SHE'S BEEN HARD AT WORK ON THE SUBJECT, AND THIS PROMISES TO BE USEFUL TO MOST OF US SINCE IT'S RATHER TOUGH TO AVOID TAXES?!

ON THE NEWS FRONT, I HAVE RECEIVED TWO NEW ITEMS. ONE IS FROM ASGARD, ANNOUNCING DETAILS OF THEIR MIDI MASTER HARDWARE/SOFTWARE FOR ELECTRONIC MUSICAL INSTRUMENTS (SOUNDS TRULY AMAZING AT ONLY \$45 RETAIL!) AND INFORMATION ON THEIR MOUSE AND EGI(EXTENDED GRAPHICS INTERFACE), WHICH PLUGS INTO THE SIDE OF THE CONSOLE. PERSONALLY, IT DOESN'T MAKE SENSE TO ME TO SPEND \$250 RETAIL FOR THE LATTER PRODUCT WHEN A GENEVE IS NOT MUCH MORE EXPENSIVE AND ALSO GETS ONE IMPROVEMENTS; BUT I'LL HAVE THE CATALOG WITH ME AT THE NEXT MEETING FOR ANYONE TO SEE.

THE OTHER ITEM IS A LETTER FROM A FORMER TI'ER WHO WANTS TO SELL HIS SOFTWARE; HE IS SELLING IT "POT LUCK" AT \$2/DISK PLUS POSTAGE, AND ALSO WANTS TO SELL THE PLATO SERIES EDUCATIONAL PROGRAMS. CONTACT ME IF YOU WANT MORE INFO.

FINALLY, I'D LIKE TO ECHO A COMMENT IN THE DECEMBER NEWSLETTER ABOUT SEEING WHAT'S AVAILABLE IN OUR LIBRARY CATALOG. I'M EMBARRASSED TO REPORT THAT WITH MY WORK ON MULTIPLAN TUTORIALS, I DISCOVERED TO MY CHAGRIN THAT I'VE HAD ON DISK FROM THE LIBRARY (I THINK), BUT NEVER USED UNTIL ABOUT 1 WEEK AGO!!! A PACKAGE OF MP UTILITIES THAT GIVES ONE PRETTY DECENT PRINTER CONTROL FROM WITHIN MP- WITH MINIMAL AGONY, I WAS ABLE TO MAKE ONE OF MY WORKSHEETS INCORPORATE SECTIONS WITH WIDE, COMPRESSED, AND STANDARD CHARACTERS. THE RESULTS WERE QUITE NICE, AND I'LL SHOW THAT AT NEXT MEETING (IF DEANNA DOESN'T SHOW IT).

SEE YOU ON JANUARY 19TH!!

TUTORIAL 2.0 BY STEPHEN S. BAGSTAD
NORTHCOAST 99'ERS - DECEMBER 27, 1990
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AS WITH MARTY SMOLEY'S TI-BASE ARTICLES, I AM RESERVING COPYRIGHT ON THIS MATERIAL. I WILL ALLOW THE COPYING OF IT BY ANYONE UNDER THE FOLLOWING CONDITIONS: (1) IT MUST BE COPIED IN ITS ENTIRETY WITH NO CHANGES, (2) IF RETYPED, CREDIT MUST BE GIVEN TO MYSELF AND THE NORTHCOAST 99'ERS, AS ABOVE, AND (3) THE LAST MAJOR CONDITION IS THAT THERE MAY NOT BE ANY PROFIT DIRECTLY INVOLVED IN THE COPYING OR TRANSFER OF THIS MATERIAL. IN OTHER WORDS, CLUBS CAN USE IT IN THEIR NEWSLETTERS AND YOU CAN GIVE A COPY TO YOUR FRIENDS AS LONG AS IT'S FREE.

LATEST MULTIPLAN (MP) NEWS

ONE OF THE FASCINATING THINGS ABOUT TEACHING, OR DOING CRAZY THINGS LIKE WRITING TUTORIALS, IS THAT THE WRITER/TEACHER INVARIABLY LEARNS AT LEAST A FEW THINGS IN THE PROCESS. SINCE MY FIRST ARTICLE LAST MONTH, I HAVE READ ENOUGH COMMENTS TO GET ME TO STRONGLY URGE ANYONE RUNNING MP ON A 99/4A TO PROMPTLY ORDER THE \$10 MP 4.0 UPGRADE FROM RAG SOFTWARE, 1032 CHANTENAY DRIVE, GLOUCESTER, ONTARIO, CANADA K1C 2K9. I FEEL COMFORTABLE RECOMMENDING THIS SIGHT UNSEEN BY ME DUE TO THE UNANIMOUS GLOWING COMMENTS ABOUT IT IN MANY SOURCES. ANOTHER INTERESTING DEVELOPMENT NEW TO ME WAS THE SLICK PRINTER CONTROL POSSIBLE IN OUR SPREADSHEETS, IN A VERSION THAT ACTUALLY DATES BACK TO 1985!! THIS, FOR EXAMPLE; LET ME TYPE A LARGE PRINT HEADING, STANDARD PRINT DATE, COMPRESSED PRINT BUNCHES OF DATA, AND STANDARD PRINT FILENAME REFERENCE AT BOTTOM. WE'LL GET INTO THAT AT A

RATHER LATER TIME; IF YOU CAN'T WAIT, GIVE ME A CALL IF YOU MUST.

FIRST EXAMPLE (CON'T.)

START UP THE PROGRAM AGAIN WITH MODULE/DISK (DISK GENEVE). THE BOTTOM (STATUS) LINE SHOULD SHOW TEMP (OUR INITIAL FILENAME), AND WE'LL BE READY TO "SELECT OPTION OR TYPE COMMAND LETTER". LET'S BEGIN BY LOADING IN OUR LITTLE SHEET FROM LAST TIME, WHICH WE NAMED UTILITY. HIT "T" FOR TRANSFER, "L" FOR LOAD, AND TYPE UTILITY TO LOAD IT FROM DRIVE 1 (PUTTING YOUR DATA DISK THERE FIRST). IF YOU HAVE MORE THAN 1 DRIVE, YOU CAN LEAVE YOUR PROGRAM DISK IN #1 AND USE "T", "O" FOR OPTION, TAB (CT-A, 2, OR I), AND TYPE DSK2 (OR OTHER DRIVE NUMBER) FOR SETUP. FROM THEN ON, ALL SAVES/LOADS WILL BE DONE USING THAT DISK. DISK 1 IS USED IF THERE IS NO ENTRY THERE. NOTE: IF YOU MAKE A MISTAKE IN ENTERING A COMMAND, YOU CAN ALWAYS BACK OUT OF IT WITH CT-C!

IF EVERYTHING HAS COOPERATED, YOU SHOULD BE LOOKING AT THE 4 ROW BY 4 COLUMN SHEET WE FINISHED WITH IN THE FIRST ARTICLE. YOU MAY NEED TO KNOW THAT SAVING AND LOADING IS CASE SENSITIVE; THAT IS, IF YOU CALLED THE FILE "UTILITY" AND TELL MP TO LOAD "UTILITY", IT WON'T WORK. IT'S PROBABLY EASIEST TO USE ALL CAPITAL LETTERS/NUMBERS FOR FILE NAMES TO AVOID THIS CONFUSION, BUT MP WILL ALLOW EITHER AS LONG AS YOU ARE EXACT.

LET'S MAKE OUR SHEET LOOK A BIT NEATER. YOU MAY HAVE NOTICED THAT WE DON'T KNOW WHAT THE NUMBERS WE HAVE IN FRONT OF US MEAN. WITH THE CURSOR IN R1C1, SELECT "I" FOR INSERT, "R" FOR ROW, AND ENTER TO INSERT 1 ROW BEFORE THE PRESENT ROW #1. WHEN FINISHED, WE'LL HAVE A BLANK #1 ROW; THE FORMER #1 ROW WILL NOW BE #2, AND SO ON. OUR SUM IS NOW IN R5C4, NOT R4C4 AS BEFORE; NOTICE THE SUM IS STILL PERFORMED CORRECTLY. IN R1C1, SELECT "A" (ALPHANUMERIC), AND TYPE "MONTH"; ARROW KEY TO R1C2 WITHOUT HITTING ENTER, AND TYPE "KWH". NOTICE THAT THE MESSAGE LINE READS "ALPHA/VALUE:", AND THAT BY MOVING AROUND THE SHEET WITH ARROW KEYS MEANS WE DON'T HAVE TO CONSTANTLY HIT "A" FOR ALPHANUMERICS. PUT "DAYS" INTO R1C3, AND "COST" INTO R1C4. NOW WE CAN SEE WHAT THE NUMBERS REPRESENT BY THESE NEW COLUMN HEADINGS. WHILE WE'RE AT IT, YOU CAN SEE THAT THERE IS LOTS OF SPACE BETWEEN THE MONTHS IN C1 AND THE KWH IN C2. THAT'S CAUSED BY TWO THINGS, BOTH OF WHICH WE CAN CONTROL: COLUMN WIDTH AND JUSTIFICATION. WITHOUT ANY OTHER ACTION, MP SETS ALL COLUMNS TO A STANDARD, OR "DEFAULT", WIDTH OF 10 CHARACTERS. LET'S CHANGE C1 TO A WIDTH OF 6: FROM ANYWHERE IN C1, HIT "F" FOR FORMAT, "W" FOR WIDTH, AND TYPE IN "6" REPLACING THE "D" FOR DEFAULT NORMALLY USED BY MP. IN SHORT ORDER, C1 SHOULD BECOME ONLY 6 CHARACTERS WIDE. LET'S ALSO CHANGE THE DEFAULT JUSTIFICATION, OR THE WAY THE ENTERED ITEMS LINE UP. STANDARD FOR ALPHA INFO IS LEFT SIDE JUSTIFIED, NUMERIC IS RIGHT SIDE. FROM ANYWHERE ON THE SHEET, TYPE "F" FOR FORMAT, "C" FOR CELLS, "C1" TO TELL MP TO MAKE THIS CHANGE FOR EVERYTHING IN C1, TAB, AND "C" FOR CENTER JUSTIFY. THIS WILL CAUSE THE COL. HEADING "MONTH" AND EACH MONTH ENTRY (JUL, AUG, SEP) TO APPEAR CENTERED IN THE DEFINED WIDTH. YOUR SHEET SHOULD NOW LOOK LIKE THIS:

	1	2	3	4
1	MONTH KWH	DAYS	COST	
2	JUL	898	30	114.17
3	AUG	684	30	87.7
4	SEP	781	32	100.09
5				301.96

USING THE METHODS JUST OUTLINED, CENTER ALL ENTRIES IN

TI TRICKS

by WESLEY R. RICHARDSON
NORTHCOAST 99ERS, CLEVELAND, OH

BACKUPS When you are writing any program or document on any computer, it is a good practice to save your work every 15 minutes. If the power goes off or if the computer locks up, you will only lose the last fifteen minutes of work. I also make it a practice that when I finish a session on the computer that I first save the document or program to two different disks and then print out a listing of it. If something should happen to the disks, retyping the information is a lot faster than creating the material from memory.

TI-WRITER If you are using two different files and combining information, when you do a LoadFile (LF) or SaveFile (SF), you can put both filenames on the prompt line and TI-W will only use the first name. For example, DSK1.FILE1 DSK1.FILE2. By doing this you don't need to remember the other file name or retype it when you are finished with FILE1. If you want to insert or delete several spaces on sequential lines for formatting purposes such as a table of numbers, it can be done quite easily. First put a character which you haven't used anywhere else such as : on each line at the point that you want to insert or delete spaces. Turn off word wrap with CTRL O. Then do a ReplaceString (RS) using the form /:~~~~/ to add spaces or the form /:~~~~/^/ to delete spaces. The replace string is also useful for removing the nonprinting characters such as CR or LF. The CTRL U function will work in the command line the same way it is used within a document to access the ASCII characters from 1 to 31.

EXTENDED BASIC While developing a new program, use line 90 REM DSK1.PROG001 at the start of the program. Each time you save the program, do so by typing 90 then FCTN X. Press (ENTER) then FCTN 8 for redo. Delete the 90 and press enter and your program will be saved to disk. Press FCTN 8 again and change to DSK2 to save to a second disk. Do 90 FCTN X again and increment the name to PROG002. By doing this, if the last changes you make to the program created new problems, then you can go back to the previous revision. When your program is done, delete line 90 and save the program. Save the program with a different name using "DSK1.PROGM",MERGE format. Then type NEW, then MERGE "DSK1.PROGM". Then save the program to two disks using the final name.

DV80APPEND

by WESLEY R. RICHARDSON
NORTHCOAST 99ERS, CLEVELAND, OH

The Extended BASIC program, DV80APPEND, will append a Display Variable 80 (DV80) format file to the end of an existing DV80 file. One purpose of this utility program is to combine files which are too large for them to both be loaded into the TI-Writer Editor.

Since the TI-Writer Editor uses the last line of the file to store the margin and tab settings, you may wish to load the appended to file using the Editor/Assembler Editor and then save the file back to disk to remove the tab settings line. The only caution using DV80APPEND is that if the first character of a line has an ASCII value greater than 127, then that line will not be included in the output file.

The program works best with the input file on one disk drive and the output file on another disk drive because the disk is accessed for each input and output line.

```
100 REM DV80APPEND
110 REM WESLEY R. RICHARDSON, DECEMBER,
    1990
120 REM NORTHCOAST 99ERS, CLEVELAND, OH
130 PRINT "DSKX. FILE TO ADD?"
140 INPUT " ":F1$
150 PRINT "DSKX. APPEND TO FILE?"
160 INPUT " ":F2$
170 OPEN #1:F1$,INPUT
180 PRINT "READING ";F1$
190 OPEN #2:F2$,APPEND
200 LINPUT #1:W$
210 IF EOF(1)THEN 260
220 IF ASC(W$)>127 THEN 260
230 N=N+1
240 PRINT #2:W$
250 GOTO 200
260 PRINT "CLOSING ";F1$
270 CLOSE #1
280 PRINT "CLOSING ";F2$
290 CLOSE #2
300 PRINT N;"LINES ADDED"
310 END
```

901215WR

NorthCoast 99'ers User Group

By *Martin A. Smoley*

6149 Bryson Drive
Mentor, Ohio 44060

To start with, I must say that I am sorry that I could not make it to the October meeting. As it seems the case for many of our members, I was required to work that day. I hope you all had a good time at the meeting.

Disk Library

Additions

As many of the members who attend the meetings know, there are quite a few new disks which have been added to the library. If you aren't aware of this information, I would like to fill you in on what's happening. The new disk catalog sheets for freeware or fairware now run through ZZ97 and AAA93. The new disks contain a large number of games, quite a few TI-Artist Fonts and Borders and many Graphics items. We also have the newest release of TIPS, version 1.7. If you check your highest ZZ numbers, you can find out how far behind your catalog pages are.

What can you do?

Any member who discovers that he or she is way behind in the catalog pages and would like a current NorthCoast freeware listing can send me two (2), twenty-five cent postage stamps and I will send him or her the complete freeware list. It's as easy as that.

Thank You
For
The Plaque

If you did not attend the December meeting, Deanna and I were each presented with plaques as a token of thanks for the many years of service we have given to the NorthCoast 99'ers. I would like to take a few lines to thank everyone for the great plaque and the recognition for the effort I have put into our club. Doing the things necessary to keep our club going (and I have not labored alone) has been a lot of work, but it has also been a lot of fun and a great learning experience. During the time I have been involved with our club, I have learned more about computers in general than I could have ever learned on my own. Our club members have challenged me with the work that needed to be done and helped me with the technical advice to complete the tasks at hand. I do not believe it is possible for someone to learn anything new unless there is a task which must be accomplished. When you are given a task which you cannot do, or cannot do adequately, you must learn new skills and techniques in order to do the job. By this means the club has helped me as much or more than I have helped the club. So I'd like to thank everyone for their enthusiasm of my efforts and I hope we have many additional years together as the NorthCoast 99'ers.

Thanks Again. Marty.

I know this might seem odd, but I thought I'd include some of the Fonts I have available with my TI and the Canon LBP-8mkIII. I would like everyone to see that my TI is alive, well and doing new things, not sitting in the closet. *Good Luck. Marty.*

Dutch-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
Bookman-Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
CenturySchbk-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
Swiss-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
Swiss-Narrow-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
avantGarde-Demi	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
Calligraphic-Bold	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789
Chancery-Medium	ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789



DMS
DEANNA SHERIDAN
20311 LAKE ROAD, ROCKY RIVER, OH 44116

COLOR PRINTERS AND THE TI DEANNA SHERIDAN - NORTHCOAST 99ERS

STAR MICRONICS HAS REDUCED THE PRICE OF THEIR MX1000 RAINBOW PRINTER TO \$199 IN ADS IN COMPUTER SHOPPER. IN ADDITION, THE CPS (CHARACTERS PER SECOND) HAVE BEEN INCREASED TO 225 FROM THE PREVIOUS 144. THIS PRINTER CAN USE BOTH THE 4-COLOR RIBBON AND THE STANDARD RIBBON.



THE STAR XR100 IS STILL SELLING FOR ABOUT \$325 WITH THE COLOR KIT GOING FOR \$45. CITIZEN ALSO ADVERTISES PRINTERS WITH COLOR KITS AT A REASONABLE PRICE. EPSON IS JUST NOW INTRODUCING PRINTERS WITH COLOR KITS (ALTHOUGH THE PRICE IS HIGHER THAN THE STAR OR CITIZEN BRANDS), AND I AM NOT SURE THAT I HAVE SEEN ANY PANASONICS WITH COLOR KITS.

THUS, IF YOU ARE IN THE MARKET FOR A NEW PRINTER AND CAN AFFORD THE APPROXIMATELY \$50 ADDITIONAL OVER THE STANDARD MODEL, I WOULD HIGHLY RECOMMEND GETTING THE COLOR.

BUT, YOU SAY, WHAT CAN I DO WITH THE COLOR FEATURE AFTER I GET IT? AS ALWAYS, THE HARDWARE HAS TO COME BEFORE THE SOFTWARE AND SEEMS TO BE ALWAYS LAGGING BEHIND. WE DO HAVE SEVERAL PROGRAMS THAT WILL TAKE ADVANTAGE OF COLOR, MOSTLY GRAPHIC PROGRAMS (THAT IS WHERE THE FUN IS ANYWAY). ROGER MERRITT OF COMPRODINE HAS BOTH COLOR CARD AND COLOR FLYER WHICH WILL PRINT YOUR CARDS AND FLYERS IN COLOR. TI-ARTIST PLUS WILL DUMP A COLORED PICTURE.

BUT, THE MOST VERSATILE COLOR PRINTING PROGRAM THAT ALL OF US HAVE IS THE OLD RELIABLE TI-WRITER OR FUNNELWEB AND IT'S TRANSLITERATE FEATURE. YOU CAN ADD COLORED PICTURES TO YOUR LETTERS OR CHANGE A SINGLE WORD TO A DIFFERENT COLOR AND BACK AGAIN IF YOU WISH.

TO REVIEW THE TRANSLITERATE COMMAND, IT ALLOWS YOU TO CHANGE ANY CHARACTER ON THE KEYBOARD TO ANOTHER BY A COMMAND SIMILAR TO:

```
.TL 60:40,40,67,41,41,6
```

60 IS THE ASCII NUMBER FOR THE LEFT ARROW "<" (YOU FIND THE ASCII CHARACTER NUMBERS IN YOUR PRINTER MANUAL). THUS, IF I INSERTED AN < IN A SENTENCE, ALL THE REMAINING WORDS (EVERYTHING YOU SEE HERE), WOULD BE PRINTED IN GREEN

UNTIL I CANCELLED THE COMMAND. ANOTHER TRANSLITERATE COMMAND SIMILAR TO:

```
.TL 62:40,40,67,41,41,0
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WOULD RETURN THE PRINTING TO BLACK. THE COLOR COMMAND IS THE SAME UNTIL THE LAST NUMBER. THUS, TO INITIALIZE, YOU NEED THE 40,40,67,41,41. THE LAST NUMBER, WHICH IS 0 THROUGH 6, STANDS FOR: BLACK (0), RED(1), BLUE (2), VIOLET (3), YELLOW (4), ORANGE (5), AND GREEN (6).

THIS ENTIRE PAGE HAS BEEN PRINTED THROUGH FUNNELWEB, GRAPHICS AND ALL. HAD I BEEN ABLE TO PRINT IT IN COLOR, THE GRAPHICS AT THE LEFT AT THE TOP WOULD BE GREEN; DMS, ETC. WOULD BE RED, AND AQUARIUS WOULD BE BLUE. ALSO, AT ANY POINT THAT I HAVE REFERRED TO A SPECIFIC COLOR WITHIN THE TEXT, IT WOULD HAVE BEEN PRINTED IN THAT COLOR.

I WILL TRY TO TAKE YOU THROUGH THIS STEP-BY-STEP. IT TAKES SOME TIME, AND I HOPE YOU WILL NOT GET DISCOURAGED, AS THE MORE YOU DO IT, THE MORE ROUTINE IT GETS AND IS NOT THAT DIFFICULT. BEFORE WE START, I WOULD LIKE TO MENTION THAT I HAVE SEVERAL SO-CALLED DESKTOP PUBLISHING PROGRAMS FOR MY IBM COMPATIBLE, AND I DO NOT NECESSARILY FIND THEM ANY EASIER IN THEIR OWN WAY THAN THIS. I FIND I HAVE TO PRINT OUT JUST AS MANY DRAFT COPIES AND GO THROUGH JUST AS MANY REVISIONS AS I HAVE DONE ON MY TI.

IN ORDER TO DUPLICATE THIS PAGE, YOU WILL NEED ONE OF THE NEWER PRINTERS THAT WILL PERFORM A "REVERSE FEED TO TOP OF FORM". YOU WILL ALSO NEED ONE OF THE SEVERAL PROGRAMS AVAILABLE TO TRANSFORM TI-ARTIST INSTANCES TO TI-WRITER FORMAT. WE HAVE IN OUR LIBRARY THE ONE WRITTEN BY ANN DHEIN SEVERAL YEARS AGO. ALSO ON THIS DISK IS AN EXCELLENT TUTORIAL IN USING GRAPHICS WITH TI-WRITER. THERE WAS A TI-ARTIST COMPANION DISK PUT OUT BY TRIO+ SOFTWARE (WHICH I AM NOT SURE IS STILL AVAILABLE) WHICH WAS AN ENHANCED VERSION OF THE DHEIN PROGRAM AND ALSO DID ONE-CHARACTER HIGH ARTIST FONTS FOR USE IN TI-WRITER. THE ONE THAT I USED FOR THE ABOVE EXAMPLES CAME FROM THE PICTURE-IT DISK (\$10) BY RODGER MERRITT.

RODGER'S PROGRAM ALLOWS YOU TO SELECT DOUBLE DENSITY PRINTING WHICH GIVES A MUCH SHARPER PICTURE. EACH OF THE GRAPHICS AT THE TOP OF THE PAGE TOOK ABOUT 20 MINUTES EACH TO CONVERT. THE LARGER THE GRAPHIC, THE LONGER IT TAKES. IF YOU WANT TO DO SOME SPECIAL LETTERHEADS OR HEADINGS, YOU SHOULD GET THEM READY AHEAD OF TIME AND CHOOSE ITEMS YOU WOULD LIKE TO USE OVER AND OVER. BECAUSE THE ABOVE ARE TWO SEPARATE CONVERSIONS, I COULD DO ANOTHER FOR THE LEFT GRAPHIC DEPENDING ON THE SEASON, AND KEEP THE RIGHT GRAPHIC FOR YEAR AROUND USE, ONLY CHANGING THE COLOR, IF DESIRED.

AFTER I CONVERTED THE TWO GRAPHICS, I COMBINED THEM INTO ONE FILE AND SENT A REVERSE LINEFEED TO TOP OF PAGE AT THE END OF THE LEFT GRAPHIC. I HAD CALCULATED HOW MANY SPACES DOWN I WOULD NEED THE RIGHT GRAPHIC AND THE RIGHT AND LEFT MARGINS I WOULD NEED. AFTER PRINTING THE LEFT SIDE, THE PRINTER REVERSED ITSELF AND LINESPACED DOWN TO PRINT THE RIGHT GRAPHIC. THEN ANOTHER REVERSE LINEFEED TO TOP OF FORM COMMAND WAS SENT.

THIS FILE WAS QUITE LARGE, AND I WOULD NEVER HAVE BEEN ABLE TO USE ANY TEXT BEFORE RUNNING OUT OF MEMORY. THUS, AT THE END OF THIS FILE, I USED AN IF DSK1.HEADER COMMAND THAT TOLD THE FORMATTER TO OPEN AND USE ANOTHER FILE WHICH CONTAINED THE TEXT PORTION.

IN PREPARING TEXT, I TOOK A COUPLE OF EXTRA STEPS TO FACILITATE THE FINAL PRINTING. IN ORDER TO PRINT GRAPHICS, YOU CHANGE THE FORMATTER COMMAND FROM PIO.LF TO PIO.CR. IF YOU JUMP DIRECTLY FROM GRAPHICS TO TEXT AND THE TEXT IS NOT FORMATTED CORRECTLY, EACH LINE WILL OVERWRITE ITSELF. THUS, I PREPARED MY TEXT AND RAN IT THROUGH THE FORMATTER WITH THE "PRINT TO DISK" OPTION (CHANGE THE PIO.LF TO DSK1.FILENAME) FEATURE BEFORE I ADDED MY GRAPHIC FILE FOR THE AQUARIUS FIGURE.

I CALCULATED THE NUMBER OF LINES DOWN I WOULD HAVE TO LINEFEED BEFORE MY FIRST LINE OF TEXT. TO GET THE HEADING TO CENTER (DOUBLE WIDE, DOUBLE HIGH), I USED AN LM 0 AND RM 40 WHICH IS HALF WHAT I WOULD HAVE USED TO CENTER REGULAR TEXT.

EITHER THROUGH TRANSLITERATE COMMANDS OR THRU CTRL U CODES, YOU CAN SET THE DOUBLE HIGH, DOUBLE WIDE AND THEN CANCEL SAME. NEXT, I RESET MY MARGINS TO LM 0; RM 59 TO FORMAT FOR NEWSPAPER COLUMNS AND ALSO SET THROUGH TRANSLITERATE OR CTRL U CODES THE CONDENSED PRINT COMMAND. WHEN YOU TRANSFER YOUR GRAPHIC FROM ARTIST INSTANCE TO TI-WRITER FORMAT, THE PROGRAM TELLS YOU HOW MANY LINES AND HOW MANY COLUMNS IT IS TRANSLATING. THUS, IF YOU JOT THAT DOWN, YOU KNOW ABOUT HOW MANY ROWS DOWN YOU WILL HAVE TO LINEFEED TO INSERT THE GRAPHIC. YOU HAVE TO REMEMBER THAT GRAPHICS RUN 8 LINES PER INCH COMPARED TO THE 6 LINES PER INCH FOR TEXT. THAT IS WHY YOU CANNOT PRINT THEM SIDE-BY-SIDE AT THE SAME TIME.

MY TEXT WAS TYPED, RUN THRU THE FORMATTER, AND THE NEW FILE LOADED INTO TI-WRITER. I KNEW APPROXIMATELY HOW MANY LINES I WANTED ON A ROW, AND AT ROW 55 I INSERTED ANOTHER REVERSE FEED TO TOP OF FORM. IT SPACED DOWN THE DESIGNATED LINEFEEDS AND PRINTED THE AQUARIUS FIGURE. AGAIN, I REVERSED TO TOP OF FORM, SPACED DOWN A SPECIFIED NUMBER OF LINEFEEDS, INSTRUCTED THE PRINTER TO SHIFT TO THE RIGHT AND PRINTED THAT TEXT.

MOST OF THE NEWER PRINTERS SPORT A VARIETY OF FONTS WHICH CAN ALSO BE INTERCHANGED THROUGHOUT THE PAGE FOR ADDED INTEREST.

BELIEVE ME, IF YOU START A PROJECT LIKE THIS, YOU LEARN SOME TRICKS. THIS IS AN ARTICLE I HAVE BEEN WANTING TO WRITE FOR A LONG TIME, BUT WASN'T SURE IT WOULD WORK OR HOW TO DO IT. GRAB YOUR TI-WRITER MANUAL, GET THE DISK FROM THE

LIBRARY ON USING GRAPHICS WITH TI-WRITER AND SEE WHAT YOU CAN CREATE!

ON THE FIRST PAGE OF THIS ARTICLE, I TOTALLY FORGOT TO INCLUDE TIPS AS ONE OF THE PROGRAMS WHICH USES THE COLOR PRINTER, AND VERY WELL AT THAT. IF YOU THINK YOU WOULD HAVE MORE PROGRAMS FOR COLOR PRINTERS IF YOU HAD AN IBM COMPATIBLE, THINK AGAIN. I ONLY HAVE TWO PROGRAMS OVER THERE FOR COLOR. ONE IS THE NEW PRINTSHOP AND YOUR CHOICES ARE VERY LIMITED. I MUCH PREFER TIPS. THE OTHER IS WORD PERFECT 5.1. SETTING UP A PAGE IN WORD PERFECT 5.1 IS NOT DISSIMILAR TO DOING IT WITH TI-WRITER. HAD I HAD THE TIME, I WOULD HAVE LIKED TO HAVE DONE THE SAME PAGE WITH BOTH PROGRAMS. PERHAPS ANOTHER MONTH, I WILL DO A PAGE WITH WORD PERFECT AND SHOW YOU THAT TI-WRITER CAN DO THE SAME.

PREPARING YOUR TAXES WITH MULTIPLAN DEANNA SHERIDAN - NORTHCOAST 99ERS

AS NOTED BY STEVE BAGSTAD, I WILL BE GIVING THE DEMO AT THE NEXT NORTHCOAST MEETING ABOUT DOING YOUR INCOME TAXES WITH MULTIPLAN. I WOULD LIKE TO GIVE YOU A LITTLE BACKGROUND ON HOW THIS IS DONE, SO YOU WILL HAVE AN IDEA OF WHAT IS GOING ON AT THE MEETING.

YOU MAY OR MAY NOT KNOW THAT THE IRS ALLOWS YOU TO FILE "APPROVED" SUBSTITUTE FORMS INSTEAD OF USING THE PREPRINTED ONES THAT YOU RECEIVE IN THE MAIL EACH YEAR. NEARLY ALL PROFESSIONAL TAXPAYERS USE SUCH FORMS, AND YOU CAN ALSO. YOU CAN USE A COPY OF AN APPROVED FORM FROM A BOOK, OR YOU CAN ACTUALLY SEND IN A COPY OF THE FORM YOU WOULD LIKE TO USE TO THE IRS AND GET APPROVAL. THERE IS AN IRS DOCUMENT WHICH OUTLINES ALL OF THE REQUIREMENTS FOR THESE FORMS WHICH WOULD BE READ BY ANY ONE DESIRING TO CREATE THEIR OWN SUBSTITUTE FORMS.

THE ONLY FORMS OR SCHEDULES WHICH CANNOT BE SUBMITTED ON THE SUBSTITUTE FORMS ARE THOSE WHICH REQUIRE TAXPAYER'S SIGNATURE. THUS, THE 1040 FORM ITSELF WILL HAVE TO BE COPIED OR TYPED ONTO THE ORIGINAL. ALL THE OTHERS CAN BE THE SUBSTITUTE FORMS.

I PICKED UP A BOOK ON DOING BOOKKEEPING AND TAXES WITH LOTUS WHICH ANYONE CAN USE. OF COURSE, THE SAME DESIGN IS POSSIBLE WITH OUR MULTIPLAN.

WE USE A PROGRAM IN MY CPA OFFICE WHICH UTILIZES THE SUBSTITUTE FORMS. I HAVE USED THESE AS A GUIDE FOR CREATING MY FORMS ON MULTIPLAN. ONE OF THE REQUIREMENTS FOR USING A SUBSTITUTE FORM IS THAT EITHER EVERY OTHER LINE NEEDS TO BE UNDERSCORED OR ELSE DOUBLE-LINE RULED COMPUTER PAPER BE USED. WITH THE HELP OF THE TAMP PRINT PROGRAM, I HAVE INCORPORATED UNDERSCORING ON THE PAGE IF YOU HAVE AN EPSON COMPATIBLE PRINTER. I HAVE DONE THE FOLLOWING: FORM 1040, SCHEDULES A, B, C, D, E & SE, FORMS 4562 AND 2441. THUS, I HOPE TO DO A FAIRLY COMPLICATED TAX RETURN WITH MULTIPLAN DOING MOST OF THE WORK FOR ME.

I WILL HAVE DISKS AVAILABLE IF YOU WOULD LIKE TO TRY THIS ON YOUR OWN. THERE WILL BE ALL KINDS OF WARNINGS IN THE DOCUMENTATION THAT I TAKE NO RESPONSIBILITY FOR THE RESULTS. YOU SHOULD ALWAYS DOUBLE-CHECK YOUR MATH. THIS SHOULD BE FUN, ESPECIALLY SINCE PEOPLE SAY THERE ARE NO TAX PROGRAMS FOR THE TI!

I SHOULD MENTION THAT A MR. BILL CHAVANNE OF 4549 ENGLISH AVENUE, FT. MEADE, MD 20755 (301)672-1988 HAS DONE A TAX PROGRAM ON MULTIPLAN FOR SEVERAL YEARS. I BELIEVE HE CHARGES SOMETHING LIKE \$20 FOR FORM 1040 AND THEN AN ADDITIONAL CHARGE FOR EACH SCHEDULE YOU NEED. IF YOU FEEL

YOU NEED A MORE "PROFESSIONAL" VERSION, YOU SHOULD CONTACT HIM.

BY THE WAY, IF YOU TAKE ON A PROJECT LIKE THIS, YOU SURE LEARN HOW TO USE A PROGRAM. I WAS, AND STILL AM, A NOVICE IN MULTIPLAN, BUT I CAN GET AROUND IT MUCH EASIER THAN BEFORE. ALSO, BECAUSE OF THE XTERNAL COPY COMMAND, YOU CAN LINK SEVERAL FILES AND YOU CAN ALSO CREATE A COMPLETE GENERAL LEDGER SYSTEM ON MULTIPLAN FOR A SMALL BUSINESS. PERHAPS IF I GET THE TIME, I WILL TRY TO DO A TEMPLATE FOR THAT LATER ON.

GENIE CONFERENCE WITH IRVIN HOTT OF COLUMBUS
REGARDING SPEECH AND TI CLEARING HOUSE

AS I DID WITH THE CONFERENCE WITH CHRIS BOBBITT, I AM SUMMARIZING THIS CONFERENCE AS MUCH AS POSSIBLE AND UPLOADING THE ENTIRE FILE TO THE FREENET IF YOU DESIRE TO READ IT IN IT'S ENTIRETY.

IRVIN HOTT: WE ARE HOPING TO START A "CLEARINGHOUSE" BBS THAT WOULD MAKE IT POSSIBLE TO EXCHANGE ORIGINAL NEWSLETTER ARTICLES. THE IDEA CAME ABOUT AFTER A MEETING OF OFFICERS AT THE LIMA TI FAIR. WE HAVE HAD A CONSIDERABLE AMOUNT OF DISCUSSION SINCE, AND HOPE TO GET THINGS GOING IF WE GET ENOUGH SUPPORT SOMETIME EARLY IN 1991?

QUESTION: HAS ANYONE SET A PRICE YET?

IRVIN HOTT: WE ARE LOOKING AT UPGRADING THE CURRENT CENTRAL OHIO NINETY-NINER'S BBS TO ADD A HARD DRIVE, CONTROLLER, ETC. WE ARE ASKING \$30 PER USER GROUP FOR THE YEAR. WE ESTIMATE THAT WOULD COVER THE COSTS IF WE GET 25 GROUPS.

QUESTION BY GARY COX: WHAT WOULD THE \$30 GO FOR? ACCESS TO THE BBS FOR THE ARTICLES?

IRVIN HOTT: SO FAR WE HAVE ABOUT \$400 OR SO. GARY, THAT WOULD GIVE ACCESS TO SAY 2 MEMBERS OF THE UG TO DOWNLOAD ANY ORIGINAL ARTICLES ON THE BBS. THAT WOULD ALLOW US TO START UP AND RUN FOR THE FIRST YEAR. WE HAVE PROMISED TO RETURN ANY MONEY IF WE DO NOT GET ENOUGH BY FEBRUARY 1, 1991. ONE OF THE MAJOR CONCERNS FROM GROUPS HAS BEEN THE COST OF DOWNLOAD TIME.

QUESTION BY GARY COX: THAT WAS MY CONCERN...LONG DISTANCE CHARGES. WHAT BAUD RATE WOULD THE BBS BE?

IRVIN HOTT: I AM NOT SURE HOW MUCH CAN BE DONE TO REDUCE THOSE CHARGES. WE ARE ACCESSIBLE THROUGH STARLINK. WE WOULD BE AT 2400, AND I WOULD EXPECT THAT ALL FILES WOULD BE ARCHIVED. WE MIGHT BE ABLE TO WORK SOMETHING OUT AS TO MAILING DOWNLOADS. WE WOULD HAVE TO LOOK AT HOW MUCH TIME IT WOULD TAKE.

BARRY TRAYER: I'M NOT FAMILIAR WITH STARLINK. IS IT AN ALTERNATIVE TO PC PURSUIT?

IRVIN HOTT: I HAVE ALREADY FIGURED THAT UPLOADS COULD BE SENT ON DISK TO KEEP DOWN THE COST. YES, STARLINK IS, I THINK, ABOUT \$1 PER HOUR AND REACHES MANY MORE CITIES THAN PCP. ONE OF THE REASONS FOR GOING TO THE BBS RATHER THAN MAIL IS TO MAKE THE MATERIAL AVAILABLE A LITTLE MORE QUICKLY.

BARRY TRAYER: IF STARLINK IS BETTER, IT MIGHT BE GOOD TO GET THAT INFORMATION OUT TO PEOPLE WHO DON'T KNOW ABOUT IT.

GARY COX: IS THERE ANY MINIMUM CHARGE PER MONTH ON STARLINK AND/OR OTHER RESTRICTIONS?

IRVIN HOTT: I AM STILL USING PCP AS THEIR HANDICAPPED RATE IS STILL PRETTY GOOD. \$30 FOR 90 HOURS. I THINK STARLINK IS ABOUT \$10 PER MONTH MINIMUM. IT HAS BEEN A WHILE SINCE I HAVE SEEN THEIR INFO THOUGH. WE HAVE TALKED ABOUT THE IDEA OF DISTRIBUTING THE NEW FILES BY MAIL, BUT I AM NOT SURE THE TIME IT WOULD TAKE IS WORTH IT. I CAN SEE COPYING LOTS OF DISKS EACH MONTH.

GARY COX: STILL, A BBS FOR A CLEARING HOUSE ON ARTICLES IS BETTER THAN NOTHING AT ALL. WHAT IS THE BBS GOING TO RUN ON (TI OR GENEVE), AS I WAS THINKING ABOUT BAUD RATES ABOVE 2400 AS I CAN HANDLE 192,000 BAUD DOWNLOADING THROUGH MY PC TO GET AS MUCH AS I CAN WHILE ON LONG DISTANCE. EVEN AN MPM 5 MODEM WOULD GIVE BAUD RATES UP TO 4800.

IRVIN HOTT: WE ARE PLANNING TO RUN ON A TI FOR NOW. BUD WRIGHT HAS SAID WE COULD USE HIS SOFTWARE AND THAT WOULD SPEED THE SYSTEM UP SOME TOO.

GARY COX: WOULD THE BBS BE ACCESSIBLE ONLY BY THOSE WHO PAID FOR ACCESS?

IRVIN HOTT: THE ORIGINAL MATERIAL WOULD ONLY BE ACCESSIBLE TO THOSE TO HAD PAID FOR IT. THERE WOULD BE OTHER SECTIONS AVAILABLE TO EVERYONE. WE HAVE HAD A COUPLE OF OFFERS TO SET THE CLEARINGHOUSE UP ON EXISTING BBS' IF WE CANNOT GET IT GOING HERE.

JEFF WHITE: WOULD AUTHORS OR USER GROUPS THAT PROVIDE THE ARTICLES HAVE SPECIAL PRIVILEGES?

IRVIN HOTT: THAT HAS NOT BEEN DETERMINED, BUT IT WOULD SEEM REASONABLE. IF WE CAN GET PEOPLE TO SUBMIT ARTICLES OR CAPTURE OR DOWNLOAD FROM SOMEWHERE ELSE, I THINK THAT COULD BE A BIG PART OF THE SYSTEM. I KNOW I SOMETIMES HAVE TAKEN MESSAGE THREADS FROM BBS', EDITED AND PUT THEM ON THE BBS HERE OR IN FILE FORMAT SO THEY COULD BE DOWNLOADED OR CAPTURED. ONE OF THE PROBLEMS NOW IS THAT WHEN AN ARTICLE IS PUBLISHED IN A NEWSLETTER, IT MAY TAKE 4 OR 5 MONTHS BEFORE IT GETS AROUND TO OTHER NEWSLETTERS. WE ARE HOPING THAT WE COULD CUT DOWN ON THE LEAD TIME CONSIDERABLY.

BARRY TRAYER: ABOUT HOW MANY GROUPS HAVE SIGNED UP SO FAR (OR HAVE EXPRESSED INTENTION TO DO SO)?

IRVIN HOTT: TO ANSWER YOUR QUESTION ABOUT SUPPORT, WE HAVE FINANCIAL SUPPORT FROM ABOUT 5 USER GROUPS PLUS TIGERCUB SOFTWARE. WE HAVE ABOUT 3 OTHER GROUPS WHO HAVE EXPRESSED AN INTEREST. WE HAD SET AN AMOUNT OF \$30 FOR THE FIRST YEAR (ASSUMING 25 GROUPS) AND HAD FIGURED MAYBE \$15 OR SO A YEAR AFTER THAT.

(ED NOTE: THE ABOVE WAS DISCUSSED AT THE LIMA FAIRE LAST SPRING. WE HAVE RECEIVED A GENERAL NOTICE OF WHAT THE COLUMBUS CLUB IS TRYING TO ACHIEVE. WHILE THE CONCEPT IS NICE, I HAVE SOME OF THE SAME RESERVATIONS AS EXPRESSED HEREIN, IE, UPLOAD AND DOWNLOAD TIME. I FIGURE I WOULD HAVE TO GO IN AND UPLOAD ALL OF MY TI-WRITER FILES WHEN I FINISHED THE MONTHLY NEWSLETTER AND THEN WOULD HAVE TO CHECK

IN ONCE OR TWICE A MONTH FOR POSSIBLE DOWNLOADS TO USE IN OUR NEWSLETTER. AM ASSUMING THIS WOULD INCUR CLOSE TO AN HOUR OF LONG DISTANCE CALLS PER MONTH. AM NOT SURE OF THE COST THE CLUB WOULD INCUR EACH MONTH IN ADDITION TO THE \$30 FEE. WE ARE OF THE FORTUNATE FEW THAT HAS A LOT OF ORIGINAL MATERIAL EACH MONTH AND OUR TIME AND EFFORTS WOULD BE MORE BENEFICIAL TO THOSE AT THE OTHER END THAN TO US. I RAN THIS BY THE NORTHCOAST PEOPLE RECENTLY AND DID NOT GET TOO MUCH RESPONSE. I BARELY HAVE TIME TO DEVOTE TO GET OUR NEWSLETTER OUT; DON'T EVEN GET THINGS POSTED ON FREENET I HAVE, LET ALONE COLUMBUS. WOULD BE GLAD TO DISCUSS THIS MORE WITH ANYONE WHO MIGHT HAVE THE DESIRE TO BE OUR DESIGNATED UPLOADER AND DOWNLOADER TO THE COLUMBUS BOARD SHOULD BE JOIN.) DEANNA.

JEFF WHITE: IRWIN, IF I RECALL YOU FROM A PREVIOUS CHICAGO FAIRE, YOU ARE BLIND. OR WAS THAT SOMEONE ELSE?

IRWIN HOTT: RIGHT. I AM BLIND AND AM USING A COUPLE OF DIFFERENT SPEECH SYNTHESIZERS.

BARRY TRAYER: JUDGING FROM YOUR PERFORMANCE THIS EVENING, I THINK YOU AND JIM PETERSON WOULD BE AN IDEAL COMBINATION. HE CLAIMS THAT HE CAN'T TYPE (OR CAN'T TYPE FAST ENOUGH)...BUT, IRWIN, YOU CERTAINLY SEEM TO HAVE THAT SKILL MASTERED!

IRWIN HOTT: BECAUSE I TYPE AWAY AND SOMEONE ELSE'S WORDS COME OUT OF THE SPEECH SYNTHESIZER. I GET SPOILED BY THE LIMA NEWSLETTER BECAUSE I CAN DUMP IT TO DISK AND READ IT. I AM USING FAST-TERM AND DUMPING TO SPEECH OUT THE RS232/2 PORT. I AM USING A SYNTHESIZER FROM B. G. MICRO. IT IS ABOUT A \$69 SYNTHESIZER AND IS NOT VERY CONTROLLABLE AS TO SPEED, ECT. IF I NEED SPEED, I DUMP TO MY BRAILLE 'N SPEAK WHICH HAS ABOUT 200K OF MEMORY AND A SPEECH SYNTHESIZER. THAT IS WHAT I USE TO WRITE ARTICLES, EDIT TI PROGRAMS, ETC. ONCE IN A LONG WHILE I USE TE II AND SOMETIMES I USE TEXT-TO-SPEECH, BUT MOST OF THE TIME I USE THE EXTERNAL SPEECH SYNTHESIZER. I CAN GET CATALOGS FROM ARCHIVER AND DM1000, AND I CAN USE DSKU FAIRLY WELL THANKS TO A MODIFICATION BY JOHN BIRDWELL.

JEFF WHITE: MAYBE GARY BOWSER'S SPEECH PROJECT WILL BE OF USE TO YOU. I DON'T KNOW MUCH ABOUT IT, BUT FROM WHAT HE SAYS, IT REALLY MAKES THE TI SYNTHESIZER SOUND GREAT.

IRWIN HOTT: I CAN'T WAIT TO SEE IT. I WENT TO CHICAGO WITH MONEY IN MY POCKET TO GET THE DISKS, BUT IT WAS NOT READY. ACTUALLY, THE MODULE EXPANDER MIGHT BE OF MORE USE...

JEFF WHITE: I KNOW I WOULD LIKE TO HAVE MORE PROGRAMS THAT USE SPEECH.

IRWIN HOTT: THAT WOULD ALLOW ACCESS TO TEII SPEECH IN XB. THAT WOULD MAKE IT EASY TO ADD SPEECH TO LONG PROGRAMS. I AM NOT ONE TO GET EXCITED ABOUT THE QUALITY OF SPEECH. THE TI SPEECH SOUNDS PRETTY GOOD ALREADY...

BARRY TRAYER: IRWIN, WHAT WOULD BE THE ADVANTAGE OF THAT OVER TEXT-TO-SPEECH?

IRWIN HOTT: I WANT SPEED AND FLELXIBILITY MORE. WITH TEXT-TO-SPEECH YOU ARE LIMITED TO ABOUT A 49 SECTOR PROGRAM. THE DATABASE FILE TAKES UP SO MUCH ROOM IN HIGH MEMORY. THAT MIGHT ALSO GIVE YOU ACCESS TO FULL SPEECH IN ASSEMBLY OR IN JUST ABOUT WHATEVER LANGUAGE YOU ARE RUNNING. I WOULD HAVE LOVED TO HAVE BEEN ABLE TO USE THE TI SPEECH IN MY BBS PROGRAM, FOR EXAMPLE. I USED THE EXTERNAL SPEECH SYNTHESIZER. WHENEVER I WANT THE PROGRAM TO SPEAK, I JUST PRINT TO IT. I HAVE ABOUT 3 DISKS THAT I SEND OUT TO BLIND PEOPLE WHO NEED PROGRAMS, ETC. THAT USE SPEECH. I AM WORKING ON BETTER DOCS FOR THEM AND WHEN I GET THOSE DONE FAIRLY WELL, I WILL UPLOAD THE FILES TO GENIE. I UPLOADED A FILE OF SPEECH STUFF A COUPLE OF YEARS AGO, BUT IT IS SOMEWHAT OUT OF DATE. I WILL FREELY ADMIT THAT THE SPEECH ON A PC WITH THE PROPER SOFTWARE AND HARDWARE IS MORE FLEXIBLE. BUT YOU ARE TALKING ABOUT \$500 FOR HARDWARE AND \$200 TO \$1000 FOR A SPEECH SYNTHESIZER.

JEFF WHITE: GARY BOWSER'S PROJECT SHOULD MAKE IT EASIER FOR PROGRAMMERS TO USE SPEECH, I HOPE. THE WAY TI RECOMMENDED IT TO BE DONE WAS QUITE CUMBERSOME. HE SAYS HE HAS FOUND A BETTER WAY.

IRWIN HOTT. I THINK SO. IT IS A COMBINATION OF UTILITIES FOR BLIND PEOPLE AND SPEECH THAT HAS BEEN AROUND FOR A WHILE.

BARRY TRAYER: I'VE ALWAYS BEEN CURIOUS ABOUT THE 'FLIP-TOP' ON THE SPEECH SYNTHESIZER. I'VE WONDERED EXACTLY WHAT TI'S PLANS FOR FUTURE EXPANSION WOULD HAVE BEEN.

IRWIN HOTT: AS I UNDERSTAND IT, IT WAS INTENDED TO ADD A MODULE SO THAT YOU COULD INCREASE THE VOCABULARY.

BARRY TRAYER: BUT YOU HAVE UNLIMITED SPEECH WITH TEXT-TO-SPEECH AND TE2, SO THAT WOULD HAVE BEEN ONLY FOR XB?

IRWIN HOTT: I THINK IT WOULD HAVE BEEN FOR CALL SAY. ONE OF THE THINGS YOU CAN DO, IS TAKE THE WORDS IN THE SPEAK & SPELL PROGRAM THAT TI SOLD SEVERAL YEARS AGO AND USE THEM IN OTHER PROGRAMS. SORT OF LIKE THE CALL SAY UTILITY THAT WAS ON GT. I MADE A LIST OF ALL OF THOSE WORDS ONCE AND THE RECORD NUMBERS IN THE RELATIVE FILE. I PLAYED AROUND WITH USING THEM IN OTHER PROGRAMS, AND FOUND THAT FAIRLY EASY TO DO.

BARRY TRAYER: IT WOULD BE NICE, THOUGH, TO BE ABLE TO GRAB THE SPEECH DATA FROM PARSEC AND SOME OF THE OTHER MODULES.

AT THIS POINT BARRY THANKED IRWIN FOR BEING GENIE'S ROUNDTABLE GUEST AND THEY CLOSED OFF. REMEMBER, THE ENTIRE TEXT WILL BE ON THE FREENET.

RON CHABOT OF 45 AYERS VILLAGE ROAD, METHUEN, MA 01844-0232 NEEDS HELP WITH A PROGRAM CALLED BUSINESS APPLICATION SYSTEM, COPYRIGHT 1984 BY AMA SOFTWARE. HE HAS VERSION 1.0. HE HAS BEEN HAVING PROBLEMS WITH THIS SOFTWARE AND WOULD LIKE TO KNOW IF THERE IS ANYONE OUT THERE WHO CAN HELP HIM, OR IF THERE WERE ANY NEWER VERSIONS EVER SOLD. IF YOU CAN HELP RON, PLEASE WRITE HIM AT THE ABOVE ADDRESS, OR CALL HIM AT 508-682-8641.

R1 (OUR COLUMN HEADINGS), AND SHORTEN C3 TO A WIDTH OF 6. WE'LL NOW DEVELOP THIS INFO INTO SOMETHING USEFUL THAT THE UTILITY COMPANY DOESN'T READILY TELL US THAT MIGHT GIVE US AN INCENTIVE TO SEE HOW OUR HOME IS DOING WITH POWER USE. INSERT A NEW COLUMN BETWEEN THE PRESENT C3 AND C4 (GO ANYWHERE IN C4, TYPE 'I' FOR INSERT, 'C' FOR COLUMN, AND ENTER FOR 1 NEW COLUMN BEFORE THE PRESENT C4). LABEL THE NEW COLUMN IN R1C4 "KWH/D", AND NARROW IT TO WIDTH OF 8. LABEL ANOTHER COLUMN AFTER OUR COST ONE (NOW C5) IN R1C6 "C/KWH", AND NARROW IT ALSO TO WIDTH OF 8. MOVE TO R2C4 (UNDER KWH/D LABEL) AND HIT "=" TO BRING UP THE "VALUE" LINE. MOVE TO R2C2, HIT "/", MOVE TO R2C3, HIT ENTER. YOU SHOULD SEE 29.9333 IN R2C4, YOUR AVERAGE POWER USE PER DAY DURING THIS MONTH. WHILE STILL THERE, HIT "C" FOR COPY, "D" FOR DOWN, AND "2" FOR 2 CELLS. THIS ACTION WILL COPY THE R2C4 FORMULA TO R3C4, THEN R4C4 AND MAKE THOSE CALCULATIONS (22.8 AND 24.4963). NOW OFF TO R2C6 (UNDER C/KWH LABEL), AND ENTER THE FORMULA R2C5/R2C20; YOU SHOULD SEE 12.7138, THE CENTS PER KWH PAID IN JULY. AGAIN COPY THIS FORMULA DOWN TWO CELLS. ADD NEW DATA FOR OCTOBER (548,28,60.21) AND NOVEMBER (590,29,64.60) BY INSERTING TWO NEW ROWS BEFORE R5. NOTE THAT THE PRESET JUSTIFICATIONS DO NOT REMAIN IN EFFECT FOR THE NEW DATA. INSERTING RETURNS TO DEFAULTS, WHILE SIMPLY ENTERING AT THE BOTTOM KEEPS JUSTIFICATIONS INTACT. WE'LL CLEAN THIS UP IN A MOMENT. COPY THE CALCULATIONS FOR KWH/D AND C/KWH DOWN INTO THE NEW ROWS. WE'RE ALMOST DONE FOR THIS TIME. BY NOW, YOU MAY HAVE NOTICED THAT EVERY TIME YOU DO SOMETHING, EVEN MOVE FROM ONE CELL TO ANOTHER, THERE IS A TIME LAG, AND A MESSAGE AT THE BOTTOM MAY SAY "CELLS TO RECALCULATE..XXX" WHERE THE XXX CHANGES AS MP UPDATES THE VARIOUS CALCULATED VALUES IN CASE A CHANGE YOU MADE HAS AFFECTED THEM. AS YOUR SHEET GETS BIGGER, THIS CAN BECOME A REAL PAIN, AND OF COURSE THERE'S A WAY TO HELP. I RECOMMEND *IMPORTANT* THAT YOUR FIRST ACTION

ON STARTING UP MP IS TO HIT 'O' FOR OPTIONS AND 'N' FOR NO TO RECALCULATION. THIS CHOICE, NOT THE DEFAULT, MEANS THAT MP WILL ONLY RECALC THE SHEET WHEN YOU COMMAND IT TO OR WHENEVER YOU SAVE THE SHEET. ALSO *IMPORTANT* IT WILL NOT AUTOMATICALLY RECALC BEFORE PRINTING, SO IF YOU WANT UP-TO-DATE PRINTOUT, I RECOMMEND SAVING FIRST. ANYWAY, THE RECALC OFF AS I JUST DESCRIBED.

FINALLY, WE'LL CLEAN UP THE COLUMNS AND THEIR HEADINGS. FORMAT C4 TO CENTER AND FIXED, C5 TO \$, AND C6 TO FIXED WITH 1 DECIMAL. NOTE THE \$ (CURRENCY) FORMAT FORCES A \$ AHEAD OF THE 1ST DIGIT AND REQUIRES TWO PLACES AFTER THE DECIMAL POINT. COMMAS ARE UNFORTUNATELY NOT AVAILABLE FOR LARGER NUMBERS. FORMAT C1 AND R1 TO CENTER. AND WE MUST REDO THE "SUM" IN R7C5, SO GO THERE; TYPE "E" FOR EDIT, FN-4 THREE TIMES TO BACK UP THROUGH THE FORMULA WITHOUT ERASING, FN-9 TO ERASE THE "3", TYPE "1" SO THE SUM WILL NOW BE FROM 1 ABOVE THE CALCULATED VALUE THROUGH 5 ABOVE IT. AFTER ALL OF THIS, YOU SHOULD HAVE:

	1	2	3	4	5	6
	MONTH	KWH	DAYS	KWH/D	COST	C/KWH
2	JUL	898	30	30	\$114.17	12.7
3	AUG	684	30	23	\$87.70	12.8
4	SEP	781	32	24	\$100.09	12.8
5	OCT	548	28	20	\$60.21	11.0
6	NOV	590	29	20	\$64.60	10.9
7					\$426.77	

AS BEFORE, YOU MAY PRINT YOUR WORK; I'D SAVE FIRST. THE ONLY DIFFERENCE THIS TIME IS YOU WILL BE ASKED IF YOU WANT TO REPLACE (OVERWRITE) THE ORIGINAL "UTILITY" FILE; WHEN YOU HIT "Y" FOR YES, THE NEW SHEET WILL REPLACE THE OLD ONE. NOW YOU SHOULD BEGIN TO SEE THE POSSIBILITIES OF EVEN WITH THESE SIMPLE CALCULATIONS. UNTIL NEXT TIME!

CLEVELAND AREA 99/4A USERS GROUPS
 C/O DEANNA SHERIDAN
 20311 LAKE ROAD
 ROCKY RIVER, OH 44116



CHECK YOUR EXPIRATION DATE.
 THIS MAY BE YOUR LAST ISSUE!

Exp Date: 91/07

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