

CLEVELAND AREA TI-994/A USER GROUPS NEWSLETTER

JUNE, 1990

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 82
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 MAY 19, 1990 JUNE 16, 1990 JULY 21, 1990 AUGUST 18, 1990 SEPTEMBER 15, 1990 OCTOBER 20, 1990
SECRETARY	CHUCK POULIN 731-6473	DENNIS LIKENS 842-9627	
LIBRARY(DISK)	MARTIN SMOLEY 1-257-1661	HARRY HOFFMAN 631-2354	
TAPE & MODS)	TOM NELLIS 475-4067	JOHN PARKEN 331-2830	
HARD COPY)	DICK ALDEN 1-352-9172		

YOU MISSED ANOTHER GOOD ONE IF YOU DIDN'T MAKE IT TO LIMA ON THE 26TH. I WAS CONCERNED ABOUT THE ATTENDANCE SINCE IT WAS MEMORIAL DAY WEEKEND, BUT IT DIDN'T SEEM TO HAVE TOO MUCH OF AN ADVERSE AFFECT. GLENN'S REPORT ON THE CONFERENCE LAST YEAR REPORTED 237 HAD SIGNED IN AT ABOUT 2:30. I LOOKED ON THE LISTING AT ABOUT 2 P.M. AND THE SIGN-IN WAS 197. THAT IS NOT A SIGNIFICANT REDUCTION CONSIDERING THE CIRCUMSTANCES.

I GUESS THE ONLY COMPLAINT I HAVE IS THAT YOU JUST CAN'T TAKE IN EVERYTHING, ESPECIALLY SINCE THE DEMONSTRATIONS OVERLAP. WE ARRIVED JUST IN TIME TO MAKE THE BARRY TRAVER DEMO ON USING XB WITH ASSEMBLY ROUTINES. HE MADE IT SOUND AS SIMPLE AS FALLING OUT OF BED. I HAD TALKED WITH BARRY ON THE PHONE, BUT NEVER HAD THE PLEASURE OF MEETING HIM. THIS IS ONE OF THE BEST PARTS OF THE CONFERENCE, PUTTING FACES ON ALL THOSE PEOPLE YOU CORRESPOND WITH OR READ ABOUT.

I CAUGHT PART OF THE ASGARD PRESENTATION ON NEW SOFTWARE AND HARDWARE OFFERINGS. THEY HAD THEIR MOUSE AVAILABLE AT, I BELIEVE \$49.95. BOTH MATT ANDEL AND HOWARD WINKLER HAVE PURCHASED THIS, AND HOPEFULLY WE CAN GET THEM TO SHOW IT TO THE REST OF US. THE MIDI-INTERFACE WAS NOT WORKING, BUT IS SUPPOSED TO BE READY SOON. IT SOUNDS VERY SOPHISTICATED AS IT WILL HANDLE ALL THE BAUD RATES AND CAN ACCESS NUMEROUS CHANNELS BY CHAINING. THIS SOUNDS LIKE A BARGAIN AS THE SOFTWARE AND HARDWARE IS ONLY \$39.95. THE NEW SPELL CHECKER WAS AVAILABLE, AS WERE VARIOUS TEMPLATES FOR PAGEPRO99. THEY WILL SOON BE SELLING AN IMPROVED VERSION OF THE MEGATRONICS 80-COLUMN CARD. THERE MAY HAVE BEEN MORE, BUT I ONLY CAUGHT THE LAST HALF OF THIS PRESENTATION.

I STOPPED BY THE HARRISON SOFTWARE SEMINAR. THEY HAVE DEVELOPED AN INTRICATE WAY OF DOING CLASSICAL MUSIC ON THE TI AND HAVING IT SOUND AS THOUGH AN ENTIRE ORCHESTRA IS PLAYING. HOWEVER, THE PRESENTATION WAS SO TECHNICAL, I SOON GAVE UP AND WENT ON TO OTHER THINGS.

ONE OF THE INTERESTING NEW HARDWARE ITEMS WAS A SMALL BOX WHICH PLUGS INTO YOUR GROM PORT AND CAN HAVE YOUR XB

CARTRIDGE, EDITOR ASSEMBLER, AND I BELIEVE 4 OTHER CARTRIDGES. TO SWITCH CARTRIDGES, YOU SIMPLY TURN A SMALL KNOB. THIS WAS GOING FOR \$25 AND HOWARD WINKLER GOT ONE, SO AGAIN, HOPEFULLY, WE CAN SEE A WORKING COPY.

I TALKED WITH CHARLES PRATT WHO SAID HIS NEW DISK CONTROLLER (HARD AND FLOPPY) IS STILL IN THE WORKS. THEY ARE WAITING FOR CHIPS AND WILL DEFINITELY HAVE IT AT THE HARRISBURG SHOW. WHEN HE WAS AT OUR SWAP MEET, HE THOUGHT IT WOULD BE READY FOR TICOFF. HE SAID IT WOULD SELL FOR ABOUT \$200.

JIM HORN OF DISK ONLY SOFTWARE CONFIRMED THAT THE MYARC HARD DISK CONTROLLER IS INDEED GOING FOR \$180.

IT IS IMPOSSIBLE TO ATTEND ALL OF THE CONFERENCES AS THEY RUN TWO AT A TIME, AND YOU HAVE TO SKIP SOME OR ONLY ATTEND HALF OF ONE AND HALF OF THE OTHER. WE LEFT EARLY, AND I DID NOT GET TO THE BUD MILLS SEMINAR ON NEW HARDWARE PROJECTS, THE PAUL SCHEIDEMANTLE DEMO ON GRAPHICS, AND SEVERAL OTHERS. AS USUAL, LIMA WILL MAKE AVAILABLE TAPES OF THESE PRESENTATIONS, AND I URGE YOU TO "CHECK THEM OUT" FROM YOUR CLUB CUSTODIAN.

LET'S HOPE EITHER LIMA OR SOME OTHER OHIO GROUP WILL BE ABLE TO CONTINUE WHAT SEEMS TO HAVE BECME A FINE TRADITION IN THREE SHORT YEARS. THANKS AGAIN, LIMA, FOR A GREAT MEET.

MARTY SMOLEY CALLED TODAY AND SAID THAT AFTER I LEFT, A COLUMBUS TIER BROUGHT IN A LASER PRINTER. I HAD JUST INQUIRED ON THE WAY DOWN IF ANYONE HAD EVER HEARD OF SOMEONE USING A LASER PRINTER WITH THE TI! THIS WAS A HEWLETT PACKARD LASERJET USE MOSTLY IN THE EPSON FX MODE. I WAS CURIOUS IF YOU COULD PRINT GRAPHICS WITH IT, AND THE ANSWER IS NO! (TI GRAPHICS, THAT IS). IT WILL NOT WORK WITH OUR POPULAR GRAPHICS PROGRAMS SUCH AS PAGEPRO, TI ARTIST, ETC. HE SAID THAT YOU CAN USE IT WITH TI-WRITER AND HE HAS WRITTEN LITTLE PROGRAMS OF CONTROL CODES THAT HE CALLS IN AS HE NEEDS THEM. WISH I HAD BEEN THERE!

ANOTHER SUGGESTION FOR KEEPING YOUR PRINTER RIBBON DARK COMES FROM BRUCE RODENKIRCH. HE SAYS HE HAS BEEN USING A STAMP PAD INKER TO RE-INK HIS PRINTER RIBBONS. A 2 OZ ROLLER TOP BOTTLE SELLS FOR \$1.65. HE USES A Q-TIP TO APPLY

IT TO THE RIBBON AS HE CRAKS IT THROUGH THE CARTRIDGE WITH AN ELECTRIC SCREWDRIVER.

BRUCE ASKS THAT WE PUBLICIZE A NEW BBS IN THE AKRON AREA WHICH HAS A SECTION FOR TI-994/A USERS. THE BOARD FEATURES ELECTRONIC MAIL, UPLOAD AND DOWNLOAD CAPABILITIES. THE OPERATING PARAMETERS ARE 1200 BAUD MAX, BNI. THE PHONE NUMBER IS (216)673-9644. THE SYSOP IS KEN HOYT (VOICE PHONE 678-0754) AND THE ASSISTANCE SYSOP FOR THE TI SUB-BOARD IS TIM STANL (678-0459). AFTER SINING IN FOR THE FIRST TIME, THE SYSOP WILL CONTACT YOU TO VERIFY THE INFORMATION;, AND YOU WILL THEN BE ABLE TO USE ALL THE BBS' FEATURES.

ALSO THANKS TO BRUCE FOR THE ARTICLE ON COMMUNICATIONS WHICH HE RAN IN THE AKRON NEWSLETTER. MANY QUESTIONS AROSE AFTER THE DEMO AT NORTHCOAST AND PERHAPS BRUCE'S ARTICLES WILL HELP OUT.

A QUESTION WAS ASKED IN THE MAY ISSUE OF THE K-TOWN 99'ER CONCERNING THE FILES NEEDED TO RUN TI-ARTIST PLUS. I, TOO, WAS DISAPPOINTED THAT IT SEEMED TO DEMAND SO MUCH SPACE ON MY RANDISK. I PLAYED AROUND WITH IT AWHILE AND HAVE BEEN SUCCESSFULLY RUNNING IT WITH THE FOLLOWING FILES:

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ARTIST1      FONPT2
ARTPT1      PRINTER
ARTPT2      PRMPT1
ARTPT3      PRMPT2
ARTPT4      PRMPTH
COMPT1      PTMPTV
ENHPT1      SELECT
ENHPT2      VECPT1
ENHPT3      VECPT2
EXTOSR      VECPT3
FONPT1

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I HAVE NAMED MY DRIVE INSCBOT AND RUN IT FROM THE ARTIST1 PROGRAM ON MY RANDISK MENU. THE MOVIE FILES ARE TOTALLY UNNECESSARY TO THE PROPER EXECUTION OF THE PROGRAM.

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:SPELLIT! - DEANNA SHERIDAN - NC..... 6:
:GRAPHIC GRABBER - DEANNA SHERIDAN - NC..... 6:
:TI-BASE - MARTY SMOLEY - NC..... 7:
:MAGIC FILE MANIPULATOR - DEANNA SHERIDAN - NC.....10:
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TI-CHIPS (19 MAY 1990)

PRESIDENT MATT ANDEL CALLED THE MAY MEETING TO ORDER AT 10:00AM. THE MINUTES FROM APRIL WERE READ AND APPROVED. WE HAD A NICE TURNOUT OF 20 PEOPLE THIS MONTH AND NOW THAT THE SUMMER IS HERE AND BAD WEATHER NO LONGER A PROBLEM, NOW ABOUT THOSE MEMBERS WHO VENTURE OUT ONLY FOR SUPPLIES COME

DOWN TO NEXT MONTHS MEETING. WE HAD A COUPLE OF PEOPLE SELLING SOME SOFTWARE AND HARDWARE. LIN CAROLYN SHAW WERE SELLING A KEYBOARD AND SOME MODULES FOR A FRIEND. LOOKED LIKE THEY HAD SOME HARD TO FIND MODULES, (CHESS, FOOTBALL). KEN LEWIS (216) 228-1526 HAD A CONSOLE THAT SOLD FAST. HE ALSO HAS SOME GREAT ADVENTURE GAMES (SPIDERMAN, HULK, HITCHHIKERS GUIDE AND GRAPHICS GALORE) GIVE HIM A CALL IF YOUR LOOKING FOR THESE AND MORE) HE EVEN HAS LOTS OF FAIRWARE DISKS TOO.

LIN SHAW GAVE HIS TREASURER'S REPORT. WERE BACK UP TO \$903.47. THIS IS AFTER PAYING FOR THE NEWSLETTER.

JOHN GAVE HIS MEMBERSHIP REPORT. WE HAVE 8 PEOPLE WHO'S MEMBERSHIPS EXPIRE IN THE NEXT 2 MONTHS SO LOOK AT YOUR LETTER AND SEE WHAT THE DATE SAYS. DONT WAIT TILL IT'S TOO LATE. YOU MAY MISS AN ISSUE OF THE NEWS LETTER.

HARRY GAVE HIS DISK REPORT. NOT MANY PEOPLE CALLED HIS ANSWERING MACHINE THIS MONTH. GUESS SOME OF YOU ALL HAVE 'MIKE FRIGHT'. HE SAID ONCE HE GETS HIS OTHER CONTROLLER CARD, WE'LL BE ABLE TO DO DS/DD. SO NOWS THE TIME TO START THUMBING THROUGH THE CATALOG FOR THAT SPECIAL PROGRAM THAT YOU JUST GOT TO HAVE. WE HAVE GIF FILES NOW IN THE LIBRARY FOR THOSE THAT PURCHASED BARRY BOONES GIF

VP GLENN BERNASER GOT THE TOPIC GOING ON THE LIMA MEETING. HOPE YOU WERE ABLE TO ATTEND. IT APPEARS THAT THIS YEARS LIMA CONFERENCE WAS GOING TO BE BETTER THAN EVER. GLENN PUT TOGETHER A DISK OF PROGRAMS FROM THE CHIPS MEMBERS AND WAS GOING TO BE HANDING THEM OUT 'FREE' TO THOSE WHO STOPPED BY TO VISIT THE CHIPS BOOTH. IF YOU WENT TO THE CONFERENCE AND DIDN'T GET THE DISK PACKED WITH SOME VERY GOOD PROGRAMS, YOU REALLY MISSED OUT.

MATT (THE PRES), GAVE A NICE DEMONSTRATION OF THE GIF DISPLAY MASTER PROGRAM AND SHOWED US SOME GREAT PICTURES. THE GIF PROGRAM WILL CONVERT GIF FILES OVER THE ARTIST(+) FORMAT. THEN YOU CAN USE DISPLAY MASTER TO VIEW OR PRINT THEM. YOU CAN EVEN CHANGE THE COLORS TO THE GRAY EFFECT SO YOU CAN PRINT THEM OUT AND GET MORE THAN A PAGE OF BLACK.

LES (THE WIZARD OF XB) WROTE ANOTHER HANDY DANDY PROGRAMS THAT HELPS PLOT THE ROUND ENDS OF, LETS SAY, TUBING. THIS LETS YOU PRINTOUT THE MEASUREMENTS TO PLOT OUT ON GRAPH PAPER. THIS ASSISTS YOU IN JOINING 2 DIFFERENT SIZE TUBING AT AN ANGLE. THE DEPT OF TRANSPORTATION OF OHIO COULD HAVE USED THIS WHEN THEY WERE BUILDING I-77 COMING INTO CLEVELAND.

WELL A WORD FROM YOURS TRULY. SORRY FOR LAST MONTHS ENCRYPTED TEXT THAT MADE ITS WAY INTO THE NEWS LETTER. I JUST STARTED USING A 2400BAUD MODEM AND HAVE FOUND THAT IT WAS A WAY OF SPEAKING ON ITS OWN. SO BACK TO THE OLE TRUSTY VENTEL 1200BAUD. I'LL USE MY 2400 FOR THE LESS IMPORTANT THINGS.

AS I MENTIONED IN LAST MONTHS LETTER, I MISSPLACED THE NAMES OF A COUPLE OF NEW MEMBERS. NOW I CAN EXTEND A HEARTY WELCOME TO THOMAS MACUNA OF CLEVELAND AND LINDA VERMILLION OF NORTHFIELD OH. WELCOME TO TI-CHIPS AND WE HOPE TO SEE YOU AT OUR MEETINGS. WELL THATS IT FOR NOW FOLKS. HOPE EVERYONE CAN MAKE IT TO OUR NEXT MEETING JUNE 16 AT THE NORTH ROYALTON LIBRARY 10AM.

DENNIS LIKENS
TI-CHIPS

TO VISIT THE CHIPS BOOTH. IF YOU WENT TO THE CONFERENCE AND DIDN'T GET THE DISK PACKED WITH SOME VERY GOOD PROGRAMS, YOU REALLY MISSED OUT.

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DENNIS LIKENS - TI-CHIPS

EXECUTIVE NOTES - NORTHCOAST 5/27/90

THE MAY 19 MEETING WAS ATTENDED BY ABOUT 26 PEOPLE. ITEMS OF INTEREST INCLUDED:

-THE LIMA FAIRE IS MAY 26, NEXT SATURDAY. PLANS WERE MADE FOR SEVERAL GROUPS TO GO, AS WE HAD ABOUT A DOZEN PEOPLE INTERESTED. SEE ARTICLE(S) ELSEWHERE IN NEWSLETTER.

-THE FUNNELWEB CONFIGURATION TAPES ARE CIRCULATING; IF YOU HAVEN'T YET SEEN ONE, CONTACT ME, BOB, OR CHUCK POULIN.

-WE DID TRY OUT THE RIBBON REINKER, BUT DIDN'T SEEM TO BE LOTS OF INTEREST. LOOKS LIKE FOR PEOPLE THAT WANT TO DO THIS, PERHAPS THE BEST WAY WOULD BE TO CONTACT V-TECH, 2223 REBECCA, HATFIELD PA 19440, WHO SELLS "RIBBON RE-NEW", SUPPOSEDLY GOOD FOR 30 REINKINGS, FOR \$3.95. SOME MEMBERS HAVE REPORTED GOOD RESULTS.

-I CONDUCTED A QUICK REVIEW OF INFORMATION OBTAINED OUT OF A MANY HOUR REVIEW OF OTHER GROUP NEWSLETTERS RECEIVED IN THE PAST 6 MONTHS-1 YEAR. -THE MAIN DEMO WAS YOURS TRULY AND DEANNA WITH A BRIEF LOOK AT THE MISSING LINK XB UPGRADE FOLLOWED BY THE MAIN DISCUSSION OF COMMUNICATIONS/MODEMS. SINCE THERE WAS NO PHONE LINE AVAILABLE, WE SIMPLY DIRECT CONNECTED TWO MACHINES, RUNNING DIFFERENT PROGRAMS ON EACH; WE SUCCESSFULLY SENT MESSAGES AND TRANSFERRED ONE FILE THROUGH THE CONNECTION. THERE SHOULD BE A GENERAL COMMUNICATIONS ARTICLE ELSEWHERE IN THIS NEWSLETTER; ALSO, I WILL TRY TO COLLECT ARTICLES BEING WRITTEN BY THE COLUMBUS GROUP'S DICK BEERY ON THE SUBJECT THAT HE STARTED IN THEIR 3/90 ISSUE. IF YOU WANT TO SEE THESE, LET ME KNOW.

I WANT TO SAY 'THANKS' TO RENEWING MEMBERS KEN GLADYSZEWSKI OF CONCORD TOWNSHIP, RON WALTERS OF AURORA, AND TED YOX OF SUPERIOR, WI; AND ANOTHER MARKED 'RENEWAL' EVEN

THOUGH NOT ON MY CURRENT ROSTER FROM JEFFREY RUDOLPH OF RICHMOND HEIGHTS.

FOR THE UPCOMING MEETING, WE WILL BE TREATED TO A PRESENTATION BY WES RICHARDSON. BOB WILL RUN IT AS I CAN'T ATTEND; HOPE TO DISCUSS SOME IDEAS WE HAVE TO MAKE SOME USE OF OUR RELATIVELY HEALTHY TREASURY. I THINK WE WILL PLAN TO MEET THROUGH THE SUMMER, SINCE NOTHING HAS YET BEEN SET UP TO 'TAKE A BREAK' FROM MEETINGS. HAVE FUN ON JUNE 16 AT 1:30!!

STEVE

ADDENDUM FROM WES: HIS DEMO WILL BE ON A PROGRAM CALLED 'CRAZY-XB' WHICH HAS LINES LINES OUT OF ORDER, BUT STILL RUNS PROPERLY. HE WILL ALSO DEMO THE USE OF SPRITES AND MUSIC IN ASSEMBLY PROGRAMMING. HE WILL USE EXPLORER TO RUN THE ASSEMBLY PROGRAM.

MORE ON FRACTALS LES KEE TI-CHIPS - CLEVELAND, OHIO

FIRST, I'D LIKE TO SAY I APPRECIATE WESLEY RICHARDSON'S REVIEW OF FRACTAL EXPLORER VER. 3.00. THANKS A LOT.

I HAVE FRACTAL EXPLORER VER. 2.00 BY STEVE LANGGUTH WITH SPEED ENHANCEMENT BY WESLEY RICHARDSON (BLUEGRASS 99'ERS UG.). I TOO, FOR SOME TIME, HAVE BEEN FASCINATED BY THIS FRACTAL CONCEPT. I'M NOT MUCH OF A MATHEMATICIAN AND DO NOT UNDERSTAND VERY MUCH ABOUT FRACTALS.

THE PARAGRAPHS BELOW ARE ABOUT INFORMATION IN SOME MAGAZINE ARTICLES I'VE COLLECTED SINCE I FIRST GOT THE PROGRAM IN 1988.

RESEARCHERS AT THE UNIVERSITY OF TOLEDO, OH DEVELOPED A FRACTAL-BASED ALGORITHM TO COMPRESS COLOR VIDEO IMAGES, WHICH REDUCES MEMORY REQUIREMENTS TO 1.25 BITS/PIXEL FROM A TYPICAL FIGURE OF 16. 8-11-88

MATHEMATICAL EXPERIMENTS ARE BEING PERFORMED BY RESEARCHERS AT SANDIA NATIONAL LAB. USING FRACTALS TO CALCULATE STRENGTH OF ROCK FOR CONSTRUCTION AND TO PREDICT FLOW RATES OF OIL IN BURIED ROCK FORMATIONS. 9-89

M. F. BARNESLEY A. D. SLOAN STARTED A COMPANY (ITERATED SYSTEMS INC.) TO DEVELOP COMPRESSION SYSTEMS WHICH RECOGNIZE IMAGES IN A SCENE THAT CAN BE SIMULATED BY FINDING A SELECT FRACTAL ALGORITHM. 10-88

THE OFFICE OF NAVAL RESEARCH PROPOSED THAT THE RELAXATION TIMES OF AMORPHOUS MATERIALS (GLASS, SILK, ETC.) OCCUR ON ALL TIME SCALES-AND THUS MAY BE EMBODIED IN A CONCEPT OF FRACTAL TIME! EACH SHIFT IN TIME SCALE--FROM SECONDS TO MINUTES TO DAYS TO YEARS--ADDS NEW FEATURES TO INCLUDE IN A RELAXATION MEASUREMENT (SIMILAR TO COAST LINE MEASUREMENTS). 3-11-89

IT APPEARS THAT RESEARCHERS, TODAY, ARE PROCEEDING POST-WASTE TO APPLY BENOIT B. MANDELBROT'S DISCOVERY TO THE WORLD AROUND US. I WOULD APPRECIATE ANY OTHER MATERIAL ON THIS SUBJECT THAT ANYONE MIGHT HAVE.

ALSO, IT WOULD BE MOST INTERESTING TO ME TO HAVE A PROGRAM FOR THE TI-99/4A WHICH WOULD GENERATE JULIA SETS (AFTER THE FRENCH MATHEMATICIAN GASTON JULIA). ONE JULIA SET CORRESPONDS TO EACH POINT, INSIDE OR OUTSIDE, OF THE MANDELBROT SET. WOW!

MISCELLANEOUS RAMBLINGS - STEVE BAGSTAD - 5/28/90

THIS IS JUST A FEW TOPICS I FELT MIGHT BE OF GENERAL INFORMATION FOR TI USERS. SO, HERE GOES...

I HAVE BOUGHT SOME NEW GAMES IN THE LAST FEW MONTHS AND

WANTED TO PASS ON QUICK COMMENTS. MORE DETAILED REVIEW NEXT MONTH. RECEIVED FROM ASGARD "TRIS" FOR THE GENEVE (/AA VERSION ALSO AVAILABLE), WHICH IS PRETTY GOOD ALTHOUGH THERE ARE NOW MANY VERSIONS AVAILABLE; "KARATE CHALLENGE", WHICH DESPITE THEIR OVERBLOWN ADS LOOKS FAIRLY PATHETIC TO ME; AND FINALLY, A SOMEWHAT BETTER "MISSION DESTRUCT" SHOOT-EM-UP, WHICH SEEMS FAIRLY DECENT (ALTHOUGH IT DOESN'T SEEM TO LIKE MY FIRE BUTTON- A GENEVE QUIRK??). FROM THE LIMA FAIR, TWO GAMES FROM COMPRODINE- "THE LIVING TOMB" AND "WAR ZONE". THE FORMER A TUNNELS OF DOOM TYPE GRAPHIC ADVENTURE, THE LATTER A SHOOT-EM-UP. BOTH OF THESE LATTER TWO ARE EXCELLENT, WELL WORTH BUYING.

INTERESTING TO NOTE THAT ASGARD'S DOCS INCLUDE THE 'STANDARD' INDUSTRY DISCLAIMER THAT THEY DON'T PROMISE THE PROGRAM WILL RUN, SATISFY YOU, WHATEVER... WHILE COMPRODINE'S DOCS INCLUDE 'THIS PRODUCT IS GUARANTEED TO PERFORM AS ADVERTISED AND SATISFY THE PURCHASER', ALLOWING A 30 DAY ANY REASON FULL REFUND.

MAIL ORDER SHOPPING NOTES (CONTINUED FROM LAST MONTH):
THE LAW ON MAIL ORDER: FTC RULES SAY 1) THE SELLER MUST SHIP YOUR ORDER WITHIN 30 DAYS OF RECEIVING IT, UNLESS THEIR AD CLEARLY STATES IT WILL TAKE LONGER; 2) IF IT APPEARS THAT YOUR ORDER WILL NOT BE SHIPPED WHEN PROMISED, THE SELLER MUST NOTIFY YOU IN WRITING IN ADVANCE OF THE PROMISED DATE, GIVING A DEFINITE NEW DATE IF KNOWN, AND OFFERING YOU A CHANCE TO CANCEL THE ORDER WITH A REFUND OR CONSENT TO A DEFINITE DELAYED SHIP DATE OR INDEFINITE DELAY; 3) THE SELLER'S NOTICE MUST CONTAIN A STAMPED SELF ADDRESSED CARD OR ENVELOPE FOR YOU TO INDICATE YOUR PREFERENCE. IF YOU DON'T RESPOND, THE SELLER MAY ASSUME YOU AGREE TO THE DELAY, BUT MUST EITHER SHIP OR CANCEL YOUR ORDER WITHIN 30 DAYS AFTER THE ORIGINAL SHIP DATE; A PROMPT REFUND MUST BE MADE WHEN AN ORDER IS CANCELLED; 4) EVEN IF YOU AGREE TO AN INDEFINITE DELAY, YOU RETAIN THE RIGHT TO CANCEL THE ORDER AT ANY TIME BEFORE THE ORDER IS SHIPPED; 5) IF YOU CANCEL AN ORDER THAT HAS BEEN PAID BY CHECK OR MONEY ORDER, THE SELLER MUST MAIL YOU A REFUND WITHIN 7 BUSINESS DAYS; OR WITHIN 1 BILLING CYCLE FOR CREDIT CARD ORDERS; VOUCHERS OR CREDITS ARE NOT ACCEPTABLE IN PLACE OF REFUNDS; 6) IF THE ITEM YOU ORDERED IS UNAVAILABLE, THE SELLER MAY NOT SEND SUBSTITUTE MERCHANDISE WITHOUT YOUR EXPRESS CONSENT. (FINAL SECTION NEXT MONTH)

STEVE

HORIZON RAMDISK ROS 8.14
OR, I'M IN HEAVEN AND I DON'T EVEN HAVE A HARD DISK!
DEANNA SHERIDAN - NORTHCOAST 99ERS - CLEVELAND, OHIO

I PICKED UP THE LATEST VERSION OF THE HRD ROS AT THE LIMA FAIRE. THERE ARE SEVERAL ADDITIONS TO THE ROS, BUT THE ONE THAT WILL AFFECT MOST OF US, IS THE ABILITY TO ACCESS ALL THE DRIVES ON THE RAMDISK AT ANY TIME.

PREVIOUSLY, WE COULD INITIALIZE AS MANY DRIVES AS WE DESIRED OR HAD SPACE AVAILABLE, BUT HAD TO TOGGLE DOWN TO ACCESS THEM. ROS 8.14 CHANGES ALL THAT. YOU CAN INITIALIZE THE DRIVES AND CALL THEM AT AT WILL. IT WILL RECOGNIZE NUMBERS 1 THRU 9 AND LETTERS A THRU Z. I JUST UPGRADED FROM A 512 CARD TO 1 MEG AND WHAT A JOY TO BE ABLE TO HAVE ABOUT 10 DISKS OF INFORMATION AVAILABLE ALMOST INSTANTANEOUSLY.

IN ADDITION TO THIS FEATURE, THE ROS 8.14 HAS EXTENSIVE DOCUMENTATION FOR THOSE WHO HAVE THE RAMBO FEATURE ADDED. IF YOU WILL RECALL, RAMBO WAS INTRODUCED AT THE CHICAGO

FAIRE AND ALLOWS BANK SWITCHING WHICH IN TURN MAKES IT POSSIBLE TO WRITE VERY LARGE PROGRAMS FOR THE TI AND SWITCH THEM IN AND OUT AS NEEDED THRU THIS VERY FAST RAM. THIS DOCUMENTATION IS PROVIDED TO ENCOURAGE PROGRAMMERS TO START UTILIZING THE RAMBO. IF AND WHEN, PROGRAMS BEGIN TO APPEAR, THE RAMBO MODIFICATION IS ONLY \$45 AND SHOULD BE WELL WORTH IT TO HRD USERS.

YOU CAN ONLY GET THE PRINTED MANUAL FOR ROS 8.14 IF YOU PURCHASE YOUR ROS FROM BUD MILLS. AT THE COST OF ONLY \$10.00, I HIGHLY RECOMMEND YOU SENDING YOUR \$10.00 TO BUD MILLS SERVICES, 166 DARTMOUTH DRIVE, TOLEDO, OH 43614 AS SOON AS POSSIBLE.

TI-WRITER CONTROL KEY CODES
HARRY W. GUENTHER
FROM LITI 99ER UG - MAY 1990

RECENTLY, I READ A NOTE IN ANOTHER NEWSLETTER POINTING OUT THE USEFULNESS OF USING THE CONTROL KEY TOGETHER WITH THE PERIOD KEY *I.E. <CTRL .>, AND THAT LED ME TO REVIEW OTHER CONTROL KEY FUNCTIONS DESCRIBED IN THE TI WRITER MANUAL. I FOUND SEVERAL USEFUL COMBINATIONS THAT I WAS NOT USING, AND I THOUGHT OTHERS MIGHT THINK ABOUT THEM TOO.

<CTRL .> : THIS WILL CHANGE THE CHARACTER UNDER THE CURSOR TO LOWER CASE. I JUST TYPED THE PRECEDING SENTENCE IN UPPER CASE AND THEN CHANGED THOSE I WANTED TO BE LOWER CASE WITHOUT RETYPING. THIS PROVIDES A VERY GOOD, FAST, RECOVERY MOVE FOR INEXPERT TYPISTS!

<CTRL ;> : CONVERSELY, THIS WILL CHANGE THE CHARACTER UNDER THE CURSOR TO UPPER CASE.

THERE ARE MANY OTHER CONTROL KEY OPERATIONS THAT ARE VERY HELPFUL. SOME THAT I'VE JUST REDISCOVERED ARE:

<CTRL V> : WILL MOVE THE CURSOR TO THE BEGINNING OF THE CURRENT LINE.

<CTRL K> : DELETES EVERYTHING FROM THE CURSOR SITE TO THE END OF A LINE ON THE RIGHT. I USE THIS FREQUENTLY SINCE I 'REDISCOVERED' IT.

<CTRL L> : THIS WILL MOVE THE CURSOR FROM ANY POINT IN YOUR TEXT TO THE UPPER LEFT CORNER OF THE SCREEN. I'M SURPRISED HOW MANY TIMES I USE THIS NOW IN PLACE OF OTHER KEY OPERATIONS WHICH TAKE LONGER.

<CTRL G> OR <CTRL Y> : THIS MOVES THE CURSOR TO THE BEGINNING OF THE PRECEDING PARAGRAPH.

<CTRL 4> OR <CTRL J> : THIS MOVES THE CURSOR TO THE BEGINNING OF THE NEXT PARAGRAPH.

<CTRL 3> : THIS WILL GIVE YOU ANOTHER CHOICE OF SCREEN AND CHARACTER COLORS. YOU CAN SCAN THROUGH TO A COMBINATION YOU LIKE.

<CTRL U> : THIS WILL GIVE ACCESS TO THE SPECIAL CHARACTER MODE. THIS ENABLES ACCESS TO THE FIRST 32 ASCII CHARACTERS, AND THROUGH THEM ALLOWS ENCODING OF PRINTER CODES WITHIN YOUR TEXT. FREQUENTLY, THIS IS MORE CONVENIENT THAN SETTING MY SELECTYPE PRINTER KEYS.

<FCTN 0> : REMOVES OR DISPLAYS THE LINE NUMBERS ON THE SCREEN.

THERE ARE MANY MORE CONTROL AND FUNCTION CODES THAT DO PRACTICAL OPERATIONS IN THE TI-WRITER TEXT OR FORMATTER MODES. THEY ARE ALL DESCRIBED IN THE TI-WRITER MANUAL OR IN THE ABBREVIATED QUICK REFERENCE CARD. THOSE I'VE DESCRIBED HERE ARE ONLY SOME FUNCTIONS THAT I'VE FAILED TO USE EFFICIENTLY IN THE PAST, AND WHICH I HOPE TO USE AS AUTOMATICALLY AS I USE >FCTN3> - OR <CTRL N>! PERHAPS YOU, TOO, WILL BE REMINDED THAT THERE ARE MANY WORTHWHILE OPERATIONAL CODES IN TI-WRITER THAT YOU'RE NOT USING!

COMPUTER COMMUNICATIONS BY BRUCE ROSENKIRCH

I HAVE BEEN THINKING ABOUT WRITING AN ARTICLE ABOUT THE DIFFERENT WAYS WE CAN COMMUNICATE USING A COMPUTER. THE FIRST AND MOST OBVIOUS WAY IS BY USING A WORD PROCESSOR TO WRITE A LETTER. PERHAPS SOME OF YOU THOUGHT THE TELEPHONE MODEM IS THE OBVIOUS WAY. IF YOU ARE AN AMATEUR RADIO OPERATOR, THE OBVIOUS WAY IS TO USE A TERMINAL AND RADIO TO SEND MESSAGES THROUGH THE AIR TO DISTANT OR NOT SO DISTANT STATIONS USING THE COMPUTER TO SEND MORSE CODE, TELETYPE OR RTTY, AMTOR, PACKET, OR ASCII.

WHILE I WAS MULLING THIS OVER, THE MAILMAN BROUGHT ME A COPY OF THE SEPTEMBER 1989 ISSUE OF HARDCOPY, THE AKRON AREA COMMODORE USERS GROUP NEWSLETTER WITH A FINE ARTICLE ON THE SUBJECT WRITTEN BY TIM MARGUSH. TIM USUALLY HAS INTERESTING AND INFORMATIVE ARTICLES AND I THOUGHT THIS ONE WAS PARTICULARLY SO.

TIM'S ARTICLE IS TOO LONG FOR ONE PAGE OF OUR NEWSLETTER AND I WANT TO ADD SOME COMMENTS OF MY OWN SO I WILL PUBLISH THESE AS A SERIES OF ARTICLES. SO HERE WE GO:

CHIPSIDE CHAT-BY TIM MARGUSH

BEEP...BEEP...BUZZ...MODEM USERS WILL PROBABLY RECOGNIZE THIS AS THE NORMAL CONNECT SEQUENCE THAT HEARD WHEN THEY CONNECT TO ANOTHER COMPUTER SYSTEM ACROSS THE TELEPHONE LINES. ALTHOUGH THE WORD "TELEPHONE" IS OVER 100 YEARS OLD, THE WORD "TELECOMMUNICATIONS" FIRST APPEARED IN DICTIONARIES IN THE 1960'S. THE MODEM IS A DEVICE THAT INTERFACES BETWEEN THE COMPUTER AND TELEPHONE LINE AND MAKES IT POSSIBLE FOR ONE COMPUTER TO TALK TO ANOTHER. TO THE COMPUTER IT LOOKS LIKE A SERIAL OUTPUT DEVICE (SIMILAR TO A PRINTER) WHILE TO THE TELEPHONE SYSTEM, IT LOOKS LIKE A STANDARD TELEPHONE.

(EDITOR-I HATE TO INTERRUPT TIM BUT PERHAPS SOME OF YOU DO NOT KNOW WHAT IS MEANT BY "SERIAL" AND "PARALLEL". EACH OF THE CHARACTERS OF THE ALPHABET AND ALL NUMBERS CAN BE EXPRESSED BY ASCII NUMBERS. THE LETTER "A" FOR EXAMPLE IS '65' EXPRESSED AS A DECIMAL NUMBER, OR AS THE BINARY BYTE, 01000001. THE BYTE HAS EIGHT BITS AND IF THE LETTER "A" IS SENT TO A PARALLEL PRINTER, EIGHT DATA LINES OR WIRES IN THE CONNECTING CABLE CARRY THE EIGHT BITS AT THE SAME INSTANT. IMAGINE EIGHT MESSENGERS, WALKING AHEAD, EACH CARRYING THE MESSAGE AS TO WHETHER THEY ARE A "ZERO" OR A "ONE". IF THIS INFORMATION IS SENT SERIALLY, THE MESSENGERS TRAVEL SINGLE FILE AND ONLY ONE WIRE IS NEEDED. ANOTHER WIRE IS NEEDED TO CARRY THE MESSAGE COMING IN BECAUSE THE PRINTER/MODEM AND COMPUTER MUST BE ABLE TO COMMUNICATE SIMULTANEOUSLY, OR IN FULL DUPLEX. THE TELEPHONE LINE WORKS BEST IF SERIAL DATA TRANSMISSION IS USED, ALTHOUGH IT WOULD BE POSSIBLE (BUT DIFFICULT) TO SEND EIGHT BITS AT THE SAME INSTANT BY CODING THEM SO THEY COULD BE SEPARATED AT THE RECEIVING END. NOW BACK TO TIM WHO WILL DISCUSS SOME OF THE SAME MATERIAL.)

COMPUTERS CAN COMMUNICATE ACROSS STANDARD PHONE LINES BY CONVERTING BINARY DATA (0'S AND 1'S) INTO AN AUDIO SIGNAL (DIGITAL TO ANALOG CONVERSION, ALSO REFERRED TO AS MODULATION). THE RECEIVING MODEM THEN CONVERTS THE SIGNALS BACK TO BINARY. THE WORD MODEM IS AN ACRONYM FOR MODULATOR-DEMODULATOR.

THE BASIS FOR ANALOG SIGNALING IS A CONSTANT FREQUENCY SIGNAL CALLED THE CARRIER. VOICE GRADE LINES ARE LIMITED TO CARRIER SIGNALS OF 300-3000 HZ. (HZ STANDS FOR HERTZ OR CYCLES PER SECOND.) THE MOST COMMON FREQUENCIES USED BY MODEMS ARE 1170 AND 2125; ONE IS USED TO TRANSMIT WHILE THE OTHER IS USED TO RECEIVE. THE BI-DIRECTIONAL EXCHANGE OF

INFORMATION ACCOMPLISHED IN THIS WAY IS CALLED FULL DUPLEX OPERATION. DIGITAL DATA ARE ENCODED BY MODULATING ONE OF THE THREE CHARACTERISTICS OF THE CARRIER SIGNAL, AMPLITUDE, FREQUENCY OR PHASE. AMPLITUDE SHIFT KEYING (ASK) AND FREQUENCY SHIFT KEYING (FSK) ARE USED FOR THE SLOWER DATA RATES, UP TO 1200 BITS PER SECOND. PHASE SHIFT KEYING (PSK) IS USED TO ATTAIN RATES OF 9600 BITS PER SECOND ON VOICE GRADE LINES.

THE NUMBER OF CARRIER SIGNAL ALTERATIONS PER SECOND IS CALLED THE BAUD RATE, THE MOST COMMON MEASUREMENT OF THE SPEED OF DATA TRANSMISSION. THE MOST COMMON BAUD RATES USED BY MODEMS ARE 300, 1200 AND 2400 ALTHOUGH FASTER AND SLOWER RATES ARE SOMETIMES USED. IF EACH SIGNAL CHANGE REPRESENTS ONE BIT OF INFORMATION THEN THE BAUD RATE IS EQUIVALENT TO BITS PER SECOND. SOME ENDING SYSTEMS HOWEVER COMBINE GROUPS OF BITS IN EACH SIGNAL CHANGE, THEREBY MULTIPLYING THE EFFECTIVE RATE OF DATA TRANSFER.

(EDITOR-IF YOU WANT TO READ MORE ON THIS SUBJECT, THERE IS A VERY INFORMATIVE ARTICLE IN THE NOVEMBER 1989 ISSUE OF "RADIO ELECTRONICS". HERE IS A SAMPLE. "THE SIMPLEST PHASE-SHIFT ENCODING SCHEME, CALLED DIFFERENTIAL PHASE-SHIFTED KEYING (DPSK), HAS TWO OSCILLATORS RUNNING 90 DEGREES APART. ACCORDING TO THE VALUE OF THE BINARY BIT, THE ENCODER CHOOSES BETWEEN ONE OF THE TWO OSCILLATORS AT PRE-DETERMINED INTERVALS..." THIS METHOD DIVIDES THE FREQUENCY SINE WAVE INTO FOUR QUADRANTS AND THE PHASE SHIFT VECTOR SUM IS DECODED INTO THE CORRECT BINARY BIT. THIS METHOD IS USED FOR SPEED UP TO 1200 BPS (BITS PER SECOND) FULL DUPLEX BUT CAN BE USED UP TO 4800 BPS AT HALF DUPLEX. FOR HIGHER SPEEDS THE QUADRATURE COMPONENTS ARE DIVIDED UP FURTHER TO ACHIEVE GREATER CODING DENSITY. "THIS SCHEME IS CALLED QUADRATURE AMPLITUDE MODULATION (QAM) AND IS THE SECRET BEHIND SUCCESSFUL HIGH-SPEED MODEM DATA ENCODING." IF YOU HAVE A BELL 212 COMPATIBLE MODEM IT USES 1200 BPS, FULL-DUPLEX, DPSK ENCODING.)

BACK TO TIM:

COMMUNICATION VIA MODEM IS ASYNCHRONOUS COMMUNICATION. THIS MEANS THAT DIFFERING AMOUNTS OF TIME MAY PASS BETWEEN THE TRANSMISSION OF INDIVIDUAL CHARACTER. ACCURATE DECODING OF A TRANSMITTED CHARACTER STILL DEPENDS UPON THE SENDER'S AND RECEIVER'S INTERNAL CLOCKS RUNNING AT ABOUT THE SAME SPEED. IT IS ESSENTIAL THAT RESYNCHRONIZATION TAKE PLACE AFTER EACH GROUP OF BITS (USUALLY 8) IS SENT. FOR THIS PURPOSE, THE BITS REPRESENTING EACH CHARACTER ARE SURROUNDED BY SPECIAL SIGNALS CALLED START AND STOP BITS. THE RECEIVING AND TRANSMITTING SYSTEMS MUST BE CONFIGURED TO EXPECT THE SAME NUMBER OF THESE BITS. A SINGLE START BIT MARKS THE BEGINNING OF A CHARACTER. THIS IS IMMEDIATELY FOLLOWED BY THE BITS OF THE CHARACTER THAT IS BEING SENT (USUALLY 7 OR 8). FINALLY THE CHARACTER IS TERMINATED WITH 1, 1.5, OR 2 STOP BITS. IF THE STOP BIT(S) ARE NOT DETECTED BY THE HARDWARE AT THE PROPER TIME THEN A "FRAMING ERROR" HAS OCCURED AND THE CHARACTER RECEIVED IS INVALID. SINCE THIS IS ASYNCHRONOUS COMMUNICATION, AN ARBITRARY AMOUNT OF TIME MAY PASS BETWEEN THE STOP BITS OF ONE CHARACTER AND THE START BIT OF THE NEXT.

THE ACTUAL BINARY CODES THAT ARE TRANSMITTED BETWEEN THE START AND STOP BITS DEPEND UPON THE TYPE OF CODE BEING USED. THE MOST COMMON IS A SEVEN BIT CODE CALLED ASCII, (AMERICAN STANDARD CODE FOR INFORMATION INTERCHANGE). OTHER CODES OCCASIONALLY USED ARE EBCDIC (8 BITS), BCD (6 BITS), AND BAUDOT (5 BITS).

IN ORDER TO DETECT ERRORS IN TRANSMISSION WHICH ARE DUE

TO NOISE ON THE LINES, SOME SORT OF ERROR DETECTION IS GENERALLY EMPLOYED. THE SIMPLEST IS CALLED PARITY. IN EVEN PARITY, AN EXTRA BIT (THE PARITY BIT) IS APPENDED TO THE BEGINNING OF EACH CHARACTER'S CODE IN ORDER TO MAKE ALL CODES HAVE AN EVEN NUMBER OF 1 BITS. ODD PARITY IS SIMILAR. USING THIS SYSTEM, ANY CHARACTER RECEIVED WITH THE WRONG PARITY IS FLAGGED AS AN ERROR. WHEN BLOCKS OF CHARACTERS ARE SENT, MORE SOPHISTICATED SCHEMES ARE USUALLY EMPLOYED TO PRESERVE THE INTEGRITY OF THE DATA.

(TO BE CONTINUED NEXT ISSUE)

SPELLIT!

DEANNA SHERIDAN - NORTHCOAST 99ERS - CLEVELAND, OHIO

I COULDN'T RESIST TRYING THE NEW SPELLCHECKER DISTRIBUTED BY ASGARD. THIS IS ONE AREA WHICH HAS BEEN VERY MUCH LACKING IN OUR LITTLE TI WORLD. THERE WAS THE SPELLCHECKER PUT OUT BY DRAGON SLAYER SEVERAL YEARS AGO AND THE ONE WHICH CAME WITH WRITEREASE FROM CORCOMP, AND THAT HAS BEEN JUST ABOUT IT.

SPELL IT STILL DOESN'T COMPARE WITH THOSE WE HAVE IN THE IBM WORLD, BUT IT IS BETTER THAN WHAT WE HAVE HAD PREVIOUSLY. IT COMES IN SEVERAL VERSIONS, SSSD, DSSD AND HARD DISK. THE SSSD AND DSSD VERSIONS CONTAIN THE SAME AMOUNT OF WORDS, WHILE THE HARD DISK VERSION IS CONSIDERABLY LARGER. THE SSSD SIMPLY REQUIRES SOME DISK SWAPING FOR THE PROGRAM TO ACCESS ALL OF THE DICTIONARIES. I GOT THE DSSD AND COPIED IT ONTO TO DSSD DISKETTES SO THAT I CAN USE IT ON BOTH SYSTEMS.

I TESTED IT ON THE PROGRAMS FOR THIS MONTH'S NEWSLETTER AND FIND IT ADEQUATE. OF COURSE, YOU MUST SAVE YOUR PROGRAM FROM TI-WRITER OR EQUIVALENT AND THEN LOAD SPELL IT THROUGH XB, OR ONE OF THE MANY ASSEMBLY LOADERS. YOU CAN CONFIGURE THE PROGRAM SO THAT IT WILL DEFAULT TO WHATEVER DRIVE YOU DESIRE.

IT GOES THROUGH WHAT IT CALLS, THE QUIK DIRECTORY TO CATCH AND ELIMINATE COMMON WORDS, SUCH AS: "AND, THE, IT, ETC." AND DOESN'T HAVE TO SEARCH FOR THEM IN THE VARIOUS DICTIONARIES. IT COUNTS THE WORDS TO BE CHECKED AND THEN ELIMINATES THEM AS IT GOES THROUGH THE VARIOUS DICTIONARIES.

IF YOU ARE FAMILIAR WITH THE DRAGON SLAYER CHECKER, YOU GO THROUGH MUCH OF THE SAME PROCESS TO CHECK OF THE UNMATCHED WORDS. THE WORD IS SHOWN AND YOU CAN CORRECT IT, ADD IT TO THE USER DICTIONARY, GO ON TO THE NEXT WORD, OR VIEW IT ON THE SCREEN. WHEN VIEWING IT, YOU ARE SHOWN A MUCH LARGER AREA IN CONTEXT THAN YOU WERE IN THE DRAGON SLAYER. WHEN ADDING TO THE USER DICTIONARY, IT ADDS IMMEDIATELY INSTEAD OF WAITING UNTIL THE END, AND LOADING IT IN AS DID DRAGON SLAYER.

SOME OF THE "COMMON" WORDS IT DID NOT RECOGNIZE IN CHECKING MY LIMA REPORT WERE: TRULY, WROTE, NAMES, SUPPLIES, AND NEWSLETTER. I WAS SUPPRISED AT TRULY, WROTE AND NAMES. I GUESS WHEN YOU ONLY HAVE 20,000 WORDS, YOU HAVE TO BE

SELECTIVE!

WHEN CORRECTING THE ORIGINAL PAGE, IT REFORMATS AND YOU DO NOT HAVE TO GO BACK AND DO ALL THE REFORMATTING THAT WAS NECESSARY WITH DRAGON SLAYER. IN ORDER TO MAKE THE PROGRAM RUN FASTER, YOU CAN CREATE YOUR CUSTOM DICTIONARIES BY GOING THROUGH THE LISTS AND ELIMINATING WORDS THAT YOU WILL NEVER USE. OR, YOU CAN TAKE WORDS FROM THE USER DICTIONARY THAT YOU USE ALL OF THE TIME AND INSERT THEM IN THE CORRECT ALPHA DICTIONARY. THE DICTIONARIES ARE IN ASCII DV/80 FORMAT AND CAN BE LOADED IN TI-WRITER OR EQUIVALENT FOR EDITING.

ALL, IN ALL, THIS IS A MUCH MORE USER FRIENDLY PROGRAM THAN WE HAVE HAD PREVIOUSLY. GET IT FROM ASGARD SOFTWARE, P.O. Box 10306, ROCKVILLE, MD 20849. THE SSSD VERSION IS \$24.95 AND THE DSSD VERSION IS \$19.95. I FORGET THE COST FOR THE HARD DISK VERSION.

GRAPHIC GRABBER

DEANNA SHERIDAN - NORTHCOAST 99ERS, CLEVELAND, OHIO

THERE ARE LOTS OF SMALL PROGRAMS IN OUR LIBRARY WE SEEM TO PASS OVER FOR THE "BIG STUFF". THERE IS A NICE PROGRAM TO PRINT LABELS WHICH ARE CREATED WITHIN TI-ARTIST. A TEMPLATE IS ENCLOSED WITH A SAMPLE LABEL. SIMPLY ERASE THE DATA YOU DO NOT NEED AND SAVE IT BACK AS A BLANK TEMPLATE FOR LATER USE. YOU COULD EVEN CHANGE THE BORDER AND MAKE CUSTOM BORDERS.

AFTER YOU HAVE CREATED YOUR LABEL (WHICH COULD USE ANY GRAPHIC AND ANY ARTIST FONT THAT WOULD FIT INTO THE SPACE), YOU SAVE IT IN ARTIST PROGRAM FORMAT. THEN YOU RUN THE PROGRAM, GRAB2 WHICH TAKES THE INFORMATION IN THE ARTIST PICTURE AND SAVES IT IN A FORMAT THAT CAN BE READ THRU XBASIC.

THE LAST STEP IS TO RUN A SMALL XB PROGRAM CALLED LABEL2 WHICH ALLOWS YOU TO PRINT AS MANY COPIES OF THE LABEL AS YOU WISH. THIS MAY SOUND LIKE A LOT OF WORK, BUT USUALLY THE LABELS YOU USE FOR YOUR RETURN ADDRESS, ETC. WILL BE THE SAME OVER AND OVER AND ONCE THE LABEL HAS BEEN CREATED, YOU CAN GO BACK AND RUN THE XB PROGRAM AS MANY TIMES AS YOU WISH. THE GRAB2 PROGRAM IS IN ASSEMBLY AND WORKS QUICKLY.

MY ONLY COMPLAINT ABOUT THIS PROGRAM, WAS THAT AS WITH SO MANY PROGRAMS THAT DO NOT OVERSTRIKE, THE PRINTING WAS NOT AS DARK AS I WOULD LIKE FOR A LABEL. FORTUNATELY, THE LABEL2 PROGRAM IS WRITTEN IN XB, AND I WAS ABLE TO CHANGE ONE LITTLE LINE TO LET IT OVERSTRIKE AS MANY TIMES AS I WISHED.

CHANGE LINE 40 AS FOLLOWS:

```
40 INPUT #1:AS :: FOR R=1 TO 3 :: PRINT #2:CHR$(27);  
CHR$(75); CHR$(232);CHR$(0);AS;CHR$(13):: NEXT R ::  
PRINT #2:CHR$(10)
```

THE CHANGE I MADE TO THE PROGRAM WAS THE FOR R=1 TO 3 AFTER THE INPUT #1:AS AND THE NEXT R AFTER CHR\$(13). YOU CAN CHANGE R TO ANY VALUE YOU WISH. I FOUND THAT OVERSTRIKING THREE TIMES WAS VERY ADEQUATE AND MADE AN EXTREMELY ATTRACTIVE LABEL.

THIS IS IN THE CLEVELAND LIBRARIES FOR THE ASKING.

FOR SALE:

COMPLETE SYSTEM - VERY LIGHT USE

INCLUDES:

PEB WITH INTERNAL AND EXTERNAL SSSD DRIVES - NO RS232 BUT PARALLAX
PRINTER INTERFACE.

72 CARTRIDGES; 2 XB CARTRIDGES, ONE SUPERXB, SPEECH, CASSETTE RECORDER;
GEMINI 10X PRINTER, 2 JOYSTICKS, SUBSCRIPTION TO MICROPENDIUM, 2 COMPLETE
ISSUES OF BARY TRAVER'S DISKAZINE AND SUBSCRIPTION TO THIRD. MEMBERSHIP IN
NORTHCOAST 99ERS. PRICE NEGOTIABLE. PLEASE CALL JEFFERY RUDOLPH AT
461-3694.

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STRUCTURE of 74LS'Sn Databases

CREATED 04/02/90 CHANGED 04/03/90
 FIELD DESCRIPTOR TYPE WIDTH DEC

FIELD	DESCRIPTOR	TYPE	WIDTH	DEC	DESCRIPTOR
1	COPNM	N	005	00	Company Part Number
2	MFGPARTNUM	C	010		Manufacturer Part No.
3	CPRICE	N	006	02	Current Price
4	CRS	N	003	00	Current Stock Quantity
5	MNS	N	003	00	Minimum Stock Reference
6	MXS	N	003	00	Maximum Stock Reference
7	LCTN	C	004		Location Drawer n Bin n
8	LASTSALE	D	008		Last Sale Date
9	LRESTOCK	D	008		Last Restock Date
10	MSN	C	003		Normal Supplier Number
11	BDESC	C	040		Description

000 1 74LS'MT 00000/00000

REC	COPNM	MFGPARTNUM	CPRICE	CRS	MNS	MXS	LCTN	LASTSALE	LRESTOCK	MSN	DESC
0	1000	74LS00	.14	26	10	20	/	/	/	/	24
0002	1002	74LS02	.14	10	5	10	/	/	/	/	24
0004	1004	74LS04	.14	13	5	10	/	/	/	/	24
0005	1005	74LS05	.14	3	5	10	/	/	/	/	24
0008	1008	74LS08	.14	2	5	10	/	/	/	/	24
0011	1011	74LS11	.14	9	5	10	/	/	/	/	24
0014	1014	74LS14	.30	9	5	10	/	/	/	/	24
0021	1021	74LS21	.16	8	5	10	/	/	/	/	24
0027	1027	74LS27	.20	5	5	10	/	/	/	/	24
0030	1030	74LS30	.14	7	5	10	/	/	/	/	24
0032	1032	74LS32	.16	27	10	20	/	/	/	/	24
0038	1038	74LS38	.24	4	5	10	/	/	/	/	24
0042	1042	74LS42	.35	3	3	8	/	/	/	/	24
0074	1074	74LS74	.22	28	10	20	/	/	/	/	24
REC	COPNM	MFGPARTNUM	CPRICE	CRS	MNS	MXS	LCTN	LASTSALE	LRESTOCK	MSN	DESC
0023	1123	74LS123	.45	7	5	10	/	/	/	/	24
0025	1125	74LS125	.30	9	5	10	/	/	/	/	24
0038	1138	74LS138	.35	2	2	7	/	/	/	/	24
0039	1139	74LS139	.35	3	2	7	/	/	/	/	24
0053	1153	74LS153	.35	3	2	7	/	/	/	/	24
0057	1157	74LS157	.30	2	2	7	/	/	/	/	24
0061	1161	74LS161	.35	3	2	7	/	/	/	/	24
REC	COPNM	MFGPARTNUM	CPRICE	CRS	MNS	MXS	LCTN	LASTSALE	LRESTOCK	MSN	DESC
0021	1221	74LS221	.50	4	2	7	/	/	/	/	24
0044	1244	74LS244	.55	5	3	8	/	/	/	/	24
0045	1245	74LS245	.55	6	3	8	/	/	/	/	24
0051	1251	74LS251	.45	3	2	7	/	/	/	/	24
0057	1257	74LS257	.35	2	2	7	/	/	/	/	24
007	1259	74LS259	1.00	5	2	5	/	/	/	/	24
REC	COPNM	MFGPARTNUM	CPRICE	CRS	MNS	MXS	LCTN	LASTSALE	LRESTOCK	MSN	DESC
0067	1367	74LS367	.35	1	0	1	/	/	/	/	24
0073	1373	74LS373	.50	3	5	10	/	/	/	/	24
0074	1374	74LS374	.45	7	5	10	/	/	/	/	24
REC	COPNM	MFGPARTNUM	CPRICE	CRS	MNS	MXS	LCTN	LASTSALE	LRESTOCK	MSN	DESC
0022	1670	74LS670	1.44	1	0	0	/	/	/	/	24

Because of the limitations of our machine, Databases larger than two or three hundred records should be avoided at all cost. For my own use I prefer that a Database be no larger than 125 records. If I think that I will need a greater number than that, I plan on creating a number of Dbs to handle the job with a maximum of 125 to 150 records per Db. I decided to try to demonstrate my ideas by setting up an inventory for my Integrated Circuit stock. I will limit myself to the 74LS series chips. For those of you who know nothing of hardware, these little rascles play a big part in making your TI99/4A compute. The parts we use don't matter, the ideas should apply to a record collection, a coupon inventory or a small business selling baseball cards. If you have no interest in the data handling ideas, then possibly the tips on the new Ver. 3.0 additions will help. I started by observing the problems of this task. It looked as though I would need 5 Dbs to cover the LS series. Each Db would have a maximum of 100 records. 100 records is still efficient for SORTing or FINDing what you want. Because I didn't want to type in a bunch of junk I decided to whip up a CF to fill my Dbs, except for number 5 which I entered by hand. NOTE: The printout you see to the left is the STRUCTURE of my empty Db, with complete field names, and below that, a listing of all 5 Dbs for records with current stock on hand displayed. If you were doing this for a company, you would look over their inventory records, their purchase orders and their sales slips, to determine the basic field make up for the empty Db (74LS'MT). I whipped up

SUBNUM2/C, NUM99/C and NUM100/C to place blank fields in my Dbs. The LS series will use Dbs, 74LS'S1, S2, S3, S4 and S5, with the Company Part Number being placed between 1000 and 2000. This is because the LS series is only part of the total IC (Integrated Circuit) picture. There are 7400s (with no letters), 74S, 74C, 74HC, 74AC, 74F, 74HCT, the 4000 series, etc. We could cover most of these part numbers starting with COPNM 0 and going through 9999, with the LS series at 1000/2000. We can look at one Db at a time (74LS'S1), or as many as five Dbs, (74LS'S1, S2, S3, S4, and S5) at the same time in different slots. I hope to get into some complicated application of this later. For now let's look at SUBNUM2. SUBNUM2 will copy the empty Db (MT) to S1, S2, etc. You must change the destination Db name for each run. You must also change the START and STOP value for each grouping of one hundred. As it is SUBNUM2 will COPY MT to S1, it will APPEND 100 blank records and as it goes it will fill in the COPNM and MFGPARTNUM fields from 0 to 99, or from 74LS00 to 74LS99. It does this by concatenating the constant 74LS and part the number (NUM) being counted at the time. You should take special note of the lines containing SUBSTR(ITEM,n1,n2). ITEM can be any C)haracter type string, n1 is the number of the starting character and n2 is the length of the character string to be extracted. NUM is a N)umeric Local so I REPLACE TEMP WITH NUM right after the APPEND line to allow for the SUBSTR Command. SUBSTR and DO \RES are both Ver. 3.0 Commands. I know that my use of Ver. 3.0 functions will be a hardship on some TI-Base users, but I must unhappily inform you that my tutorials will stop in the not to distant future, and I'd like to cover as much as possible before I quit. Demands on my time, by my job and other commitments are making it very difficult to continue.

Continued Next Page.

TI-BASE - From INSCEBOT
 TUTORIAL 19.1.2 By Martin Smoley
 NorthCoast 99'ers - May 19, 1990
 Copyright 1990 By Martin A. Smoley

```
*      05/14/90      SUBNUM2/C
*
SET RECNUM OFF
LOCAL SECTION N 5
REPLACE SECTION WITH 1000
*
* SECTION 1000 is the LS series
LOCAL START N 5
REPLACE START WITH 000
*
LOCAL STOP N 5
REPLACE STOP WITH 100
*
LOCAL NUM N 5
REPLACE NUM WITH START
LOCAL ITEM C 7
LOCAL TEMP C 5
* Replace all occurrences of S1 with
* S2, S3, S4 and S5 as needed.
COPY DSK1.74LS'MT/S DSK2.74LS'S1/S GO
COPY DSK1.74LS'MT/D DSK2.74LS'S1/D GO
USE DSK2.74LS'S1
  IF START<100
    DO DSK1.NUM99
  ENDIF
  IF START>99
    DO DSK1.NUM100
  ENDIF
SORT ON COPNM
CLOSE ALL
DO \RES
RETURN Copyright Martin A. Smoley
```

```
*      05/14/90      NUM99/C
*
WHILE NUM<STOP
  APPEND BLANK
  REPLACE TEMP WITH NUM
  IF NUM=0
    REPLACE ITEM WITH "74LS" | "00"
  ENDIF
  IF (NUM>0).AND.(NUM<10)
    REPLACE ITEM WITH "74LS0" | SUBSTR;
    (TEMP,5,1)
  ENDIF
  IF (NUM>(START+9)).AND.(NUM<STOP)
    REPLACE ITEM WITH "74LS" | SUBSTR;
    (TEMP,4,2)
  ENDIF
  REPLACE COPNM WITH NUM+SECTION
  REPLACE MFGPARTNUM WITH ITEM
SET TALK OFF
DISPLAY NUM,COPNM,MFGPARTNUM,START,STOP
SET HEADING OFF
  REPLACE NUM WITH NUM+1
ENDWHILE
RETURN Copyright Martin A. Smoley 1990
```

```
*      05/14/90      NUM100/C
*
WHILE NUM<STOP
  APPEND BLANK
  REPLACE TEMP WITH NUM
  REPLACE ITEM WITH "74LS" | SUBSTR;
  (TEMP,3,3)
  REPLACE COPNM WITH NUM+SECTION
  REPLACE MFGPARTNUM WITH ITEM
SET TALK OFF
DISPLAY NUM,COPNM,MFGPARTNUM,START,STOP
SET HEADING OFF
  REPLACE NUM WITH NUM+1
ENDWHILE
RETURN Copyright Martin A. Smoley 1990
```

The SUBNUM2 set will probably be of no value to most of you because this situation does not apply or because you have already hand typed all your data into one big Db. However, the idea of multiple Dbs is the way to go and any Db can be broken into several parts using a numeric counter to copy certain portions of one large Db to separate pieces in other small Dbs. The individual small Dbs need not be fully numbered. Items can be added or deleted with ease, provided spaces are left between records for new entries. This is the situation I have created by hand entering the data in S5 which I have listed below. I clipped off the MSN and DESCRIPTION fields to save space.

Listing of 74LS'S5 Database

REC	COPNM	MFGPARTNUM	CPRICE	CRS	MNS	MXS	LCTN	LASTSALE	LRESTOCK
0000	1423	74LS423	.					/ / / /	
0001	1424	74LS424	.					/ / / /	
0002	1490	74LS490	.					/ / / /	
0003	1533	74LS533	.					/ / / /	
0004	1534	74LS534	.					/ / / /	
0005	1540	74LS540	.					/ / / /	
0006	1541	74LS541	.					/ / / /	
0007	1574	74LS574	.					/ / / /	
0008	1590	74LS590	.					/ / / /	
0009	1612	74LS612	.					/ / / /	
0010	1623	74LS623	.					/ / / /	
0011	1624	74LS624	.					/ / / /	
0012	1625	74LS625	.					/ / / /	
0013	1626	74LS626	.					/ / / /	
0014	1627	74LS627	.					/ / / /	
0015	1629	74LS629	.					/ / / /	
0016	1640	74LS640	.					/ / / /	
0017	1641	74LS641	.					/ / / /	
0018	1642	74LS642	.					/ / / /	
0019	1643	74LS643	.					/ / / /	
0020	1645	74LS645	.					/ / / /	
0021	1646	74LS646	.					/ / / /	
0022	1670	74LS670	1.44	1	0	0		/ / / /	
0023	1688	74LS688	.					/ / / /	

If you spend a little time contemplating S5, you should see that the whole system could be set up in this manner if you desired. As long as you establish the breakoff points from one Db to the next the numbering in an individual Db can wander all over the place. They need not be specifically numbered from 0 to 99 or have any other set patterns.

Continued Next Page.

TI-BASE - From INSCEBOT
TUTORIAL 19.1.3 By Martin Smoley
NorthCoast 99'ers - May 19, 1990
Copyright 1990 By Martin A. Smoley

I have listed the CF named LSEEDIT3 and its parts for your examination. I used this CF to edit the LS series fields after the Dbs were expanded to their full size. This EDIT CF allowed me to quickly enter the data for CPRICE, CRS, MNS, NXS and NSN for chips I have in stock.

```
*      05/06/90      LSEEDIT3/C
CLOSE ALL
INSTALL ADD DSK1.\ED
LOCAL ITEM N 5
REPLACE ITEM WITH 1999
LOCAL LOOP N 2
REPLACE LOOP WITH 1
  DO DSK1.LSUSE
  DO DSK1.LSSCRN
WHILE LOOP
WHILE ((ITEM<999).OR.(ITEM>1688))
WRITE 22,3,"Enter ITEM Number = >
READ 22,24,ITEM
IF ITEM<0
  CLOSE ALL
  INSTALL REMOVE \ED
  RETURN Copyright Martin A. Smoley 1990
ENDIF
```

```
REPLACE ITEM WITH ITEM+1000
WRITE 22,3,"Company Part No. =
WRITE 22,23,ITEM
WRITE 21,3," Press FCTN 8 Then FCTN 9
WRITE 22,3," After Each Record Edit
ENDWHILE
IF ((ITEM>999).AND.(ITEM<1100))
  SELECT 1
  DO \ED
ENDIF
IF ((ITEM>1099).AND.(ITEM<1200))
  SELECT 2
  DO \ED
ENDIF
IF ((ITEM>1199).AND.(ITEM<1300))
  SELECT 3
  DO \ED
ENDIF
IF ((ITEM>1299).AND.(ITEM<1400))
  SELECT 4
  DO \ED
ENDIF
IF ((ITEM>1399).AND.(ITEM<1689))
  SELECT 5
  DO \ED
ENDIF
REPLACE ITEM WITH 1999
ENDWHILE
RETURN Copyright Martin A. Smoley 1990
```

```
*      05/06/90      LSUSE/C
SELECT 1
USE DSK2.74LS'S1
SELECT 2
USE DSK2.74LS'S2
SELECT 3
USE DSK2.74LS'S3
SELECT 4
USE DSK2.74LS'S4
SELECT 5
USE DSK2.74LS'S5
RETURN Copyright Martin A. Smoley 1990
```

There's a lot to cover and I'm running out of time. The INSTALL ADD DSK1.\ED is one example of the temporary use of VDP memory for a command you may need many times in a CF. TIB looks for the CF named \ED on drive 1 and adds its contents to the INSTALL section. DO \ED is the way to execute this command from a CF. The CF named LSSCRN puts up an information screen that asks for your IC number input. INVERSE ON is inverse video. My preset colors are white letters on a dark blue background. INVERSE ON creates an area of the screen with dark blue letters on a white background. With the use of blank spaces you can do some neat stuff with INVERSE ON and OFF. All five Dbs are used at the same time so the FIND is quite fast because you are pointing to a smaller segment of the total series with the IF section, and selecting a slot from there. With the FIND/EDIT in VDP memory you save disk access time. This would be much more noticeable with \RES as used in SUBNUM2. \RES contains 15 lines of code where \ED only has 2. It may help you to reread the MAY issue on the new INSTALL feature. I'll try to rehash this stuff next month and continue the ideas on handling multiple Dbs instead of one large Db. Good luck for now. Marty.

```
*      05/06/90      LSSCRN/C
SET TALK OFF
CLEAR
SET HEADING OFF
SET RECNUM OFF
WRITE 6,8,"Enter the right hand digits"
SET INVERSE ON
WRITE 2,6," ";
" "
WRITE 3,6," 74LS Series Integrated ";
"Circuits "
WRITE 4,6," ";
" "
WRITE 8,16," "
WRITE 9,16," EXAMPLE "
WRITE 10,16," "
SET INVERSE OFF
WRITE 12,6,"Manufacturer      You"
WRITE 13,6,"Part Number          Enter"
WRITE 15,12,"74LS221 = >221 < ENTER
"
WRITE 17,12,"74LS01 = >01 < -1
"
WRITE 19,34,"TO QUIT"
RETURN Copyright Martin A. Smoley 1990
```

FIND ITEM The complete CF named \ED is two lines
 EDIT FIND ITEM and EDIT. No comments or RETURN.

Continued Next Month.

MAGIC FILE MANIPULATOR V2.1
DEANNA SHERIDAN - NORTHCOST 99ERS - CLEVELAND, OHIO

THERE IS AN OLD SAYING THAT IF YOU CAN'T BEAT THEM, YOU SHOULD JOIN THEM. AS MORE AND MORE OF OUR TI PEOPLE JOIN THE IBM WORLD, WE NEED TO FIND EASIER WAYS FOR OUR TI'S TO COMPLIMENT THESE MACHINES INORDER TO EXTEND THE TI COMPUTER'S LIFESPAN.

LAST MONTH I REVIEWED PC TRANSFER BY PETER J. HOODIE. THIS IS ONLY FOR THOSE WHO HAVE DSSD DRIVES. FOR THOSE WITHOUT DSSD DRIVES, I FOUND MAGIC FILE MANIPULATOR BY BEN HATHEWAY, 2551 SANTA BARBARA LN. #204, COSTA MESA, CA. 92626, UGOC 99885 (714) 751-4332 TO BE A HANDY DANDY UTILITY.

MAGIC FM IS FACILITATES THE TRANSFER OF FILES BETWEEN THE TI ON WHICH IT IS RUNNING AND ANOTHER COMPUTER SUCH AS A PC CLONE USING XMODEM CRC PROTOCOL. ALL KEYBOARD FUNCTIONS CAN BE PERFORMED ON THE SYSTEM CONNECTED TO THE ONE ON WHICH THIS PROGRAM IS BEING RUN ELIMINATING THE NEED TO SETUP A TERMINAL EMULATOR PROGRAM ON EACH AND THEN GOING BACK AND FORTH BETWEEN THE TWO COMPUTERS TO EFFECT A TRANSFER. WHEN TRANSFERRING A DF/128 FILE FROM THE SYSTEM RUNNING THE PROGRAM YOU WILL BE ASKED IF YOU WISH THAT A TIFILES HEADER BE SENT. SINCE DF/128 IS THE FORMAT IN WHICH NON-TI FILES ARE USUALLY FOUND ON TI SYSTEMS AS WELL AS THE FORMAT USED BY SOME GRAPHICS FILES, IT MAY BE DESIRABLE TO OMIT THIS HEADER WHEN TRANSFERRING TO A COMPUTER OTHER THAN ANOTHER TI OR GENEVE.

THE PROGRAM IS CAPABLE OF SPEEDS UP TO AND INCLUDING 19200 BAUD AT BN1 (8 BITS, NO PARITY, 1 STOP BIT), AND YOU SHOULD SET YOUR TERMINAL PROGRAM TO THOSE PARAMETER SETTINGS. SPEED SELECTION IS DONE BY EDITING THE EXTENDED BASIC PORTION (MAGICFM). CHOICES ARE COMMENTED IN THE APPROPRIATE LINE.

THERE IS ALSO A FILE MANAGEMENT SECTION THAT INCLUDES THE ABILITY TO PROTECT, UNPROTECT, RENAME, AND DELETE A FILE ON DRIVES 1-4. SELECTING D)DELETE AUTOMATICALLY ASKS FOR VERIFICATION OF SELECTION AND THEN WILL AUTOMATICALLY UNPROTECT PRIOR TO DELETION. IN LIKE MANNER, RENAMING A FILE WILL CAUSE THE FILE TO BE UNPROTECTED BEFORE RENAMING. THE DISK IS FIRST CHECKED FOR THE SELECTED FILE BEFORE ANY OPERATION IS PERFORMED AND AN ERROR MESSAGE WILL BE RETURNED SHOULD THE FILE NOT BE FOUND ON THE CHOSEN DISK.

FILENAMES ARE ALSO VERIFIED AND ERROR MESSAGES DISPLAYED IF YOU ATTEMPT TO UPLOAD A FILE THAT IS ALREADY PRESENT ON THE DESTINATION DISK. IN THIS CASE, USE THE F)ILE MANAGEMENT SECTION TO DELETE OR RENAME THE EXISTING FILE BEFORE UPLOADING THE NEW ONE.

SIMILARLY A WARNING MESSAGE WILL BE DISPLAYED IF A FILE SELECTED FOR DOWNLOADING IS NOT FOUND.

VERSION 2.0 NOW ALLOWS VIEWING A DV/80 OR DF/128 FILE WITH OR WITHOUT CARRIAGE RETURNS AND LINE FEEDS. MERELY FOLLOW THE PROMPTS. THIS PROGRAM RUNS FROM EXTENDED BASIC. DO NOT USE A LOADER LIKE BOOT TO LOAD IT SINCE IT WILL NOT LOAD PROPERLY. IT IS BEST TO RUN IT DIRECTLY FROM XB BY SELECTING XB FROM THE MAIN TITLE SCREEN.

CABLE CONNECTIONS ARE SIMPLE. PINS 1 AND 7 ARE DIRECTLY CONNECTED AND 2 AND 3 MAY NEED REVERSING DEPENDING UPON THE COMPUTER ATTACHED. BE SURE TO KEEP PINS 20 AND 8 FROM BEING HELD LOW (PULLED TO GROUND) FOR PROPER OPERATION. A NULL MODEM ALSO WORKS.

THIS PROGRAM IS A JOY TO USE IN THAT I ONLY NEED ONE KEYBOARD. ON MY LEADING EDGE I CAN PERFORM ALL OF THE ABOVE FUNCTIONS AND DO NOT HAVE TO SWITCH BACK AND FORTH AS LONG AS THERE IS SUFFICIENT SPACE ON THE DISK. THIS PROGRAM WILL BE IN THE NEXT LIBRARY UPDATE FOR THE CLEVELAND GROUPS. (HOPEFULLY BY THE JUNE MEETINGS.)

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!

FIRST CLASS

FIRST CLASS

FIRST CLASS

FIRST CLASS

Exp Date: 90/07