Ogdens 99'er User Group

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NEXT KE

**NEETINGS** 

ARE

NEWSLETTER



































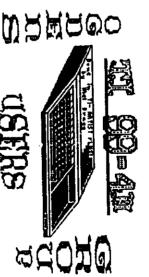








A publication of the TI 99/4 and 9640 Opden users proup inc.



21

CLUB THAT REFUSES TO SAY GOODBYE

SATURDRY: APRIL 07 TIME: 0900 hrs.
TUESDRY: APRIL 03 TIME: 1900 hrs.
TUESDRY: APRIL 03 TIME: 1900 hrs.
Whill be mesting in the CIVIL RIR PATROL building at the BODEN MUNICIPAL RIRPORT RURD. On the 03rd and the 17th RIRPORT RURD. On the 03rd and the 17th RIRPORT RURD. Class for those interested the people taking the BASIC class will meet on the FIRST and THIRD Tuesday of the Month at times above. Jim Buck is the teacher. These meetings are held at the Hill Side Center in the teacher.

tings are held at

情報の W の存むに合う ので LAYTOW, UT MACCO HAPPY EASTER 5,

Happy Easter



HOLLY Genosaphrats

I must have taken the brong turn back there!

RPRIL

1990

TROGRAMMICKO BASKO FOR BEGINNERS OF SIMPLE

accomplizhment. You also now have some knowledge of the way the computer must work with math problems. Know we will start putting some of this together and produce "produce " reusable produce " ramambar, we all do our bast learning from making mistakas, so gat ready for some "real learning". accomplishment. You Hode and worked BRSIC Statements CALL CLEAR; "Programs" the previous Statements: sessions, Emmediate Plansa ar (pr でなりなす。

immediately.

immediately.

programming: we can store statements in memory for later use. A program line number followed by a space in the Command NEW and FRIER. This will clear the command NEW and clears the screen than CRLC CLERR which only Clears the screen than than the different than CRLC CLERR which only Clears the them. computer DRINT THIST SCTERN. THERE?". THERE? 9

CHILL CLIE

10 PRINT "HI THERE!"
20 PRINT "ARE YOU RERDY"
PRINT "TO LEARN BASIC?"
40 END

if arrors are made, there are several ways to correct them. If you are still on the line, just use arrow keys to correct the arror. If you have already Entered the line, then just ratype it completely and the new line and number will raplace the t

> Or you can type in the line number and then press FCTM
>
> R ar X (then press FCTM ach program I had computer will number followed the corrections for you to save room be make the corrections. After a that new correcting, Press ENTER and added between the correcting is now a children the correction is now a children the correction. your program.

Program again? Than just sa.

type in the immediate

Command LIST. After this ach program line will

simple four line program is perated in nume

typed in correctly, it can equence, regardless

be operated by typing in an you type it.

the Command RUN followed by

command RUN followed by

commands and States

Now lat's modify this or program a bit. In running to it several times we have an it several the scammand. It is so simple to improve the so simple to improve the so simple to improve the so simple to it work things to future programs with BRSIC that make to future programs to future to do it. The way you want it works to the seally like to do it. the program, following, CAMP CAMP

PRESS ENTER and this is nymore and want to do new part of your program nymore and want to do to check it, just call for onething size, then type I to check it, just call for onething size, then type I to check it, just call for a number among and the program I the cleared be in a numbered line; an item will be cleared be in a numbered line; an item. Sout as soon as you want to classes. Now try RUN. An large a program line. You again and again. Notice how you can retype the that the screen turns green in make that change. But I mack the program is make that change. But I mack the program and when hold interest type the line returns to the light blue. Inhanced then pres either

programming/

ach program line must have Fol Lowed

between Sanil numbers

Jeh line must be f y ENTER to place it seputer's program rea. Followed etorage (A (ha

numerical diass of

hey are not. Commands, which as KEW, LIST, RUM are madiate and do not must have the line indicator and has curser flashing to use the line commands. If he curser flashing to use the not, then clear The program with FOTK Catement umbered program line. natruction you ommands and s Statements. discuss clear 4. R 3

on't need that promote and want to f you get lost in ou are, just clear cogram (FCTM 4) and IST, then you'll 3.1 されなり Know Know nos

The work and then pres either the up or down arrow CFCTW or or FCTW X). Let's try it change the Statement TO FRRW BASIC to TO LERRW TI TO First, Ist's

CONTRIDGES FOR MANAGEMENT SALE HOUSEHOLD BUDGET MANAGEMENT SALE HOUSEHOLD BUDGET MANAGEMENT SALE SALE AND SER SALE AND SALE AND SER SALE AND SALE arrow Key. Wasn't that basy, and no mistakes. Then use the arrow Keys to position this case, press INSert (FOTK 2), make your addition and then press ENTER. Do you want to see it? Use the command LIST or RUN. Try them both to get used to it.
CARTRIDGES FOR SALE RICHARD MORRISON AT 601/621-3697) DR WRITE 2570 FOWLER DGDEN, UTRH 64401 tine number you wan visible. get the Then type 100 to SO DESK CONTRCT in the

#### THIS TO WRITE LETTERS

time you want to write a letter just load in the file and you'll be able If you write a lot of latters, or even just a few and you have tupe in the file as you see it listed here and then save it to disk. An

to write nice neat and properly spaced letters every time.

You will need to customize this file with your address and make any other changes to conform to your style, but this is the suggested formet. On the style shown here, we have also included footer and header commands which you might want to include if you are writing long latters or instructions that require more than one page. If you don't want them for your average latter, simply deleta lines 0001 and 00038 that include the .ME and .FO.

Once you have customized your file and saved it, simply load it into the editor whenever you want to write a letter. On lines 0011 you need to over-write the correct date and on lines 0013, 0014, 0015, and 0016 you will put in the name and address of who you are writing to. Your greating on line 0018 and your salutation on line 0026 can be in standard form or you can change it as you like. You can then write your letter adding lines or eliminating lines depending on the length. If your entire letter requires more than SB lines it will automatically use another page.

Don't forget to save your letter after writting it. A handy file name would be the lest rame of the person your writting.
The formet of the headings etc., are taken from the accepted standards used today. With a little experience "LETTERFILE" will find many uses.

Greetings, Start your letter here-----To City and State ş . 8 9 Date xxxxx, 1990 Your Š Your salutation ID Name SP 2;LM B John TOUT NAME HOTE LM 43; RM 72; F1; PL 58 Address ger letter N ZIP code City and State Addrass telephone number (optione)) DEDEK TY USER GROUP Page YOUR Name &

EH-AGE/99 # NEW-AGE /99 \* NEW-AGE/99 \*

## by JACK SUGHRUE, Box 459, East Douglas, MA 01516

There's a new (I think) company making software for the TI: Arcade Action, Program Innovators, 4122 Glenway, Wawatoss, WI 53222 They have a nice version of TMTRIG. They also have the usual space shoot ses. They have a program called Snowmobile which is yet another version of the Regena-style skiing/river-travel manuevering. And they persion of the Regena-style skiing/river-travel manuevering. have a bunch of other stuff, all of which is detailed in their free

what they have that is WONDERFUL and a true first for the TI

Community is a superb cribbage game!

It's perfect in the sense that it is completely playable. It is interest in the sense that it is completely playable. It is reasonably fast. It is intelligent and colorful and extremely woll reasonably fast. It is intelligent and colorful and extremely woll little touches, though you won't need to add little touches to this game 11 of its 60 sectors. designed and in Extended Basic for people who like to add their The unknown author even offers simple suggestions for reducting

detail. For example, you must type each card with the pip value first and the suit (S,H,D,C) second. A Five of Hearts would be SH; a Dueen of Clubs, OC; an Ace of Diamonds, AD. You get the picture. So take a hand like SH, JD, SS, SC, with the play card the SD. Any cribbage players recognize the Grand Hand when they see it and know it equals 29, the highest score in cribbage. The computer will tell you this when you type. In that hand. It will also break down all of the patterns by individual scores (15s, Ouadruplets, His Nobs) to show you exactly how the hand is scored. You can create any legitimate hand you'd like for detailed analysis by the computer. This is a superb help feature. not only lets you play against an intelligent computer but allows some interesting inputs. During the game, for example, if you wish to question the computer's judge of the game, for example, if you wish to question the computer's for the game, for would like to test out some odd card combos) you simply type "C" for Count Check at the end of a hand (instead of the default "P" for centinuing Play). You may then set up a hand, including play card. The computer will score it, explaining each There have never been any good, playable TI cribbage games, but game, called CUTTHROAT CRIBBAGE, is something else entirely. This particularly for the novice. The pro will have a good time with this but this game.

On screen graphics are equal to the best 1've seen for ANY card game. The board on the right side runs hand totals to their new mark before filling in the pag area up to that point. There are three rows of 40 instead of the up-down 30/30 of normal cribbage boards; more like the continuous steeplechase boards which are becoming popular. But what kind of game does it play? It is a very good opponent that knows the rules perfectly. And you better not make an error in scoring or it will call "Huggins" on you and take the points; thus, the name

The only cheating I was able to do (and get away with) was to call a so after a 23 when I had a three left in my hand. I got a point for last gard at 23g . The computer called Go. I returned

DEDEN TI USER GROUP Page

sneaky little buggers like myself trying four; I played my three and got another point ve. But I assume the author did not anticipate through a game

instead of playing properly.

Except for the ability to cheat at the Go and the inability (on the computer's part) to note a Skunk or Lurch, this is a fantastic game in NEW-AGE/99 rates this an A+! It is user-friendly; it is

easy, Anyway, if you don't play, get someone to teach you or get a Hoyle's and, with Cutthroat in front of you, teach yourself. This game makes it learn to score. particularly with the option of creating any hands you want to

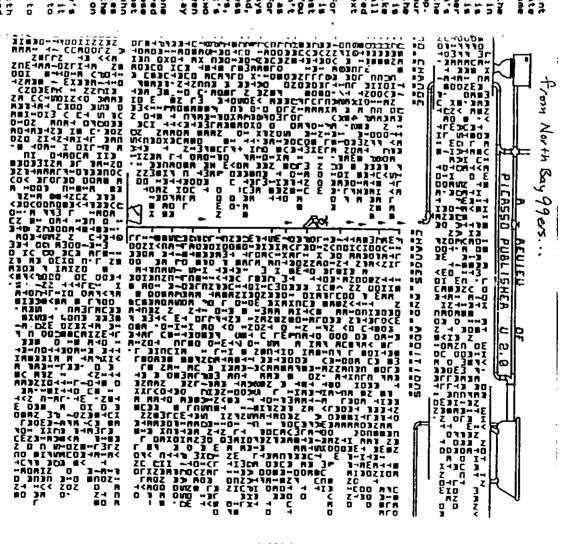
My fifth-grade students play it constantly and are even beginning to beat it almost as often as it beats them. Great learning tool. Finally, at game's end, there is no gloating. The screen fills with "YOUR VICTORY" or "MY VICTORY" without the obnoxious toots, plunks, and

burps that usually accompany such announcements. Very professional.

Now for those times when the urgs of the cribbage addict comes upon
you and no one is around to play, just pop a Foster's, turn on your

ME-166/77 please put so on your endhange list. I

DEDEN TI USER GROUP Page



"1994 CT HIM PRINTED LITH PICASSO WERE SAIN ITH STRINGS."

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TOUR TIME,

EN---DATA INITIATION.... 37.11.07.13 NOT INTER OF WORDS NOT 20 THIN 650 INT TO LARGE OF THATER & OF COLUMNS 271C THE SHOW YOU WHERE I'VE HIDDEN THE WORDS IF YOU SAY PLEASE >":GS TO LARCE. F. 1140 Fal TO S TENTER WORD STIKS(K) OCS NEW THEN 500 "NAUT TO TITLE YOUR PUZZLE? ੍ਰੇਟ ਪ੍ਰਤੇ ਨ NOW WISH COPY OF PUZZLE? (PRINTER ATTACHED) Y OR NOTICS ... COND GYAE...: (LIKE WORD SEARCH)": : : : (ENTER TITLE OR 'NO') >":T\$ REH----KORD BREAKDOKK ROUTINE ---FUZZLE PRINT ROUTINE---NGS(): THEN 920 NGS(: P)O NGS TO R Jal TO R TIEMMUTION COINT— UT "HAT TO PLAY AGAINTY OR N)": BS BS " THANKS FOR PLAYING, BYE": : : : -r'l.059463094^(INT(RXD'24)+1) .SOUND(50.TOXE,20) .SY! + 24... \*1 TO 500 11:LS(1,J);" "; "Y" THEN 1060 THEN 1930 HEN 1920 TAB(10);LS(1,J); "; Fortunately the computer virus did no harm to our records. It was immediately decomed by all the bugs in our programming.

50 KET MORESTARC runs out of XB. Geneve users may want to use GPL 5 to speed pro

9 ' NORIA SEAKCH GAME BY CHARLES STERNBERG-TI 99/4 EDITON ON LARGER PUZZI.
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080 676 ī D=2 IF Q<>1 THEN 1350 GOTO 530 PRINT "I COMIN'T FIT THE WORDS IN - SORRY, TRY YEALN" REMFFFRANKON SELECTION OF DIRECTION---IF LS(X2+(I-1)\*00,X1)="." THEN 1750 IF LS(X2+(I-1)\*00,X1)<>SEGS(WS(K),I,I)THEN 1180 NEXT [ 22=(CH\*RND/100+.01)\*100 XJ=[NT(ZJ+P\*L9) Y2=[NT(ZZ+PA\*1^) (34=C-L9 (34>C) (1) スジーズーにら REM --- RANDOM SELECTION OF START POINT---SEX. [F D<>1 FOR J=1 TO L0-1 .\$(X2+1\*Q0,X1+I\*Q)=SEG\$(W\$(K),I+1,I) .EXT I F ROCOR THEN 1550 ごニボーしの F = 1 F CO<>C F. LS( $\hat{X}_{2+}^{2+}(I-1)^*Q0, \hat{X}_{1+}^{1+}(I-1)^*Q)=$ ". THEN 1650 F. LS( $\hat{X}_{2+}^{2+}(I-1)^*Q0, \hat{X}_{1+}^{1+}(I-1)^*Q) <> SEGS(WS(K), I, I) THEN 1180$ 2=INT(Z2+P0\*L0) PEM---ENTRY OF WORD IN THE PUZZLE---F D=0 THEN 1920 F D=0 THEN 1720 \$(X2,X1)=SEG\$(W\$(K),1,1) KNI)<=.5 THEN 1290 RND<.75 THEN 1390 RND<=.5 THEN 1329 RND>. 25 THEN 1410 Q0<>1 THEN 1370 THEN 1480 THEN 1460 THEN 1510 THEN 1530 12. X USER-HOSPLE EGAD 0

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                                                 CALL SOUND(200,K*220,20,2300/K,20)
PRINT ",";W$(K);
IF (S<>"Y" THEN 2240
PRINT #1:W$(K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REMI-PRINT TITLE TO PRINTER AND WORD LIST-
IF (S<>"Y" THEN 2160
OPEN #1: "PIO"
                          IF ('$<>"Y" THEN 2280
                                                                                                            PRINT "WORD LIST";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15(N2, N1) = SEGS(WS(K), 1, 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FOR T=1 TO LO-1
LS(N241*QO,XI)=SEGS(WS(K),I+1,1)
NEXT 1
                                                                                                                                         1.A.L. 01.11.AR
                                                                                                                                                                                                                                                                                                                                      IF WS(1+1)>=WS(1)THEN 2070
                                                                                                                                                                                                                                                                                                          .ET WS(1)=MS(1)
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1.$\(\chi_2\chi_1\right) + \((1-1)^*\Q\) <>SEGS(WS(K), 1, 1) THEN 11BO
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NT #1: : :
NT #1: " >>";T$;"<<"
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# BEDEN II USER GROUP Page 10

## EXPANDING YOUR SYSTEM Adding a disk drive, what to expect and what to look for.

#### by John Koloen

I think it is safe to say that anyone who is serious about using his computer should seriously consider acquiring a disk drive.

A disk drive and controller are more important than memory expansions, RAT disks, printers or color monitors. The only piece of equipment that might be more important than a disk controller/disk drive system if a Peripheral Expansion Box, though you can have a disk drive system without a PEB by using a CorComp Dicro Expansion System or stand-alone sidecar disk controller.

For the purposes of this erticle, we'll look at three system variations: a PEB with controller and disk drive; and brisfly a MES with a disk drive. The last of these is not recomended, but it is better than relying on a cassette recorder for data storage.

#### ENTRY LEVEL CASSETTE SYSTEM

Cassetts storage of data is an entry level system that allows buyers of the II console to save and load relatively short BASIC and Extended BASIC programs. It was not designed to utilize memory expansions, assembly language programs or other powerful tools. This isn't a bed arrangement as long as you are satisfied with using cartridge based software. However the best software isn't available on certridges. In fact, there are devices, which we'll get into in subsequent installment, that allow you to down the contents of most cartridges to disk and load and run them without the certridge.

Anyone who has upgraded from a cassetts to a disk system probably remembers the first time he used the the disk drive. I know I do. The first time I accessed the drive I know I was into something completely different and wonderful. It was akin to the feeling I had the first night I took the II console out of the box and plugged it into a black and white IV on the kitchen table. It was like Christess to a nine-year-old. Only I wasn't nine. With the addition of a disk sustem, you are catapulted into a new realm of computing. Suddenly you are able to load and run programs in seconds, operations which took sinutes with a cassette recorder. You can load and save these programs by name, too, instead of keeping track of their locations on a tape counter. No longer are you limited to viewing computer operations in a sequential manner. Yes, owning a disk drive system can change your computing life. Now to the details.

#### DISK CONTROLLERS

Selecting a disk controller is relatively straightforward if you have a PEB, you'll need a disk controller card. The card fits into the PEB. Disk controller cards have been

DGOEN I'S USER GROUP Page 11

### Expand Your Bystee Jan 80 MICROpendius

manufactured by a number of compenies, including Taxas Instruments, Myarc Inc. and CorComp Inc.

Disk controllers are used to communicate between the computer CPU and the disk drive. The controller makes it possible to format disks --prepare them to hold data--and to copy, delete, protect or unprotect files and progress. The functions are done through disk manager software which is provided with the disk controller. Each of the three above Examine the chart below: sentioned controller cards has unique characteristics. These

### DISK CONDUCTES CAMBILITIES

eraquires special quelle density quelle density double-edensity double-sided single-sided	Disk format
EPRON 2444	CorComp
दुन्दन्दन्द	Myarc
22444	::

Density as used here refers to the compectness of the information stored on a disk. A double -density disk holds twice as such data as a single-density disk. Similarly, a double-sided disk holds twice as such data a single-sided disk. See the chert below:

### CAPACITY OF DIFFERENT FORMIS

Disk format SSSD DSSD DSSD DSDD DSDD	
Capacity  50 kilobytes  180 kilobytes  360 kilobytes	

better off with a DSDD drive than a SSDS drive. You should notice that a double-sided, double-density drive lets you store four times the data as a single-sided, single-density drive. All other things being equal, you'd be

#### CONTROLLER DETERMINES FURNAT

to format DSDD disks. This depends on the capabilities of the disk controller, for example, dosen't support double-density formats. Incidentally, although manufacturers label their diskettes as being suitable for double-sided, double density use, they are equally suitable However, even if you have a DSDD drive, you may not be able

for use as single-sided, single-density formatting.

Both the CorComp and Myero floppy disk controllers
(including the Myero Mard and Floppy Disk Controller) support
single-sided single density through double-sided double-density. Xere is a chart showing the formatting

DEDEN II USER GROUP Page

### Expend Your System Jen 80 MICHOpendius

characteristics of the three controllers

\$300 \$300 \$300 \$500 \$500	
CorComp 350 720 720 1440	ALIBER D
0821 049 040 040 040 040	SECTORS
250 250 270 200 200 200 200 200 200 200 200 20	PER FORMAT

disk would have 18 sectors multiplied by forty tracks for each of its two sides to equal 1440 sectors.

The Hyara controller uses nine sectors for SSSD and sight sectors for another format. It uses eight-sector tracks sectors. In the case of the SSSD diskette, there are nine that holds the stored data. It is the smallest addressable space on disk media. A track consists of a collection of A sector as used here refers to the subsections of a track A 0500

because flyanc regards eight sectors to be a better format than

The upshot of this is that beyond USSU, disks formatted on these controllers are not compatible with each other. In other words, a disk formatted using sight sectors per track cannot be read by a controller that looks for nine sectors per track. This is one reason why the bulk of II software is distributed on SSSU disks to maintain compatibility with all controllers.

which is better: 8 or 9 sectors per track? I don't think is matters to the majority of users. Some people like CorComp products, others like Nyarc, and the rest don't care one way or the other. Soth are more flexible than the II controller. Incidentally, both the CorComp and Nyarc floppy controllers will handle up to four floppy disk drives, and the II will handle up to three.

Once you've decided on a controller, the next step is to obtain a disk drive. This is the easy part. Virtually any 5.25-inch flappy drive that will work on a PC will work on a TI. This means that disk drives meant for Commodore 64 or Ateri or Apple computers won't work. But those that ere installed in PC clones will. They are evailable from a

veriety of sources, including adventisers in this magazine.

Resuming you've got a PEB, you will be installing a drive in the PEB itself. Since the PEB has its own power supply all in the PEB itself.

the power connecter. If you aren't handy around electrical devices, you say want to purchase a kit designed to make this project simple. Tex-Comp sells an installation kit for two half-height drives for \$29.95. Those who are more adventurous you will need is the drive. But should you get a full-height drive or should you get a half-height drive?

A full-height drive is twice the width of a half-height drive. The PEB drive slot is designed to accept a full-height drive. However, it well also hold two half-height drives. And two drives are better then one. but, if you try to install two half height drives in the PES you have to modify or knowledgeable can proceed on their own.

51 afted dhoug agen it naded

### Expend Your System Jan 80 NICEOpendius

virtually every where since these are the drives that are used in PCs. Even if you use a II controller card, which can't format DSDD, it can still use the drive for DSSD SSSD. Generally, the DSDD drives are better built then the older in the PEB. I recommend that whatever you get that it be capable of handling DSDD disks. These drives are evaluable for now that you want to install a single drive

#### MAKE SURE YOU'VE GOT CABLES

inconvenienced in obtaining what you need, especially if you don't live in a relatively large city with large electronic a small wafer board adapter used to connect external drives. (If you but a used controller, make certain that it includes the two cables, the adapter board and a complete manual. If ribbon cable to connect the controller to external drives, and supply businesses.) ribbon cable to connect a drive to the PEB, a second longer most cases, your disk controller card should come with a short it doesn't include the cables you will definitely be Once you've got a drive, you'll need to have cables.

the other plugs into the controller. A four-pin molex connecter is used for connecting the disk drive the the PEB to the disk controller. One and plugs into the disk drive and The short cable is used to connect the internal PEB drive

PEB) require a power supply and disk drive enclosure. You will also need to set some dual inline pins (DIP) according to the manufacturer's instructions. You'll also need the cable power supply. Once the cables are connected, you were the drive in its slot and fasten it with sechine screek. External floppy drives (drives that aren't installed in the adapter board that comes with the controller card.

and I won't try to duplicate them here. The mES comes with the Corcomp disk controller installed. You plug a cable from the MES to the drive and off you go. Knuseer, the drive must have its own enclosure and power supply since the MES doesn't have a power supply. Like the card varsion of the Corcomp controller, the MES version also handles up to four floppies. The manuals that come with any of the above mentioned controllers are quite thorough about installation procedures, and I won't try to duplicate them here. The mES comes with

### DISK DRIVE WITH A SIDECAR CONTROLLER

own. Il asnufactured these devices prior to developing the PEB. The controller plugs into the right side of the console and disk drive is plugged into the sidecar controller. Like with a sidecare controller, you are pretty such on your

anyone to support these third-party controllers. I do not recommend them since they could easily prove to be more trouble that they are worth, especially for novices. Those who currently use these devices more that likely purchaded the MES, the drive you was aust have its own enclosure and power supply. The TI controller supported only SSSD drives, Several samufactures produced these types of devices but none has been produced for several years. I you find one, it will probably be used. It is unlikely that you will ever find all the types of the types of the types. tham when they were still being produced and could obtahin

### DEDEN II USER GROUP Page 14

## Expend Your System Jan 80 HICROpendium

support from the manufacturer or vendor

WHAI'S II GOING TO COST?

vary depending on whether you go full-height or half-height. For a new full-height, expect to pay \$60 or less, and for a new half-height drive expect to pay \$80 or less. For external drives, the cost of a full or half-height controller (including cables and manual). Cost of floppy drive without power supply for installation in the PEB will can figure on spending about \$150 for a new floppy disk

drive with enclosure and power supply should set you back

considerations to obtaining two half-height drives and an additional cost to purchase and external enclosure and power installation kit for the PEB since this would avoid the if I were going to install two drives, I'd give serious

used equipment vary considerably. Good places to look for used equipment are classified ads in MICROpendium, local newspapers and other computer publications. However, most other magazines charge so such for classified add that only commercial dealers can afford them. Also, check out pawn Avoid the temptation of buying the cheepest drive you can find. In most cases, you won't actually be able to examine the drive before purchasing it so either select a well-known brand or buy from a vendor that you are familiar with or who has been in business for years. Established business get established because the satisfy their customers. Prices of shops, Goodwill stores, fles merkets, computer fairs and other

is to make sure that it works before you pay for it. A used disk drive for \$30 may look like a great bergain. But if it meets to be realigned - a common problem with older drives - it could easily cost you another \$50 to get it to work. Sudenly your \$30 drive costs more than a new one. You may have noticed that the main article didn't have much to say about Myarc's Mard and Flopy Disk Controller card. That's because this device is in a class by itself, both in terms of price and capabilities. The main word of advice I have on purchasing used equipment

The device costs about \$250-\$300 and allows you to control up to four floppies and three hard drives an a 59/4s. With the additions of an 80-track EPROH, it can also use quad-density, 3.5-inch drives. Disks formatted on these drives hold up to 720 Kilobytes of data, twice what a DSDD

5.25-inch disk will hold.

I recommend the MFDC to anyone who eventually wants to upgrade to a hard disk system. It is the only hard disk controller available for the TI, other than the hyerc's old winchester hard disk (reviewed in the harch 1985 issue of HICROPERGIUM

The MFDC was reviewed in the Saptember 1988 issue of

TITUDASE - From INSCESSOT TUTORIAL 14.1.1 By Martin Smoley. NorthCoast 99'ers - Let. 19, 199 3 by Martin d. Sooley

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DHI to enter your data into blank fields is helpful, because you can page up to see manders in the provines record. If you use this idea, you explicate the use FCHE it or record the data as you enter it. Unfortunately there are none things you will learn the hard may. I filled in a banch of dates, payarets and

the hard way. I filled in a bunch of diles, payarets and checkmanbers in what I hope is a logical manner for new.

\* NUMBER CHEBE DE LOCAL NUMBER N 4 REPLACE NUMBER WITH

245

specifications you see in the bottom right corner of this page. Then IIB asked if I maded to enter data, I answered yes, and just held the ENTEN key mill I had teelve blank records. Then I pressed FCTM 9 to get not of APPEND and typed EBIT (E). Using

dates and checkneshers. I case up with the BILLS By you see at the betten of this page. I'm not happy with it, but il'm a start and il contains dates, payments and checkneshers. This will give we nonething to play with. I created this 3h to the

or esplantions of II-base functions were inadequite. They mere any useful if you alreafy have that you mere doing, thile of creaty as giving as problems, due to a lacely dues, halle of creat difficulty using as non-lettraids to re-reducte symplf on the intricate functions of this language. If I have this much rouble interpreting ay one ower, I can imagine that there are lot of people out there saying to thesesteen, "This my is razy. I don't understand a need of this junk". So I'm going to try to regroup ay thoughts and try apain. It may not be any other than before, but this that I will try to include more of the control of the souths wildout using TI-Raise. A few days ago I thought I'd per ap or system and jump back into writing the Tutorials. What a survise! The system decided it didn't like me. I gave it all sinds of different commands, but it mouldn't do mhat I wanted It to do. At the same time I was having all these problems I as leading through my old notes and letters and I found that may other people had the same problems at one time are another; is out this story short, I came to the conclusion that many of siscovered a brack of taking lately that changed by thinking ill pict up he untics I go through to accomplish a task in begen that you about all the teterials I previously produced. I went some ideas along the may.

RETURN Copyright Martin A. Smoley 1989

CLOSE ALL

USE CHEOK
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APPEND BLANK
REPLACE CHOND WITH NUMBER
REPLACE NUMBER WITH NUMBER + 1

For this conths article I decided that I masted to start ording with age a makers, and possibly, with the use of unbry free over than not but a time. I decided to ment into willity bills for 1987 and a cheethoot-type No. I do not rep track of my bills or my threshoot on my computer, so I replaced to the my computer, so I racil and paper, as usual, and listed some utilities as sereral likes in the next couple menths. I ale a lot of abstates in planning and mill probably change the could do this project as a beginner. I espect to STALIN WITH I

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RETURN Copyright Martin A. Smoley 1989 SELECT 1 · Continued \* \*\*\*\*\*\*\*\*\*\*\*\* STITE 35A WHILE .NOT. (EOF) SELECT 2 FIND 1.PCHK
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IF .NOT. (EOF)
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DEDEN TI USER GROUP Page 91

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tals, and second, this is a proprossing twierful, so it maked fill to save the data for on. I used minify command Commun to ship up the little D' in the middle of the previous page. The top line of this D' is a concent line. The sert line LOCAL MUNICER N, tells 713 to allocate space that I will use to store a Klumber, with a length of and label the space MUNICE. You should the first consist, APPLID MARK, sticts me while empty record on the end of CHRK. How that we have some space, let's store some data three. He mank lime takes me MUNIES, which is 745, and places a copy of 12 late CHRM. CHCMM is sy observiation for check member. The deposit items at the top by hand, the cipit in with CHKCUM and the other data we pet in with CHKCUM and the CF assed FLIC back look Phane. At this pain fill Check look Phane. At this pain this line the check members would not increment by i, and so would never reach \$30 to get out of this loop. So this little Of tates the De mined CMCMT and fills it then 130, all the commands you have placed between the MKILE and EMPHRICE will be carried out, if possible. DARK opens the concernes we have as long as the value top that will go around and around as long as MARKET is less in MARKET is less than 130. As long as MARKET is less in MARKET is less than 130. As long as MARKET is less in MARKET is less than 130. As long as MARKET is less in MARKET is less than 130. As long as as lo mahering the checkbook. If you manted the first check anaber to be 1, you could use 1 instead of 343. USC DWGK agens the checkbook Db. MYSILE (MAMERICADO) is a maise to create locals within a WillE loop. MENACE MADEN WITH 245 puts the member 245 lote MUNICH. I those 245 because it second liter a good place to start to restine when you are having probless. create the LOCALs you need at the negliming of the O' th would also be interesting. If then preceded to COLANI CHEEK. The SIRUCIUME of BILLS is located in the better to it (\*246), and sticks that beck into MANGER. Without nest line takes our ausber out of MUNDER (245), adds i If they are all together and up irout, they left career of 12.1.2. After the CREAT screen, I'll asked if I wanted to enter data, I wasnered ilso sone neu commads. ilh musbers from 265 through 329. A si his left the 30 capty. First of all I hate to enter hat spaces in both of pur After I filled BILLS, I decided that a checkbook-type I want to proce an with core r on the right side of this p H-11 AL STREET 

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FIELD MESCALFION

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Section 333

CREATED 11/19/89 CHANGES 11/20/89 FIELD DESCRIPTOR TYPE KIDTH DEF

TI-BASE - From INSCEBOT TUTORIAL 14.1.3 By Martin Saoi NorthCoast 99'ers - No. 21,189 Copyright 1989 by Bartin & Sading

COME/C 60 (E), etc. until I had a copy with the mane changed ove my dala disk in drive 2 and II-base in drive 1, so 1 kpped My MSCZ,FLCXMCAC MSCZ,FLCXMCAC 6D (E), then COPY FLCXMCAC tts with a DRAM field in DRAM and copy the data, assumt and home ," into DRAM. This Of only covers the Phone data, I esn't care or know which Bb it's working on. You west realize ess things and tril Til exactly shat you want it to do. If area 1. You will have treedly exceedering mars things are found, but IIB will not and when you farget and sain alstakes, IIB will sail you mhat the back you are doing. SELET; 1, WE BILLS and WHIE MID. (EVE but the first despite for your mind. It want to led through BILLS one record at a time and for everything inside the BHILL loop until the End Of File (EOF) of SHLLS is encountered. Mater at this point we are animalically bobling at record number one is BILLS. SELET; I will to be selected it werk area. THE must be looking at CREEK which is used as were powerful this contained in this situation. First LADEK is very powerful this contain in this situation. First LADEK is a very powerful this contain the tries of the first should be selected; the selected as were looking at CREEK and the sile tree shift for the selected where First. It says, go to you to remember. As J just tree is under First. It says, go to you to remember, if you look trees it need on CREEK. It is first a the heading First, you will find it. That is the same thing III will come up with. CREEK must the first be into the market first is not feel. It is shift in the select it is a larger. It is also the proof to CREEK. It is first an attach for ZAS, it will not anything, the bush the record in the need of the first ib input it is possible the first in an extend as attach and that the applying it is a first little part to the market for it. So the logic that for a little first in the select for it. So the logic the first in the first in the select mark the grant for it. If the in the first into a saith and are can be seen it to first in the select for it. So the logic the first into anything. However, if we did not hit top at the first into anything. However, if we did not hit top at the first into anything. However, if we did not hit top at the first into anything. However, if we did not hit top at the first into anything. However, if we did not the sait to anything it were any select to the lift the could into the first in the EDMANG (all the fi pray the imple in its functions your well on your may to impuring out the use of Il-Base. "All right." The tap line of FLECKET Is for commants only. NELECT 2 tolds TIB to switch to wertspace 2 and open (1966) DEEM in that workspace. Ment Till is ares. We now have 2 the open, CHERE in work ares 2 and 31(15) in told to go to workspace I AMLECT II and open SILLS in that poes well, floren mill eatch up one of the POM field in Of assed FLOXBOP is small but very pomerful. If you Then I seed MODIFT

COMMAND to sell such Cr. I changed the first letter in the FIND statement field [DOM] to represent this, or Electric, or Severy etc. I also changed the last fieldmane in the middle REPLACE statement (PROME), to this, or ELECTRIC, etc. List I changed the REPLACE solvy from 'Thome, 'to 'Eas ',' or 'Electric', etc. to correspond to the Cr I was northing on. You need sir different Crs to handle all the sCOT lived in BILLS. It's and by the time you correct everything you'll have a experience earling with CFs. really not that have to do, ples you'll sake a lot of nistakes

basicly a filter. It filters get everything you don't sust printed. In this case I have opened DECK (USE CHECK), and I would like a printent of all ay beposits. Sincy I have the begosits do not have check manbers I tale filt to print everything that didn't have a check manbers. I SELAY CHECK, ATE FIRE SHITCHES and all received with no date. PRINT ALL FIRE (DATE) 02/29/891 AND. UNITED 18 (DATE) 02/29/891 AND UNITED 18 (DA ₹. Mere's smoothing new. PRINT ALL JERS CHINGS-that I haven't discussed before is () FOR CHINGS-"The (FOR) constand it a very poverful tool." ". The part

PRINT (Drft), (E) CLOSE ALL
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place an asterist at the beginning of the line us till mill ignore it. Then I retype the new line below that for another try. At a later date I can type LISI bXCLFRWSINT (E), to get a printent of FRESII and one exactly mitch attempt worker and which dided. You do not have to drome printer connects in these little CFs, but you should always upon and expecially LRESE the By you can be USE. First, this habit mill allow you is and the By you USE with the consend and may fingure the anne of the By you USE with the consend and may imperiant, it will CRESE the dathbase for you. Many times I have police distauraged and changed dists or reserved the distauraged and changed dists or reserved the distauraged and changed dists or reserved the distauraged and transf the system of while a local till tear my your database if you leave it upon while you a performing 18 high dist access commonly such as LDPT. Because I don't reserve which commonds are despress, I try to keep all up the closed unless I are perforable that and not equin I insuffailely also M' sech er, Mie berte, bet bet, This One's Junt, etc. fire times before I got the result I wanted. By the line I changed the line three times I already forgot my old mintakes and started making then ever again. For this problem use another britt. I leave the old command line in the CF, but I teterial from the first idea to the finished product, tinal consest. then. The will also notice that I leave syself notes insict the see in ay test just prior to that. . I tried the command four CONVAID FORTSTI to create FORTSTI which tests the print line you consands at the command line, Always create a Command file (DT), no matter how small or insignificant. I use modify makey, but you can have the tip for free. Try to never input Mere is a tip that is so valuable you should all give ac It took se seventeen hours to complete this

# Programs

correct algoriths for a correct calendar, but any progress guiffer from locificiath programily. A calendar program car cally be quite stocks, but as understanding of how our present day calendar case about is necessary to produce an efficient produce an efficient produce an efficient case about its necessary to produce an efficient produce an toes programs that produce calendars. Of course it is necessary to imcorporate the about this lies of year it's custon-ary for prograssers to come out with war-

the clienter is an interesting subject. A clienter is basically just an emperation of the arth declaration of the arth declaration of the arth declarations of the arth declaration of the arth declaration of the arth declaration of the termination are subject to the line between two secretary accurates of the termination of the termina The history of the development of

present day calendar we aced to irrestiple our der calendar we aced to irrestiple our early civilizations and her in
those days they subtritued the seasons.
They meted that the Son set and rose at
a liferent pieces on the hariton and thay
decided on their signation for bunking or
till for pizzting and hervesting depending on the leggle of the day. Thus an
narily crose calendar was devised.

bod idea! Nuch later they realized The repts of wer present day calon-dar go back soan 7000 years. The fayry-than first deterated the length of the year as 340 days and then centuries fater uppraded it to 345 days. With this beartripe they devised a calendar of Ineivo thirty-day aonths supplemented by five consecutive year-end belifors. (Not a

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the year use mere starly MS-1/4 days in Lingth and in 230 f.C. they provided for a lasy year every feetby part. Bits call-a mader however was not widely accepted, heatenfully the floaten user actuagating with a lease catheater of twelve atternating 25 and 36 day another. His mose cycle in 27.5 days; that theire heater heater last and part of the season of the measure of the meas

about every two or three ASSISTANTANTAN ASS. 2025

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clifed by the Paye of Rose. It took the british Expire merry two centuries to a british Expire merry two centuries to a cery two present exposed expressed expressed expressed expressed expressed expressed expects a few beautiful for the inself the first to for the payer two coinsists for the payer two coinsists for the payer two coinsists and fifteell the above two payers to modely and and the above two payers and the expirite thittees identical another of weets, the payer would be expirited an Saturday. The year would be expirited an interest, the payers would have an additional builday all the sed of the year. There would problemly be strong restification from the position of the payers would be a sent the year. There would problemly be strong restification from the position of the familial expression in the familial expression to the payers with the called the payers after 1801. With all mades for any year after 1801. With all medical expire for the print style in payers placed the payers placed the payers after 1801. With all medical expires for the print style in payers after 1801. With all medical expires for the print style in payers after 1801. With all medical expires for the print style in the payer after 1801. With all medical expires for the payers after 1801. With all medical expires for the payers style in the payers after 1801. With all medical expires for the payers style in the payers after 1801. With all medical expires for the payers after 1801. With all medical expires for the payers after 1801. With all medical expires for the payers after 1801. With all medical expires for the payers after 1801. With all medical expires for the payers after 1802. With all medical expires for the payers after 1802. With all medical expires for the payers after 1802. With all medical expires for the payers after 1802. With all medical expires for the payers after 1802. With all medical expires for the payers after 1802. With all medical expires for the payers after 1802. With all medical expires for the paye

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DEDEN II USER GROUP Page 18