

FROM THE PREZ.....

You know, it never ceases to amaze me how creative people can be when trying to use developed programs to do jobs the program was never intended to do. The applications can be phenomenal. For example. I heard of someone using Multiplan for a Bartenders guide. You just typed in what you had on the shelf, and it would tell you what you could make with what you had. I remember Cricket saying that she had been using Futura mailing list to catalog magazine articles. All it takes is a little imagination. I know there are people in our club, doing things on their computer, that I would never think of. Doing useful tasks that the rest of use are still dredging through in a much more difficult fashion, just because we never thought of it.

This is one of the benefits of a user group. To share our imagination with other users, to the benefit of all. In the coming months, I would encourage you to consider what useful tasks you do with your computer, and consider giving a brief workshop, just going through the motions, of how you accomplish these tasks. There are many of us who just haven't stopped to consider how else we can implement this "tool" that is so often thought of as just a toy.

Let us not forget that each of us, in spite of what we might think, has something to offer the other members of this club. How many times have I done exhaustive research to solve a problem, only to have someone soon after walk up and show me a simple and obvious solution. I have something to learn from each of you members. You have only to teach me. I of you eagerly await.....

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MURPHY'S RULE

If more than one person is responsible for a calculation, no one will be at fault.

HAPPY NEW YEAR -- TI-994A

It is indeed when you consider the im-minent arrival of the 9640 by MYARC and that an expansion system is about to appear that will allow you to use IBM compatibility. One feature comes to mind. MS DOS would allow you to use Lotus 123. Increased mem-ory and more sophisticated word processing programs are others. In any case there is a new beginning in the 99/4A world. Our home computer was ornhaned and now is resurrected. computer was orphaned and now is resurrected. The future appears nothing but bright and

promising. The TI/4A was abandoned not because of The TI/4A was abandoned not because of errors technical inferiority, but because of errors in marketing. Because we were orphaned in 1983 by Texas Instruments, we had to acquire more technical skills than other home com-puterists who had purchased different brands. Many of the products we have today come from among us. Those that have risen in computer science were driven by the need to support a machine where no support existed.

We should all feel proud and thankful that this support has emerged, for without it we might have to put our computers on the

closet shelf to gather dust. So it is good to look forward to this year and to next year too. Clouds do have a silver lining!

EXTENDED BASIC EXECUTION SPEED

Are your Extended BASIC programs executing far too slow? The problem may be the version of Extended BASIC module you are using. The older Extended BASIC modules (version 100) in some cases execute the program code much slower than the newer modules. To find out which version you have, type CALL VERSION(X)::PRINT X. If 100 prints out on the screen, you have an older module. If you have 32K memory expansion, you can increase execution speed by using the following information:

1. If the program DOES NOT use sprites, add the following line to your program: 1.CALL INIT :: CALL LOAD(-31878,0). This will increase the speed of your program considerably. NOTE: Be sure line 1 is not already used in the program. You may need to resequénce.

2. If the program DOES use sprites, add this line to your program: 1.CALL INIT :: CALL LOAD(-31878,n) where n equals the highest number sprite value used in the program. Also, if the program uses the statement CALL DELSPRITE(ALL), replace it with CALL DELSPRITE(#1,2,3,...#) where n with CALL DELSPRITE(#1,2,3,...#) where n equals the highest sprite value used in the program.

CLUB NEWS

Your new slate of officers have now got down to business and they plan a good year for PUNN during 1987. The January meeting was well attended and the workshops proved very interesting. For this month Keith Fast promises some more insight in the PR Base program and there will be other workshops of equal interest.

Upcoming workshops include the latest on Funnelweb and how it enhances the use of TI-Writer. Your editor uses this program and it outshines the original TI disk by a long ways.

The TI Faire is still in the planning stage. It requires lead time to arrange for speakers, hotel space and vendors. When we do it, it will be a good one.

Don't forget to watch the date in the upper part of your mailing label on the newsletter. It tells you when your dues are due. Your treasurer will accept dues during the meeting or you can mail them in to the PUNN P.O. Box number that is printed on the bulletin.

DM-1000 IMPROVED

If you have not already upgraded your DM-1000 disk, you will want to do so. The latest version is available from the PUNN Library and has a remarkable improvement.

When you have displayed the files on your screen from the file prompt, you now have 2 additional options to choose from:

1.) By pressing "T" at the left column of a particular file, you can have displayed on your screen a DISPLAY VARIABLE/80 file when you press ENTER.

2.) In a like manner if you press "D" in this column you will have your file printed out on your printer.

If you decide to add these improvements to the DM/1000 file on your FunnelWriter disk, you will have to make some room. MGR1 and MGR2 previously took up 33 and 24 sectors respectively. The new version takes up 33 and 30 sectors. Thus you need to remove some file as there are only 2 additional sectors available. I took the Documentation File off as I had already printed it out and did not need it there.

In taking on the PUNN newsletter responsibility, I use FunnelWriter with DM-1000 on the disk, constantly and find the updated version a real time-saver.

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FOR KIDS-AROUND THE WORLD

WORLD IN 80 DAYS! 110 ! * BY STEVEN A SHOUSE * 120 ! * RIVERSIDE CA 92506 * 130 ! # 140 ! # TRANSLATED FROM A # 150 ! # TRS-80 BASIC PROG. # 160 ! ***************** 170 CALL CLEAR 180 PRINT " AROUND THE "CALD": : 190 PRINT . IN EIGHTY 220 C=0 200 PRINT *PHILEAS FOGG BET HE COULD GOAROUND THE WORLD IN BO LAYS!" 240 PRINT "WHY NOT JOIN HIM IN HIS HOT AIR BALOON? HE'L L TELL YOU" 250 PRINT "WHAT HE SEES ON H IS TRAVELS AND YOU HELP HIM NAME THE" 260 PRINT "CONTINENT YOU'RE PASSING OVEF. FEMEMBER TO SPELL 270 PRINT "THE CONTINENT COR FETTLY! 260 60508 1000 270 CALL CLEAR 300 READ N\$, X\$, Y\$, Z\$ 310 IF N\$="END" THEN 930 320 PRINT X\$ 330 FRINT 340 INFUT "Where are we? ":A

AROUND THE

370 PRINT "That's not it. H ere's an-":"other clue:": 380 PRINT 390 PRINT Y\$: 400 PRINT 410 INPUT "Now, where are we ?:":A\$ 420 PRINT :: CH=CH+1 430 IF A\$=N\$ THEN 540 440 PRINT : "That doesn't see m right... Here is one more clue:": 450 PRINT 460 PRINT ZS: 470 PRINT 480 INPUT "Your last chance. ...Where are we? ":A\$ 490 PRINT :: CH=CH+1 500 IF A\$=N\$ ""EN 540 510 PRINT "LGJK! I see a sig n that says""We're over ":N\$ TO PRINT ::: 530 GOTO 620 540 R=R+1 545 IF R>3 THEN R=1 550 DN R GOTO 560,580,600 560 PPINT :"That's it!!!": : 573 FGT2 610 5B0 PRINT :*ALL RIGHT! YOU 6 OT IT!!" 590 GOTO 610 600 PRINT : "WAY TO GO, CHAMP ! YOU'RE RIGHT" 610 C=C+1 620 PRINT "Now we will move on to another continent .*: :

350 PRINT :: CH=CH+1

360 IF A\$=N\$ THEN 540

630 111 1000 640 1 290 650 DATA EUROPE 550 DATA MY HOME COUNTRY OF OUTH FOLE ENGLAND IS ON THIS CONTINEN 670 DATA THE COUNTRIES ARE S MALL BUT THE ALPS ARE S0000 LOOK BI6 680 DATA I CAN SEE THE LARGE ST CON- TINENT OFF TO THE E AST ORLD. 690 DATA AFRICA 700 GATA LOOK AT THCHE PEOPL EQUATOR. E CANDE- ING DOWN THE NILE R IVER 710 DATA I SEE A VAST DESERT IN THE MOFTH AND A JUNGLE TO THE SELTH. TO THE 720 DATA I SEE A SIGN FOR E **GYPT** 730 DATA ASIA 740 DATA A SIGN POINTS THE W AY TO MENSILIA. 750 CATA WE'LL FLY OVER THE HIGHEST MOUNTAIN IN THE WOR LD 760 DATA THIS CONTINENT GOES LP": : FOREVER! I'M SUPE IT IS THE LARGEST 770 DATA A.STRALIA 7BO DATA AECFICINES WERE THE TO SETTLE HERE! FIRST S!" 790 DATA THIS HAS TO BE THE 990 END SMALLEST CONTINENT BOO DATA WHAT WEIRD CREATURE S! LOALA BEARS AND FANSAROOS B10 DATA ANTARTICA 1030 RETURN 820 DATA BRRR! IT'S FREEZING

840 DATA LCCI ! THERE'S THE S 850 DATA SOUTH AMERICA 860 DATA THE ANDES MOUNTAINS BEAUTIFLE DOWN THER 870 DATA THE AMAION RIVER HAS TO BE THE WIDEST IN THE W 880 DATA WE'RE SOUTH OF THE 890 DATA NGETH AMERICA 900 DATA THERE'S GREENLAND T O THE EAST. 910 DATA THIS CONTINENT STRE TCHES ALLTHE WAY TO THE NORT H POLE. 920 DATA LIG: HOW TALL AND W IDE THE ROCKY MOUNTAINS ARE 930 DATA END, END, END, END 940 CALL CLEAR 950 PRINT "PHILIFAS MADE IT W ITH ONE SECONI TO SPARE!" 960 PRINT "THANKS FOR THE HE 970 PRINT "BY THE WAY, YOU H AD":C: "OUT OF SEVEN CORRECT! 980 PRINT "IN ONLY"; CH; "TRIE 1000 PRINT "(Press (ENTER) t o continue)" 1010 CALL KEY (0, K, S) 1020 IF S=0 THEN 1010

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BULLETIN BRIEFS

There is something for everyone in this months bulletin. A game for the kids, how to print out your biorhythm and a host of routines that you can use in your programs.

We are using the 28 column converter print out the listings. This makes it to easier to check for errors as they are printed just as they appear on your screen. If you don't want to take the time to

enter them you can get them from the library at the next meeting.

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28 COLUMN CONVERTER

This program converts DIS/VAR 80 data files to a 28 column width. One use would be in debugging programs. It will print out in the same manner as your screen and thus it would be easier to track errors in a program that you had typed in. It could also have some use for newsletter editors as it would

have an even right hand margin. To use it you must first load your program into console memory and then convert the program to DIS/VAR 80 by typing: LIST"DSK1.filename" (use a different

name than your original program name.) You now have a file that can be loaded into TI-WRITER. Follow the prompts in the program and give the new file another name and you'll be able to print out you program in a 28 column format. (frem Jim Peterson--TigerCub Beftware)

100 DISPLAY AT(2,4)ERASE ALL :"28-COLUMN CONVERTER" :: DI SPLAY AT(3,12):"By Jim Peter T #2:".TL 123:64;" :: PRINT #2:".TL 125:38;" :: PRINT #2 :".TL 124:42;" :: PRINT #2:". .TL 124:46;" :: PRINT #2:".NF 500" 110 DISPLAY AT(5,1):" To COA vert a program, saved": "with LIST "LEN.".FILENAME", ":"i 200 IF EDF(1)=1 THEN 300 :: LINPUT #1:A\$ 210 IF LEN'A\$) (80 THEN LN=LN +10 :: LEN'A\$) (80 THEN LN=LN nto 28-column format which": "can be merged into the text 220 LINPUT #1:B\$:: IF POS(B \$,STR\$(LN),1)=1 HEN FLAG=1 :: LN=LN+10 :: G3:5 L: 120 DISPLAY AT(9,1): "buffer of TI-WRITER." 230 A\$=A\$&B\$:: IF LEN(A\$)<1 130 DISPLAY AT(11,1):" Optio nally with transliter-": ate d @, &, \$, ^ and . for :"pri nting from formatter : mode. 60 THEN LN=LN+10 :: GDTD 260 240 LINPUT #1:8\$:: IF POS(B \$, STR\$(LN), 1)=1 THEN FLAG=1 :: LN=LN+10 :: GOTO 260 250 A\$=A\$&8\$:: LN=LN+10 140 DISPLAY AT(16,1):" Progr am should be RES in":"steps 260 S=1 of 10 starting at 100":"befo re LISTING to disk." 150 DISPLAY AT(20,1):" Do yo u want to print the":"file f rom the":" (E)ditor?":" (F)o rmatter?" FLAG=1 THEN FLAG=0 :: A\$=B\$:: GOTO 210 :: ELSE GOTO 20 160 ACCEFT AT(24,1)VALIDATE("EF": PEE-:Q\$ 290 PRINT #2:L\$:: S=S+28 :: GOTO 270 300 IF QS="E" THEN 310 :: PR 170 LN=100 :: CALL CLEAR :: INT #2:".FI;AD;" INPUT "W'at is the FILENAME? [Er1.":FN\$:: FN\$="DS 310 CLOSE #1 :: CLOSE #2 :: K1."%FN\$:: PRINT :: 180 INPUT "what is the new F ILENAME? DSK1.":PN\$:: PN\$ ="TE-:."&PN\$:: OPEN #1:FN\$, DI-FLAY ,VARIABLE 80, INPUT : : OPEN #2:PN\$, DISPLAY ,VARIA BLE 80 FUTPUT END. TORE 320 :: FOR W=1 T 0 5 :: READ CH\$,R\$ 340 X=POS(L\$,CH\$,1):: IF X=0 THEN 360 350 L\$=SEG\$(L\$,1,X-1)&R\$&SEG \$(L\$,X+1,LEN(L\$)):: GOTO 340 BLE 80,C'I'PUT 190 IF GS="E" THEN 200 :: PR 360 NEXT W :: RETURN INT #2:".TL 126:94;" :: PRIN

FOR B-DAY	OF	5	1	10	1	1921
DATE	DOV	IN		0		UP
1/1/87		T		:P	-	F
/2/87	I	-	F	2		E
1/3/87	I	P				E
1/4/87	T	-			1	E AN

BIORHYTHM

BIORHYTHM theory states that we all have cycles, starting from birth. There are three cycles; physical (23 days), emotional (28 days) and intelletual (33 days.

The chart works something like a sine wave. It starts at zero; goes up to a maximum and then down to a minimum. Each

maximum and then down to a minimum. Each cycle is independant, but since they are of different lengths they will intersect or coincide from time to time. The theory goes on to say that if a particular cycle is down (negative) that particular cycle of yours is not so good. Likewise if the cycle is at or near to the creat they woure doing good. If by chance crest, then you're doing good. If by chance you're at the crest on all three cycles that's the time to go to RENO! However, the time will come when you could have all three cycles at the low end. Stay home on those days! days!

Critical days are when the cycles cross the middle line, going down or going up. They have little importance unless they coincide with another cycle doing the same thing. Be extremely wary when all three cycles coincide at this point, regardless of whether they are going up or down. HOW TO USE: You provide the month and

day and year when asked. (xx/xx/19xx).

The program then asks for a start date (naturally later than your birth date). The program responds with a chart and you can see (P)hysical,

how your (P)hysical, (E)motional and (I)ntellectual cycles are doing. As programmed the chart will be printed out for 18 days. Press any key for another 18 days.

(Ed's Note: I found this old program in my pile of disks. It was very simple and without embellishments or a print routime. Dan Hawes provided these and makes what was a dull program now very interesting. -- ccb)

BIORHYTHM

CHART YOUR BIORHYTHMS! 100 DATA 31,29,31,30,31,30,3 1,31,30,31,30,31 110 @=0 :: [=1 ::]=2 :: =3 :: \=4 :: GOTO 130 :: A\$,C\$ DEC\$, DEV\$, L\$, PR\$, Q\$:: A\$, L\$, DY, I, J, JB, JC, JD, K, L, M, MO, N, P , R, S, T, V, W, X, Y, YR, Z 120 CALL CHAR :: CALL CLEAF :: CALL COLOR :: CALL CLEAF :: CALL COLOR :: CALL CLEAF :: CALL HCHAR :: CALL KEY : CALL PEFV :: CALL SAY :: CA LL SCALE V :: CALL SOUND :: C ALL VCAAP :: !@P-130 REM BIORHYTHM

140 CALL CLEAR 150 ON WAENING NEXT 160 ! AN OLD PUBLIC DOMAIN P TORAM ATION BY DAN HAWES(THE TInma n) 180 Z=.9999 190 T=9 100 P=3.14:5°26535 210 GOSUB 1730 220 CALL SCREEN(13):: CALL C HAR(128,"FF",129,RPT\$("80",B),130,RPT\$("01",B),131,RPT\$("0",14)&"FF",95,"000000FFFF" Word Play

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) 230 FOR I=1 TO 12 :: CALL CO 230 FUR 1=1 (U 12 :: CALL CU LDR(I,13,[):: NEXT I :: CALL CDLOR(13,13,[):: CALL HCHAR ([,],131,30):: CALL HCHAR(24 ,],128,30) 240 CALL VCHAR(],],129,22):: CALL UCHAR(],31,129,22):: CALL VCHAR(1,31,130,22) 250 67596 1670 250 H259E 1670 260 DISPLAY AT(_,9)SIZE(-10) :"BIOPHYTHMS" :: DISPLAY AT(\,9)SIZE(-10):FFT\$(CHR\$(95), 10):: CALL SCREEN(16):: ZALL SOUND:950,262,1,330,1,392,1) 270 DISPLAY AT(6,10): "PHYSIC AL" :: CALL SOUND(950,262,[, 349,[,440,[):: DISPLAY AT'P. 10): "EMOTIONAL" :: CALL SUND 0(950,294,[,349,[,474,[] 280 DISPLAY AT(10,8): "INTELL ECTUAL" :: CALL SOUND(1200,3 30,[,392,[,277,[] 290 DISPLAY AT(12,7): "With E XTENSIVE" :: DISPLAY AT(14,6)): "modifications by" :: DISP LAY AT(16,10): "Dan Hawes" :: /: mogitications oy :: DISP LAY AT(16,10):"Dan Hawes" :: FOR I=1 TO 500 :: NEXT I 300 DISPLAY AT(22,1):"Need I retructions? (Y/N) N" :: ACC EPT AT(22,26)SIZE(-1)VALIDAT E("YN")BEEP:DEC\$:: IF DELS= WY THEN ERCHE 1070 "Y" THEN GOSUB 1870 310 L=0 :: CALL PLANK :: DIS PLAY AT(6,6): ENTEF YOUR BIR THDATE :: DISPLAY AT(7,6):" 320 DISPEAY ATT9, J:"(DDN'T LIE! COMPUTERS DDJ" :: DISPL AY AT(10.):"(NOT CARE ABCUT YOUR 43E)" 330 DIEPLAY AT(12,1):: DISPL AY AT(12,_):"ENTER MONTH (1 TO 12):" :: ACCEPT AT(12,25) BEEP:M :: MO=M 340 IF N(I THEN 330 ELSE IF M)12 THEN 330 350 RESTORE 360 FOR J=[TO M 370 READ X 380 NEXT J 390 400 A\$="DAY (1 TO "&STR\$(X)& ") " 410 DISPLAY AT(14,)BEEP:"EN TER "&A\$:: ACCEPT AT(14,22) SIZE(]):D :: Dir=D 420 IF D<I THEN 410 ELSE IF D>X THEN 410 430 DISPLAY AT(16,): "ENTER YEAR: ":: ACCEPT AT(16,14)S IZE(\)BEEP:Y 440 IF Y<@ THEN 430 450 IF Y>=100 THEN 480 460 Y=Y+1900 470 DISPLAY AT(17,)BEEP:Y;" AEE.JM"D":: FOR I=L TO 250: E NEXT I 480 GOSUB 1040 :: YR=Y 490 JB=JD 500 CALL PLANK :: DISPLAY AT (6,]): ENTE: START DATE OF C HART" :: DISPLAY AT(7,]):"__ 5I0 DISPLAY AT(9,); "ENTER M DNTH (1 TO 12): ":: ACCEPT AT(9, 25) SIZE(1) BEEP:M 520 IF M([THEN 510 530 IF M>12 THEN 510 540 RESTORE

550 FOR J=L TO M 560 READ X 570 NEXT J 580 A\$="DAY (1 TO "&STR\$(X)& *) * 590 DISPLAY AT(11,): "ENTER "&A\$:: ACCEPT AT(11,23)SIZE (]) BEEP:D (1) DEEF 10 600 IF D<I THEN 590 610 IF D>X THEN 590 520 DISPLAY AT(13,): "ENTER YEAR:" :: ACCEPT AT(13, 14)SI ZE(\)BEEP:Y 630 IF Y<@ THEN 620 640 IF Y>=100 THEN 670 650 Y=Y+1900 660 DISPLAY AT(14,):Y; "ASSU MET 575 GDSUB 1040 680 JC=JD 690 IF JC>=JB THEN 750 700 DISPLAY AT (20, 1) BEEP: "CH ART DATE CAN'T BE" 710 DISPLAY AT(21, 1): "EARLIE R THAN BIRTH DATE 720 FOR J=[TO 1000 730 NEXT J (5,10):"CHEC:ING" :: E'SFLAY AT(6,10):" :: DISP LAY AT(8,]):"YOU ENTEPEL: 760 DISPLAY AT(10,\):"TOUR B IRTHDATE AS:" :: DISPLAY AT(11,\):MO;"/";DY;"/";YR :: DI SPLAY AT(13,\):"THE CHART DA TE AS: " :: DISPLAY AT(14,\) :M:"/";D;"/";Y 770 DISPLAY AT(16,):"IS THI S_CORRECT? (Y/N)" :: ACCEPT AT'14,26)SIZE([)VALIDATE("YN ")EEE*:DEC\$:: IF DEC\$="N" T HEN GALL BLANK :: GOTO 310 E LSE REM 780 CALL BLANK :: DISPLAY AT 780 CALL BLANK :: DISPLAY AI (8, J): "DO YOU HAVE A PRINTEP ? Y" :: ACCEPT AT(8, 25) SIZE(-[)VALIDATE("YN")BEEP:PR\$:: IF PR\$="N" THEN 800 790 []=PLAY AT(10, J): "ENTER DEVICE NAME" :: DISPLAY AT(1 1, J): "FIL" :: ACCEPT AT(11, J) CTTC/__ISDCCD_NEUG)SIZE(-15)BEEP:DEV\$ 800 CALL BLANK :: FOR J=[TO 300 **B10 NEXT J** 820 GDSUB 1140 830 N=JC-JB 840 V=23 850 GG501 1200 860 10101 1230 870 v=Z8 880 10511 1200 890 30511 1230 900 V=33 910 GOSUB 1200 920 GOSUB 1230 930 GOSUB 1490 940 L=L+[950 DISPLAY AT(7+L, [):C\$; TAB (9);L\$ 960 JC=JC+I 970 IF L<15 THEN 830 980 IF PR\$="Y" THEN DISPLAY AT(23,1) BEEP: "PLEASE WAIT.. FFINTING" :: CALL PRINT(DEV\$)ELSE REM 990 DISPLAY AT(23,[):"CONTIN UE CHART? Y" :: ACCEPT AT(23 ,17)SIZE(-C)VALIDATE("YN")BE

EP:DEC\$:: IF DEC\$="Y" THEN L=@ :: GOTO B20 ELSE REM 1000 DISPLAY AT(23,I):"ENTER A DIFFERENT B-UAY Y" :: AC CEPT AT(23,26)SIZE(-L)VALIDA TE("YN")BEEP:DEC\$:: IF DEC\$ ="Y" THEN 310 1010 CALL CLEAD 1010 CALL CLEAR 1020 CALL PEEK(-28672,P):: I F P<>@ THEN CALL SAY(*500DBY F*) 1030 END 1040 W=INT((M-14)/12+Z) 1050 JD=INT(1461\$(Y+4800+W)/ 1060 B=367*(N-J-W*12)/12 1070 IF B>=@ THEN 1090 1080 B=B+Z 1090 B=INT(B) 1100 JD=JD+B 1110 B=INT(INT(_*(Y+4900+W)/ 100)/\) 1120 JD=JD+D-32075-B 1130 RETURN 1140 1150 CALL BLANK 1160 DISPLAY AT(5,[):"FOR B-DAY OF":MI;"/";DY;"/";YR 1170 FIEPLAY AT(6,[):"--DATE -- DDWN";TAB(18);"0";TAB(23):"UP" 1180 DISPLAY AT(7,9):RPT\$(" 19) 1190 RETURN 1200 W=INT(N/V) 1210 R=N-W#V 1220 RETURN 1230 IF V<>23 THEN 1260 1240 L\$=Q\$ 1250 C\$="P" 1260 IF V<>28 THEN 1280 1270 C\$="E" 1280 IF V<>33 THEN 1300 1290 C\$="I" 1300 W=R/V 1310 W=W#]#P 1320 W=T*SIN(W) 1330 W=W+T+1.5 1340 W=INT(W) 1350 A\$=SEG\$(L\$,W,[) 1360 IF A\$="P" THEN 1400 1370 IF A\$="E" THEN 1400 1380 IF A\$="#" THEN 1400 1390 GOTO 1410 1400 C\$="*" 1410 IF W=L THEN 1450 1420 IF W=19 THEN 1470 1430 L\$=SEG\$(L\$,[,W-L)&C\$&SE G\$(L\$,LEN(L\$)-(19-W)+L,(19-W))) 1440 RETURN 1450 L\$=C\$&SE6\$(L\$,],18) 1460 RETUEN 1470 L\$=525\$(L\$,[,18)&C\$ 1480 RETUEN 1490 W=JC+68569 1500 R=INT(\\$W/146097) 1510 W=W-INT((146097*R+)/\) 1520 Y=INT(4000\$(W+E)/146100 1) 1530 W=W-INT(1461*Y/\)+31 1540 H=INT(B0\$W/2447) 1550 D=W-INT(2447#M/80) 1560 W=INT(M/11) 1570 M=H+1-12#W 1520 Y=100#(R-49)+Y+W 1590 A\$=STR\$(M) 1600 C\$=A\$&"/ 1610 A\$=STR\$(D) 1620 C\$=C\$&A\$&*/*

1630 A\$=STR\$(Y) 1640 W=LEN(A\$)-[1650 C\$=C\$&SE6\$(A\$,W,]) 1660 RETURN 1670 @\$=** 1680 FOR J=[TO T 1690 G\$=B\$&CHR\$(32) 1700 NEXT J 1710 @\$=@\$&":"&@\$ 1720 RETURN 1730 RESTORE 1780 :: FOR I=9 7 TO 12 1740 READ A\$ 1750 CALL CHAR(I,A\$) 1760 NEXT I **1770 RETURN** 1780 DATA 00000038043C643C,0 040404078444478,000000122020 2010 1790 DATA 000404043C44443C,0 00000384478403C,001824203820 2020 1800 DATA 00000038443C0438.0 040404078444444,001000101010 1010 1810 DATA 0004000404042418,0 020202428302824,001010101010 1010 1820 DATA 0000006854544444,0 000005864444444,000000384444 4438 1830 DATA 0000007844784040,0 000003C443C0404,000000586440 4040 1840 DATA 0000003C40380478,0 010103B1010100E,000000444444 4438 1850 DATA 0000004444282810,0 000004444545428,000000442810 2844 1860 DATA 00000044443C0438,0 000003C0408103C 1870 CALL BLANK :: IISTLAY A T(12, J)SIZE(-26):: DISPLAY A T(5,): "This program calcula tes a" :: DISPLAY AT(6,): "c hart of your biorhythms." 1880 DISPLAY AT(8,)SIZE(-26)): "WHAT ARE BIORHYTHMS??" :: DISPLAY AT(11,)SIZE(-26): Biorhythms are rhythmical : DISPLAY AT(12,)SIZE(-26): "changes occuring in the" 1890 DISPLAY AT(13,):"f_ret ions or activities" :: L'SFL AY AT(14,):"of organs and o rganises." rganisms. 1900 DISPLAY AT(16,_):"In hu mans these activities" :: DI SFLAY AT(17,_):"are broken d own into three" own into three" 1910 DISPLAY AT(18,_):"categ ories. They are:" :: DISPLA Y AT(20,10):"PHYSICAL" :: DI SPLAY AT(21,10):" " 1920 DISPLAY AT(22,_):"Physi cal/motion activities" :: DI SPLAY AT(23,5)BEEP:"****** PRESS ANY KEY ******" 1930 CALL KEY(@,K,S):: IF S< =@ THEN 1930 =@ THEN 1930 1940 CALL BLANK 1940 CALL BCANK 1950 DISPLAY AT(5,): "Like s kiing, hiking etc." :: DISPL AY AT(7,9): "EMOTIONAL" :: DI SPLAY AT(8,9): 1960 DISPLAY AT(7,): "This i s how you feel" :: DISPLAY A T(10,): "depression, anger, etc.." :: DISPLAY AT(12,8):

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17,):"Biorhythms are analyz ed":: DISPLAY AT(18,):"on ed" :: DISPLAY AT(18,_):"on a day-to-day basis." 1990 DISPLAY AT(19,_):"All y ou have to do" :: DISPLAY AT (20,_):"is tell the computer your" :: DISPLAY AT(21,_):" birthday and in what" 2000 DISPLAY AT(23,5) BEEP:"\$ # PRESS ANY KEY \$* 2010 CALL KEY(@ K_G)... TE CY 2010 CALL KEY(@,K,S):: IF S< =@ THEN 2010 =@ INEM 2010 2020 CALL BLANK 2030 ETEPLAY AT(5,):"year y ou would like to" T: DISPLAY AT(6,):"start printing the charts." :: DISPLAY AT(7,) """ :"The computer takes it from 2040 DISPLAY AT(8,):"there! " :: DISPLAY AT(10,):"The c omputer will say" :: DISPLAY AT(11,_): "which category it is by" 15 DY" 2050 DISPLAY AT(12,):"one o f three symbols:" :: DISPLAY AT(13,):"either a P, E, or I." :: DISPLAY AT(15,):"P = PHYSICAL" 2060 DISPLAY AT(16,):"E = E MOTIONAL" :: DISPLAY AT(17,):"I = INTELLECTUAL" :: DISP LAY AT(19,): if the symbol is in the up 2070 DISPLAY AT(20,): colum n then that category :: DIS PLAY AT(21,):"is in it's po sitive cycle." 2080 DISPLAY AT(23,5)BEEP:"# # PRESS ANY KEY ##" 2090 CALL KEY(@,K,S):: IF S(=@ THEN 2090 2100 CALL BLANK 2100 LIFL DLINK 2110 DISPLAY AT(5,):"if a c ategory is in the :: DISPLA Y AT(6,):"down column then it's in :: DISPLAY AT(7,): it's in" :: DISPLAY AT(7,_): "it's negative cycle." 2120 DISPLAY AT(8,):"if a c ategory is in the 0" :: DISP LAY AT(9,):"column then it' s in it's" :: DISPLAY AT(10,):"critical cycle." 2130 DISPLAY AT(11,):"The c ritical cycle is" :: DISPLAY AT(12,):"the worst of the three." three. three." 2140 DISPLAY AT(13,): "Let's say you get a" :: DISPLAY AT (14,): "-I, a +P, and a OE. ":: DISPLAY AT(15,_): "This means you have a 2150 DISPLAY AT(16,_): "posit ive physical, but ":: DISPL AY AT(17,): "a critical emot ional & a" :: DISPLAY AT(18,): "penative intellectual da):"negative intellectual da 2160 DISPLAY AT(20,):"So ev en though you" :: DISPLAY AT (21,):"might have lots of e nergy" :: DISPLAY AT(22,):" you might be depressed." 2170 DISPLAY AT(23,5)BEEP:"# 2500 SUBEND

PRESS ANY KEY ##" 2180 CALL KEY(@,K,S):: IF S< =@ THEN 2180 2190 CALL BLANK 2200 DISPLAY AT(5,):"You al so might not" :: DISPLAY AT(6,):"concentrate and make" 6,): "CONCENTRATE AND MAKE :: DISPLAY AT(7,): "decision s as well as you" 2210 DISPLAY AT(8,): "usuall y do. So physical" 2220 DISPLAY AT(9,): "activi ties are your" :: DISPLAY AT (10,): "best bet." :: DISPLAY AT(12,). "best bet." :: DISPLAY Y AT(12,_):"If you see an '\$ 2230 DISPLAY AT(13,_):"that means that two or" 2240 DISPLAY AT(14,): more categories are :: DISPLAY AT(15,): crossed in that co lumn. 2250 DISPLAY AT(17,):"If al 1 three cat's are + 1 three cat's are + 2260 DISPLAY AT(18,):"then you can do anything" :: DISP LAY AT(19,): "without worry. " :: DISPLAY AT(20,):"If al I three are -, then" 2270 DISPLAY AT(21,):"be a little cautious of :: DISPL AY AT(22,): "what you do." 2280 DISPCAY AT(23,5)BEEP:" * PRESS ANY KEY **" 2290 CALL KEY(0.K.S):: IF S(2290 CALL KEY(@,K,S):: IF S< 2240 LALL KETTE, N. J.: AT J. =@ THEN 2290 2300 CALL BLANK 2310 CLEFLAY AT(5,): "If all three are 0," :: DISPLAY AT (6,): "then look out! You s hould :: DISPLAY AT(7,): "u se extreme caution on" :: DI COLAY AT(2,): "these days. SPLAY AT(8,_):"these days. HAVE FUN!" 2320 DISPLAY AT(23,)BEEP:"P RESS ANY KEY TO RETORN" 2330 CALL KEY (@,K,S):: IF S(=@ THEN 2330 2340 CALL BLANK 2350 RETURN 2360 !@P+ 2370 SUB BLANK 2380 @=0 :: [=1 ::]=2 :: = 3 :: \=4 :: 60TO 2390 :: I : iep-2390 FOR I=5 TO 23 :: DISPLA Y AT(I.[)SIZE(-28):: NEXT I 2400 10P+ 2410 E.FEND 2420 SUB PRINT(DEV\$) 2430 @=0 :: [=1 ::]=2 :: = 3 :: \=4 :: GOTO 2440 :: DMP \$:: COLUMN, G, ROW :: !@P-2440 OPEN #(:DEV\$,OUTPUT 2450 DMP\$="":: PRINT #[:"" :: PRINT #[:"":: PRINT #[:" B I O R H Y T H M C H A R T" :: PRINT #[:"-----2460 PRINT #[:** 2470 FDR R0W=5 TO 22 :: FOR COLJMN=30 TO [STEP -[:: CA LL 2545 R0W, COLUMN, 6):: IF 6=95 THEN DMP\$="-"&DMP\$ ELSE DMP\$=CHR\$(G)&DMP\$ 24B0 NEXT COLUMN :: PRINT #E :DMP\$:: DMP\$="" :: NEXT ROW :: CLOSE #E 2490 !@P+

TIPS ON TRIPLE TECH

One of the nice features of the Corcomp Triple Tech Card is the 64K print buffer. If you have a printer such as the (Gemini 10X) then this buffer is all the more important since this model has only a limited amout of

buffer built in. If you are down loading information and messages on the BBS and would rather not have the noise and chatter of the printer while in session, you can turn off the printer. Then when you have concluded your time on the BBS, you can activate the switch on the Triple Tech Card and everything that came over the line will be printed out.

Elsewhere in this issue are two short programs for the Card. The repeats what the original The first one merely instructions It allows you to set the clock to the said. accurate time. The second routine will allow you to call up the time and display it on your screen and also your printer if desired. You could also use this routine in your programs as a sub-routine if you wanted to.

ANSWERING MACHINE

- + --

Do you have a machine? Are your Do you have a telephone answering machine? Are you tired of using your or your partner's banana split voice? Want to create something distinctive? Using console BASIC and the TERMINAL EMULATOR II, you can do just that!

That: This program creates a unique announcing message. Before using, replace the name DENNIS with your own or whatever name you choose in line 130 unless of course your name happens to be DENNIS. You can delete or change lines 170-190 if the repeat feature is not wanted.

Changing the parameters in line 105 will change the pitch and slope. For more information on doing this, see page 34 of the TERMINAL EMULATOR II instruction manual. Also see the manual for information on inflection, stress points, pause and break characters.

SAMPLE MENU

- + -

Here is a sample menu program that you can use after typing in your own program names in the DATA line. Use the space bar to change the selection arrow and ENTER when the choice is made.

DSK1.MENU" and the menu will be redisplayed at the end of the current program.

- + -

CLEAN DISK DRIVES

Here is a little program that will turn on your disk drive and it will continue to run until you stop it with FCTN 4(clear). Many disk drive cleaning kits require the drive to run for 30 seconds. Use this program and stop when cleaning time has been reached.

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TIPS ON TRIPLE TECH

10 CALL CLEAP 20 INFUT "DA: OF WEEK (0-6)" :A\$ 30 INPUT "DATE (MM/DD/YY)":B \$ 40 INPUT "TIME (HH:MM:SS)":C 50 D\$=A\$&","&B\$&","&C\$ 60 DPEN #1:"CLOCK" 70 PFINT #1:D\$ 80 CLIEE #1

10 OPEN #1:"CLOCK" 20 INPUT #1:A\$,B\$,C\$ 30 PRINT A\$, B\$, C\$ 32 OPEN #2: "PIO" 34 PRINT #2:A\$,B\$,C\$ 35 CLOCE #2 36 3373 20

SAMPLE MENU

MENU 100 'THE'END'OR'STOP'IN PTIFAN ONE...ETC. SHOULD B E AFTLACED WITH' "RUN DSK1. MENU" 110 ! SO THAT THE MENH IS RE DISPLAYED FOF ANOTHER CHOICE 130 DISPLAY AT(3,3):"SAMPLE MENU FS GRAM 140 RESTORE :: IF X>1 THEN D ISPLAY AT(2#X#4,1)SIZE(4):" 150 IF X>7 THEN X=1 :: DISPL AY AT(20, 1) SIZE(4):" 160 DISPLAY AT(2\$X+6,1)SIZE(4):A\$ 170 IF X>1 THEN DISPLAY AT(2 *X+4,1)SIZE(4):"

180 IF X>1 THEN 240

190 FOR I=1 TO 7 200 READ B\$ 210 DISPLAY AT(2#1+6,5):B\$ 220 NEXT I 220 NEAL 1 270 DISPLAY AT (27,1): FFESS 56405 RAR TO CHANGE ; FFESS (EN 26 TO SELECT 240 LALL KEY(0,K,S) 250 IF S=0 THEN 240 260 IF K=32 THEN X=X+1 ELSE IF K=13 THEN 290 270 GOTO 140 270 GDTD 140 280 PATA 1 ONE,2 TWO,3 THREE ,4 FR.F.5 FIVE,6 SIX,7 SEVEN 290 CALL CLEAR :: DISPLAY AT (8,8):"RUN FFCSFAM #";X 300 INPUT "FFESE (ENTER) TO CONTINEE O TO QUIT ":P\$:: IF P\$=AA\$ THEN X=1 :: CALL C LEAR :: GOTO 130 ELSE STOP

GRAPH SHEET MAKER

100	REM ++	320 NEXT I
110	PEN +6RAPHSHEFT MAKER+	330 F\$=@\$&"K"&CHR\$(484)&CHR\$
120	FEM + RY JOHN REHNKE +	(0)&E\$
130	FFM + 4	340 G\$=@\$&*K*&CHR\$(228)&CHR\$
140	REM + FPSON OR GEMINT +	(0) &A\$
150	FF +PEINTER REDITRED+	350 NPEN #1: "PIN.CR"
140	REM +RASIC OR Y-RASIC+	360 FOR B=1 TO A
170	RF# 4	370 FOR C=1 TO 11
180	TALL PLEAR	77 PRINT #1:052CHR\$ (64) 1041
190	INPUT "NUMBER DE SHEETS?	TT&CHR\$(16)
* A	THE THORE AND THE TO:	390 FOR D=1 TO 8
200	CALL SCREEN(2)	400 PRINT #1:Es.Es.CHR\$(10)
210	85=CHR5(27)	410 NEYT D
220		470 PRINT #1+54+64+841*3*100
230	Δ\$=Δ\$1CHR\$(178)	R\$(7)
200	NEYT T	ATO NEYT C
250	Re=: Fre(Ad 1 7)	440 PRINT #1+941=1-UP4(17)
220	P#-1200(H#11//) P#-1200(955)\$CEC#/A# 1 /	ASO FOR $t=1$ TO P
100	G#=1:0:#(200/00CO#(H#,1;0	460 PRINT #1+CHP4(13)2CHP4(1
270	EOR I-1 TO A	(1)
280	FOR $J=1$ TO R	ATO NEXT I
290		IN NEXT B
300	NEYT J	4-7 CLOSE #1
200	HLAI U	· OLOUL WI

310 E\$=E\$&CHR\$(255)

500 END

CLEAN DISK DRIVES

100 CALL CLEAF 110 CALL SCPEEN(13):: FOR C= 1 TO 12 :: CALL COLOR(C,16,1 5):: NEXT C 120 EISFLAY AT(12,10):"CLEAN ING....* :: DISPLAY AT(23,2)

"(HOLD FCTN CLEAR TO STOP" 130 ON ERROR 150 140 GDSUB 160 150 60TD 130 160 - 38 "DSK1.B" 170 EETURN

WIPE YOUR SCREEN

The purpose of this little routine is to you a few screen clearing techniques show which you might find useful in your programs. Line 100 is the RANDOMIZE statement which used in conjunction with RND in line 110 gives you different colors each time you run the program. In line 130 the CALL COLOR statement assigns a foreground and background color to character set 2. Each time x is encountered a different random color is selected. The subroutine at 300 fills the screen with characters so you can see how the various wipes perform. Line 150 is our familiar CALL CLEAR. Line 170 executes a verticle wipe and Line 190 a horizintal wipe. Lines 210-230 provide a horizontal wipe from Lines right to left by clearing one row at a time in a loop. Lines 250-270 show a vertical time wipe by clearing one column at a time in а similar loop.

YOUR SCREEN WIPE

100	RANDOMIZE	210	FOR N=24 TO 1 STEP -1
110	[EF X=INT(RND#16)+1	220	CALL HCHAR(N,1,32,32)
120	FTF CH=40 TO 44	230	NEXT N
130	CALL COLOR(2,X,X)	240	9529B 200
140	131B 300	250	FIF N=32 TO 1 STEP -1
150	CALL CLEAR	260	CALL VCHAR(1, N, 32, 24)
160	575. B 300	270	NEXT N
170	IAL: HCHAR(1.1.32.768)	280	NEXT CH
180	>TEJB 300	290	STOP
190	CALL VCHAR(1.1.32.768)	300	24LL HCHAR(1,1,CH,768)
200	GOSUB 300	310	FETURN

ANSWERING MACHINE

100 DPEN #1:"SPEECH", DUTPU	[
110 PRINT #1:"//30 96"	
120 PRINT #1: "HEL>LD. "	
130 PRINT #1: "I AM A COMPUT	ſE
R. *	-
140 PRINT #1: "DENNIE IS NO	ſ
AVAILABLE RIGHT NOW.	
150 PEINT #1: "IF YOU WISH I	11
M TO RETURN YOUR CALL	

160 PRINT #1: "PLEASE LEAVE Y OUP NAME, PHONE NUMBER, AND MESSAGE AFTER THE BEEP TONE. 170 PRINT #1:" _ THANK _YOU. 180 FOR A=1 TO 1500 190 NEXT A 200 60TO 120

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HYPHENATOR

"HYPHENATOR" One of the nice features of TI-Writer is the ability to type in word-wrap mode, which speeds up typing by allowing you to concentrate on text without having to worry about exceeding the right margin. There is a draw-back, though, to word-wrap in that longer words which would exceed the right margin are scrolled to the next line in their entirety.

entirety.

Thé disadvantage of this system becomes obvices when text is printed out using the Second when text is printed out tendency for the right margin to have the "jaggies".

Using the right-margin-flush feature (AD) of FORMATIER provides only a partial cure since now FCF ATTER inserts blank spaces between words to fill up the line. The amount of white space inserted varies with the number of characters that need to be filled with the result that text can be rather blotchy in appearance.

The only way to improve the appearance is to re-edit word-wrap text and to hyphenate as much as possible where lines break.

where lines break. Unfortunately, the EDITOR of TI-Writer is not quite up to that task. At the most, the EDITOR can display BO <u>Cistacters</u> per line whereas the FORMATES and most printers can handle Elite (up to 132 characters) or Condensed (up to 132 characters) per line. In such a case the EDITOR is of no help. A further hindrance is that the EDITOR will display imbedded print commands which is helpful in creating text but a serious obstacle in fine tuning right margins. Typical examples are string commands to turn super-or subscript on or off or the "ampersand" or "at" commands of the TI-Writer for ;underlining and double strike. Quite often for ease in typing and

junderlining and double strike. Buite often for ease in typing and editing users elect to fix the right margin at 40 characters to do away with horizontal scrolling. An attempt to judge the final appearance of text by resetting tabs to final form and using the "Reformat" command can be misleading cince previously entered indentations are since previously entered indentations are

then is rad. "Power NATOR is an editing utility for TI-Writer that succeeds in addressing the following priliems: HIF-ENALOG handle print-widths or

"THE ORPHANS SURVIVAL HANDBOOK" (The following is an advance release annr_:ing the upcoming new book from Dr. Ron -:cright, author of the 'The Orphan Cronicies', published by D.O.S. - Disk Only Software).

The first "In Orphan Chronicles", was in you, the Texas Instruments '97'AA enthusiast. Now, there is a book BY you. The "Orphan's Survival Handbook" is the one-stop information source for the TI user. The "Orphan's Survival Handbook" and both easier and harder to put togeter than was the "The Orphan Cronicles". Easier in that it was already written! It is an anthology of material cleaged from

is an anthology of material gleaned from literally hundreds of user groups newsletters and hundreds of hours of downloaded files from bulletin board board

right terring of up to 160 characters. HETHENHIR properly accounts for imbedded print commands, be they the TI-Writer "at" or "ampersand" type or special character mode (CTRL U)

transliterate symbols. HYPHENATOR makes it possible to change margin settings within a document for quoted text that needs to be indented

change margin settings within a bocument for quoted text that needs to be indented further. "ampersand" or "at" symbol as a character to be printed rather than as a non-printing control character. "Him in OR allows for the FORMATTER idiosyncracy of inserting two blanks following a period even though only one space might have been typed in. The program is a stand alone utility that can be loaded using the LOAD and RUN option of the Editor/Assembler or Mini-Merry cartridge. After loading, HYPHENA': will prompt for the name of the input file (the name of the document created with II-Writer) and a name for an output file which H."HENATOR will create in TI-Writer format. The use of either a single disk or two disk drives is supported. The original text file will not be altered in any way. Once the proper files are set up, HYPHENATOR will read in a paragraph of text which can be up to 5280 characters long (a full page, single-spaced). According to the margin and indertation information for which Himit an end-of-line marker exactly on that character which would be the last character to be printed by the Fir Matter, with all non-printing characters, extra spaces, etc. already accounted for.

with all non-printed by the FrimmalleR, spaces, etc. already accounted for. If the end-of-line marker points to a space or the last character of a word, no further action is necessary except for pressing (ENTER) to bring up the next line.

line. If the EOL marker points to the middle of a word, a decision needs to be made whether hyphenation is possible. If yes the editing cursor <FCIN S> should be moved to the last character prior to the hyphen : a hyphen symbol keyed in. HYPHEN4 :- will supply the necessary prompts to complete the job. Once all the lines of a particular block have been edited a screen message

block have been edited a screen message will prompt for writing the block out to

the disk file. For speed and convenience, HYPHENATOR has a number of imbedded defaults. Thus empty lines or lines with only format control characters are written to the output file without user intervention. An "oops" feature can be invoked at any time by pressing (CTRL 1> to go back to the beginning of the paragraph. This comes in handy if there should be any second thoughts about a line just completed.

completed.

CCTPL 3> AND (CTRL 4> toggle the screen display color which make it possible to display many combinations of screen and text color. (CTRL 2> invokes the

(CTRL 2) invokes the margin/incentation set option to change these values at any time. (CTRL 9) writes out the remainder of an input file without further editing to the output

without further editing to the output file. This comes in handy where only a portion of text needs that final touch. Any time a line of text is displayed on the screen, minor editing is possible. Thus "recieve" can be changed to "receive". The limitation is that the new text must have the same length as the origitation. http://with. http://with. http://with. Sector compressed print document could be "fine-tuned" in under twenty minutes. The use of a cicket dictionary in conjunction with Hore HeNATOR is strongly recommended. Due to the memory limitations of the 99/4A system, HYPHENATOR complete with four and one ball course of document in and hyphenate. Where to hyphenate is up to the user. That's where the dictionary comes in "andy. HYPHENATOR complete with four and one ball course of document in and in the second document of the second to a course of the second to hyphenate of a complete with four and one ball course of document in and in the second to and the second to and the second to a course of document is up to the user. That's where the dictionary comes in "andy. HYPHENATOR complete with four and one ball course of document is and in the second to a course of document is and in the second to and the second to a course of document is and in the second to and the second to a course of document is and the second to a s

HYPHENATOR complete with four and one half pages of documentation on disk is available from the author:

Wayne L. Stith (Smith ??) 715 Timken Drive Richmond, VA 23229

The cost is \$10.00. Source code in addition to object code and documentation is available for \$15.00.

(EDITORS NOTE:) I have not tried this program and only offer the comments as presented. However it seems to be a reasonable price if it lives up to its claims. -ccb-)

systems. It is the "Best of" you - the II user group members, hackers, programmers, and newsletter editors. Why, then, was it difficult? There was so much quality material available! The hardest thing was not finding enough material, it was deciding what I could leave out!

hardest thing was not finding enougn material, it was deciding what I could leave out! The "Orphan's Survival Handbook" is a 200-plus page compendium of II material. It is filled with schematics, hardware hacks, programs, tips, and tutorials from across the country. Where to call, where and what to buy, and what to read. Moreover, it contains new, "never-before-seen" material from scheme of the brightest minds in the II some of the brightest minds in the TI community (too numerous to name them all). Looseleaf, and three-hole punched, the manual can be placed conviently in a binder for easy access. And updates

(which are planned for registered owners) can be easily incorporated into your "Handbook" as new insights and developments become available. While I can't guarantee the "Handbook" will have "everything you ever wanted to know", I can assure you that it has most everything I could think of. The "Orphan's Survival Handbook" is published a: available from Disk Only Software '253, P.O. Box 4170, Rockville, ML 20850; (301) 369-1339) or call our toll free number at 800/446-4462 plus 897335 at the tone (touch tone required). Projected retail price is \$16.95. Call or write DOS for details today!

Call or write DOS for details today! (Reprinted from the TIC TAC User Group Newsletter)

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