WORDPLAY The PUNN Newsletter - Portland, Oregon

November 1988

What's Inside

•											
t	From the President									Page	1
t	News and Views										1
t .	Name That Phone .										2
1	Wedding Bells						Ĵ	Ĵ			2
t	Hard Conv Librarian			•		Ţ			·		2
÷	Canned Ened Drive		•		•	•	•	•	•		÷.
•	canned Food Drive	•	•	٠	•	٠	•	٠	٠		2
ŧ.	Slot Machine Game	•									3
t .	Good Old Days Part	П									4
t	TI-DOS										5
t	Gram Kracker		•	-	•	,	•	•			5
è.		•	•	•	•	•	•	•	•		,
•	ri-bus conclued .	•	•	•	•	•	•	٠	٠		6
ŧ	23 Skidoo!										7
1	Newspaper Drive .										7
t	Genial Travelor										7
t	Program for Novembe	r						Ì			7
ŧ	DON For Nousshar		•	•	-	•	•	•	•		7
•	DOULTON MOVEMBEL +	•	•	•	•	•	٠	•	٠		1
1											

Club Officers President Al Kinney 640-5860 Vice-President Dale Kirkwood 645-4117 1 Secretary Don Barker 223-1749 t Treasurer Chuck Neal 642-7292 PUNN Staff Librarians Ron Mayer 232-7363 # Walt Morey 239-5105 # Jim Thomas 284-2425 # Hardcopy Mike Calkins 636-1839 # Program Chairman Ted Peterson 244-1587 \$ Workshop Chairman Jim Smith 233-0273 # Membership Chairman Terry Priest 649-9583 Newsletter Editor Charles Ball 639-0466 16576 SW Matador Lane-King City, DR 97224 t * * * * * * * * * **BBS Committee** Chairman: Al Kinney 640-5860 Ron Mayer 232-7363 \$ Mike King 357-4413 \$ BBS Phone Number 503/233-6804

From The President

As we near the end of the year, a couple of very important events are approaching. First, our Annual Of-ficer's election will be held in December. The Nominat-

ficer's election will be held in December. The Nominat-ing Commitee has been at work, helping to put together a good slate for you to vote on at the election. The other thing coming up this fall is something we set out as one of our goals at the first of the year. The goal was to get PUNN involved in a community service action. To this end, I am announcing the start of the First Annual PUNN Canned Food Drive, beginning with the next general meeting. We have about 100 paid members in PLNN, so it seems to me that we should be able to set as PLNN, so it seems to me that we should be able to set as a goal, the collection of at least 150 cans (or pounds) of food for the needy.

Now, obviously, not everyone can come to every meeting, so it is important for those of us who are there to bring at least two cans of food to each of the November and December meetings. But, it would also be great to see EVERYONE come to at least one of the meet-ings. Let's work to make this a success, and I'm sure we'll all feel richer for it.

We'll also be collecting newspapers and donating the proceeds of that effort to the needy. Be sure to help where you can.

Al Kinney

News and Views

This month we have some good news and some bad news- - Mike King got married (see elsewhere in this issue), but we are saddened by the passing of member Pe-ter Rawlinson-our expression of sympathy goes out to his family- - The Library is going to be revitalized-On Saturday morning, October 29th a group is going to meet for the express purpose of cataloging the disks and up-dating the procedures for getting programs to the mem-bers-If you can help with this activity speak to Al Kinney-Your help is needed - - -Plan to come to the November meeting and bring a couple of cans of food to be donated to a worthy charity-Let's show Portland that PUNN is a good neighbor that participates in community affairs--Don't throw away those old <u>newspapers</u>!-We're going to -bon t throw away those old newspapers: we re going to have another paper drive soon-This time we're going to donate the procedes to charity - - Volunteers are always welcome to help the Editor with the newsletters-He has had help recently from Ashley Reed, Paul Heerman, John Usher, Bill McCabe, Jim Klausmeier and Don Steffan-You too can help make the newsletter one of the best-With many helping out in this manner the bulletin has a much wider appeal – - The Nominating Committee will report its slate of officers for 1989 at the November meeting-Nominations from the floor are open-If you or someone you know would desire to serve, let your wishes be known – -Chuck Neal reports a bank balance of \$1571.05 and this is after the nurchase of the 2400 haud moder and this is after the purchase of the 2400 baud modem for the BBS- - -Remember you are welcome at the Board Meetings-The next one will be held at the home of Chuck Ball- - - Ted Peterson, Program Chairman says we'll have TI-Writer and Multiplan programs in January and Feb-ruary-He wants to hear from you as to the type of pro-gram you want. ccb, editor

Name That Phone

(This program was originally written by Ed Machonis of the QB-99er's, Bayside NY, but has been edited and improved by our own Ash-

ley Reed-Thanks Ashley for a nice job!-ed. Do you remember calling TI-CARES? Never had to look up that number, it always was at the tip of your fingertips! And what an as-set it was to TI. I don't believe that help-line cost TI a penny. It paid its weight in free advertising. Knowing that help was at the other end of a toll free line sold many a computer.

Today, many businesses strive for a tel-ephone number that can be easily remembered. Perhaps there is a word or phrase hidden in your own phone number. But how to discover it? You could look over the dial and see what letters are involved and try arranging them into words. Good luck! Each of the seven digits in your phone

number, excluding ones and zeros, can repre-sent any one of three letters of the alpha-

sent any one of three letters of the alpha-bet. The number of possible combinations is 3 to the 7th. power, or 2187. Try arranging them into words some rainy weekend. Sounds like one of the tasks we bought our computers for and it is. The program listed here can do the job in just over 11 minutes. It will present you with every com-bination of letters existing in your number. It will display them on screen or send them It will display them on screen or send them to your printer. The printout, in 6 columns takes up about six pages. Not bad for a screenful of code.

When you RUN, the program it will prompt you to enter your phone number, one digit at a time. It will then ask you to choose Screen or Printer. (You may enter any number from 1 to 255 for the Printer.)

There are no letters assigned to One or Zero. If you enter these numbers into the program, it will display asterisks for zeros and number signs for ones.

The screen display is in two columns and scrolls by just about fast enough for you to follow. Should you spot some interesting combinations you would like a closer look at just break the program with FCTN 4. When you

Wedding Bells

Wedding Bells have rung once again in PUNN Land. Ex-Treasurer Mike King and Mary Ann (Mele) King were married on Saturday Oc-tober 8. The wedding took place at 4:30pm at Holy Reedemer Church in North Portland.

They left Sunday for a one week vacation in Hawaii. The bride's immediate family and friends attended as did Mike's family who came from New York.

All of us in PUNN offer our congratula-tions for a happy life.

Perhaps the bride is into computers and will come to the meetings.

M	roby'r Bulot	
1 M	phy s Rule:	
	When all is said and do	ne
	more will be said	// K_
	THAN done.	

are ready to continue, just tell the computer to do so by typing CON and it will resume where it left off. If you don't find a word, you should certainly be able to find a phrase, the ini-tial letters of which would represent your number. Try to work out a phrase which is easily associated with you.

easily associated with you. In my own case, the best I could find was EGDRAMA which I turned into the mnemonic "Ed's Great DRAMA." Using initial letters, I can also be reached with "Ed Is Forever Pro-gramming A Marvelous Computer." Avoid using numbers in your mnemonics, like "Ed Has Dam-aged Seven Brand New Cars." Your friends start to wonder, "Let's see, is it SIX or SE-VEN new cars that maniac has destroyed?" And then there are the characters who will perthen there are the characters who will per-sist in dialing the number 7 instead of the initial letter "S"

There may be a fantastic mnemonic hiding in your phone number, but you won't know it unless you run this program. Good Luck!

1 !####NAME THAT PHONE######	10 FOR J=1 TO 3 :: G\$=G\$&SEG
<pre>\$ No 1's or 0)'s Please \$</pre>	\$(E\$,6+J,1)
t A TInv Gram t	11 FOR K=1 TO 3 :: 6\$=6\$&SE6
t by Ed Machonis \$	\$(E\$,9+K,1)
###DB-99'ers Bayside NY##	12 FOR L=1 TO 3
2 IttttttREVISED BYtttttt	13 6\$=6\$&SE6\$(E\$.12+L.1):: F
3 ItttttttASHIFY REEDITIT	DR M=1 TO 3 :: 6\$=6\$&SE6\$(E\$
A INTERPORTIAND HERE'S DE 9911	15+M 1) .: FOR N=1 TO 3
5 DEE Ge: :: \$ (64 1 1 EN(64)-1	14 65=651SE65(F\$ 18+N, 1):: P
1++ A\$="\$#####C?^~_EGHIJKI MN	RINT #P+6\$ ++ 6\$=5\$ ++ NEYT
	N ++ 6\$=S\$ ++ NEYT M ++ 6\$=S
L INDUT PENTED DICIT *10TD¢(e NEYT I Ge=Ge NEYT
DINFUL ENIER DIDIL COLLAR DINA DE DUDUE A 4.D E¢~E¢	V Ce-Ce NEVT T Ce-
- 614 UF FRUNE # 10 11 E#-E#	P# NEVT U NEVT E
43609(R9,04341,3);; NEA1 6	DA II NEAL A II ALAN F
7 PRINT : "O=SUREEN": "I=PRINT	15 INPUT "LHANDE DISK THEN P
ER": CHUICE (0/1)", :: INPUT	RESS ENTER":KY\$
P :: IF P THEN OPEN #P:"PIU"	16 RUN "DSK1.LUAD"
B FOR F=1 TO 3 :: G\$=**&SEG\$	17 !CONMENTS.
(E\$,F,1)	18 !IF YE HAVE A 1 DR O IN
9 FOR H=1 TD 3 :: G\$=G\$&SEG\$	YOUR F: N. NUMBER YOU MAY WI
(E\$,3+H,1)	SH TO LEANGE LINE 2 TO ABCDE
	F INSTEAD OF ######

Hard Copy

Mike Calkins, our Hard Copy Librarian, asks once again for the return of outstanding books.

These books are for all to use and en-joy, but they are of no value if they are not returned and made available for other members.

Mike will be on vacation at the November meeting and he asks that you return the books to Jim Thomas during the meeting.

Canned Food

Your are requested to bring a can or two of food when you attend both the November and December meetings.

We're going to donate these gifts to a worthy charity and this is a good time to get into the 'Christmas Spirt'.

for Hold.

Slot Machine When you see: Insert, Hold, Play OR End enter your choice by typing the first letter of the option you want, for instance P

Planning a trip to Reno or Las Vegas? If so you will want to try this program and practice up for your trip. You've probably been there in

the past at one time or another. So you will recall the the whirring and the sounds of the slot machines and found yourself wondering what the fascination was.

the fascination was. You"ll soon find out when this program turns your computer into a fabulous Nevada style fruit machine. All the playing in-structions you need will appear on the structions you need will appear on the screen. At certain points you will be presented with a list of options.

HINE

ó.ó

EXT JD

ET D

GET.CH1

ETURN

300

ETURN

RETHEN

IO REM TILEXTENDED)-SLOT MAC FFFFFF*1 420 CH\$="OFOFOFOFOFOFOFOFOF" : 1-=(40 : - VV=1 TO 13 :: READ WF (Vvi,k11,VV),R(2,VV):: NEXT 50 DATA 110,0,0,116,0,0,115, 0,0,109,0,0,106,8,50,105,8,4 0,114,7,30 60 DATA 113,5,25,104,3,20,13 6,3,20,137,2,10,128,2,10,112 13.141 450 ... CHAR(107, *FFBBBBBBB 3BB. * ; 460 CHAR(108, *FFFFFFF FFFFFFF*) 470 A\$="1898FF3D3C3CE404" 70 DIH JPX(4), JPY(4), JF(4), J CC(4):: FOR JO=1 TO 4 :: REA D JPX(JO), JPY(JOI, JF(JO):: N 480 CALL CHAR(109,A\$):: CALL CHAR(:: ** 490 A\$ *....BC3C3C2720* 500 CALL CHAR(110,A\$I:: CALL B JATA 11, B, 110, 12, B, 116, 14 B, 115, 15, B, 10, 19, 10, 12, B, 116, 14 B, 115, 15, B, 109 YO NJS-CHR (13B1 100 DIM WPI(3), WPY(3), V(4), H VV(31:: WPY(3)=15 :: FOR I=1 T 0 3 :: WPY(1)=10 :: NETI I 110 DIM HPI(3), HPY(3), HF\$(3) :: FDR I=1 T0 3 :: HPX(1)=WF 1111: HPY(1)=13 :: NETI I 120 H1\$=CHR\$(107):: WH\$=CHR\$ 1...: HH\$: ["5 '06):: H0\$=H :...: HH\$: ["5 '06):: H0\$=H :...: CFY(1)=1 :: GPI(4), GPY(1)=1 :: GPI(3)=22 :: GPY(1)=3 :: GP CHAR (116, A\$) 510 CALL CHAR(136, *02043C566 A566A3C*1 520 CALL CHAR(114, *00006C7C7 C381000*1 530 CALL CHAR(112, 0204387C7 C7C: EHAR(104, 0202063C7) CHAR(104, "02020C3C7 540 878.1 11 CHAR(128. "004060607 550 CHAR(128, 004060607 03C. 1.") 560 - CHAR(137, 020413C37 550 C7C::.:* 570 LALL CHARPAT(36,A4):1 CA LL CHAR(106,A4) 580 CALL CHARPAT(63,A4):: CA LL CHAR(120,A4) 590 CALL CHAR(113,*081C3E7F3 551 CALL CHAR(113,*081C3E7F3 140 br11/1=2/ :: br11/1=2 :: GPI(3)=32 :: GPY(3)=3 :: GP I(4)=17 :: GPY(4]=2 150 NJ=4 :: NH=0 :: NG=0 :: GW=0 :: NI=0 :: NI=-1 ELCOBOO") 600 "?' CHAR(104, *081C24772 A08...' 610 ... CHAR(105, *0010387C7 C10...) 160 GOTO 1740 170 REN BLINK SI\$/S2\$ AND SE 180 DISPLAY AT (PLY, PLX):SI\$; :: CH=0 :: FDR DE=1 TO 10 620 Cm 1 CHAR(138, 000000000 000::... 630 ··· ·· 190 IF CH=0 THEN CALL KEY 10, 640 = - IDRAW SCREEN 200 NEXT DE :: DISPLAY ATIPL 650 LALL CLEAR :: CALL SCREE Y,PLI):S2#;:: 1F CH=1 THEN R

 001
 0112

 660
 CALL
 HCHAR(7, 12, 96, 7)

 670
 FOR I=8
 10
 12:
 CALL
 HC

 680
 CALL
 .20, 601
 690
 690
 CALL
 HC

 680
 CALL
 .20, 601
 690
 CALL
 ...
 .20, 961

 700
 CALL
 .20, 961
 710
 CALL
 ...
 .20, 961

 710
 CALL
 .3, 12, 96, 71
 ...
 ...
 ...
 ...

 700
 CALL
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...< H(12) 210 FOP DF=1 TO 10 :: IF CH= 0 THEN KEY(0,GET,CH1 TT: NEX: JL :: IF CH=1 THEN - 2N 5070 180 240 REM AND INCREMENT TO MON 250 FDR AD=SENIINITO IN STEP 260 - AV AT (1,7):HOHAD; 270 in 5 N . . O THEN 290 CALL NI -50, 200, 21:: 770 DISPLAY AT(10,3):CHR*(11 FOR SO=500 TO 700 STEP 1 2]; * = ;; 780 cmp VV=12 TO 5 STEP -1 790 ::.- AY AT(23-VV,1); *-; RPT4: --- \$(NF(VV)),2); *-=*;R(00 :: CALL SOUND (-50, 60, 2) :: NEXT SO 300 NEXT AD :: MD=MO+IN :: R 310 REM RENOVE DOUBLE BOO DISPLAY AT (23-VV, 20) : RPT \$ (CHR\$ (WF (VV) 1, 3) ; == ; R (2, VV 320 DO=0 :: CALL HCHAR(2,3,3 2, // 330 FOR JO=1 TO 4 :: CALL HC HAR (JPY(JO), JPI(JO)+2, JF(JO) 1:: JCC(JO)=0 :: WEXT JO 340 NJ=4 :: f ' -4 350 CALL HCH'- .4, 3, 32, 28):: FYIND 810 IF JAC(VV)THEN DISPLAY A T(23-VV,27): "+J": B20 NEXT VV :: R B30 REN ## ADAPT - BLES B30 KEM II AUAPI - BLEB B40 NT=NT+1:::IF mi/c IHEN HB=-1::NI=0 850 FOR HO=1 TO 3 :: HF\$(HOI =NH\$:: DISPLAY AT(HPY(HO),H 360 REM JACKPOT 370 - 11=1 TD 4 :: CALL HC HAR(4,3,32,3C) 380 FOR C=1 TD JC :: CALL SO UND1-100,150+204C,01:: DISPL AY AT(4,C1:'J';:: WEIT C' PI(HD)):NH\$;:: NEIT HO

860 IF DO THEN 910 870 FOR JO=1 TD 4 :: 1F JCC(J0)=0 THEN 900 880 JCC(J0)=JCC(J0)-1 :: IF JCC(J0)>0 THEN 900 890 NJ=NJ+1 :: CALL HCHAR(JP Y(JD), JPI(JO)+2, JF(JO) 900 NEIT JO :: 60TD 920 910 DC=DC-1 :: IF DC=0 THEN GOSUB J20 920 IF JA THEN DISPLAY AT(4, 1.:* "::: JC=JC-1 :: IF JC= G INEN JA=0 **930 RETURN** 940 REM ## NOT EXOLIGH MONEY 950 HB=-1 :: 6DSUB 320 960 JA=0 :: CALL HCHAR(4,3,3 Y60 JA=0 :: UHLL HUTHK (1,3,3 2,15) 970 GOSUP 150 :: ! .AY AT(24,1):*1F - OR * : 980 S1\$=*1* - T (;;* :: S2\$= RP1\$(* ', 10):: P[II=1 :: PLY =2 :: GOSUB IB0 970 JF FFT=ASC(*P*)THEN 980 FTE=FT=ASC ELSE - -N 1000 --- IF HDLD PDSSIBLE 1010 --- AY ATL24,1): INSER 1010 -- AY ATL24,1): INSER 1. HINLU, FLAY DR END; 1... SI\$=HD\$:: S2\$=HF\$(1)tH •: \$(2)tHH\$thF\$(3) JU30 PLI=11 :: PLY=13 :: 60S UB 1BO 1040 IF GET(49 DR GET)51 THE N RETURN ELSE HO=GET-48 1050 NH=NH+1 ** 1F HF#(H0)=N H\$ THEN HF\$ (HO) = HI\$ ELSE HF\$ (HO)=NH\$ 1120 - - 350 :: IF NOT HB THEN II. LAY AT(24,1): HOLD, 1130 DISPLAY AT (24,7): GAMBL E OR ECT | 1140 1090 1150 -_- IL SPIN GANBLE WHEE 1130 -- ** 57 IN DANGLE ANCE 15 1::: FOR 1=7 TO 10 :: CALL H C-- ', 20,32):: CALL HCHARII 1:00 C. * 5 * 1000, -7,29 1190 - 1=:0 iu 7 STEP -1 : t C * " "HARI(1,20,40):: CALL -- '- ', 20,97):: WETI 1 ... r v WAST HEN 1 AY AT(NPY ** ** ND ... * HF\$ 15

1270 REN TAKE CARE OF JOKERS

VV=V(ND) 1290 IF VV)4 THEN FV=VV :: 6 ptn 1320 '. JW=WD :: J=J+1 :: IF JC I ... DO THEN 1320 IIII DISPLAY AT (JPY (VV), JPX (VV)): NJ\$;:: JCC(VV)=20 :: NJ =13+1 =NJ+1 I320 NEXT ND :: D0=(NJ=0):: IF D0 THFW nr=15 :: DISPLAY AT(2,1): ... E!; ::: RETLAN I340 REM 18 COMPUTE w:**:AGS I350 NV=13 :: ON J+1 ... I3 60,1380,1360,1410 I360 IF NOTJA AND FV)10)THE N HV=FV 1360 if Multan Hnb (77.0.... N HV=EV 1370 · . 1410 1380 . . :V(3):: V(4)=V(1):: IF JA ANU V(JW-1)()V(JW+1)T HEN 1410 1390 V(0)=15 :: V(4)=15 1400 IF V(JW+1)>V(JW-I)THEN HV=V(JN-1)ELSE HV=V(JN+1) 1410 - MD=1 TO 3 :: IF V(M D)(5 . HVVIND)=HV ELSE HV . 1420 NEXT ND :: IF HVV(1)()H VV(2)OR HVV(2)(>HVV13)THEN 1 440 1430 IF JAC(HVV(1))THEN JA=-1 :: JC-15 :: GOSUB 370 !440 FOR MD=1 TO 3 :: IF HVV m1 -13 ' - WI=WI+1 :41- MEXT WV :: IF JA THEN W 1=10\$¥I 1460 NS=- (HVV(1)=HVV(2))- (HV V(2)=HVV(3)):: IF NS>O THEN WI=NI+R(NS,HVV(2)) 1470 IF DD THEN WI=2#WI 14BO RETURN 1460 RELURN :4:: REN \$1\$ GANBLE ROUTINE :: DT=1 :: GV(1)=2\$WI :: G :: GV(3)=INT(3\$WI/2): : GV(4)=INT(WI/2] 1510 KEY=0 :: NG=NG+1 :: GDS UP 150... SUPERIAN AVERA (): GDS 10 350 :: DISPLAY AT(24,1): 10 350 :: DISPLAY AT(24,1): FOR LI=1 TO 3 :: CALL H 11,16,96,17):: NEXT LI RR=RR+1 :: IF RR>4 THEM AN-1 141 DISPLAY AT(SPY(RR), GPI(151 STR (G) - 1; 1. CALL BL N. -4000, 150+50 1-+,...) L. IF KEY()ASC ("S")THEN C LL REYTO, KEY, CH):: GOTO ISTO DT=11+RND12)1DT :: FUR DE=1 TO DT :: NFXT DE :: IF DT)150 THEN . : DT>150 THEN 1580 CALL HCH/- * *(RR),6PX(1580 CALL HCHI -1580 CALL HCHI -1580 CALL HCHI -1580 CALL H 1 iu 3 :: CALL H 1 iu 3 :: CALL H 1 iu 6W-6W+6U - WI :: XI=6 1000 GW-6W+6U - WI :: XI=6 1001 CALL - J(-1,150+50 IR(2): REJUNN IG10 REN \$\$\$ END OF GAME IG20 ^^- CLEAR :: CALL CHAR SET :: SCREEN(B)

keeps your machine playing. The reels are numbered 1, 2, and 3. If you want to hold one or more reels, type in the appropriate number or numbers after you have entered H

Lights will flash and music play as the wheels whiz around. Have you won this time? Keep playing and sooner or later you are bound to hit the Jackpot.

1280 J=0 :: FOR WD=1 TO 3 ::

1630 Y AT (5,1): ANOUNT

1670 DISPLAY AT(9,3): MAY AT ONE TIME: ;:: DISPLAY AT(9, 18): 1640:MK-4 1680 Y AT(: : VDN B 5600; Y AT(: : VDN B 1680 Y ATT. Y AT 1730 - PROGRAM 1740 . 410 'DEE CHAR 1750 650 - N 1760 . 840 - 1 1770 -21HB-(NU211+1 60SUB 950.....950,1080 : AY AT(5,9):: CA=-(LL: ADUTI*)1-24(BET=ASC(*P*)1-34(BET=ASC(*E*)) 1790 ON CA+1 60TO 1770, 1800, 1820,2020 1800 NI=NI+1 :: 1N=4 :: 60SU 8 250 1810 6010 1770 1810 601D 1770 1820 IN=-2 :: 6DSUB 250 1830 605UB 1140 !SPIN WHEELS 1840 IF D0 ... 1840 ... ir nr%:/-nr% un nr%(2) ... H8-0 :: LV=H1 :: 1F W1) ... H8-0 :: LV=H1 :: 1F W1) ... H8-0 :: LV=H1 :: 1F W1) ... H8-1 :: IF W1)LW IHEN 1910 1910 1910 1900 DISPLAY AT(5,91: YOU L 051" :: ^: SOUNDI-600,200, 21:: ^: 160 1910 .. Y AT(5,91: YOU NO M*:: DISTLAY AT(5,17): H1:: FOR DU=1 TO MI :: CALL SOUNDI. 500,701:: NETI DU 1910 ESDNE 1120 (CT LUNTOUR) 1930 GOSUB 1120 IGET INSTRUC TION 1940 CA=- (GET=ASC ("H") AND NO I HB)-2#16ET=ASC(*6*))-3#(6E T=ASC(*C*)) T DN CA+1 GDTD 1930,2010, 1960 IN=NI:: 250 IF NI>MN = MM=WI 1980 6010 1760 1990 H8=-1 :: 6DSUB 1500 16A MBLE 2000 IF WIND THEN 1910 ELSE 1900 2010 WI=0 :: 60T0 1760 2020 GOSUB 1620 !END 2030 END

Page 3

Good Old Days-Part II

{Part 2 of a 3 part series on the early days of the II-99/4A. Part 3 will appear next month.)

After I had amassed my 100-plus programs on tape (mostly typed in from "99er magazine and some early books), I like so many others wanted to expand my computer masxstery. My TI appetite was voracious.

I bought every II book available, which in 1983 was a considerable number. These included such masterpieces as "The TI-99/4A in Bits & Bytes", "Elementary TI-99/4A", "Terrific Games for the TI-99/4A", "TI-99/4A Favorite Games Ex-99/4A", "TI-99/4A Favorite Games Ex-plained", "Programs for The TI-99/4A", and the series of books published by Sams and Compute Magazine. Regina's (Cheryl Whitelaw) book, "Programmers Re-ference Guide to the TI-9974A" was always at my side. She wrote such pro-grams as Homework Helper, Name that Bone, Typing for Accuracy, Civil Engi-neering Fundamentals, Harried Housewife, Dodge 'Em, Maze Race, San Francisco Tourist and many others. There were others of course, but these were some of the most popular. What astounded most of us Regena groupies was the depth of her knowledge. She seemed to know an incredible amount about computers (and a lot of different kind of computers) but she also knew so much about music, children, electrical engineering, geography, and just about any topic a staff of col-

lege professors would know. That was in 1983. Regena was already in her third year of TI publishing when she moved to Compute Magazine. So I began a subscription to continue getting her monthly column. I got more out of that magazine, too. Tutorials of all kinds. Programs galore. It was TI's Cloud Nine! In that same year, Regena began writing for Enthusiast as well. Boy what a year! Mark Leyton began

his wonderful Unofficial 99/4A magazine. K-Power and Family Computing also made their debut and supported the II-99/4A. I subscribed to them all - 6 II maga-zines a month (7 if you include the nonmonthly Smart Progammer). Super 99 Monthly and Minimag 99 would not come out for another year. I find it hard to believe that in

1983 the final 4A classic book - "The Last Whole TI-/994A Book", by Paul Gar-rison arrived. It was published by Wi-ley Press in 1984 and still stands as one of the best books ever written for the T1-99/4A. (Do not confuse this book with "The Last Word on the TI-99/4A", which is probably the worst book in my TI library.

It's even harder to believe that the magazines mentioned above no longer exist for at least do not carry any TI stuff.)

As magazines like Compute and Family Computing dropped II (which still had the largest home computer ownership of all) more than Apple, Commodore, and IBM Jr. combined, many of us wrote in pro-test but to no avail. After all, we were still buying disks, drives, moni-tors, printersand lots of advertised things. The magazines that dropped TI even carried information for the Adam, the Peanut and Timex (do you remember them?)

Micropendium was first published in February 1984 (originally entitled Home Computer Compendium) and to this day is the only regularly published magazine devoted entirely to the II-99/4A (re-cently Geneve was added). Editor/Publi-sher John Koloen said this of his new magazine, "It is a conduit, a source of information and a vehicle for the dissemination of information." It has certainly lived up to that criteria. I would find it difficult to be a 4A owner without MICROpendium and user groups. The only other magazine still supporting our community with a very informative monthly column is Computer Shopper. It's sad to look through that first

Compendium. All the advertisers except Lompendium. All the advertisers except one are gone: Software (Megaworld), IJ Software (Kandy Kong), THinc (Colors), C.A. Root (On Gaming), Maple Leaf (Sky Diver), Silicon Valley Software (S.A.I. Verbal Section), Machine Shop Software (Cassette Indexer), Larry Vision (Suac-kers), Program Software (Personal En-kers), Program Software (Personal Enrichment), Microworld (Snac Man), Soft Relations (Super Speller), DCH Software (Home Budget), Callcar (Emotional Helath), Software Programs (Starchip Concord), TI Books and Software.

The one advertiser in that issue who is still with us is TIGERCUB SOFT-WARE, owned and operated by Jim Peterson (Mr. T.I.). (Mr.

And that brings us back to 1983 (before the orphaning) when we were still high on TI and user-group business was boowing. For all the other things that were going on for us (and they were numerous) the big department stores and book stores and software stores all carried 4A items on their shelves.

User-group newsletter articles were not as sophisticated as they are today. The big exception was the "Tip from the Tigercub" monthly column from Jim Peterson.

Nobody did what he did. His articles are still being published today in many newsletters and have opened the door to understanding. One was either a techie or a dummy. But Jim made us all feel intelligent. He pulled us up. His explanations and his "experiments" and his enthuiasm came out in every article. He always stayed far enough ahead of us to challenge us completely, yet he never talked down to us.

From his very first article: "Are you tired of that blankety blinking black cursor?". Well this won't work in BASIC but try it in XBASIC 1 CALL COLDR(0,11,1)

I tried it and it worked and then I fiddled with the numbers and 1 finally understood what happened.

This is the way Jim taught, for teaching is what he certainly did (and does). His classroom included thousands

and thousands of pupils. He taught us to use Line 0 and FCIN/X (or E) instead of EDIT and how to use REDO for expanding program lines and how to slash the zero and how to highlight operators. He taught many more things: You can type RUN*DSKI.FILE* without any spaces and it'll work; that typing the double colons in XB lines without spaces before or after won't matter. Do these sound mundane? Not if you didn't know any of that stuff and none of us did.

His teachings were so natural, so filled with personal experience, that filled with personal experience, that you couldn't wait to try the thing Jim had just found out. Here's another from the first "Tips": "Have you ever been typing in a program and the computer suddenly jumped back to the title screen, and you were sure that you didn't have a finger anywhere near that infernal QUIT key? So if you don't have anything valuble in the computer right pow try pression FCIN Spare Bar H and now, try pressing FCIN, Space Bar, H and N all at the same time." Dops! Another useless bit of info - try FCTN, S, 6, and 7 all together. Break! My vision of him was a young kid

(maybe as old as a college student) doing improvisational computing, the way Art Tatum played the piano; somebody with great knowledge and understanding exploring human/machine potential.

I didn't find out until later that Jim is a grand father and that he bought the 4A because he liked the keyboard!

It didn't matter. Genius is genius no matter what the age.

He used to close off those early columns with Happy Hackin' until hackers got a bad reputation by a few pirates and vandals, then he closed it with Mem-ory Almost Full. Too bad, in a way. 1 think of Jim as the Ultimate Hacker, in the real sense of that word. I don't know anyone who knows more about BASIC and XBASIC than Jim.

Way back in 1983 he did a lot more than give us little "useless tips". Most of the tips are the most "useful" things I ever learned for my computer. There is no Jim Peterson for Apple, Com-

modore, Tandy or IBM. Each article contained at least one original type-in program. While other programmers and writers were making bundles selling their stuff to commercial magazines and software houses, Jim GAVE his monthly column away in exchange for the user-group newsletters. He probably has the largest library of TI written material in existance. Whenever any item in his column, large or small, came from another source, Jim always crédited the originator. His generosity is known throughout the entire TI World.

His programs for which he charges \$3.00 apiece, include a discount for future purchases. Other programmers at that time were charging \$20.00 and \$30.00 for programs that were not nearly as professional. Now his programs are just \$2.00 or even less in multiple orders.

The first batch of four programs 1 ordered came back with seven programs in the package. Jie always puts in a lit-tle extra in each order. He still (continued on page 7) By Rick Felzien West Jax 99ers

In the allocation bit map the format is as follows:

as fullows: SS/SD used bytes >38->64, SS/DD or DS/SD uses bytes >65->91, and DS/DD uses bytes >92-EB, and >EC->FF are unused and are formatted to all F's, or used with all bits on. On initialization the actual bit map bytes are set with all bits off or zeros.

For instance byte >38 controls sectors 1-8 as follows: bit nos- 7 6 5 sector_nos- 7 6 5 5 4

4 Byte >39 would be: bit nos-7 6 5 4 3 2 1 0 sector nos-15 14 13 12 11 10 9 B And so on.

To do the mathematics for finding which sector is controlled by which bit of which byte is easiest to convert to decimal, do the math and then convert back to hex. Byte no - 56=start of 8 sector group >38 - >38=0=sectors 0-7 56 - 56+0=sectors 0-7

 sector no/8+56=byte no
 remainder*8=bit no

 137/8+56=73.125
 .125*8=bit no 1

 34/8+56=60.25
 .25 *8=bit no 2
and so on.

(Eds note:-refer to our program in the March '88 and April '88 issues in which we listed a conversion program.)

When I started using Diags. and had gotten fairly familiar with the DOS, I often wondered how the Check Disk (CD) command kept track of sectors that are mapped bad. This is easy when the disk is freshly initialized and contains no files as they are designated as being used in the bit map. But I said to myself how is this done after several files are put on the disk and a good bit of the bit map is used. How did it keep the bad sectors separated from those that were used. I look-ed at both a good disk and one with several bad sectors and could see no special coding, bad sectors and could see no special cooling, even on the track header data. Being curiui-ous I called M.G. and the people there were very courteous and helpful. What happens is that after there are files on the disk, and if there are some bad sectors, the Diags. programming does a compare type operation. It checks the allocation bit map and then checks the file directories for the sectors that the files occury and any sectors that that the files occupy and any sectors that are designated as used and are not included in the file directory information are considered to be mapped bad.

In case any of you wondered how I got the Diags display printed, here is how to do it. With the OD command (Output Device) you can select DSKn.filename and Diags. will dump the screen to a Display/Variable 80 disk file that can be merged into the TI-Writer file.

Sector 1 is the directory link and tells the disk drive where to look for the direc-tory sectors for the files.

(continued on page 6)

Gram Kracker

Ted Peterson is forming a group of in-terested members in exploring the use of the Gram Kracker. Although this piece of hard ware is no longer manufactured, many of our members have one. If you are one of those you might want to take advantage of joining this group. See Ted at the meeting to learn more about these planned meetings.

As I was doing my research in prepara-tion to write a series on the use of the Ad-vanced Diagnostic Program from Miller's Grap-hics a thought occurred to me. I realized that perhaps not everyone has had the oppor-tunity to become as familiar with the TI-DOS as I have. To use the Advanced Diagnostics effectively, one must understand a good bit effectively, one must understand a good bit about what is on the disk and what that data means to the system. We shall begin by examining sector zero.

This is where the computer tells whether the disk is initialized and keeps track of such pertinent information as sectors used/available, how many sectors are formatted, whether the disk is single or double sided, and whet-her it is formatted as single or double den-sity. Let us take a look at sector zero. sity.

What you should see is shown in Figure 1 using the Edit Sector Command. The informa-tion is used in either byte size or word (2 byte) sized units to keep track of the data.

54455354202020202020005A01244 534B202B020200000000000000000 · • · •••••••••••••••••••••••••••• •••••••••••••••••••••••••••••••••••• FFFFFFF

Bytes XO-X9 are for the disk name. If it is less than 10 characters long the trail-ing characters are blanks. (To keep things consistant hexedecimal numbers which is how all data is used and displayed on the screen will appear with a preceding greater than character [>] in this article.) Bytes XA-XB denote the number of formatted sectors, X168=SS/DD, X02D0=DS/SD, and X05A0=DS/DD. Byte XC is the number of sectors per track, X09=9, and >12=18(for DD). Bytes XD-OF are the letters DSK which the controllor looks for to con that the disk

the controller looks for to see that the disk is initialized by a TI compatible controller.

Byte>10 is used for the protected/notprotected code which was used by TI to pro-tect some of their disks in the beginning. 200 (space char.)=Unprotected, 500 (letter P)=Protected.

Byte >11 denotes tracks per side >23=35, >28=40.

>28=40. Byte >12 designates the number of sides formatted either >01 or >02. Byte >13 tells us the formatted density either >01=SD or >02=DD. Bytes >14->55 reserved-not used-all

zeros.

Bytes >38->FF are the allocation bit This is what tells the disk controller the allocation bit map. which sectors are used and which are free. Each byte controls 8 sectors and this is controlled by the fact that each bit of the particular byte is either a 1 for used or a zero unused. On this particular disk there 3 tor sectors used.

TI DOS - continued

	00170010000700100000000000000
	0012001H00020014000400020008
	001E001B001C001B00070019000B
×	00150009000A000B001D000C0016
o⊣ĭ	0010000D00110002000E0012000F
	000000000000000000000000000000000000000
. 2	000000000000000000000000000000000000000
- ŭ -	0000000000000000000000000000000
5 LL 10	0000000000000000000000000000000
L U -	<u>ŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ</u>
F 01 L1	000000000000000000000000000000
	00000000000000000000000000000000
~	000000000000000000000000000000
~~0	000000000000000000000000000000000000000
	000000000000000000000000000000000000000
	000000000000000000000000000000000000000
> u u	000000000000000000000000000000000000000
÷ ā ÷	000000000000000000000000000000000000000
ວັທີ ແ	00000000000000000000000000000
	0000000

Although the files are placed on the disk in the order that they are saved, the link numbers are shuffled to give correct positions for the alphabetical order which

shows up on a catalog operation. This data is stored in one word or two byte blocks. The first alphabetical or A program on this particular disk has it's di-rectory link on sector 0013 or >13, but 0013 is the first number thus denoting that it is the first in alphabetical order.

When a file is deleted, it is not actually erased. The link number is removed from this sector and the bit map on sector zero is changed, but the data is still on the origiral sectors and is merely overwritten as more files are added to the disk. Sectors >2->22 are called the File head-ers and sometimes called the File Descriptor

Blocks.

50555A5A4C455220202000000100

- 581

- 000000000

Bytes >0->9 make up the filename using 1 to 10 characters.

Bytes XA->B are zeros and are not ourrently used for data. Byte XC tells the controller the file-

type. If the file is protected, the value of 8'is added to the unprotected code number.

Type	Unprotected	Protected
DIS/FIX	- 00	08
DIS/VAR	80	88
INT/FIX	02	0A
INT/VAR	82	8 A
PROGRAM	01	09

Byte >D denotes the number of records per sector. This number equals the sector size (256 bytes) divided by the record length

-- (>100/>50=>3 or 256/80=3). Program files always=0. DIS/FIX or INT/FIX 40 =>06, DIS or FIX 60 = >04, DIS or FIX 80 = >04, DIS or FIX

B0 = X03 etc. Bytes X0E-X0F equal number of sectors in file descriptor). the file (not including the file descriptor). This is the cataloged length minus 1. Byte >10 is called the end of file offset. For variable length files and programs this byte lets us know the number of bytes in the last sector of the file that are used. It also indicates which byte number is the EOF marker. For fixed length files this is always XOO. The last byte of the last file sector is an end sentinel - AA for programs and FF for all other types of files.

Byte >11 gives the logical record length. FIX or V4R 40=>28, B0=>50, 163=>A3, and 254=>FE. Bytes >12->13 are the number of fixed length files or else the number of sec-tors in variable length files and are not used by programs. The bytes of this two byte block are reversed so that X0500 is actually >0005.

44454D4F2D312020202000008803 00060250060000000000000000000 203000915000000000000000000

000000000

Bytes >14->1B are all zeros and are not used (reserved for future use). Bytes >1C-----These keep track of the blocks

bytes >10-----Inese keep track of the blocks of sectors that the file actually occupies on the disk. This is done in 3 byte blocks and are not read as they appear in the block. Nybbles 4,1, &2 are the beginning sector and Nybbles 5,6, &3 are the number of sectors occupied by that block of the file. The following is an example of bout to read

occupied by that block of the file. The following is an example of how to read these bytes in the case of a badly fractured file which is in five segments on the disk. This does not usually happen, but will show you how to read this block of data effectively.

Sector address (hex)	address contents (nybble) 12 34 56	start sector (nyb) 412	addt'l prior sectors (nyb) 563	logical end sector	size of block of sectors	Subtot.
1C 1D 1E 1F 20 21 22 23 24 25 26 27 28 29 2A 28 2C 2D	23 30 00 31 40 00 58 50 00 5A 10 01 67 60 01 84 80 01	023 031 058 05A 067 084	003 004 005 011 016 018	026 031 058 065 068 085 Total d Directo Catalog	4 1 12 5 2 ata secto pry sector ed sector	4 5 6 10 23 25 rs=25 r + 1 s = 26

"23 Skidoo!"

I guess the use of slang today is accep-ted and used more than ever. In doing a lit-tle research for this month's english essay, it seems that good old Ralph Waldo Emerson found the word 'jawing' acceptable while Am-brose Bierce denounced slang as 'the speech of those that rob the literary garbage carts

on the way to the dump.' Strong words indeed and probably Emerson is more with it than Bierce by todays standards, yet the use of slang carries with it a responsibility. "Drug-store cowboy," "cat's pajamas," "heebie-jeebies", "make whoopee" or "23 skidoo" will immediately date you. If you want to communicate with people

today, you want to communicate with people today, you either ought to be current with your use of slang or be content with less colorful language. Whether writing a letter or speaking, if you use slang expressions, don't get too far ahead of your audience or the slang words may do you in.

To be avoided, no matter what the temptation, is to try and bridge the generation gap. As one advertising executive warned:

Newspaper Drive

Don't throw away any of those old news-We're going to have a paper drive papers. very soon and your donation of newspapers is needed.

There will be more information about this important activity in next month's "WordPlay", so in the meantime pile them up instead of throwing them away.

GENIAL TRAVELOR

The second and third issues of Volumn II, The GENIAL TRAVELOR, has arrived and will be for sale at the November meeting. As us-ual they are \$6.00 each and each issue in-cludes two SSSD disks packed full. You can purchase them from the Editor prior to the beginning of the meeting or during the break.

Good Old Days-continued

does. He has over 3000 Public Domain programs which he shares by putting them as bonuses on any disk order. These programs are well written and worth ownìng.

I was surprised by the bonus, as no clue was given by him that I was going to get more than my money's worth. There was not a single program that I ever got from Tigercub that did not exceed my expectations. Many I ordered for my 5th. grade class and are still popular (like BAZOO and MECHANICAL AP-PTITUDE TEST). It would be hard for me to pick a favorite because there are so many varieties of programs: educational,

music, utilities, games and so on. About three hours ago I saved this textfile and loaded up some of Jim's disks. I played the fiendish SQUINCH and the diabolical SCRUM and went through his HANDY DANDYS and SPEEDER READER and - I noticed it somehow got to be 2:10am. I have to teach tomorrow and Jim Peterson, the friend, did it to me again!

Next day!

When I reread the above, I got to thinking about all the other TIGERCUB programs I didn't mention. The most important, for me, are the three "Nuts & Bolts" disks containing over 300 files.

"Those of us who are required to establish some form of communication with teen-agers should stick to our particular idiom of American English or risk making damn fools of ourselves."

The surest way for an advertiser to make sure he's turned off or tuned out by teen-agers or other distinct groups is for him to portray an obsolete fad, dance or mode of dress, or to misuse the specialized idiom of the dáy."

While slang properly used adds color and strength to what might otherwise be a pedes-trian style, care must be exercised so that no matter how far out the expression seems, it is at least understood by those to whom intended.

Every business and profession acquires it own jargon and within a business it acts as a kind of shorthand, presumably saving time and thought. Beware though the man who tries that jargon outside of his own business.

Charles Ball, editor

Program

At our meeting on Tuesday November 1st., our own Jim Smith will be on the program.

He is going to explain how to use the Hard Disk that has been developed for our computers. This program is one of the hi-lights of our club year and you will want to be there.

He will not only explain the features of this harware, but will also demonstrate how it is used.

PUNN is fortunate to have among its mem-talent of this kind and we appreciate the time and effort that goes into producing a program of this type.

Ted Peterson néeds to hear from you in order to plan future programs. What are your interests? Games, Utilities, Data Bases? Let Ted know by calling him at 244 1587 and who knows but that your favorite program could be the topic for the next meeting.

> When these started coming out a few years ago, it was a "TIPS" maniac's delight. Here was a discovery collection that every TI learner dreams of. These files can be merged into any XB program to produce remarkable results. Because of incremental line numeration, multiple subs can be called into single programs. They are efficient, neat, incredibly easy, and remarkably creative. And lots more. Send Jim \$1.00 for his catalog, refundable with first order to:

> > TIGERCUB Software 156 Collingwood Ave. Columbus, DH 43213

PUNN Disk of the Month

EPSONSET I-BASIC

Program to help you set up your printer. Will work with Star NX-1000 and other Epson compatible printers. MASH-IB I-BASIC

Music-main title theme from the mover MtAtStH. This program has animation and the words to the theme for sing-along. NINE-CUBES X-BASIC NINE-CUDOC TI-WRITER

Rubix Cube type game. Line up all the

colors in a certain order on all sides of each cube by using the coordinates shown on the screen. The documents and instructions are included.

TINY/CAL X-BASIC

Prints a tiny calendar for any year from about 1700 to 2099. Uses the subscript mode and works fine with Star 10X and WX-1000. Should work well with other printers. This program can be modified if you want to. TYPEI, 3, 4 X-BASIC Typing tutor by

C Regena. Teaches you how to type by using graphics and sounds with demo lines for you to type in. I hope it is all there. No to type in. I hope it is all there. No TYPE2 was with this when we received this disk from C.R.

WOODSTOCK X-BASIC

Christmas program-Woodstock, Snoopy's littel birdfriend, is left alone on Christmas eve. Snoopy left him a gift that he has to retrieve from Snoopy's doghouse. Good anima-tion with translations of Woodstocks chirping printed on bottom of screen.



Pointing the Way For 1 Users of TI's 994/A Computer

Pointing the Way For



Mention of a company or product is not an endorsement of that company or product. We are not a subsidiary or branch of any other User's Group and any relationship we may have with other groups is on the basis of equals.

DISCLAIMERS: The PUNN User's Group is not affiliated with or

sponsored by TI and has no relationship with them, implied

or otherwise.

NOVEMBER 1 ST. 1988

ALL CENERAL MEETINGS ARE HELD ON THE FIRST TUESDAY OF EACH MONTH, AT THE PGE BUILDING 3700 SE 17TH AVENUE PORTLAND, OREGON



P.O. Box 15037 Portland, OR 97215