

```

      {3 UP}"SPC(38)"";:GOTO
      {SPACE}720
CC 900 PRINT" {2 UP}"SPC(38)"";
      :GOTO 720
FK 910 S$(FI)=IS
SX 920 IF LEN(S$(FI))<19 THEN
      {SPACE}330
ME 930 S$(FI)=MID$(S$(FI),1,19
      )+"{OFF}" {4 SPACES} {RVS}
      "+MID$(S$(FI),20,37)
SM 940 S$(FI)=S$(FI)+"{UP}":GO
      TO 330
JH 950 OPEN 15,8,15,"I"
EK 960 OPEN 1,8,8,"0:DIR FILE,
      S,R":GOSUB 1050:IF EN=6
      2 THEN CLOSE 15:RETURN
HF 970 PRINT" {UP}"SPC(19)"DIR
      {SPACE}FILE{6 SPACES}"
BM 980 INPUT#1,C
QC 990 FOR I=1 TO C:INPUT#1,T$(
      I):INPUT#1,S$(I):S2$(I)
      =S$(I):NEXT
RR 1000 CLOSE 1:CLOSE 15:NF=PE
      EK(0)-1
QP 1010 FOR A=1 TO NF:IF LEFT$(
      F$(A),16)=T$(A) THEN S
      $(A)=S2$(A):GOTO 1040
PR 1020 FOR B=1 TO C:IF LEFT$(
      F$(A),16)=T$(B) THEN S
      $(A)=S2$(B):B=C+2
AD 1030 NEXT B:IF B=C+1 THEN S
      $(A)=""
QD 1040 NEXT A:RETURN
RQ 1050 INPUT#15,EN,EM$:IF EN=
      0 THEN RETURN
CX 1060 IF EN=62 AND XX=1 THEN
      XX=0:RETURN
CH 1070 PRINT" {CLR}" {4 DOWN}DIS
      K ERROR:{RVS}":EN,EM$:
      PRINT" {HOME}" {4 DOWN}"S
      PC(14)" {RVS} ":END
EM 1080 REM *** SEND DISK COMM
      ANDS ***
BJ 1090 PRINT" {CLR}" {2 DOWN} DI
      SK COMMANDS":PRINT"
      {2 DOWN} COMMANDS":PRI
      NT" {8 T}"
RS 1100 PRINT" {DOWN} S0:FILENA
      ME"SPC(11)"SCRATCH A F
      ILE
AQ 1110 PRINT" {DOWN} R0:NEWNAM
      E=OLDNAME{4 SPACES}REN
      AME A FILE
RM 1120 PRINT" {DOWN} V0"SPC(20
      )"VALIDATE A DISK":PRI
      NT" {DOWN} I0"SPC(20)"I
      NITIALIZE"
QF 1130 PRINT" {2 DOWN} ENTER C
      OMMAND{3 SPACES}{RETUR
      N FOR MENU}":Z$="":PRI
      NT" >";
AQ 1140 GET U$:IF U$="" THEN 1
      210
JB 1150 IF LEN(Z$)=37 AND U$<>
      CHR$(13) AND U$<>CHR$(
      20) THEN 1140
AQ 1160 U=ASC(U$):IF U=13 THEN
      1220
DH 1170 IF U<20 THEN 1200
AJ 1180 IF LEN(Z$)<>0 THEN Z$=
      MID$(Z$,1,LEN(Z$)-1):P
      RINT U$;
CR 1190 GOTO 1140
RG 1200 IF U<32 OR U>90 THEN 1
      140
AB 1210 PRINT"<{LEFT}":U$;Z$=
      Z$+U$:GOTO 1140
CE 1220 IF Z$="" THEN 190
GA 1230 CLOSE1:OPEN 1,8,15,Z$:
      (LOSE 1:CLOSE 15:OPEN
      {SPACE}15,8,15,"I":GOS
      UB 1050:GOTO190
JD 1240 PRINT" {CLR}" {8 DOWN}

```

```

      {7 SPACES}INSERT NEW D
      ISK INTO DRIVE"
AX 1250 PRINT" {2 DOWN}
      {7 SPACES}PRESS ANY KE
      Y TO CONTINUE":POKE 19
      8,0:WAIT 198,1:GET ES
      PRINT" {UP}" {13 SPACES}P
      LEASE WAIT{8 SPACES}":
      CLR:GOTO 130
EE 1270 REM *** DELETE DESCRIP
      TIONS ***
KX 1280 PRINTDN$" {3 DOWN}"SPC(
      31)" {RVS}↑-DELETE
      {HOME}"
SF 1290 PRINT DN$" {DOWN}"SPC(1
      0)" {29 SPACES}"
GK 1300 POKE 198,0:FI$="":PRIN
      T DN$" {DOWN}" {2 SPACES}
      DELETE #":INPUT FI$:F
      I=VAL(FI$)
EA 1310 IF FI$="0" THEN PRINT
      {SPACE}DN$" {DOWN}
      {14 SPACES}":GOTO 420
QX 1320 IF FI<A OR FI>A+PQ THE
      N 1280
JF 1330 S$(FI)="{RVS} ":GOTO 3
      30
EP 1340 POKE 198,0:SYS 198:END
GB 1350 DATA 169,255,133,0,165
      ,55,133,71,165,56,133
QG 1360 DATA 72,162,1,32,198,2
      55,166,0,232,134,0
FD 1370 DATA 216,56,165,71,233
      ,20,133,71,176,5,166
AR 1380 DATA 72,202,134,72,32,
      207,255,164,144,208
MQ 1390 DATA 22,201,34,208,245
      ,160,0,32,207,255,201
PC 1400 DATA 34,240,249,145,71
      ,200,192,19,208,242
MB 1410 DATA 240,207,32,204,25
      5,96,0,0,0

```

Pig\$ For Buck\$

(Article on page 42.)

Program 1: Pig\$ For Buck\$—

Main Program

```

SG 10 FAST:TRAP970:GRAPHIC1:GR
      APHC0:GOTO580
MP 20 GOSUB300:FORI=2TOP:MOVSP
      RI,200,125:NEXT:TI$="000
      000"
FE 30 SPRSAVS$(5,F1),F:SYSM1,0
      :MOVSPRF,24,88
ED 40 FORI=2TOP:IFI=P1THEN50:E
      LSEJ=RND(F)*359+F:C=INT(
      J/180):SPRSAVS$(C,F1),I:
      SYSM1,I-F:SPRSAVS$(C,F3)
      ,I:SPRITEI,F,11,0:MOVSPR
      I,J #S
AM 50 NEXT:SPRITEF,F,15,,,F:P
      OKE7680,F:I=BUMP(F1):I=B
      UMP(F)
PK 60 FORI=2TOP:IF(BUMP(F1)AND
      F)OR((BUMP(F)ANDF)ANDP1>
      .)THEN310:ELSEIFI=P1THEN
      90
BP 70 IFRSPPOS(I,F)<Y1THENC=F3
      :GOTO100:ELSEIFRSPPOS(I,
      F)>Y2THENC=F4:GOTO100:EL
      SEIFRSPPOS(I,.)>X2THENC=
      F1:GOTO100:ELSEIFRSPPOS(
      I,.)<X1THENC=F:GOTO100
      :GOTO130
RB 80 GOTO130
EX 90 IFRSPPOS(P1,.)<25ORRSPPO
      S(P1,.)>344THEN370:ELSE1
      30
BK 100 J=RND(F)*160+SM(C):IFJ>
      360THENJ=J-360
QA 110 C=INT(J/180):SPRSAVS$(C
      ,F1),I:SYSM1,I-F:SPRSAV

```

```

      S$(C,F3),I:MOVSPRI,J #R
      ND(F)*F1+F
MF 120 IFRND(F)>F2THENSOUNDF1,
      2000,5,,100,100,F3:SOU
      NDF,1300,12,,758,19,F1
      ,370:GOTO130
JQ 130 J=JOY(F1)
RQ 140 J1=J:IFJ>.ANDJ<9THEN180
      :ELSEMOVSPRF,.,.#.:POKEM
      2,.,IFP1>.THENMOVSPRP1,
      ..#.
GQ 150 IFRND(F)>F2THENSOUNDF1,
      2000,5,,100,100,F3:SOU
      NDF,2000,10,,600,150,F
      1,220:IFL>10THENF=S:RND(
      F)*F3+F
FX 160 IFJ>8THEN210
FQ 170 NEXT:GOTO60
DC 180 IFRSPPOS(F,.)<24ORRSPPO
      S(F,.)>344THENJ=O(J):IF
      RSPPOS(F,.)<400ANDRSPPO
      S(F,.)>25THENJ=3
XE 190 IFJ=.THEN60:ELSEMOVSPRF
      ,A(J) #FS:POKEM2,F:IFP1
      >.THENMOVSPRP1,A(J) #FS
      :SPRSAVS$(J,.)F:SYSM1,.,
      :SPRSAVS$(J,F),F:NEXT:G
      OTO60
DF 210 IFP1>.THEN270:ELSEJ=BUM
      P(F):IF(JANDF)<>FTHENNE
      XT:GOTO60
CS 220 GOSUB280:I=F1:C=RSPPOS(
      F,.)J=RSPPOS(F,F)
EP 230 DOUNTILI>P:IF(ABS(C-RSP
      POS(I,.)<20)AND(ABS(J-
      RSPPOS(I,F)<20)THENBEG
      IN
HD 240 P1=I:SOUNDF1,7000,40,,4
      00,400,2,220:SPRSAVS$(F
      ,F1),P1:SYSM1,P1-F:SPRS
      AVS$(F,F3),P1:MOVSPRI,C
      +26,J-5:EXIT:BEND
AM 250 I=I+F:LOOP
KH 260 I=BUMP(F):GOTO40
HA 270 P1=.:GOTO40
HH 280 POKE7680,.:POKE7681,.:F
      ORI=1TO8:MOVSPRI,.,.#.:N
      EXT:RETURN
CS 290 PRINT" {HOME}" {2}":FORI=1
      TO4:READC,J,M$:CHAR,C,J
      ,M$:NEXT:I=1:IFL=12THENCHAR
      ,31,6:SYS7937:RETURN
QC 300 J=P*2:X1=50+J:X2=290-J:
      Y1=65+J:Y2=190-J:RETURN
      GOSUB280:P1=0:POKE2040,
      56:SPRSAVS$(5,2),F:VOL1
      5:SOUNDF1,9000,5,F,2000
      ,900,F:FORI=1TO80:NEXT:
      FORI=6TO8:IFI=6THENSOUN
      DF,9000,35,F,2000,200,0
      HA 320 SPRSAVS$(I,2),F:FORC=1T
      O50:NEXTC,I:SOUNDF,300,
      15,F,200,6:VOL3:SLEEPF
      IFOL=0THEN790:ELSECHAR,
      2*OL-F,23,"{6}" :CHAR,2
      *OL-F,24,"{6}" :OL=OL-F
      :GOTO30
EG 340 FORI=1TOOL:CHAR,2*I-1,2
      3,"{BLU}" :CHAR,2*I-1,
      24,"{BLU}" :NEXT:RETURN
      PRINT" {HOME}" {RVS} {BLK}
      {4 SPACES}PIG$ FOR BUCK
      $ {8 SPACES}LEVEL:":PRI
      NTUSING"###":L:PRINT"
      {3 SPACES} {OFF}";
AM 360 CHAR,10,24:PRINT" {2}":
      :PRINTUSING"#####.###
      ";BA:PRINTTAB(24):PRIN
      TUSING"#####":PT:PRIN
      TTAB(33):PRINTUSING"##
      #####":HS:RETURN
BK 370 GOSUB280:PS=100-TI/100:
      IFPS<60THENPS=60

```



```

HE 380 PT=PT+INT(PS):BA=BA+PS:
IFP1<>PTHEMOVSPR1,RSP
POS(P,,),RSPPOS(P,F):SP
RITEP,,
GK 390 SPRITEP,0:CHAR,20,0,CHR
$(7)+[RVS]{PUR}PIG SOL
D FOR "
RA 400 IFPS>60THENPT=PT+(10*L)
XA 410 IFPT>HSTHENHS=PT
DP 420 PRINTUSING"$###.##";PS,:
PRINT"[OFF]";:SLEEP1:GOSUB350
KX 430 P=P-F:P1=0:IFP>1THENPOK
E2040,56:SPRSVAVS$(2,0),
F:MOVSPRF,24,88:GOTO40
GE 440 L=L+F:IFL<5THEN450:ELSE
IF(LANDF)AND(L<12)THENF
S=F1:ELSEFS=F3:GOTO460
KS 450 GOSUB290
HQ 460 P=INT(BA/60):IFP>7THENP
=7
AM 470 PRINT"[HOME]"CHR$(27)"Q
"[RVS]{RED}YOU HAVE";:
PRINTUSING"$#####.##";
BA,:PRINT";YOU MUST BUY
"P"[LEFT]PIGS."BA=BA-
P*60:P=P+F:GOSUB360:SLE
EP3
XM 480 I=INT(BA/25)
SR 490 IFI=0OROL=4THEN560:ELSE
PRINT"[HOME]"CHR$(27)"Q
"[RVS]{RED}PAIRS OF PA
NTS IN STORE=[LEFT]"OS"
[LEFT];QTY. TO BUY?
[OFF]";
PX 500 GETAS:IFA$<"0"ORA$>"4"
HEN500
FS 510 C=VAL(A$)
GE 520 IFC>I THENPRINT"[HOME]"C
HR$(27)"Q[RVS]YOU CAN'T
AFFORD"C"[LEFT]PAIRS
[SPACE]OF PANTS!";:SLEE
P1:GOTO490
FE 530 IFOL+C>4THENPRINT"
[HOME]"CHR$(27)"Q[RVS]T
HE LINE CAN'T HOLD"OL+C
"[LEFT]PAIRS OF PANTS!
";:SLEEP1:GOTO490
FX 540 IFOS-C<0THENPRINT"
[HOME]"CHR$(27)"Q[RVS]S
TORE DOESN'T HAVE"C"
[LEFT]PAIRS OF PANTS!
";:SLEEP1:GOTO490
MR 550 BA=BA-25*C:OL=OL+C:OS=O
S-C:GOSUB340:GOTO560
GH 560 GOSUB350:GOSUB300:GOTO2
0
AR 570 FORI=1TO8:SPRSVAVS$(I,
C):NEXT:RETURN
XA 580 COLOR0,14:COLOR4,6:SPRC
OLOR11,10:VOL3
MQ 590 DIMF,J,J1,I,P1,C,F1,F2,
F3,F4,S$(8,3),M2,M1,FS,
A(8),Y1,Y2,X1,X2,SM(4),
O(8):SM(1)=15:SM(2)=195
:SM(3)=105:SM(4)=285:F=
1:F1=2:M1=7870:M2=7681:
F2=.5:F3=3:F4=4
RM 600 FORI=2TO8:A(I)=(I-F)*45
:NEXT
PX 610 FORI=2TO4:O(I)=3:O(I+4)
=7:NEXT
MD 620 BLOAD"PIG.SPR1":C=0:GOS
UB570:BLOAD"PIG.SPR2":C
=F:GOSUB570:BLOAD"PIG.S
PR3":C=2:GOSUB570
XK 630 S$(0,F1)=S$(F,F1):S$(0,
F3)=S$(F1,F1):S$(F,F1)=
S$(F3,F1):S$(F,F3)=S$(4
,F1)
HA 640 BLOAD"PIG.ML":SYS7686:P
OKE54291,2:POKE54287,20
:POKE54292,0:POKE54286,
0
HS 650 IFPEEK(2604)=28THEN700:
ELSEBANK14
KM 660 FORI=0TO3:READC:POKE250
+I,C:NEXT:POKE195,8:POK
E196,:SYS7904
PH 670 BANK15:POKE2604,28
KD 680 READC:IFC=-1 THEN700
JM 690 FORI=0TO7:READJ:POKE122
88+C*8+I,J:NEXT:GOTO680
JX 700 S=2:P=3:OL=4:OS=4:FS=2:
L=1:PT=0:BA=0:PRINT"
[CLR][DOWN][2]Q*****
*Q*****Q*****Q*
*****Q";
PC 710 FORI=1TO3:FORJ=1TO6:IFI
=3ANDJ=6 THEN720:ELSEPRI
NT"B"TAB(39)"B";
XS 720 NEXT:IFI<>3 THENPRINT"Q"
TAB(39)"Q";
SX 730 NEXT
SH 740 PRINT"Q*****Q*****
***Q*****Q*****Q*
";
HP 750 FORX=1TO8:SPRITEP,0:NEX
T
FA 760 PRINT"[RED]{10 @} [RVS]
{5}{3 SPACES}BANK
{6 SPACES}PRESENT
{3 SPACES}HIGH
{2 SPACES}[OFF]";
FK 770 PRINT"[RED]{K}{OFF}"TAB
(9)"[RVS]{K}{OFF} [RVS]
{5}{3 SPACES}ACCT.
{5 SPACES}SCORE
{5 SPACES}SCORE [OFF]";
DK 780 PRINT"[RED]{K}{TAB(9)"
[RVS]{K}{OFF}[HOME]
{3 DOWN}Q[DOWN]{LEFT}
[DOWN]{LEFT} [DOWN]
[LEFT] [DOWN]{LEFT} ";:
GOSUB350:RESTORE880:GOS
UB290:GOSUB290:SLOW:GOS
UB340:GOTO20
EA 790 CHAR,5,9,"[RVS]{PUR}
{2 SPACES}END OF GAME!
{2 SPACES}PLAY AGAIN?
{2 SPACES}[OFF]"
BJ 800 POKE208,0:GETKEYA$:IFA$
<>"Y" THENPRINT"[CLR]
[GRN]";:FORC=1TO8:SPRI
TEC,0:NEXT:END
PP 810 IFBA>HSTHENHS=BA
MQ 820 FAST:GOTO700
QE 830 DATA0,208,0,48,28,102,1
02,102,126,126,126,126,
126,60,255,255,231,231,
231,231,231,0
BP 840 DATA65,0,131,199,255,25
5,255,255,255,73,128,22
4,248,252,252,254,254,2
55
KF 850 DATA74,255,127,127,63,6
3,31,7,1,75,255,254,254
,252,252,248,224,128
GR 860 DATA83,254,252,248,248,
248,252,254,254,85,1,7,
31,63,63,127,127,255
JQ 870 DATA88,255,255,255,255,
255,227,193,0,90,127,12
7,63,31,31,31,63,127,-1
XF 880 DATA8,6,"UI[DOWN]
{2 LEFT}JX[DOWN]
{2 LEFT}JK",21,6,"UI
[DOWN]{2 LEFT}JK",33,5,
"UAI[DOWN]{3 LEFT}J
[RVS] [OFF]K",1,19,"I
[DOWN]{LEFT}[RVS] [OFF]
I"
HJ 890 DATA7,14,"UI[DOWN]
{2 LEFT}JK",17,12,"UI
[DOWN]{3 LEFT}U[RVS]
{2 SPACES}[OFF][DOWN]
{3 LEFT}JXK",26,14,"UI
[DOWN]{2 LEFT}Z[RVS]
[OFF][DOWN]{2 LEFT}JK",
34,11,"UI[DOWN]{2 LEFT}
JK"
CF 900 DATA9,7,"[RVS] [OFF]I
[DOWN]{2 LEFT}XK",20,5,
"UI[DOWN]{2 LEFT}J[RVS]
[OFF]",32,5,"U[RVS]
[OFF][DOWN]{2 LEFT}JX",
35,11,"AI[DOWN]{2 LEFT}
[RVS] [OFF]K"
KG 910 DATA22,7,"[RVS]
{2 SPACES}[OFF]I[DOWN]
{3 LEFT}JXK",8,13,"UI
[DOWN]{2 LEFT}[RVS]
[OFF]K",19,13,"AI[DOWN]
{3 LEFT}[RVS]{2 SPACES}
[OFF]K",34,12,"Z[RVS]
{2 SPACES}[DOWN]
{3 LEFT}{3 SPACES}[OFF]
[DOWN]{3 LEFT}JXK"
PF 920 DATA1,2,"[RVS] [OFF]K
[DOWN]{2 LEFT}K",18,4,"
UI[DOWN]{2 LEFT}Z[RVS]
{2 SPACES}[OFF][DOWN]
{3 LEFT}JX[RVS] [OFF]",
30,5,"U[RVS]{2 SPACES}
[DOWN]{3 LEFT}
{3 SPACES}[DOWN]
{3 LEFT}[OFF]JK",27,14,
"AI[DOWN]{LEFT}S[DOWN]
{2 LEFT}[RVS] [OFF]K"
PH 930 DATA35,5,"AI[DOWN]
{2 LEFT}XK",9,14,"[RVS]
[DOWN]{2 LEFT}
{2 SPACES}[OFF]I[DOWN]
{3 LEFT}[RVS]{2 SPACES}
[OFF]S[DOWN]{3 LEFT}JXK
",25,13,"U[RVS] [OFF]I
[DOWN]{3 LEFT}J[RVS]
{2 SPACES}[OFF]",36,14,
"[RVS] [OFF]I[DOWN]
{2 LEFT}[RVS]{2 SPACES}
[OFF][DOWN]{2 LEFT}JK"
BE 940 DATA10,7,"[RVS] [OFF]I
[DOWN]{3 LEFT}[RVS]
{2 SPACES}[OFF]K",36,5,
"[RVS] [OFF]I[DOWN]
{2 LEFT}[RVS]{2 SPACES}
[OFF]I[DOWN]{3 LEFT}J
[RVS] [OFF]K",16,14,"
[RVS]{2 SPACES}[OFF]
[DOWN]{2 LEFT}JXK",28,
15,"[RVS] [OFF]I[DOWN]
{2 LEFT}XK"
SR 950 DATA11,8,"K",25,6,"UI
[DOWN]{3 LEFT}[RVS]
{3 SPACES}[DOWN]
{3 LEFT} [OFF]XK",6,12,
"UI[DOWN]{2 LEFT}[RVS]
{3 SPACES}[OFF][DOWN]
{3 LEFT}J[RVS] [OFF]",3
4,14,"[RVS]{2 SPACES}
[DOWN]{2 LEFT}
{2 SPACES}[OFF][DOWN]
{3 LEFT}U[RVS]
{2 SPACES}[OFF]X[DOWN]
{4 LEFT}JK"
RM 960 DATA24,2,"J[RVS] [OFF]K
",1,19,"[RVS] [OFF]I
[DOWN]{LEFT}[RVS] [OFF]
I",16,15,"[RVS]
{2 SPACES}[OFF][DOWN]
{3 LEFT}U[RVS] [OFF]S
[DOWN]{3 LEFT}J[RVS]
[OFF]S[DOWN]{2 LEFT}JXK
I[DOWN]{LEFT}JI[DOWN]
{LEFT}JI",33,17,"Z[RVS]
{2 SPACES}[DOWN]

```



```

[3 LEFT]{3 SPACES}
[DOWN]{3 LEFT}{OFF}JXK"
KK 970 PRINT"[HOME]"CHR$(27)"Q
""[WHT]{RVS}LINE "EL"
[2 SPACES]"ERR$(ER)"[23]
PRESS STOP KEY";
EG 980 GOTO980

```

Program 2: Pig\$ For Buck\$— PIG.ML

See instructions in article before
typing in the following program
listings.

```

1E06:A9 00 8D 00 1E 8D 01 1E 10
1E0E:8D 04 1E 8D 05 1E 78 A9 E9
1E16:21 8D 14 03 A9 1E 8D 15 EE
1E1E:03 58 60 AD 00 1E C9 01 E5
1E26:D0 35 EE 04 1E AD 04 1E 04
1E2E:C9 10 D0 2B A9 00 8D 04 8C
1E36:1E AD F9 07 C9 39 D0 11 82
1E3E:A2 07 18 BD F8 07 69 48 6B
1E46:9D F8 07 CA D0 F4 4C 5D 6D
1E4E:1E A2 07 38 BD F8 07 E9 70
1E56:48 9D F8 07 CA D0 F4 AD DE
1E5E:01 1E C9 01 F0 08 A9 00 E6
1E66:8D 12 D4 4C 9B 1E EE 05 85
1E6E:1E AD 05 1E C9 07 D0 25 D8
1E76:A9 00 8D 05 1E AD F8 07 2A
1E7E:C9 38 D0 0E 18 69 48 8D 2D
1E86:F8 07 A9 81 8D 12 D4 4C F8
1E8E:9B 1E 38 E9 48 8D F8 07 37
1E96:A9 00 8D 12 D4 4C 65 FA 18
1E9E:00 0E 40 0E 80 0E C0 0E 13
1EA6:00 0F 40 0F 80 0F C0 0F 70
1EAE:00 20 40 20 80 20 C0 20 23
1EB6:00 21 40 21 80 21 C0 21 80
1EBE:85 C3 18 65 C3 AA BD 9E EA
1EC6:1E 85 FA BD 9F 1E 85 FB 2B
1ECE:BD AE 1E 85 FC BD AF 1E 0E
1ED6:85 FD A9 00 85 C3 A9 40 59
1EDE:85 C4 A0 00 A6 C3 F0 0E 57
1EE6:B1 FA 91 FC C8 D0 F9 E6 21
1EEE:FB E6 FD CA D0 F2 A6 C4 B3
1EF6:F0 08 B1 FA 91 FC C8 CA 70
1EFE:D0 F8 60 00 00 00 00 ED

```

Program 3: Pig\$ For Buck\$— PIG.SPR1

```

0E00:00 FF 00 03 FF C0 00 FF 4F
0E08:00 00 7D 00 0F 96 F0 3F C7
0E10:BE FC FF BE FF F3 BE C5 C9
0E18:F2 AA 85 F2 AA 80 52 AA DE
0E20:80 52 AA 80 02 AA 80 02 2C
0E28:AA 80 02 82 80 02 82 80 B3
0E30:0F C2 80 00 02 80 02 8A
0E38:80 00 03 F0 00 03 FC 00 0A
0E40:03 FF 00 0F FF C0 03 D7 AF
0E48:00 03 55 00 01 55 00 02 D
0E50:BC 00 00 BC 00 03 BC 00 1C
0E58:0F AF 00 0F AF C0 05 AB 0F
0E60:50 05 A8 50 00 A8 00 02 A2
0E68:AA 00 00 AA 00 02 AA 00 E1
0E70:02 8A 00 02 8A 00 02 8F 38
0E78:00 03 CF C0 03 F0 00 00 37
0E80:03 FF 00 0F FF C0 03 D7 EF
0E88:00 03 55 00 01 55 00 06 D
0E90:BC 00 00 BC 00 03 BC 00 5C
0E98:0F AF 00 0F AF C0 05 AB 4F
0EA0:50 05 A8 50 00 A8 00 02 E2
0EA8:AA 00 00 AA 00 02 AA 00 22
0EB0:02 8A 00 02 8A 00 02 8F 78
0EB8:00 03 CF C0 03 F0 00 00 77
0EC0:03 FF 00 0F FF C0 03 D7 30
0EC8:00 03 55 00 01 55 00 00 AD
0ED0:BC 00 00 BC 00 03 BC 00 9C
0ED8:0F AF 00 0F AF C0 05 AB 8F
0EE0:50 05 A8 50 00 A8 00 02 23
0EE8:AA 00 00 AA 00 02 AA 00 62
0EF0:02 8A 00 02 8A 00 02 8F B8
0EF8:00 03 CF C0 03 F0 00 00 B7

```

```

0F00:00 FF 00 03 FF C0 00 D7 29
0F08:00 00 7D 00 0F 96 F0 3F C4
0F10:BE FC FF BE FF F3 BE C5 CB
0F18:F2 AA 85 F2 AA 80 52 AA E0
0F20:80 52 AA 80 02 AA 80 02 2E
0F28:AA 80 02 82 80 02 82 80 B5
0F30:0F C2 80 00 02 80 02 8A
0F38:80 00 03 F0 00 03 FC 00 0C
0F40:03 FF 00 0F FF C0 03 5F 39
0F48:00 01 57 00 01 55 00 00 EE
0F50:F8 00 00 F8 00 5F FB 00 EF
0F58:5F EB C0 00 AB F0 00 A8 03
0F60:50 00 A8 50 00 A8 00 02 65
0F68:A8 00 02 A8 00 0A AA 80 A3
0F70:0A 02 A0 3A 00 A0 3F 00 CC
0F78:28 00 00 3C 00 00 F0 00 50
0F80:03 FF 00 0F FF C0 03 5F 79
0F88:00 01 57 00 01 55 00 00 2F
0F90:F8 00 00 F8 00 5F FB 00 30
0F98:5F EB C0 00 AB F0 00 A8 43
0FA0:50 00 A8 50 00 A8 00 02 A5
0FA8:A8 00 02 A8 00 0A AA 80 E3
0FB0:0A 02 A0 3A 00 A0 3F 00 0D
0FB8:28 00 00 3C 00 00 F0 00 90
0FC0:03 FF 00 0F FF C0 03 5F B9
0FC8:00 01 57 00 01 55 00 00 6F
0FD0:F8 00 00 F8 00 5F FB 00 70
0FD8:5F EB C0 00 AB F0 00 A8 83
0FE0:50 00 A8 50 00 A8 00 02 E5
0FE8:A8 00 02 A8 00 0A AA 80 24
0FF0:0A 02 A0 3A 00 A0 3F 00 4D
0FF8:28 00 00 3C 00 00 F0 00 D0

```

Program 4: Pig\$ For Buck\$— PIG.SPR2

```

0E00:00 FF 00 03 FF C0 00 FF 4F
0E08:00 00 7D 00 0F 96 F0 3F C7
0E10:BE FC FF BE FF F3 BE CF 51
0E18:52 AA 8F 02 AA 8F 02 AA 5C
0E20:85 02 AA 85 02 AA 80 02 EA
0E28:AA 80 02 82 80 02 82 80 B3
0E30:02 83 F0 02 80 00 02 80 F4
0E38:00 0F C0 00 03 F0 00 02 D
0E40:03 FF 00 0F FF C0 03 D7 AF
0E48:00 03 55 00 01 55 00 02 D
0E50:BC 00 00 BC 00 03 BF D4 F6
0E58:0F AF D4 3F A8 00 14 A8 8C
0E60:00 14 A8 00 00 AA 00 00 41
0E68:AA 00 00 AA 80 02 A2 80 56
0E70:0A 82 80 0A 02 B0 28 03 09
0E78:F0 3C 00 00 0F 00 00 00 94
0E80:03 FF 00 0F FF C0 03 D7 EF
0E88:00 03 55 00 01 55 00 00 6D
0E90:BC 00 00 BC 00 03 BF D4 37
0E98:0F AF D4 3F A8 00 14 A8 CC
0EA0:00 14 A8 00 00 AA 00 00 81
0EA8:AA 00 00 AA 80 02 A2 80 96
0EB0:0A 82 80 0A 02 B0 28 03 49
0EB8:F0 3C 00 00 0F 00 00 00 D4
0EC0:03 FF 00 0F FF C0 03 D7 30
0EC8:00 03 55 00 01 55 00 00 AD
0ED0:BC 00 00 BC 00 03 BF D4 77
0ED8:0F AF D4 3F A8 00 14 A8 0D
0EE0:00 14 A8 00 00 AA 00 00 C1
0EE8:AA 00 00 AA 80 02 A2 80 D6
0EF0:0A 82 80 0A 02 B0 28 03 89
0EF8:F0 3C 00 00 0F 00 00 00 15
0F00:00 FF 00 03 FF C0 00 D7 29
0F08:00 00 7D 00 0F 96 F0 3F C4
0F10:BE FC FF BE FF F3 BE CF 53
0F18:52 AA 8F 02 AA 8F 02 AA 5E
0F20:85 02 AA 85 02 AA 80 02 EC
0F28:AA 80 02 82 80 02 82 80 B5
0F30:02 83 F0 02 80 00 02 80 F6
0F38:00 0F C0 00 03 F0 00 00 2F
0F40:03 FF 00 0F FF C0 03 5F 39
0F48:00 01 57 00 01 55 00 00 EE
0F50:F8 00 00 F8 00 5F FB 00 7E
0F58:03 EB C0 0F EB C0 17 A9 36
0F60:40 14 A9 40 00 A8 00 02 81
0F68:A8 00 02 A8 00 02 AA 00 03
0F70:02 8A 00 02 8A 00 03 CA 77
0F78:00 0F CF 00 00 3F 00 00 51

```

```

0F80:03 FF 00 0F FF C0 03 5F 79
0F88:00 01 57 00 01 55 00 00 2F
0F90:F8 00 00 F8 00 03 FB 00 BE
0F98:03 EB C0 0F EB C0 17 A9 76
0FA0:40 14 A9 40 00 A8 00 02 C1
0FA8:A8 00 02 A8 00 02 AA 00 43
0FB0:02 8A 00 02 8A 00 03 CA B7
0FB8:00 0F CF 00 00 3F 00 00 91
0FC0:03 FF 00 0F FF C0 03 5F B9
0FC8:00 01 57 00 01 55 00 00 6F
0FD0:F8 00 00 F8 00 03 FB 00 FE
0FD8:03 EB C0 0F EB C0 17 A9 B6
0FE0:40 14 A9 40 00 A8 00 02 02
0FE8:A8 00 02 A8 00 02 AA 00 83
0FF0:02 8A 00 02 8A 00 03 CA F7
0FF8:00 0F CF 00 00 3F 00 00 D1

```

Program 5: Pig\$ For Buck\$— PIG.SPR3

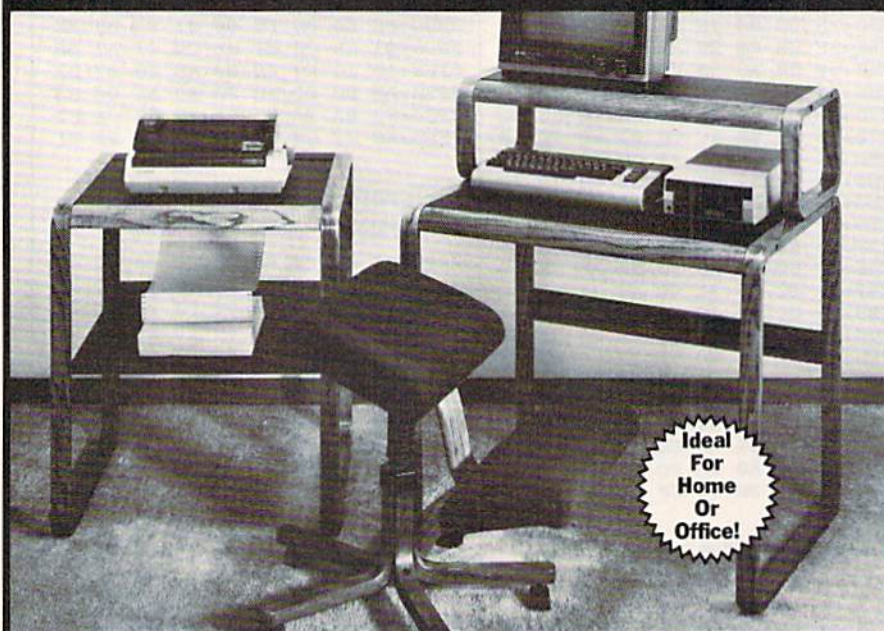
```

0E00:00 00 00 00 00 00 00 1C
0E08:00 00 00 00 00 00 00 24
0E10:00 00 00 00 00 00 01 02 E
0E18:00 02 00 00 03 C0 00 03 D2
0E20:40 08 03 F0 04 07 F0 05 F0
0E28:FF C0 03 FF 00 03 FF 00 E0
0E30:03 FF 00 03 FE 00 01 FE F6
0E38:00 01 FA 00 01 02 00 00 04
0E40:00 00 00 00 00 00 00 5C
0E48:00 00 00 00 00 00 00 64
0E50:01 00 00 01 00 00 01 E0 DF
0E58:00 01 A0 04 01 F8 04 03 FF
0E60:F8 05 FF C0 03 FF 00 03 61
0E68:FF 00 03 FE 00 03 FE 00 DE
0E70:01 FE 00 03 F2 00 02 0C A4
0E78:00 00 00 00 00 00 00 94
0E80:00 00 00 00 00 00 00 9C
0E88:00 00 00 00 00 00 00 A4
0E90:00 00 00 00 00 01 00 B0
0E98:00 80 00 07 80 00 05 80 D3
0EA0:00 1F 80 10 1F C0 20 03 D4
0EA8:FF A0 00 FF C0 00 FF C0 B3
0EB0:00 FF C0 00 7F C0 00 7F 63
0EB8:80 00 5F 80 00 40 80 00 0B
0EC0:00 00 00 00 00 00 00 DC
0EC8:00 00 00 00 00 00 00 E4
0ED0:80 00 00 80 00 07 80 00 52
0ED8:05 80 00 1F 80 20 1F C0 0D
0EE0:20 03 FF A0 00 FF C0 00 59
0EE8:FF C0 00 FF C0 00 7F C0 FA
0EF0:00 7F 80 00 4F 80 00 30 A9
0EF8:40 00 00 00 00 00 00 35
0F00:00 FF 00 03 FF C0 00 D7 29
0F08:00 00 7D 00 0F 96 F0 3F C4
0F10:BE FC FF BE FF F3 BE CF D5
0F18:F2 AA 8F F2 AA 8F 52 AA 5E
0F20:85 52 AA 85 02 AA 80 02 01
0F28:AA 80 02 82 80 02 82 80 B5
0F30:02 82 80 02 82 80 02 82 BC
0F38:80 0F C3 F0 3F C3 FC 00 E4
0F40:00 FF 00 03 FF C0 00 D7 69
0F48:00 00 7D 00 0F 96 F0 3F 05
0F50:BE FC 5F BE F5 53 BE C5 25
0F58:02 AA 80 02 AA 80 02 AA 58
0F60:80 02 AA 80 02 AA 80 02 5A
0F68:AA 80 02 82 80 02 82 80 F5
0F70:0A 00 A0 0A 00 A0 0F 00 E8
0F78:F0 3F 00 FC 00 00 00 00 AE
0F80:00 00 00 00 FF 00 53 FF 45
0F88:C5 50 D7 05 F0 7D 0F FF 84
0F90:55 FF 3F BE FC 0F BE F0 BF
0F98:02 AA 80 02 AA 80 02 AA 98
0FA0:80 02 AA 80 02 AA 80 02 9A
0FA8:AA 80 02 AA 80 02 AA 80 F8
0FB0:3A 00 AC 3E 00 BC 3E 00 D4
0FB8:BC 00 00 00 00 00 00 35
0FC0:00 00 50 00 05 50 FF 98
0FC8:05 F3 FF CF F0 D7 0F FC 65
0FD0:7D 3F 3F 55 FC 3F BE FC 1A
0FD8:0F BE F0 02 AA 83 C2 AA FF
0FE0:80 0E AB 8C 02 BA 80 3E 3B
0FE8:AA BC FE EA BF FE AA BF 29
0FF0:FE AB BF EA AB FA BE DA
0FF8:AF FA FE EA 3B FE EC 00 5C

```


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• Because strings are limited to a maximum length of 255 characters, "Sequential File Editor" (July) may crash with a STRING TOO LONG error in line 190 when a file contains 256 or more characters without a RETURN character (CHR\$(13)). The following line will allow such files to be read into the program:

```
205 IF LEN(A$(LN)) = 255 THEN PRINT
    A$; GOTO 230
```

Note that if you add this line and subsequently read a file and write it back to disk, the new file may contain some additional CHR\$(13) characters.

• Reader Michael D'Alessio noticed that two characters in "Pirate Cove" (August) were misprinted. The L and @ in line 1560 should have been underlined, indicating that they are shifted characters.

• "Address Cataloger" (August) works as published. Certain printers, however, print a few garbage characters just before the name field. Readers who encounter this problem should POKE 3173,255 before running the program. Also, if you'd rather have the ZIP code printed on the same line as the state, POKE 5173,32. Readers who own daisywheel printers may find that underlining causes a series of C's to be printed. To fix this, POKE 3371,45. To make any of these changes permanent, load Address Cataloger, enter the POKES, and save the program back to disk under a new name.

• The printer which makes program listings continues to insert an unnecessary question mark now and then. Line 170 of "128 Sprite Rotor" (August) should end with 280, not 2?80. Also, the question mark should be removed from RETURN

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in line 540 of "Queen's Quarrel" (June).

• Some readers who own RGB monitors have asked how to change the character color in "SpeedScript-80." Load the program from 64 mode and **POKE 4463,xxx**, where xxx is a number between 128 and 143. To change the background color, use the **COLOR** command from 128 mode before loading SpeedScript-80.

Reader Donald E. Fulton has suggested a couple of useful modifications. **POKE 2270,71** changes the 80-column display to 70 columns, so what you see on the monitor is what will be printed. If you change the margins, add one to the new column width and **POKE** it to 2270. Also, to speed up typing, **POKE** a 234 to each of the three locations 2795-2797.

• The *Voyager 2* spacecraft has discovered some new facts about the planet Uranus, including the existence of at least ten previously unknown moons. Readers who typed in "Solarpix" (June) may want to modify the program.

In line 2440, change 14.5 to 14.6. In line 2510, change .67 to .72. The 5 in line 2710 should be changed to 15. And ten X's separated by commas should be added to line 2770, to represent the ten, as yet unnamed, moons.

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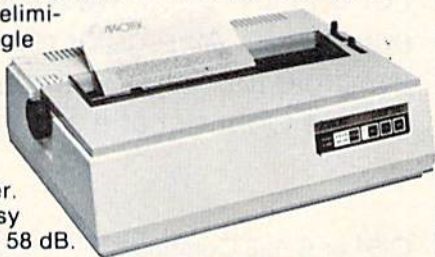
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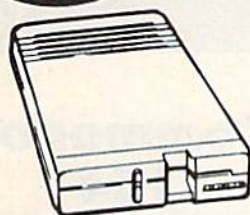


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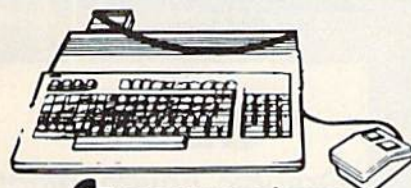


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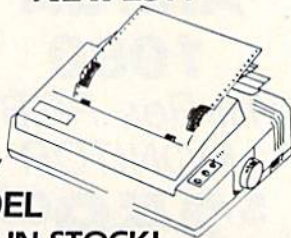
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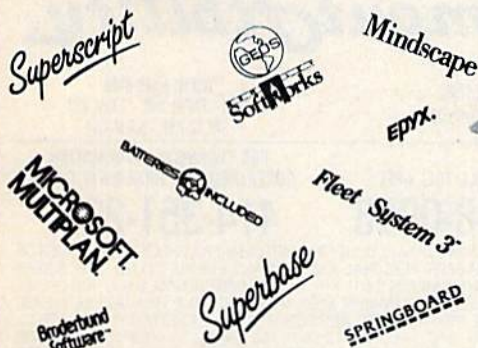
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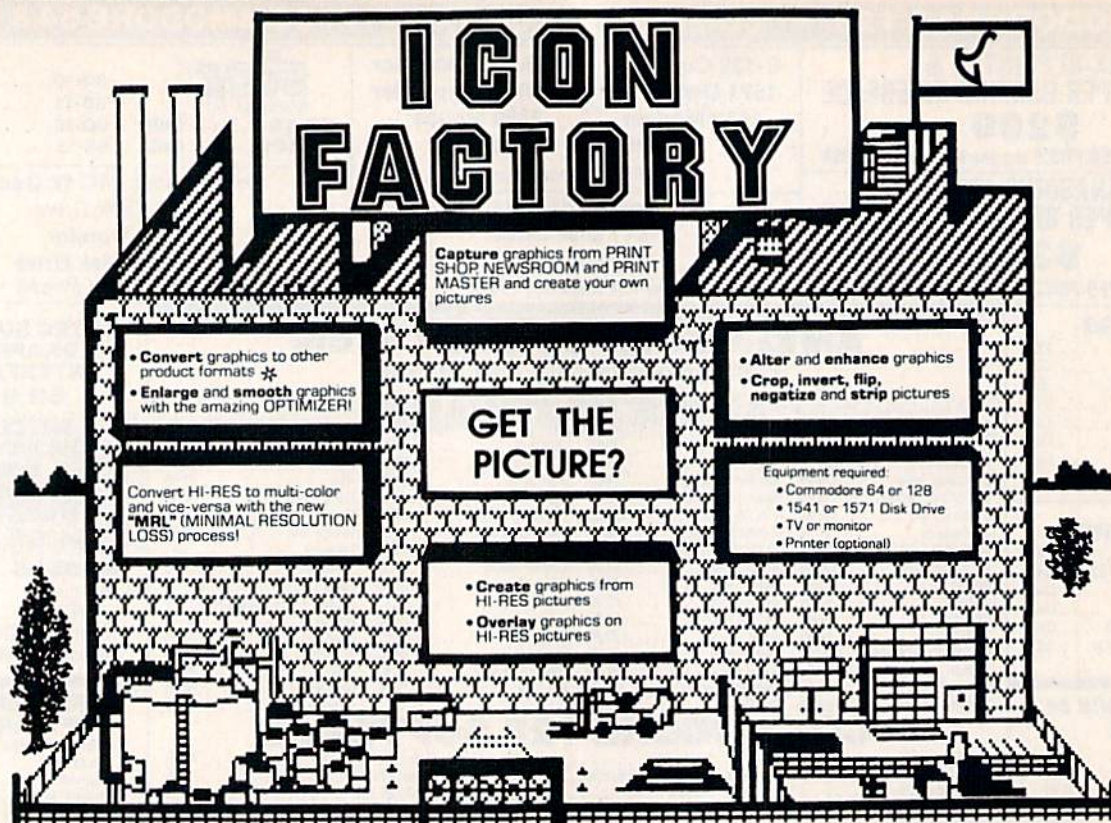


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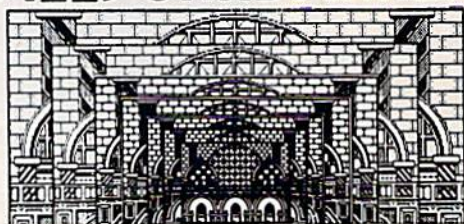
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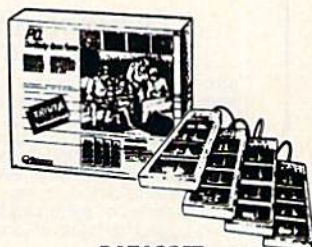
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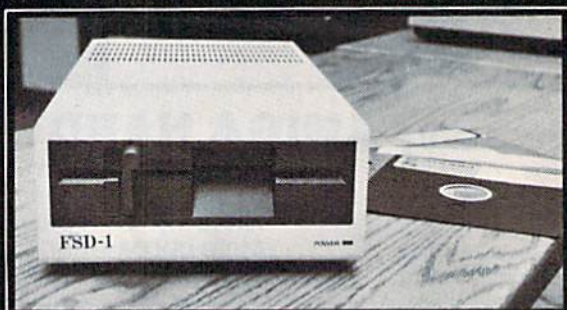
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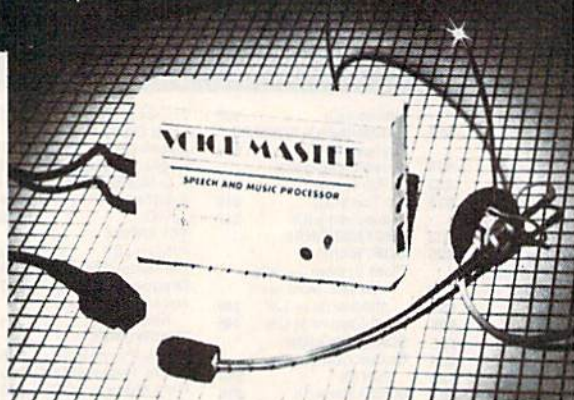
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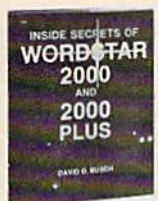
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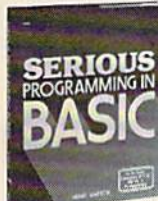
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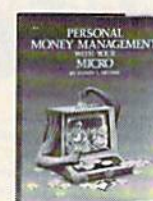
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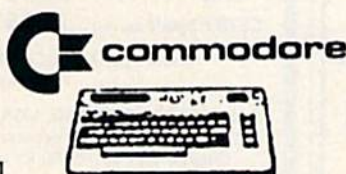
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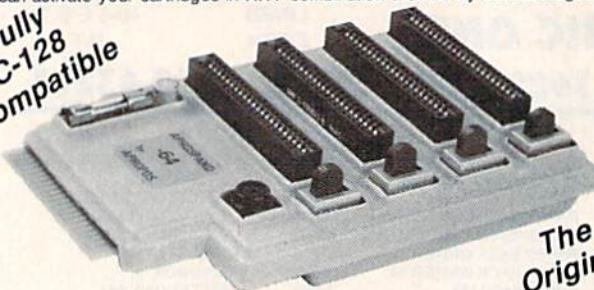
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advertiser's index

Reader Service Number/Advertiser Page

102	Abacus Software	19
103	Abacus Software	21
104	Abby's Discount Software	133
105	Acorn of Indiana	89
106	American International Computer Products	135
107	Aprotek	125
108	Aprotek	142
109	Artificial Intelligence Research Group	58
110	Atari Corp.	65,67,69
	Atic Computerware	144
111	Avalon Hill Game Co.	7
112	Berkeley Softworks	34,35
113	Bible Research Systems	67
114	Blackship Computer Supply	142
115	Bodylog, Inc.	14-15
116	Brantford Educational Services	130
117	Cardinal Software	68
118	Central Point Software	69
	Cheatsheet Products Inc.	129
119	C. Itoh Digital Products, Inc.	46
	C.O.M.B. Direct Marketing Corp.	122
	C.O.M.B. Direct Marketing Corp.	123
	Compumed	134
120	CompuServe	1
121	ComputAbility	130-131
122	The Computer Book Club	139
123	Computer Centers of America	127
124	Computer Mail Order	77
125	Computer Mail Order	128
126	Computer Mart	140
127	Computer Place	134
	Covox Inc.	138
	Crown Custom Covers	89
128	CSM Software, Inc.	138
129	Deadlock Software	136
130	Digital Solutions, Inc.	144
131	Digital Solutions, Inc.	BC
132	Echo Lake Laboratories	136
133	Electronic Arts	IFC
134	Electronic One	141
135	Emerald Component International	134
136	Excalibur Management Consultants, Inc.	73
137	Firebird Licensees Inc.	13
138	Firebird Licensees Inc.	43
139	Free Spirit Software, Inc.	142

Reader Service Number/Advertiser Page

	Halix Institute	58
	Intelligent I/O, Inc.	82
	Intelligent Software	136
140	Jameco Electronics	65
141	Jason-Ranheim	79
142	Ketek	31
	Kyan Software	100
	Lyco Computer	54-55
143	Marathon Software	84
144	Maxtron	73
145	McGraw-Hill Continuing Education Center	49
146	Melodian, Inc.	44-45
147	MicroComputer Services	140
148	MicroProse Simulation Software	11
	Mindscape	2-3
149	Origin Systems, Inc.	IBC
150	Precision Data Products	142
151	Protecto	50-51
152	Pro-Tech Tronics	60-61
153	S&R Marketing	58
154	Schnedler Systems, Inc.	134
	Second Source Engineering	82
155	SoftSpace Software Co.	136
156	Software Discounters of America	137
157	Solutions Unlimited	132

Reader Service Number/Advertiser Page

158	Star Micronics	77
159	Strategic Simulations, Inc.	25
160	subLOGIC Corporation	4
161	subLOGIC Corporation	41
	Tektonics Plus, Inc.	142
162	Tenex Computer Express	124
163	Timeworks	29
164	Triad Computer	126
165	Tussey Computer Products	26-27
166	Unitech	66

Classified Ads		143
The Complete Desk Top Publisher & I Didn't Know You Could Do That with a Computer		39
COMPUTE! Books' Commodore 64 Best Sellers		9
COMPUTE! Books' New Commodore Titles		57
COMPUTE!'s Gazette Disk Subscription		33
COMPUTE!'s Gazette Subscription		17
40 More Great Flight Simulator Adventures		47



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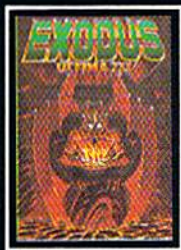


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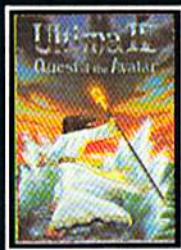
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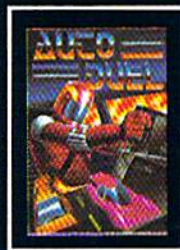
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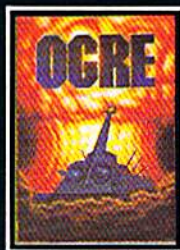
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