Vol 6 No 2

DEC 22, 1983

ASTROCADE NEWS The team is slowly working its way back to the land of the living, and will be supporting the Arcade Unit with some more cartridges in the early part of next year. They are currently selling the Arcade Unit direct from Columbus at \$59.95, including a Basic or any other cartridge of your choice. (6460 Busch Blvd., Suite 215, Columbus, CH 43229.) or contact Debby at 616-885-0130

PROGRAM PRIZE WINNER is Mike Skala for his FROGWAY. We run a contest every so often where five judges score the programs submitted on whatever basis they feel like. Each program is given a score of 1-10, and the results called in to the home office where they are tabulated. The winner of this contest then gains \$100 and the responsibility to be a judge for the next five contests, displacing the eldest judge on the panel. The programs are submitted to me by the authors, along with a note that the program is primarily their own work and not just a copy or translation. We must have at least three entries to have a contest.

SLAP ON A KEYBOARD??? Well, it isn't easy. A number of schemes have cropped up over the years to add a keyboard to the Arcade unit to supplant the keypad. Each one seems to have problems, as noone has yet published a foolproof method. We had ideas that came in through the cassette interface - sort of tricking the machine into thinking that a tape program was coming in. This required a serial output printer because the cassette operation is serial. We had ideas where a UART was used to convert the serial stream to parallel, and then come in the expansion connector. There is another idea that just parallels the keypad wiring with the keyboard input. A main problem is the keypad's shift mechanism, which has to be replaced or duplicated. The only successful additions have been those that appear after a memory add-on is incorporated (the Blue Ram or the Viper). We may illustrate some of these ideas in the next issue.

GAME INSTRUCTIONS: FLAPS UP! BY KEVIN O'NEILL FOR THE NIAGARA REGIONAL B.U.G.

In this one-player game of skill, you become the pilot of a WWl biplane. After returning from a dangerous mission, you try to land at your home airstrip, only to find that it is being repaired. You recieve points for the ammount of time you manage to spend on the runway, but watch out! When you see a box of repair supplies ahead, pull up quick or you will collide with it and have 30 points taken from your score. Once you pass 20 boxes, the game will end. A squeeze of the trigger will show you the high score of the day. More squeezes will bring simple instructions, & the game. Have fun with this one!

K. O'Neill

Dec 22 1983

the two authors used one apiece

PROGRAM INSTRUCTIONS Two of the programs require extra material to be The memory size (1800 bytes) allows a program of relatively small The computer will also store material in the "arrays", be retained. with it, and also transfer the material in the arrays to tape for long-term storage. These arrays are the (*) and the (%) functions, and each of

> FROGWAY (P.16)

FROGURY IS A GAME FOR ONE TO FOUR PLAYERS WHERE YOU TRY TO HELP THE LITTLE FROGS ACROSS A BUSY SIX LANE HIGHWAY INTO THE PONDS AT THE TOP OF THE SCREEN. USE THE JOYSTICKS TO MAKE THE FROG HOP, AND FLEASE, ONE FROG PER POND. THERE IS ONE MORE PROBLEM; CHUCKHOLES!! THE FASTER YOU GET ACROSS, THE MORE FLIES (POINTS) YOU ARE AWARDED. FINAL SCORES WILL BE POSTED, AND TR(I) WILL START A NEW GAME.

INSTRUCTIONS: ENTER THE BASIC LISTING, THEN LOAD THE MACHINE CODE PORTION WITH THE FOLLOWING DIRECT COMMAND... FOR A=20258TO 20326STEP 2;PRINT A;; INPUT 2(A); NEXT A . YOU MUST ALSO DIRECTLY SET THE FOLLOWING VARIABLES: BC=20275; 0=20272; U=20265; V=20268; Z=20258. DUMP TO TAPE WITH <u>:PRINT ::PRINT %(20258),70</u>

```
x(20258)= -8747 x(20272)= 21052 x(20286)= -8961 x(20300)=
                                                           3640 %(20314)=
                                                                             16
X(20260)= 14113 X(20274)=-32216 X(20238)=-13825 X(20302)=
                                                           1949 %(20316)=
                                                                             56
X(20262)=
          -177 %(20276)=-12032 %(20290)=
                                           -1 2(20304)=
                                                           -129 %(20318)=
                                                                             124
%(20264)= -8653 %(20278)=-32567 %(20292)=
                                             -1 2(20306)=
                                                             -1 2(20320)=
                                                                             186
                             0 %(20294)=
X(20266)= 10416 X(20280)=
                                             -1 2(20308)=
                                                           -129 %(20322)=
                                                                             56
            130 %(20282)= 1794 %(20296)=-13825 %(20310)=
%(20268)=
                                                           1040 %(20324)=
                                                                             124
%(20270)= 13311 %(20284)= 20286 %(20298)= -8961 %(20312)=
                                                                             130
                                                           3640 %(20326)=
```

Saturn Space Dock-Instructions

The object is to make as many safe landings on the green planet of Saturn without running out of fuel. Type in the program and load the *(X) array. Run it and prepare for a challenge. After the land appears 3 numbers will appear accross the top of the screen. They are (1 to r) score, rate of descent, fuel. To land safely, you must land near the center of the pad with rate of descent between 3 and 7. Use the Keypad as your controls:

1 left thrust GO abort landing

+ right thrust ERASE main thrust

Drifting down will lower the rate/des. and the main thrust will increase. Use the 1 & + keys to guide your craft to the center of the pad, but wind may tend to blow you around. Crashing will cost you 500 pts, but since Aborting a landing costs only 50 pts, use it whenever you think you are going to crash. Bonus pts & fuel are awarded at the completion of each successful landing depending on your rate/des. & how close you are to the center of the pad.

Type in the * array after you have finished loading the program

```
*(0)=8669
                *(6)=9523
                               *(13)=9523
                                              *(20)≈-32567
                                                              *(27)=7247
*(1)=8737
                *(7)=9765
                               *(14)=9765
                                                              *(28)=10780
                                              *(21)=128
*(2)=20258
                *(8)=26662
                               *(15)=26662
                                              *(22)=0
                                                              *(29)=10794
*(3)=-10929
                *(9)=-32664
                               *(16)=-32664
                                              *(23)=256
                                                              *(30)=5162
                               *(17)=128
*(4)=-43
                *(10)=128
                                              *(24)=1537
                                                              *(31)=10772
*(5)=13311
                *(11)=-256
                               *(18)=-12032
                                              *(25)=10502
                                                              *(32)=16682
                *(12)=13311
                               *(19)=-13871
                                              *(26)=20265
                                                              *(33)=65
```

@1983 R.Fabris

Jec 22,1983 Vol 6. Noz 1 CLEAR ;&(9)=-1;BC=7;FC=8 2 D=0;L=0;R=0 3 NT=-20; CLEAR ; CY=30; PRINT * ////// FLAPS UP! ////// 4 CY=10; PRINT " YOUR MISSION: "; PRINT 5 PRINT " STAY ON RUNWAY AS LONG AS 6 PRINT " POSSIBLE. - BUT WATCH"; PRINT " OUT FOR BOXES OF REPAIR"; PRINT " SUPPL IES!" 20000 CY=C; CX=-30; PRINT "(GAME OVER) 8 NT=1 20001 IF TR(1)GOTO 20009 9 IF TR(1)CLEAR ; GOTO 14 20002 GOTO 20001 10 GOTO 9 20009 CLEAR ; NT=0; IF L>*(1)*(1)=L 14 BOX 0,20,155,10.1 20010 CY=10; PRINT * YOUR SCORE WAS ",#0,L 20 BOX 0,-30,155,10,1 HIGH SCORE WAS ",#0,*(1) 20020 CY=0; PRINT " 25 BOX 0,-30,155,8,3 30 NT=0; CY=29; PRINT * ////// FLAPS UP! ////// 40 NT=1 20030 CY=-10; PRINT * SQUEEZE TRIGGER TO PLAY"; BOX 0,-10,155,3,3 220 P=0 239 D=0 20040 IF TR(1)RUN 240 D=D+JY(1)64 20050 GOTO 20040 245 IF DK-20D=-20 250 GOSUB 1000 252 NT=0; CY=-30; PRINT R, L; NT=1 255 IF R=20G0T0 20000 256 IF D=-20L=L+3; MU=L 260 IF RND (6)=1GOSUB 2000 900 GOTO 240 1000 BOX P,D,10,2,1 Kevin O'NEILL 1010 BOX P-2,D+2,5,1,1 6 WOOD DALE DR 1020 BOX P+6, D+2, 2, 2, 1 ST. CATHARINES, ONT 1030 BOX P-3,D+2,1,2,1 L2T IYB 1040 BOX P-3,D-3,1,1,1 1050 BOX P,D,20,10,2 CANABA 1060 RETURN 2000 V=-20;R=R+1 2001 FOR S=-60TO 60STEP 20 2011 BOX 5, V, 11, 6, 3 2021 BOX S, V, 9.4.3 2022 BOX S, U, 11, 6, 2 2031 D=D+JY(1)64 2034 IF D<-20D=-20 2035 IF D=-20L=L+3;MU=L 2036 IF D<-111F S=0 MU="B";L=L-30;GOSUB 10000 2041 GOSUB 1000 2061 NEXT S: RETURN 3000 CLEAR ; SM=2; CY=-40 3010 X=X+JX(1) 3020 Y=Y+JY(1)3021 K=2 3022 IF TR(1)K=1 3030 BOX X,Y,1,1,K 3040 GOTO 3010 10000 CY=D:CX=P:PRINT "*" 10010 FOR T=0T0 8 10015 BOX P+RND (4)-4,D+RND (4)-4,4,4,3 10020 FC=RND (32)68 10030 MU=FC; NEXT T

@1983 R. Fabris

10040 RETURN

Vol.6 No.2

THE GAME PLAYER

. . . soars high in

the sky as a

FLYING ACE Wavemakers, tape #2

Now that the flood of new titles has slowed down a bit, we have time to check out some of the fine games that have been around for awhile.

One of these is Wavemaker's FLYING ACE, a game that puts YOU in the cockpit of a fighter plane, and lets you seek out and

machine-gun down enemy planes.

FLYING ACE is indeed a nice game, featuring excellent, non-blinking graphics, and a full repertoire of sounds and music. It made it's revised appearance about two years ago, and was one of the first of several games to come from Wavemakers that would soon be described as "cartridge

quality" material.

After the opening music, the computer requests the player to select the number of players, one to four, and number of planes, one to seven. This may be accomplished with the hand controllers. The screen will then reveal a cross-hair gunsight window, which is stationary at the center. A bi-plane will then appear at any point on the screen, and slowly move around throughout the screen area. Changes in pitch of the airplane's sound indicates a dive, climb, etc.

The player(s) uses his joystick to "pull" his gunsight into range directly over the enemy. The gunsight never moves from the center, and the joystick does not move the enemy plane. What it does is "move" the whole t.v. set (not literally) as if it were the nose of your plane. If you pull back on the joystick, the t.v. will raise up toward the enemy plane. If the enemy plane is to the right of your gunsight, you move your joystick to the right, and the t.v. screen will "move" towards the plane. It is tricky, and the ones who master the tech-

nique will be the true "Ace".
Up to 250 points are possible for a quickly shot down plane. You have a limited amount of time in which to shoot down the enemy. The longer it takes, the fewer points you will receive. In addition, each time you pull the trigger to shoot, you eat up even more time. A bell will ring as you approach the last few seconds. If you do not get the enemy in time, you will lose one "life" (plane). The player who is able to shoot down the enemy fighter plane quickly and with few misses will receive a bonus turn.

FLYING ACE is a real winner! We have had the tape for about a year, and frequently play it. It is not one of those tape games that sits on the shelf unplayed. The music is a real nice touch. It opens and closes game play, and is used after each plane is shot down. The sound effects of the machine gun sound very real, as does the sound of the plane when it dives.

FLYING ACE is a good candidate for being spiced up and put into a cartridge!

SCOREBOARD

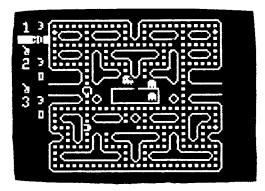
Space Invaders Muncher	336,700* 453,200* 31,575 111,177 1,942,443 7,045 36,220	Al Showalter Stan Kendall Stan Kendall Fred Olivas Mike Prosise Mike Prosise Stan Kendall Mike Prosise
Solar Conqueor	11,488	Mike Prosise

*Indicates new high score NOTES: SOLAR CONQUEROR programing flaw? Maybe. When the score goes over 9,999, it changes to two digits instead of five, and six extra ships are awarded. Also, the sound effects become distorted. What's the story here? ?

So long for now. Send your high scores to Game Player, 48-G Ridge Road, Greenbelt, Maryland 20770.

M.L. Prosise 1983

ILLUSTRATED HERE i s a portion of an advertisement that appeared in a trade paper over a year ago. It shows the screen for the "Munchkin" Videocade that was never officially produced due to problems with Atari. Most unfortunate, as you can see that it is a much better representation than Atari's.



We do have a few sample copies of this cartridge, called "MUNCHER" available for subscribers only at \$30 ppd. If there are any left by the next issue, I may increase the price...

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```
1 B=20237; FOR A=0TO 34; %(A+B)=*(A); NEXT A
 2 S=1;0=0; \';M=0; N=750
                                                                   Dale Low
 3 C=20244; D=20251
                                                                   3020 Cook St.
 5 CLEAR ; GOSUB 200; T=2
                                                                   Victoria BC
50 %(C)=-9999
60 P=5; NM=3; X=-70; Y=30; CX=-70; CY=40; PRINT #0, M, *
                                                                   V8T 359
70 FOR A=1TO 2
                                                                   CANADA
80 IF &(23)=8X=X+A;Q=90;N=N-2
90 IF &(20)=8X=X-A;Q=90;N=N-2
100 IF &(21)=16Y=Y+A; O=150; P=P+Ab2; N=N-3
105 NEXT A
106 CX=0;CY=40;PRINT #0,P." ",;CX=60;PRINT #0,N
107 IF &(23)=1';NT=7;M=M-50;MU=88;NT=0;GOT0 60
110 Y=Y-1;P=P-1
111 IF RND (13-ABS(0))=1X=X+K
112 IF NK1CX=-30;CY=20;FRINT "OUT OF FUEL!";IF KPGOTO 2
115 FOR NU=QTO 40; NEXT NU; Q=40
120 IF (Y>35)+(Y<-32)+(X>70)+(X<-75)GOTO 60
140 %(D)=ABS(Y-40)b256+X+76
150 CALLB;%(C)=%(D)
170 IF (PX(X,Y-9))+(PX(X+12,Y-9))GOTO 320
180 GOTO 70
200 H=0;NT=0;BC=0;FC=180
201 R=-35;S=5+1
205 0=RND (17)-9;K=(0>0)b5-(0<0)b5
206 IF K>5K=5
207 IF K<-5K=-5
210 FOR A=-80TO 79;LINE A,-44,0;LINE A,R,1
220 IF R>-10R=R-3
230 IF R<-40R=R+3
240 R=R+RND (7)-4
250 IF A<50IF A>-70IF H=0IF R>-15H=A
260 NEXT A
261 CX=-20; CY=40; PRINT #0, "WIND: ",0; FOR A=1T0 500; NEXT A
262 CY=40;CX=-20;PRINT "
300 IF H=0H=RND (99)-50
301 &(10)=0;BOX H+10,0,30,40,2;BOX H+10,-30,30,20,2
302 CX=H+2;CY=-25;PRINT #0,5,;TV=98
 303 BOX H+10,-30,30,20,3;&(10)=176;RETURN
 320 IF (P(2)+(P)7)GOT0 329
 321 IF X>H-3IF X<H+13G0T0 350
 329 TA=55;VA=12;FOR A=1T0 15;BOX X+4,Y-2,A,A-3,1
330 NEXT A; FOR A=1TO 15; BOX X+4, Y-2, A, A-3, 2; NEXT A
 331 '; M=M-500; GOTO 50
 350 \;NT=7;MU=83;MU=40;MU=72;MU=83;NT=0
 355 V=(9-ABS(H+8-X))b4
 360 CY=25;CX=-30;PRINT "WELL DONE!!";CX=-33;PRINT #0,"BONUS:",P,"b",V,"b",S
 370 CX=-35:PRINT "<FUEL BONUSa", #0,(8-T)bPbSb2
 371 N=N+(8-T)bPbSb2
 380 FOR A=1TO 999:NEXT A
 390 BOX 0,15,120,30,2;M=M+PbVbS
 400 CY=40; CX=-70; PRINT #0, M; T=T-1; GOTO (T#0) b55+5
```



FROGWAY Vol 6 No Z и :INPUT %(Z):GOTO 19 3 %(U)=M;%(O)=N;%(V)=130;%(BC)=130;CALLZ;RETURN 4 %(V)=129;%(BC)=129;%(U)=A;%(O)=B;CALLZ;%(U)=E;%(O)=F;CALLZ;%(U)=I;%(O)=J;CALL 5 %(U)=128;%(BC)=128;%(U)=C;%(O)=D;CALLZ;%(U)=G;%(O)=H;CALLZ;%(U)=K;%(O)=L;CALL 8 FOR Y=-65TO 65STEP 32; BOX Y, 30, 9, 10, 2; NEXT Y; RETURN 9 @(Xb9+T)=1;B0X -97+Tb32,30,9,9,3;RETURN 19 CLEAR ; CY=0; PRINT "PLYRS ? 20 W=KP-49; IF (W<0)+(W>3)GOTO 19 40 FOR X=0TO W; FOR Y=0TO 6; @(Xb9+Y)=0; NEXT Y; @(Xb9+7)=3; @(Xb9+8)=1; NEXT X; BOX 0, 31,160,10,1;NT=1;M=-Z;N=0;GOSUB 3 100 FOR X=0TO W; IF @(Xb9+6)NEXT X 110 FOR T=0TO W; IF @(Tb9+6)NEXT T; GOTO 950 120 IF X>WGOTO 100 130 GOSUB 3750; GOSUB 8; FOR T=1TO 5; IF @(Xb9+T)N=2540+Tb32; GOSUB 3; GOSUB 9 150 NEXT T; BOX 0, -9,160,70,2; FOR Y=14TO -34STEP -10; BOX 0,Y,160,1,1; NEXT Y; FOR Y =-75T0 75STEP 8; BOX Y,-6,3,56,2; NEXT Y 170 BOX -1,24,154,1,1;BOX -1,-36,154,1,1;FOR T=0TO @(Xb9)c25;BOX RND (150)-75,19 -RND (5)610,RND (8)+4,3,1;NEXT T 300 A=-Z;B=5376+RND (159);C=-Z;D=7936+RND (159);E=-Z;F=10496+RND (159);G=-Z;H=13 056+RND (159) 320 I=-Z;J=15616+RND (159);K=-Z;L=18176+RND (159);M=-Z;N=21016+RND (30)64 400 FOR P=36TO 41;@(P)=RND (3b@(Xb9+8))+6;NEXT P;GOSUB 3;M=N;FOR S=100TO 0STEP -2; Y=43-Nc256; Q=RM-79 510 IF NK2796GOTO V 520 IF PX(Q,Y)GOTO Z 530 IF PX(Q+4,Y)GOTO Z 540 IF PX(Q,Y-B)G0T0 Z 550 IF PX(Q+4,Y-6)GOTO Z 600 B=B-@(36);D=D+@(37);F=F-@(38);H=H+@(39);J=J-@(40);L=L+@(41)620 IF B<5376B=5535 630 IF D>8095D=7936 640 IF F<10496F=10655 650 IF H>13215H=13056 Mike Skala 660 IF J<15616J=15775 544 E. Overlook 670 IF L>18335L=18176 Eastlake OH 44094 680 GOSUB 4; A=B; C=D; E=F; G=H; I=J; K=L 700 IF JY(X+1)N=N-1024bJY(X+1);GOTO 750 710 IF JX(X+1)N=N+4bJX(X+1);GOTO 750 720 GOTO 900 750 MU=63; Y=Nc256; IF (RM>150)+(RM<0)N=M760 IF N>21141N=M 800 GOSUB 3; M=N; MU=6 900 NEXT S; CY=-1; PRINT "TIME UP"; GOTO Z 950 CLEAR ; FOR T=0TO W; CX=-45; PRINT #5, "PLYR", T+1,@(Tb9); NEXT T 960 IF TR(1)G0T0 19 970 GOTO 960 3750 CY=43;CX=-65;PRINT #0,@(Xb9+7),;CX=-35;PRINT "PLYR",#3,X+1,#8,@(Xb9);RETURN 3850 @(Xb9)=@(Xb9)+S;RETURN 3950 GOSUB 8; FOR T=1T0 5; @(Xb9+T)=0; NEXT T; @(Xb9+8)=1; GOT0 0 20258 CX=-10;CY=-1;PRINT "SPLAT";@(Xb9+7)=@(Xb9+7)-1;FOR T=0T0 99;BC=40;NEXT T;B C=20275; IF @(Xb9+7)=0@(Xb9+6)=1

20265 NEXT X; IF X>WGOTO 100

20258 FOR T=1TO 5; IF N=2540+Tb32G0SUB 9; M=-Z

20270 NEXT T; FOR T=1TO 5; IF @(Xb9+T)NEXT T; GOTO 3950

20271 @(Xb9+8)=@(Xb9+8)+1

20272 GOSUB 3850;GOSUB 3750;GOTO U

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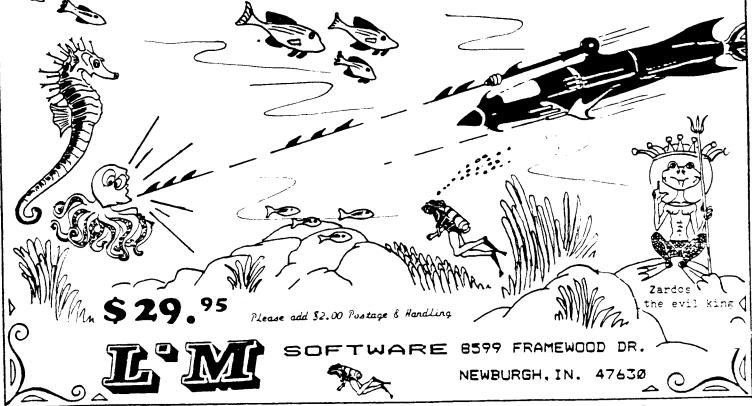
You are the guardian of a 21st century undersea farm. Not only is this important to the survival of the people on earth but the company you work for have risked millions on this venture.

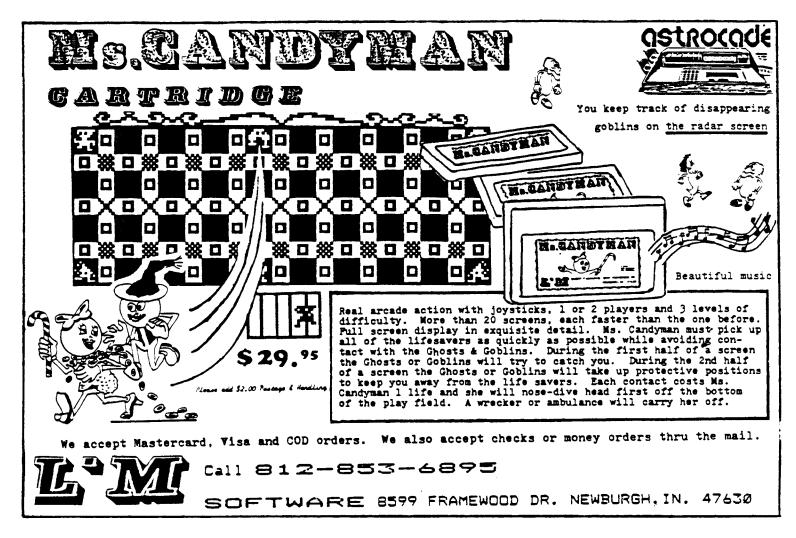
Zardos, the evil king of a distant planet, needs this food for himself and has sent android divers with other sea creatures to steal this food.

You are provided with the under sea hi-tech. sub-surface cruiser, Sea Devil, equipped with the latest in sonar screens. You can spot targets at great distance. As they come into range your laser makes quick work of the poachers and accumulate valuable sub credit points for yourself.

Zardos personally is commanding a submarine which will fire cluster bombs to keep you at bay.

Can you get Zardos in his sub? He's worth 1,000 points if you can.





Ms. Candyman is one of the most refined games ever produced for the Astrocade. It's an original concept as you can see from the game screen above. We are absolutely sure you will be more than satisfied.

Order both cartridges, Ms. Candyman & Sea Devil, at the same time and save \$2.00 postage and handling charges on Ms. Candyman.

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CREDIT CARD CUSTOMERS

ADS This space is available for free ads - anything having to do with the Arcade. I'd prefer them to come typed, 78 characters per line maximum, 4 lines maximum, so that all I have to do is cut and paste.

With all the sales going on; now is a good time to pick up those Videocades you don't have - they may be the collector's items of the next century...

This little filler identifies some of the normal contents of a few of the memory locations:

ASTRO BASIC MEMORY MAR FOR VARIABLES

%(20002)-%(20052)= A THROUGH Z

%(20054)=BC	X(20066)=MO	2(26678)=VC
%(20056)=FC	%(20068)≃TA	%(20080)≃NM
X(20058)=NT	X(20070)=TE	X(26082)=VA
%(20060)=CX	%(20072)#TC	%(20084)=YB
X(20062)#CY	%(26674)=VR	X(20086)=RV
X(20064)=XY	%(20076)=VF	%(20088)≃RM

I'd like to take this opportunity to wish you all the best of the Holiday Season, and good fortune in the next year.

20

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