

Those of you who are starting with us with this volume may be interested in a very short history. The Bally Arcade was first advertised by the Chicago mail order house of JS&A in such magazines as Popular Science, Scientific American, the airline freebies and a couple of others in Sept/Oct. of 1977. In the two page ad, delivery was promised in four weeks and the expansion unit was indicated to be available in 6 weeks, so that a complete and highly sophisticated computer would be shotly available at a \$600 price range. The Tinv RASIC showed up in October 1978, and I started this subscription newsletter in Nov. We have yet to see the expansion unit (Add On)(Level III), but in the last year a number of doors have been unlocked in the Tiny BASIC and subscribers, as a group, are the only ones able to expand their programs and enhance their operations. This Newsletter is the only established source of free programs, and provides a place for those wishing to market their outputs.

PRINTER OUTPUT. I GUESS YOU NOTE THE UNUSUAL TYPE IN THIS PARAGRAPH; THIS IS BEING TYPED VIA MY NEW Comprint 912S PRINTER UNDER DIRECT CONTROL OF THE BALLY. I HOPE TO PRINT MORE OF THE ARCADIAN THIS WAY IN THE FUTURE - THIS IS A SAMPLE TO WHET YOUR APPETITE. THIS MACHINE WAS ADVERTISED ON THE INSIDE FRONT COVER OF THE JULY KILOBAUD. COST IS \$699 RETAIL, BUT I HAVE A SOURCE FOR IT AT \$525 FOB SAN JOSE (PLUS CAL TAX IF APPLICABLE). FULL DETAILS NEXT TIME.

SAUCER BATTLE

BY JOHN HURST

9/79

10 - 100	Initialize and Input mode of play. Draw stars and print scoring.
200 - 290	Draw saucers and allow control by hand controls. Two player game.
300 - 495	One player against computer. Draw saucers, left for player, right for computer. Computer random positioning and movement.
	Set ups for computer or TR(1) firing.
500 - 530	Set ups for TR(1) or TR(2) firing in two player mode.
540	Back to two player program if neither saucer fires LASER.
600 - 680	Fire left saucer's LASER, if a hit goto blowup routine, if not go back to one or two player routine, whichever is in use.
700 - 780	Same as 600, but for right saucer.
800 - 860	Blowup right saucer, back to main program in use. Upgrade score.
900 - 960	Blowup left saucer, back to main program in use. Upgrade score.
1000 -1010	Print GAME OVER. If 60 key is pressed, goto line 10 to play again.

This game can be played by two or one, (against the computer). Difficulty of hitting target can be selected, $\beta\!\rightarrow\! 1$, β being the hardest. Amount of LASER blasts and Max Score to win can be selected. If one player option is selected, accuracy of the computer can be set, $\beta\!\rightarrow\! 2$, β being the most accurate. If the computer fires when accuracy is β , it will not miss. If both triggers are pulled at the same time, neither will fire, in two player option. If remaining LASER blasts are five or less, an open hole will appear in the center of the saucer that is low on charge. When all charge for LASER is depleted for one saucer, he can no longer fire. If both saucers are depleted of charge, or Max Score is reached by one saucer, game is over. To play again just press ∞ key.

The memory use of this game is very close to the max available to the Bally, so care should be used when entering this program. Use no spaces unless necessary, the listing may have extra spaces due to my typing. If you don't need them, don't use them. Also deleting lines 1 - 5 can save some memory if needed. Good Luck.

John R. Hurst

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	120 & (23) = \$255; & (21) = \$255 \$730 \$100 \$730 \$4; & (21) \$730 \$4; & (21) \$730 \$7; & (21) \$7; & (21) \$7; & (21) \$7; & (21) \$7; & (23)						
	JID IF FYEN-S SUIRMENTS, B. S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						
PROGRAM NAME SAUCER BATTLE	Line # . *SAUCER BATTLE* 1. **SAUCER BATTLE* 2. **9119 E **e\$; \$\frac{9}{4} \text{i.e}; \$\frac{1}{4} \text{i.e}; \$\fra						

TWO

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ANOTHER PRINTER has been successfully connected to the Bally, writes John Hurst. He has a Victor Model 1250 that uses 3 3/4" wide adding machine tape, with 34 characters per line. John sent some sample material, but the print was blue and wouldn't reproduce. He also needs the little converter that was shown on p.47 of Vol. 1.

NOSTALGIA? for those who can recall some of the older Bally gaming machines. This antique was included in an auction held at Disneyland in late November.



Bally Sparkplug Paying Horse Race Game.

DECIMAL DIVISION is a version by Laurence Gallant that will give you up to 32,676 decimal places (the variable Z).

	PROGRAM	NAME LOGO
L DECIMAL DIVISION	Line #	Statement(s)
5 BY L. GALLANT		CLEAR
10 INPUT X, Y, Z		&(9)=37
2.0 A=X÷Y		BC = 25¢; FC = 7
30 PRINT #1 A #1 1 11 . 11 9		FOR A=1 TO 150
40 FOR B=1 TO Z		H-RND (160)-80; V=RND (88)-44
50 E= (RM = 10) +Y		Box H. V. 1. 1. RND (2)
60 PRINT E.		NEXT A
70 NEXT B	,	k(q)=05:8(1)=25¢
		&(2) = 1.06 : &(11) = 8.56
	,	$CX = -4.4$; $CY = \phi$
LOGO shown at the head of		PRINT" ARCADIAN
page ONE is based on an idea		LINE O, O, 4
by Guy McLimore, and embellished		FOR Q= \$\phi\$ TO 35 STEP 2
by myself. If you'd like to see		LINE 75, Q. 3:LINE Q. Q. 4
it in action (literally) and		LINE 75, -Q, 3: LINE 0, 0, 4
in living color, the program is included.		NEXT
In Thermode.	•	L=7: FOR Z=48 TO 51
	•	Box - 2. 0.1. L.1
		L=L-2
	•	NEXT Z
		Box -22, 0, 56, 9, 3
		FOR G = 0 TO 35
		LINE 75.0.3: LINE 0. 0.4
		LINE 759.3:LINE 0.4.4
		NEXT Q
		GaTo 220
		1

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PROGRAM REVIEWS are being covered in detail in this first issue of Vol.2 in order to act as a reference base for future material. Dick Houser 635 Los Alamos Ave., Livermore, CA 94550 is heading up a team consisting of

Steve Wilson 18015 Sally Ave. Cleveland QH 44135
Don Daniels 3 Apex Road Melville NY 11746
Bill Rueger 336 Beach 38th St Far Rockaway NY 11691
Phil Shafer 3708 Big Horn Trail Plano TX 75075

These gentlemen will accept programs which are offerred FOR SALE by various vendors, and will subject the programs to hands-on operation, review these and then report their findings on the quality of subject matter, documentation, etc., per the form shown on page FOUR. The reviews that appear in the ARCADIAN will be abbreviated to show only the rating answers. Program vendors are being contacted directly by Dick, based on ads run previously. If you are a 'new' vendor, please drop him a line if you are interested in having impartial reviews of your product.

CORRECTIONS of previous programs:

Dick Nitto, who wrote the article "Have a Ball with Bally" in the latest KILOBAUD writes about dropouts in two of the lines in the program he had included there- They should read

270 GOSUB 44¢; IF G=1 GOTO 33¢ 280 IF S=¢ R=R+1; GOTO 33¢

He also writes that an easier version is possible if you substitute 260 IF X<3 IF X>-3 IF Y<3 IF Y>-3 GOTO 300

440 IF X44 IF X>-4 IF Y44 IF Y}-4 A=520; C=1; GOTO 460

MICROTREK needs to be corrected to

200 CLEAR; C = E-S; IF $C \not D C = -C$

220 Q=0; IF C 2 IF G 2 Q=1

and Bill Templeton suggests the following color commands for enhancement. Insert them in each line just before the RETURN command -

700 FC = \emptyset ; 710 FC = $9\emptyset$; 720 FC = 172;

730 FC = 133:

SPACE WAR as printed on p.79 had two points needing work, writes John Johnson. The asterisk (*) in lines 300 and 500 should be changed to the x for multiplication. In line 820, the Y-5 should be T-5

RESEQUENCING apparently does not work on all machines. We noted on p. 25 that there were at least two variations of Bally software. We'll work on this to see what changes might have to be made.

CHECKER as modified on p.90 has a typo of mine, in that the @(5) in line 260 should be @(S).

TUTORIAL (3) on p.41 is called a real space saving help by John Collins, who suggests adding an equals sign to line 9030 so that it reads

9030 PRINT #1,"=",%(20076 + (Zx2))

-arcadian-

REVIEW FORM

This form is used by the reviewer in doing his job, showing what things he will be looking for and the gradations possible. The very bottom of the form is what will appear in the ARCADIAN. You can refer back to this page to refresh your memory on the ratings.

cource Code Cassette Code Pro≤ram Code BPRF4						
BALLY PROGRAM REVIEW						
Name of Program:Cassette Name Description:						
Description:Price Source:Ase: Reviewed by:Ase:						
Circle score for each item 0 1 2 3 4 5 6 7 8 9 on scoring line.						
PROGRAM DOCUMENTATION (PD)						
No Instructions 0 1 2 3 4 5 6 7 8 9 Very Clear Description Listing, Flowchart, Instruction	15					
PROGRAM POLISH (PF)						
Sloppy, Amateurish 0 1 2 3 4 5 6 7 8 9 Professional						
USE OF SPECIAL FEATURES (USF)						
Minimal Used 0 1 2 3 4 5 6 7 8 9 Great Use of Features Graphics, Sound, Handles						
LEVEL OF CHALLENGE (LC)						
Not Challensins 0 1 2 3 4 5 6 7 8 9 Very Challensins						
ORIGINALITY AND CREATIVITY (OC)						
Adapted, Same Old Stuff 0 1 2 3 4 5 6 7 8 9 Totally Brilliant and Unique						
LEVEL OF INTEREST (LI)						
Boring 0 1 2 3 4 5 6 7 8 9 Fascinating						
EDUCATIONAL VALUE (EV)						
Little 0 1 2 3 4 5 6 7 8 9 Really Learn Facts and Skills						
EASE OF USE (EU)						
Awkward, Inconvenient 0 1 2 3 4 5 6 7 8 9 Easy, Quick, Convenient						
OVERALL VALUE (OV)						
Almost Worthless 0 1 2 3 4 5 6 7 8 9 Everyone Should Buy Name of Program: Description: Source: Age:						
Source:Ase:						
Reviewed By: Ratings : PD=_ PP=_ USF=_ LC=_ OC=_ LI=_ EV=_ EU=_ OV=_ TP=_ SZ= Time to Play For Ages # of Players	·					

"ARCADE DICE" by KLAUS GRISHAYER

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60000UB 140;PRINT"88888888 A WINNER $888888
                                                                                                                                                                                                                                                                                                                      630NU=51;NU=48;NU=53;NU=48;NU=48;NU=48;NU=52;
NU=48;NU=53;NU=48;NU=48;NU=48;NU=48;NU=48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      75øIF©(K)>©(K+1) IF©(K)>©(K+2) IF©(K)>©(K+3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GOTO776 PRINT"PLATER #",#2,K," WINS ",;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         726GOSUB766; PRINT"PLATER #",#2,K," ROLLS",
736GOSUB866;@(K)=L+R; NEXTK
44Øcx=-75;CT=-40;PRINT" LOST $",#3,M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       860N=7-((KN(K)+128);42)
810NT=1;IF&(22)=16 GOTO 5
826CX=0;GI=40;PRINT"# OF ROLLS:",#2,N,
830IFTR(K)=0 GOTO800
840NT=20;FORD=1TON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   77¢Forz=1T02¢¢;I=I+1;NEXT2;I=¢;Got07¢¢
                                                                                                                                                                                                                                                                                                                                                                                65\partial X = 75; CI = 4\partial PRINT" WIN 8",#3, M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       850BOX-40,0,44,44,1;BOX-40,0,42,42,2
860L-RND(6);X-40;GOSUBB90+(LX10)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              87¢BOX4¢, 6,44,44,1;BOX4¢,6,42,42,2
88¢R-RND(6);X-4¢;GOSUB89¢+(RX1¢)
                                                                                                                                                                             56βCX=β;PRINT"YOU HAVE $",#3,π,
                                                                                                                             54¢PRINT"CRAP OUT "; RETURN
                                                                               51 PRINT"A NATURAL",; RETURN
                                                                                                                                                                                                                                                                                                                                                                                                                     7¢¢for K=1ToP+3;@(K)=¢;Nextk
                                                                                                  520PRINT"CRAPS",; RETURN
                                                             5$$CX =- 2$; CY = 3$; RETURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78ØCX=-4Ø; CY=-4Ø; RETURN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      89ønextd; nt=1; return
                                                                                                                                                                                                                      58øY=Y+1; NEXTZ; Y=Ø
                                                                                                                       530PRINT"A MATCH
                                                                                                                                                                                                   570FOR Z=1TO100
                                                                                                                                                                                                                                                                                                                                                                                                                                        71ØFORK=1TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74ØFORK-1TO P
                                                                                                                                                                                                                                                                                                   62øFORZ=1TO2
                                           160000055g
                                                                                                                                                                                                                                            590000150
                                                                                                                                                                                                                                                                                                                                                                                                  66¢GOTO55¢
                                                                                                                                                              55øT=T+M
                       150N=-H
                                                                                                                                                                                                                                                                                   61ønt=8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  76ønextk
                                                                                                                                                                                                                         1øggosúb78ø;inpur"# of platers:"P;if p)4 P=4
11øiff-1 K=1;gosub 8øø;gotollø
12øgoto7øø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420NU-49; NU-51; NU-53; NU-98; NU-49; NU-48; NU-53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                POGOSUB 146 PRINT" ### TOU LOSE ####
                                                                                                                                                      MAKE SELECTION
                                                           5CLEAR; NT=#f; FC=84; BC=24
1PPRINT; PRINT" * * * ARCADE DICE * * *
                                                                                                  20PRINT; PRINT; PRINT" 1 ELECTRONIC DICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NU=98; NU=49; NU=48; NU=48; NU=48
                                                                                                                                                            501F&(23)=8 GLEAR; GOTO 1006
601F&(22)=8 GLEAR; K=1; T=0; GOTO150
                                                                                                                                                                                                                                                                                                                                                                                   1901f4(22)=16 GOTO 5
200GOSUB140;PRINT" BET: 8",#3, N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       250IF 3=7 GOSUB 510;GOTO600
260IF S=11 GOSUB 510;GOTO600
270IF S=2 GOSUB 520;GOTO400
280IF S=3 GOSUB 520;GOTO400
290IF S=12 GOSUB 520;GOTO400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3000SUB500; PRINT"ROLL AGAIN",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   340IF A=S GOSUB 530; GOTOGOG
350IF A=7 GOSUB 540; GOTO460
                                                                                                                                                                                                                                                                                                                       166BOX 6,36,86,9,2
176BOX 6,46,166,8,2
186M=((KN(1)+128);28)+1
                                                                                                                                                                                                                                                                                   140CX--751CY-401RETURN
                                                                                                                                                                                                                                                                                                                                                                                                                             21øIF TR(1)-Ø GOTO 18Ø
                                                                                                                                           OPRINT; PRINT; PRINT"
       1. ARCADE DICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23 gaosab Spo
                                                                                                                                                                                                                                                                                                                                                                                                                                                   22000SUB 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31 paosubaga
32 paosubaga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6000TO 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30A-L+R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24ØS=L+R
                                                                                                                                                                                                                                                                                                           56NT=1
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948GOSUB966; GOSUB97f; GOSUB989; RETURN 958GOSUB97f; GOSUB98f; GOSUB996; RETURN 968BOX X, F, 6, 6, 1; RETURN 978BOX X+12, 12, 6, 6, 1; BOX X-12, -12, 6, 6, 1; 98øBOX X-12,12,6,6,1;BOX X+12,-12,6,6,1; 920cosub960; cosub970; refurn 936GOSUB976; GOSUB986; RETURN 91¢cosub97¢; return 900000UB960 RETURN RETURN RETURN

99øbox x-12,ø,6,6,1;Box x+12,ø,6,6,1;RETURN

command PRINT SZ must indicate at least 14, a little inconsistently. The program uses almost all of the BASIG UNIT's memory. The inside the quotation marks, they should be as shown above) even though it was typed Keep all the spacing tight (except if not, eliminate lines 1 & 2.

The program operates as follows:

of players for electronic LINES 100 - 120 selects the number LINES #1 - 70 set up the menue

dice

on the dice, determining both LINES 220 - 360 compares the numbers rolled LINES 140 - 210 sets up player bet for craps game

winning and losing combinations LINES 400 - 460 is the loser routine for craps LINES 500 - 540 specify winning and losing

give player total and returns combinations LINES 550 -590

600 -650 is the winner routine for craps LINES 700 - 730 enters each player's roll on for next bet LINES

selects the winner for electronic dice (highest combination) electronio dice - 780 LINES 740

selects number of times dice roll LINES 800 - 830

LINES 840 - 890 roll dice (random selection) and draws frame for dice select dot combinations

LINES 900 - 950 select dot combina LINES 960 - 990 draw dots on dice

After everyone has thier turn, the winner is rolling. After the combination is displayed, Number of rolls is selected by knob on hand control, pulling the trigger will begin the enter the number of players, then press go. to four players to play in rotation, just controls. First menu selection allows up control shifts to the next hand control. ARCADE DICE is played with the hand immediately selected.

number of rolls is selected as above. Score The second menu selection allow player to place bet with knob and trigger, then is automatically indicated.

ection stages of rolls or bet, which reset To return to menu, press Zero (0) on keypad. This can only be done during selautomatically.

the separate sections in other combinations, or modifying the size and location of the dice. Electronic dice can replace regular dice in it is (everyone gets thier own control, but board games, by keeping track of whose turn cannot move out of turn). I hope this will This program can be modified using give someone certain possiblities.

320 Hanna Ave., Bldg. 3, Apt. 8 Mous Fruer, KLAUS GRISMATER LOVELAND, OH MACHINE ACTING UP? Most of us have had problems of intermittent failure, garbage on the screen, keypad or controller malfunction, etc. Bally has set up a number of service centers around the country, primarily to take care of their commercial arcade machines, and most problems are solved by a simple swap of units. New units didn't always work and so some subscribers have had 5,6, or 7 units before they got a good one. I'm on #3 myself. Gunther Dorth, 154 Cornell Ave., Des Plaines, IL 60016 has volunteered to act as a clearing house, requesting information from those of you who have had problems, had them solved, still have them, etc., etc. When writing, send him your serial number.

POKE program that does funny things was sent in by Dick Martin. It keeps changing its own line numbers, and other stuff....

10 INPUT A

20 %(A) = A

30 TV = %(A)

40 GOTO 10

TAPE PROGRAM PURVEYORS might be interested in trying this idea I had the other day - How about a vocal description prior to the program itself, and then some vocal instructions after the program has been loaded. Put some suitable instructions where they will help.

ADS: Sell Bally Computer System complete, includes Panzer/Baron, Clowns, Breakout, Football, Star Battle, Blackjack, Baseball and 4 joysticks. Best offer about \$300. Brand New. Mark Turmell, 4691 S. Elm Dr. Bay City, Mich, 48706 517-684-9189

Listing only for Chuck-a-Luck, a one-player gambling game with graphics. \$1 and self-addressed envelope to Al Nowak, 10632 S.Kenneth, Oak Lawn IL 60453

CORRECTION to the Handbook (sample page on p.83) noted by Chuck Thomka. On p.109, the labels of columns MCØ and MC1 should be reversed. The same table is properly shown on p.123

ARCADIAN

Robert Fabris, PRINTER 3626 Morrie Dr. San José, CA 95127





