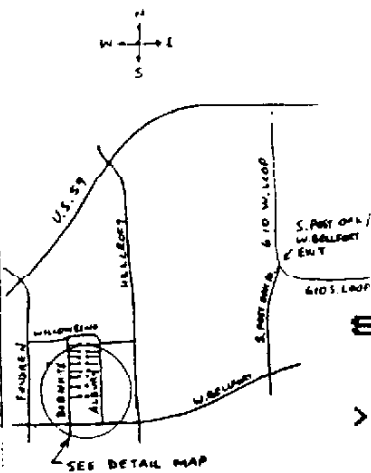
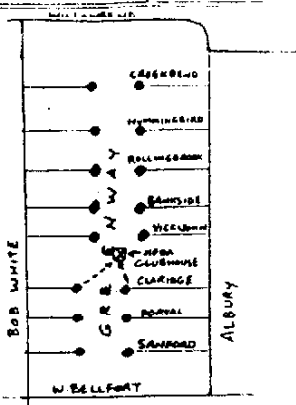


• CLARIDGE SAC
EITHER SIDE OF
CLARIDGE DR

IN THE GREENWAY
AT CLARIDGE DR
HOUSTON, TX 77046



HOUSTON USERS GROUP

HUG NEWS
APRIL 1989

MEETING SCHEDULE
SUNDAY MAY 14 1:00
AGENDA: DISK DRIVES -- Possibly a
----- P_R_BASE DISCUSSION-----
 >> **New Place and Time: NPOA Clubhouse**
Claridge Drive (see map) Key 5302
2nd Sunday each month (we hope!)

HUG TIBBS - 24-hour BBS - CLOSED UP ! Meetings: Feb. 12, 88 // Mar. 12, 89
CALL the PHOENIX -- 713-537-0741 ! Apr. 09, 89 // May. 14, 89

The Houston Users Group is organized to promote the use of the TI-99/4A Home Computer and the Myarc Geneve (TM). We invite persons of similar interest to meet with us. HUG is a non-profit group and is not affiliated with TEXAS INSTRUMENTS, INC.

IN THIS ISSUE

Articles:
 TIGERCUB PD Software Disks Listing ERROR CODES Listing REFERENCE SHEET of 4A Information, Puget Sounds 99ers...

1989 HUG OFFICERS

President --- BOB MCCARTHY ...955-7939	BBS SysOp --- Closed Shop	Membership/VP "open" ...498-3047
Soft Libr --- LARRY PIPKIN ...568-1898	Program/VP -- R. LUMPKIN ...469-5089	Nwsltr Libr - BILL MAUTNER ...463-9557
SIG/VP ----- WAYNE JOBE ! ...894-6628	Secretary --- JIM HUTCHINSON..437-1973	Cartr. Libr.- "open" ...991-0979
Treasurer --- RUTH HERMAN ...271-4171	N/L Editor RICHARD LUMPKIN.469-5089	Asst. Editor- BOB SEDDON ...855-7553

NEXT MEETING: MAY 14--1989---- MAP ABOVE:

EXCHANGE LIBRARIANS: Please let me know if you are missing any issues--rtl

BEST BUY of the month is the NEC floppy drives, model FD1053, 1/2 ht, half-power, as shown on pg 536 of the April 89 Computer Shopper; From 'TIMELINE, Inc'; 1490 W. Artesia Blvd; Gardena, CA 90247; 1-800-872-8878 -- \$55.00 each. These are outstanding drives from a mechanical and electrical design standpoint, new and un-used, built in 1987. Very heavy cast frame, surface mount IC's, direct-drive. I bought two, and both arrived aligned and running exactly on speed, which MANY "surplus" units DO NOT!

I consider these to be comparable in quality to the TEAC 55's, and much better than the Fujitsu's and Misu's I have seen, mechanically. They use +5v=460 ma and +12v=210ma (390ma max. at start-up), so two will work from the supplies in MOST PEB boxes. SOME PEB's have different regulators, and IF the regulators are not properly heatsinked, they will not carry the full current anyway! These drives also work at 6ms, and have jumpers to set several unusual functions: the front LED can be set to work from the standard 'access' call, or from other running conditions. Jumpers I used, from Front Of Drive: 1) set of three=no jumpers; 2) set of five labeled 'LED'=#3 and #5; 3) set of five (above LED) labeled 'MON HS', #1 on MON end and #1 on HS end; 4) set of three pins, 'HDE'= center-to-#2; 5) at back, set of three pins, 'DC6' = center-to-#1; at back, set of seven pairs, 'MX (DX) USE' = MX is not jumpered, and '3,2,1,0' is for DSK4,DSK3,..2..1 plus 'USE'=#2. My LED comes ON only when there is a disk IN the drive and it is running. You can use 'LED'=#2 and #4 for a standard LED signal for anytime the drive is called, which is the usual arrangement.

I have mine in the PEB as #1, and #2, and the Tandon externally as #3, at 20 ms, and the NEC 3.5" drive externally as #4. This seems to have eliminated a lot of the funny problems on disk copies which I had previously had, except for the conflicts between disk managers and the Myarc Card! The Remex is going to go to the HUG meetings so we can use 25 disks, since it works ok from the TI Controller cards anyway! Might also NOTE that TIMELINE takes credit cards, AND they also have the NEC 3.5" drives for \$60.00 each, model FD1035, which I have written about previously. They are a regular advertiser in C.S., and carry Hard Drives, etc also. If you happen to check with them on these drives, you might ask about quantity prices for Group orders, and IF you buy these and have any other information to contribute, pro or con, please let me know. TKS...r.lumpkin.///

We wish to give credit to the PUGET SOUND 99'ERS who printed this All Purpose Handy Dandy Reference sheet in their APRIL 85 Newsletter.

QUICK REFERENCE SHEET

COLOR CODES		PATTERN IDENTIFIER CONVERSION TABLE		ERROR CODES	
COLOR	VALUE	FIRST	SECOND	COMMAND OR STATEMENT	TYPE OF ERROR
TRANSPARENT	1	0	0	1	DRIVE NOT FOUND
BLACK	2	0	0	2	DEVICE OR FILE WRITE PROTECTED
MED. GREEN	3	0	0	3	BAD OPEN ATTRIBUTE
LT. GREEN	4	0	0	4	ILLEGAL OPERATION
DARK BLUE	5	0	0	5	OUT OF SPACE
LT. BLUE	6	0	0	6	ATTEMPT TO READ PACT
DK. RED	7	0	0	7	END OF FILE
CYAN	8	0	0	8	DEVICE ERROR or HARDWARE ERROR
MED. RED	9	0	0	9	FILE ERROR - File or disk does not exist
LT. RED	10	1	0	A	
DK. YELLOW	11	1	0	B	
LT. YELLOW	12	1	0	C	
DK. GREEN	13	1	0	D	
MAGENTA	14	1	0	E	
GRAY	15	1	1	F	
WHITE	16	1	1	F	

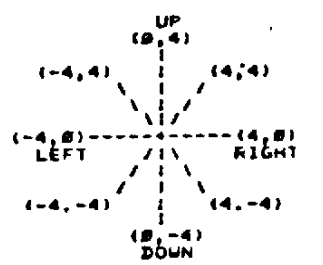
ASCII CODES

CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER	CODE	CHARACTER
30	0	65	A	99	c	133	GO	150	NEXT		
31	1	66	B	100	d	134	GOTO	151	READ		
32	2	67	C	101	e	135	GOSUB	152	STOP		
33	3	68	D	102	f	136	RETURN	153	DELETE		
34	4	69	E	103	g	137	DEF	154	REM		
35	5	70	F	104	h	138	DIM	155	ON		
36	6	71	G	105	i	139	END	156	PRINT		
37	7	72	H	106	j	140	FOR	157	CALL		
38	8	73	I	107	k	141	LET	158	OPTION		
39	9	74	J	108	l	142	BREAK	159	OPEN		
40	10	75	K	109	m	143	UNBREAK	160	CLOSE		
41	11	76	L	110	n	144	TRACE	161	SUB		
42	12	77	M	111	o	145	UNTRACE	162	DISPLA		
43	13	78	N	112	p	146	ELSE	163	INPUT		
44	14	79	O	113	q	147	DATA	164	ACCEPT		
45	15	80	P	114	r	148	RESTORE	165	ERROR		
46	16	81	Q	115	s	149	RANDOMIZE				

CALL KEY VALUE OF KEYSTROKES

CHARACTER SETS	CODE	KEYSTROKE
SET	1	FCTN 7
30-31	2	FCTN 4
32-39	3	FCTN 1
40-47	4	FCTN 2
48-55	5	FCTN 3
56-63	6	FCTN 5
64-71	7	FCTN 3
72-79	8	FCTN 5
80-87	9	FCTN D
88-95	10	FCTN X
96-103	11	FCTN E
104-111	12	FCTN 4
112-119	13	ENTER
120-127	14	FCTN 5
128-131	15	FCTN 9
132-143		
144-151		
152-159		

JOYSTICK RETURN VALUES



EXTENDED BASIC STATEMENTS

ASC	PRESS	COMMENTS	ACCEPT	DISTANCE KEY	ON WARNING	SCREEN
2	CTRL A	START OF HEADING	CHAR	END	OPEN	SOUND
3	CTRL B	START OF TEXT	CHARPAT	ERR	LINK	OPTION BASE
4	CTRL C	END OF TEXT	CHARSET	FOR	LINPUT	PATTERN
5	CTRL D	END OF TRANS.	CLEAR	GOSUB	LOCATE	POSITION
6	CTRL E	INQUIRY	COINC	GOTO	MAGNIFY	PRINT
7	CTRL F	ACKNOWLEDGE	COLOR	HCHAR	MOTION	RANDOMIZE
8	CTRL G	BELL	DATA	IF THEN	NEXT	READ
9	CTRL H	BACKSPACE	DEF	IMAGE	ON BREAK	REM
10	CTRL I	HORIZ. TAB	DELETYPE	INT	ON ERROR	RESTORE
11	SHFT/ENTR	LINE FEED	DIM	INPUT	ON GOSUB	RETURN
12	CTRL K	VERTICAL TAB	DISPLAY	JOYST	ON GOTO	SAY

CALL LOADS

ADDRESS	PARAMETERS	DESCRIPTION
32740	POKE 0-255	RATE of FLASH of CURSOR
31700	POKE 192	DISABLE SPRITE action
31804	PEEK X,Y	Returns to Title Screen
	POKE X,Y	
31884	POKE 16	DISABLE QUIT KEY(Fctn =)
	POKE 32	DISABLES SOUND
	POKE 64	DISABLES AUTOSPRITE MOTION
31860	POKE 4	Goes to Console BASIC after 'NEW' is typed
	POKE 0	Runs DSK1.LOAD
31076	POKE 0-25	Highest # SPRITE in motion
31075	POKE 63,255	Disables Disks,NEW +re.mem
31831	POKE 0/128	Unprotects/Protects program
31942	POKE -2	Returns to TITLE SCREEN
31942	POKE 55	Runs DSK1.LOAD
31952	PEEK A,I,C,D	Recovers program with LOAD
20472	PEEK A	0=Speech Syn. 1=No Speech

*Printed
8-85*

TI-99/4A ERROR CODE REFERENCE CHART

The following courtesy BBBB BBS in Clinton, MD. (301-292-1482), thanks to Bob, the sysop there:

TI BASIC ERROR CODES PERTAINING TO THE DISK SYSTEM

#:	First Digit	Second Digit
0:	OPEN	Can't find specified disk drive
1:	CLOSE	Disk or Program is write protected
2:	INPUT	Bad Open Attribute
3:	PRINT	Illegal Operation
4:	RESTORE	Disk Full or too many files open
5:	OLD	Attempt to read past EOF
6:	SAVE	Device Error
7:	DELETE	File Error
8:	Nil	
9:	EOF	

EXTENDED BASIC ERROR CODES

10	Numeric Overflow
14	Syntax Error
16	Illegal After Subroutine
19	Name Too Long
20	Unrecognized Character
24	\$/# Mismatch
28	Improperly Used Name
36	Image Error
39	Memory Full
40	Stack Overflow
43	NEXT without FOR
44	FOR-NEXT Nesting
47	Must Be In Subroutine
48	Recursive Subroutine CALL
49	Missing SUBEND
51	RETURN without GOSUB
54	String Truncated
56	Speech \$ Too Long
57	Bad Subscript
60	Line Not Found
61	Bad Line #
62	Line Too Long
67	Can't CONTINUE
69	Command Illegal In Program
70	Only Legal In Program
74	Bad Argument
78	No Program Present
79	Bad Value
80	Nil
81	Incorrect Argument List
82	Nil
83	Input Error
84	Data Error
97	Protection Violation
109	File Error
138	I/O Error
135	Subroutine Not Found

I/O ERRORS

#:	First Digit	Second Digit
0:	OPEN	Device Not Found
1:	CLOSE	Write Protected
2:	INPUT	Bad Open Attribute
3:	PRINT	Invalid I/O Command
4:	RESTORE	Out of Space
5:	OLD	End Of File
6:	SAVE	Device Error
7:	DELETE	File/Data Mismatch

DISK MANAGER ERROR CODES

#:	First Digit	Second Digit
1:	OTHER	Rec not found
2:	SEEK/STEP	Cyclic Redundancy
3:	INPUT	Lost Data
4:	PRINT	Write Protect
5:	Nil	Write Fault
6:	Nil	No Disk Drive
7:	Nil	Invalid Input
8:	Nil	
9:	Special error code for Comprehensive tests.	

EDITOR/ASSEMBLER ERROR CODES X/B ERROR EQUATES

ERRNO	>0200	2	Numeric Overflow
ERRSYN	>0300	3	Syntax Error
ERRIBS	>0400	4	Illegal after Subprgm
ERRNQS	>0500	5	Unmatched Quotes
ERRNTL	>0600	6	Name too long
ERRSNM	>0700	7	\$/# Mismatch
ORROBE	>0800	8	Option Base Error
ERRMOV	>0900	9	Improperly Used Name
ERRIM	>0A00	10	Image Error
ERRMEM	>0B00	11	Memory Full
ERRSO	>0C00	12	Stack Overflow
ERRNWF	>0D00	13	NEXT without FOR
ERRFNN	>0E00	14	FOR-NEXT Nesting
ERRSNS	>0F00	15	Must Be In Subprogram
ERRRSC	>1000	16	Recursive Subprogram
ERRMS	>1100	17	Missing SUBEND
ERRRWG	>1200	18	RETURN without GOSUB
ERRST	>1300	19	String Truncated
ERRRBS	>1400	20	Bad Subscript
ERRSSL	>1500	21	Speech \$ Too Long
ERRLNF	>1600	22	Line Not Found
ERRBLN	>1700	23	Bad Line Number
ERRLT	>1800	24	Line Too Long
ERRCC	>1900	25	Can't CONTINUE
ERRCIP	>1A00	26	Illegal in Program
ERRQLP	>1B00	27	Only Legal in Program
ERRBA	>1C00	28	Bad Argument
ERRNPP	>1D00	29	No Program Present
ERRBV	>1E00	30	Bad Value
ERRIAL	>1F00	31	Incorrect Argument List
ERRINP	>2000	32	Input Error
ERRDAT	>2100	33	Data Error
ERRFE	>2200	34	File Error
ERRIO	>2400	36	I/O Error
ERRSNF	>2500	37	Subprogram Not Found
ERRPV	>2700	39	Protection Violation
ERRINV	>2800	40	Unrecognized Character
WRNNO	>2900	41	Numeric Overflow
WRNST	>2A00	42	String Truncated
WRNPP	>2B00	43	No Program Present
WRNINP	>2C00	44	Input Error
WRNIO	>2D00	45	I/O Error

TI-WRITER ERROR CODES

0:	Indicates Disk Controller not on; or that Diskette is not Initialized
6:	No Disk in Drive; or disk is upside down; or Drive is Not on.
7:	No Disk In Drive
00:	Illegal use of LoadF, PrintF, or an error in using those commands
02:	No file on Diskette with Filename as Used
04:	Diskette is Full
06:	PrintF Command in progress was interrupted, or: Disk Door Was Opened while red light was on
07:	Invalid Filename (I.E., Name too long or using invalid characters)
15:	Invalid Disk Drive Number, or Device

LOADER ERROR CODES

#:	First Digit	Second Digit
0:	OPEN	Device Not Found
1:	CLOSE	Write Protected
2:	INPUT	Bad Open Attribute
3:	PRINT	Invalid I/O Command
4:	RESTORE	Out of Space
5:	OLD	End Of File
6:	SAVE	Device Error
7:	DELETE	File/Data Mismatch
8:		Memory Overflow
9:		Not Used
10:		Illegal Tag
11:		Checksum Error
12:		Unresolved Reference

From SAN DIEGO TI-86 - FEB 86

TI-PD public domain software for the TI-99/4A computer, \$1.50 per disk postpaid (minimum 8 disks please); number of sectors filled is indicated in parentheses). For a 9-page catalog listing all titles and authors, send \$1 which is deductible from first order. (specify TI-PD catalog) Offered as a copying service only, without warranty other than that copies are equal to the original. Make checks payable to Tigercub Software (no credit card orders). Send to Tigercub Software, 156 Collingwood Ave., Columbus OH 43213.

- 600. Sam Moore Jr. Music #1 (341)
- 601. Sam Moore Jr. Music #2 (343)
- 602. Sam Moore Jr. Music #3 (348)
- 603. Sam Moore Jr. Music #4 (337)
- 604. Bill Knecht Hymns (334)
- 605. Christmas Music (318)
- 606. Holiday Music (339)
- 607. Great Songs by Bill Knecht (351)
- 608. Music by Bill Knecht (295)
- 609. March Music (329)
- 610. Tigercub Country Music (356)
- 611. Christmas Sing-Along (351)
- 612. J. Stephen Foster Music #1 (332)
- 613. J. Stephen Foster Music #2 (317)
- 614. Bach Music Programs (338)
- 615. Sing-Along Music (351)
- 616. Some of the Best Music (343)
- 617. Classical Music (340)
- 618. Assorted Music (346)
- 619. Chopin's Polonaise (280)
- 620. Assorted Music #2 (351)
- 621. Hamilton U6 Music Package #1 (346)
- 622. Assorted Music #2 (349)
- 623. A Diskfull of J.S. Bach (345)
- 624. Assorted Music #4 (358)
- 625. Assorted Music #5 (347)
- 626. J.S. Bach Music (340)
- 627. Assorted Music #6 (354)
- 628. Some of the Very Best (349)
- 629. Dillie Hebert's Music (340)
- 630. Gregory Rashall Music Master (287)
- 631. Assorted Music #7 (352)
- 632. Sonata for Pianoforte (222)
- 633. Sonata for Pianoforte BS/SD
- 634. Strange Music (337)
- 635. Chuck Berry Tunes (218)
- 636. Christmas Songs w/Graphics (310)
- 637. Assorted Music #9 (337)
- 638. Classical Music #2 (338)
- 639. Assorted Music #10 (347)
- 640. Marches and College Songs (336)
- 641. Another Sing-Along (345)
- 642. Sing-Along Music #2 (236)
- 643. Christmas Music #2 (351)
- 644. Christmas Sing-Along #2 (340)
- 645. Classical Music #3 (352)
- 646. Assorted Music #11 (350)
- 647. Music Doodlers and TINYtunes (302)
- 648. Rhapsodie in Blue (287)
- 649. Assorted Music #8 (354)
- 650. Christmas Music w/Graphics 2 (357)
- 651. Sorgan II (145)
- 652. Christmas Music w/Graphics 3 (352)
- 653. Pop Demo V1.1 (225)
- 654. Christmas Music w/Graphics 4 (255)
- 655. Assorted Music #12 (349)
- 701. Musical Education (350)
- 702. Musical Education #2 (318)

- 703. Musical Education #3 (188)
- 710. American Flags (360)
- 711. Flags of the World (345)
- 712. Geography - U.S. States (341)
- 713. Geography - U.S. States #2 (212)
- 714. World Geography (179)
- 730. American History (48)
- 750. Alphabet w/Speech (343)
- 751. Children's Programs w/speech (357)
- 752. Alphabet for Preschool (329)
- 753. Children's Prog. w/Speech #2 (335)
- 755. Shapes, Colors, Directions (173)
- 760. Spelling (324)
- 770. Vocabulary and Reading (293)
- 780. Preschool Math (341)
- 790. Elementary Addition, Subtract (257)
- 791. Addition & Subtraction (337)
- 796. Multiplication, Division (348)
- 797. Multiplication, etc. (224)
- 800. Higher Math (353)
- 801. Higher Math #2 (228)
- 810. Typing Practice (223)
- 815. Morse Code Teacher (155)
- 820. Health (354)
- 821. Health #2 (145)
- 830. Physics (111)
- 840. Nature (277)
- 850. Chemistry (277)
- 860. Astronomy (342)
- 861. Astronomy #2 (304)
- 870. Religion (346)
- 871. Religion #2 (42)
- 890. Teacher's Helpers (203)
- 900. Home Utilities (351)
- 901. Home Utilities #2 (342)
- 902. Home Utilities #3 (350)
- 907. Screen Drawing, Doodling (160)
- 909. High-Resolution Drawing (287)
- 910. Charts & Graphs (178)
- 912. Calculators & Converters (345)
- 913. Calculators & Convert. #2 (147)
- 915. Financial Math (339)
- 916. Financial Programs (356)
- 918. Checkbook Programs (203)
- 920. Business Programs (146)
- 950. Genealogy
- 970. Astrology, Numerology etc. (171)
- 980. Radio Utilities (220)
- 990. Sports Programs (329)
- 1100. Character & Sprite Editors (254)
- 1101. Programmer's Utilities (346)
- 1102. Sorts, Scrabbles, Searches (228)
- 1105. Auto-loaders (217)
- 1106. Disk Catalogers (268)
- 1107. Character Sets etc. (353)
- 1110. Assembly Utilities (357)
- 1111. Assembly Utilities, Routines (328)
- 1112. New Horizon Assembly Util. (269)
- 1119. Hardware Utilities (169)
- 1120. Sound Effects (197)
- 1130. Disk Labels & Jackets (284)
- 1131. Gemini Printer Utilities (224)
- 1132. Word Processing Utilities (182)
- 1133. Banners, Graphs, etc. (203)
- 1135. Speech Utilities & Demos (355)
- 1140. Music Composers (288)
- 1141. Assembly Music Compiler (265)
- 1145. Telecommunications Aids (342)
- 1150. Programming Tutorials (348)
- 1160. Assembly Tutorials #1 (231)
- 1161. Assembly Tutorials #2 (289)
- 1162. Assembly Tutorials #3 (357)
- 1163. Assembly Tutorials #4 (358)

- 1164. Assembly Tutorials #5 (340)
- 1300. Mathematical Games (133)
- 1301. Brain Games #1 (344)
- 1302. Brain Games #2 (345)
- 1303. Brain Games #3 (352)
- 1304. Brain Games #4 (352)
- 1305. Two-Player Brain Games (335)
- 1306. Brain Games #5 (345)
- 1307. Master Mind (322)
- 1310. Memory Games (235)
- 1315. Sargon Chess (155)
- 1320. Mazes #1 (342)
- 1321. Maze Games #2 (346)
- 1322. Maze Games #3 (338)
- 1330. Hangman Games (335)
- 1331. Wheel of Fortune #1 (249)
- 1332. Wheel of Fortune #2 (248)
- 1333. Word Games (310)
- 1340. Games by Roland Trueeman (333)
- 1350. Card Games #1 (352)
- 1351. Card Games #2 (348)
- 1352. Card Games #3 (94)
- 1356. Dice Games (354)
- 1360. Board Games (321)
- 1361. Bingo (73)
- 1362. Checkers (238)
- 1363. Board Games #2 (287)
- 1367. Gambling Games (237)
- 1381. Bowling (289)
- 1382. Golf (139)
- 1383. Billiards, Boxing, etc. (250)
- 1400. Adventure Disk #1 (360)
- 1401. Adventure Disk #2 (306)
- 1402. Adventure Disk #3 (329)
- 1403. Adventure Disk #4 (324)
- 1415. Hamaurabi Games (268)
- 1416. Text Games #1 (313)
- 1417. Text Adventures (340)
- 1425. Graphics/Text Adventures (354)
- 1426. Graphics/Text Adv. #2 (322)
- 1427. Graphics/Text Adv. #3 (325)
- 1430. Road Race Games (356)
- 1431. Keyboard Maneuvering (349)
- 1432. Road Crossing Games (344)
- 1433. Road Crossing Games #2 (175)
- 1434 Keyboard Games (347)
- 1435. Keyboard Maneuvering #2 (354)
- 1436. Slot Machines (343)
- 1437. Keyboard Games #2 (353)
- 1438. Keyboard Games #3 (343)
- 1440. QBert Games (288)
- 1445. King Kong Type Games (351)
- 1455. Assembly Games (231)
- 1456. Assembly Games #2 (346)
- 1460. Children's Programs (345)
- 1461. Fun Games for Kids (353)
- 1462. Easy Games for Kids (346)
- 1470. Great Games (342)
- 1471. Assorted Games #1 (348)
- 1472. Assorted Games #2 (343)
- 1473. Texas Games Medley w/speech (346)
- 1474. Sea Battle Games (329)
- 1475. Joystick Games (342)
- 1476. Joystick Games #2 (355)
- 1477. Joystick Games #3 (346)
- 1478. Joystick Games #4 (338)
- 1479. Two-Player Joystick Games (353)
- 1480. Two-Player Keyboard Games (353)
- 1481. Joystick Games #5 (345)
- 1500. Kaleidoscopes & Displays (262)
- 1501. Sprite Displays (200)
- 1505. Poetry, Prose & Nonsense (128)