

TIC-TAC-TOE programs and example games (my first 'large-scale' computer program) Summer 1957

1 GAILY COLORED PACK

1	BLR	0140	1999		0000	1	0117	0145	1045
2	REG	P1977	1984		0000	1	0117	0145	
3	REG	M1985	1994		0000	1	0117	0145	
4	REG	B0022	0033		0000	1	0117	0145	
5	REG	T0016	0021		0000	1	0117	0145	
6	SYN	HMOVE	0001		0000	1	0117	0145	
7	SYN	MMOVE	0002		0000	1	0117	0145	
8	SYN	ONEDA	0003		0000	1	0117	0145	
9	SYN	BRAIN	0004		0000	1	0117	0145	
10	SYN	BR2	0005		0000	1	0117	0145	
11	SYN	RLOUT	0006		0000	1	0117	0145	
12	SYN	OUT2	0007		0000	1	0117	0145	
13	SYN	END	0008		0000	1	0117	0145	
14	SYN	SKIP	0009		0000	1	0117	0145	
15	SYN	ERROR	0010		0000	1	0117	0145	
16	SYN	TRANS	0011		0000	1	0117	0145	
17	SYN	ENDD	0013		0000	1	0117	0145	
18	SYN	ENDL	0036		0000	1	0117	0145	
19	SYN	ENDW	0012		0000	1	0117	0145	
20	SYN	ADD	0014		0000	1	0117	0145	
21	SYN	TSUBR	0015		0000	1	0117	0145	
22	SYN	MFRST	0034		0000	1	0117	0145	
23	SYN	TR2	0035		0000	1	0117	0145	
24	SYN	CL2	0139		0000	1	0117	0145	
25	SYN	CLEAN	0140	<i>END PGP Starts</i>	0000	1	0117	0145	
26	HLT	HLT	1234		0000	1	1234	0054	
27	LDD	DISP1			0054	69	0057	0060	
28	STD	DISPL			0060	24	0063	0066	
29	LDD	END1			0066	69	0069	0072	
30	STD	END			0072	24	0008	0061	
31	RAU		8003		0061	60	0064	8003	
32	STL	P0001	SUBTR		0064	20	1977	0080	
33	SUBTR	SUP HIGHP			0080	11	0083	0037	
34	NZU		FIX1		0037	44	0041	0042	
35	AUP	REPET	8003		0041	10	0044	8003	
36	FIX1	STL SCORE	CLEAN		0042	20	0047	0140	
37	CLEAN	NOP 0000	CL2		0140			139	
38	TR2	NOP 0000	TRANS		0035			11	
39	TRANS	RAU GETT			0011	60	0114	0119	
40		SUP MAXGT			0119	11	0122	0077	
41	NZU		RESET		0077	44	0081	0082	
42	AUP	PLUS1			0081	10	0084	0039	
43	STU	GETT	8003		0039	21	0114	8003	
44	GETT	RAL T0001	TRIN		0114	65	0016	0071	
45	RESET	RAU GETT1			0082	60	0085	0089	
46	STU	GETT	8003		0089	21	0114	8003	
47	TRIN	AUP TRM			0071	10	0074	0079	
48	LDD	FTRAN	TSUBR		0079	69	0132	0015	
49	TSUBR	STD FINTR			0015	24	0068	0121	
50	STU	TR			0121	21	0076	0129	
51	AUP	9DA			0129	10	0133	0087	
52	STU	MAXTR			0087	21	0092	0045	
53	RAL	8002	SHIFT		0045	65	8002	0053	
54	SHIFT	SLT 0001	TR		0053	35	0001	0076	
55	ADD	RAL 8002			0014	65	8002	0073	
56	AUP	TR			0073	10	0076	0131	
57	SUP	MAXTR			0131	11	0092	0097	
58	BMI		FINTR		0097	46	0050	0068	
59	AUP	8001			0050	10	8001	0107	
60	AUP	ONEDA			0107	10	0003	0058	

61		STU	TR		0058	21	0076	0130
62		RAL	8002	SHIFT	0130	65	8002	0053
63	FTRAN	RAU	8000		0132	60	8000	0040
64		BMI	ERROR		0040	46	0010	0094
65		NZU		MFRST	0094	44	0048	0034
66		SUP	B0010		0048	11	0031	0135
67		BMI		ERROR	0135	46	0038	0010
68		SLT	0004		0038	35	0004	0049
69		AUP		8003	0049	10	0052	8003
70		LDD	M0010		0052	69	1994	0098
71		STD	HMOVE		0098	24	0001	0104
72		RAU	SCORE		0104	60	0047	0051
73		SLT	0001		0051	35	0001	0108
74		AUP	8000		0108	10	8000	0065
75		SLT	0001		0065	35	0001	0123
76		STU	SCORE	BRAIN	0123	21	0047	0004
77	BRAIN	NOP	0000	BR1	0004			595
78	OUT2	NOP	0000	ROUT	0007			6
79	ROUT	RAU	MMOVE		0006	60	0002	0109
80		SLT	0004		0109	35	0004	0070
81		AUP		8003	0070	10	0124	8003
82		RAL	M0000		0124	65	1984	0090
83		AUP	SCORE		0090	10	0047	0101
84		AUP	8002		0101	10	8002	0110
85		STU	SCORE		0110	21	0047	0100
86		RSL	8002		0100	66	8002	0111
87		ALO	B0009		0111	15	0030	0086
88		SLT	0004		0086	35	0004	0099
89		LDD	SLT1		0099	69	0102	0055
90		SDA	SLT1		0055	22	0102	0105
91		RAU	B0009	SLT1	0105	60	0030	0102
92	SLT1	SLT	0009		0102	35	0009	0075
93		AUP	DISPL		0075	10	0063	0067
94		STU	DISPL	SKIP	0067	21	0063	0009
95	SKIP	RSL	8000		0009	66	8000	0117
96		NZE		ENDS	0117	45	0120	0125
97		ALO	B0009		0120	15	0030	0136000
98		SLT	0004		0136	35	0004	0103000
99		LDD	SLT2		0103	69	0056	0062000
100		SDA	SLT2		0062	22	0056	0112000
101		RAU	B0007	SLT2	0112	60	0028	0056000
102	SLT2	SLT	0009		0056	35	0009	012700
103		AUP	DISPL		0127	10	0063	011800
104		STU	DISPL	END	0118	21	0063	000800
105		ENDS	RAU	DISPL	0125	60	0063	000800
106	END1	NOP	0000	NEXT	0069	00	0000	012600
107	ENDW	AUP	2BIL	PUNCH	0012	10	0115	0078
108	ENDD	AUP	3BIL	PUNCH	0013	10	0116	0078
109	ENDL	AUP	1BIL	PUNCH	0036	10	0091	0078
110	NEXT	HLT	1234	FTRAN	0126	01	1234	0132
111	PUNCH	ALO	GMNUM		0078	15	0134	0043
112		ALO	B0001		0043	15	0022	0128
113		STL	P0001		0128	20	1977	0137
114		STD	GMNUM		0137	24	0134	0088
115		STU	P0000		0088	21	1982	0138
116		LDD	SCORE		0138	69	0047	0106
117		STD	P0008		0106	24	1984	0093
118		PCH	P0001	HLT	0093	71	1977	0000
119	ERROR	RAU	DISPL		0010	60	0063	0095
120		AUP	4BIL	HLT	0095	10	0113	0000
121	4BIL	40	0000		113	40	0000	0000
122	3BIL	30	0000		116	30	0000	0000

123	2BIL	20	0000		115	20	0000	0000
124	1BIL	10	0000		91	10	0000	0000
125	ONEDA	00	0001	0000	0003	00	0001	0000
126	TRM	STU	M0001	ADD	0074	21	1985	0014
127	GETT1	RAL	T0001	TRIN	0085	65	0016	0071
128	PLUS1	RAL	T0007	TRIN	0084	65	0022	0071
129	MAXGT	RAL	T0006	TRIN	0122	65	0021	0071
130	DISP1	50	0000		57	50	0000	0000
131	HIGHP	STL	P0008	SUBTR	0083	20	1984	0080
132	REPET	STL	P0009	SUBTR	0044	20	1985	0080
133	T0001	12	3456	7891	0016	12	3456	7891
134	T0002	14	7258	3695	0017	14	7258	3695
135	T0003	32	1654	9871	0018	32	1654	9871
136	T0004	78	9456	1235	0019	78	9456	1235
137	T0005	98	7654	3211	0020	98	7654	3211
138	T0006	96	3852	7415	0021	96	3852	7415
139	B0001	00	0000	0001	0022	00	0000	0001
140	B0002	00	0000	002	0023	00	0000	0002
141	B0003	00	0000	0003	0024	00	0000	0003
142	B0004	00	0000	0004	0025	00	0000	0004
143	B0005	00	0000	0005	0026	00	0000	0005
144	B0006	00	0000	006	0027	00	0000	0006
145	B0007	00	0000	007	0028	00	0000	0007
146	B0008	00	0000	0008	0029	00	0000	0008
147	B0009	00	0000	0009	0030	00	0000	0009
148	B0010	00	0000	10	0031	00	0000	0010
149	B0011	00	0000	0011	0032	00	0000	0011
150	B0012	00	0000	0012	0033	00	0000	0012
151	9DA	00	0009	0000	0133	00	0009	0000

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	ENTRY	PACK	B
2	REG M1985		1994
3	REG T0016		0021
4	REG B0022		0033
5	SYN HMOVE		0001
6	SYN MMOVE		0002
7	SYN ONEDA		0003
8	SYN BRAIN		0004
9	SYN BR2		0005
10	SYN RLOUT		0006
11	SYN OUT2		0007
12	SYN END		0008
13	SYN SKIP		0009
14	SYN ERROR		0010
15	SYN TRANS		0011
16	SYN ENDD		0013
17	SYN ENDL		0036
18	SYN ENDW		0012
19	SYN ADD		0014
20	SYN TSUBR		0015
21	SYN MFRST		0034
22	SYN TR2		0035
23	SYN CL2		0139
24	SYN CLEAN		0140
25	SYN MTURN		0695
26	BLR 0101		1999
27	BLR 0064		0064
28	BLR 0080		0080
29	BEGIN LDD END1		
30	STD END		

0000 69 0053 0056
0056 24 0008 0061

31		RAU	0064	8003		0061	60	0064	8003
33	0064	STL	P0001	0080		0064	20	1977	0080
34	0080	SUP	HIGHP			0080	11	0083	0037
35		NZU		FIX1		0037	44	0041	0042
36		AUP	REPET	8003		0041	10	0044	8003
37	FIX1	STL	SCORE	CL2		0042	20	0047	0139
38	TR2	RAL	15S			0035	65	0038	0043
39		SLT	0001			0043	35	0001	0049
40		ALO	8003			0049	15	8003	0057
41		STL	15S			0057	20	0038	0091
42		STU	M0010	CLEAN		0091	21	1994	0140
43	TRANS	RAL	RANDM			0011	65	0065	0069
44		SLT	0001			0069	35	0001	0075
45		ALO	8003			0075	15	8003	0084
46		STL	RANDM			0084	20	0065	0068
47		NZU	MTURN	MFRST		0068	44	0695	0034
48	TSUBR	STD	FINTR			0015	24	0070	0073
49		STU	TR			0073	21	0078	0081
50		AUP	9DA			0081	10	0085	0039
51		STU	MAXTR	OUPPR		0039	21	0094	0097
52	OUPPR	RAL	8002	SHIFT		0097	65	8002	0055
53	SHIFT	SLT	0001	TR		0055	35	0001	0078
54	ADD	RAL	8002			0014	65	8002	0074
55		AUP	TR			0074	10	0078	0086
56		SUP	MAXTR			0086	11	0094	0099
57		BMI		FINTR		0099	46	0052	0070
58		AUP	8001			0052	10	8001	0059
59		AUP	ONEDA			0059	10	0003	0058
60		STU	TR	OUPPR		0058	21	0078	0097
61	OUT2	RAU	SCORE			0007	60	0047	0051
62		SLT	0001			0051	35	0001	0060
63		AUP	MMOVE			0060	10	0002	0062
64		STD	HMOVE			0062	24	0001	0054
65		STU	SCORE	END		0054	21	0047	0008
66	SKIP	RAU	SCORE	END		0009	60	0047	0008
67	END1	NOP	END1	BRAIN		0053		53	0004
68	RLOUT	RAU	SCORE			0006	60	0047	0063
69		SLT	0001			0063	35	0001	0071
70		AUP	MMOVE			0071	10	0002	0066
71		STD	HMOVE			0066	24	0001	0067
72		STU	SCORE	BR2		0067	21	0047	0005
73	ENDW	ALO	7S	PUNCH		0012	15	0072	0077
74	ENDL	ALO	6S	PUNCH		0036	15	0089	0077
75	ENDD	ALO	8S	PUNCH		0013	15	0076	0077
76	PUNCH	STL	P0006			0077	20	1982	0087
77		STU	P0008			0087	21	1984	0088
78		RAL	GMNUM			0088	65	0092	0048
79		ALO	B0001			0048	15	0022	0079
80		STL	P0001			0079	20	1977	0082
81		STD	GMNUM			0082	24	0092	0045
82		PCH	P0001	BEGIN		0045	71	1977	0000
83	6S	66	6666	6666		0089	66	6666	6666
84	7S	77	7777	7777		0072	77	7777	7777
85	8S	88	8888	8888		0076	88	8888	8888
86	15S	15	3515	7595		0038	15	3515	7595
87	RANDOM	11	0001	0110		0065	11	0001	0110
88	REPET	STL	P0009	0080		0044	20	1985	0080
89	HIGHP	STL	P0008	0080		0083	20	1984	0080
90	9DA	00	0009	0000		0085		9	0000
91	T0001	12	3456	7891		0016	12	3456	7891
92	T0002	14	7258	3695		0017	14	7258	3695
93	T0003	32	1654	9871		0018	32	1654	9871

94	T0004	78	9456	1235	0019	78	9456	1235
95	T0005	98	7654	3211	0020	98	7654	3211
96	T0006	96	3852	7415	0021	96	3852	7415
97	B0001	00	0000	0001	0022			1
98	B0002	00	0000	0002	0023			2
99	B0003	00	0000	0003	0024			3
100	B0004	00	0000	0004	0025			4
101	B0005	00	0000	0005	0026			5
102	B0006	00	0000	0006	0027			6
103	B0007	00	0000	0007	0028			7
104	B0008	00	0000	0008	0029			8
105	B0009	00	0000	0009	0030			9
106	B0010	00	0000	10	0031			10
107	B0011	00	0000	0011	0032			11
108	B0012	00	0000	0012	0033			12
109	ONEDA	00	0001	0000	0003			
110	GMNUM	00	0000		92			

1 BRAIN I

1	BOP							
2	REG	M1985	1994					
3	REG	P1977	1984					
4	REG	T0016	0021					
5	REG	B0022	0033					
6	SYN	HMOVE	0001					
7	SYN	MMOVE	0002					
8	SYN	ONEDA	0003					
9	SYN	BRAIN	0004					
10	SYN	BR2	0005					
11	SYN	RLOUT	0006					
12	SYN	OUT2	0007					
13	SYN	END	0008					
14	SYN	SKIP	0009					
15	SYN	ERROR	0010					
16	SYN	TRANS	0011					
17	SYN	ENDD	0013					
18	SYN	ENDL	0036					
19	SYN	ENDW	0012					
20	SYN	ADD	0014					
21	SYN	TSUBR	0015					
22	SYN	MFRST	0034					
23	SYN	TR2	0035					
24	SYN	CL2	0139					
25	SYN	CLEAN	0140					
26	BLR	0500	1999					
27	BLR	0000	0140					
28	REG	X1957	1966					
29	REG	Y1967	1976					
30	REG	R0141	0267					
31	REG	J0268	0319					
32	BLA	0159	0159					
33	BLA	0162	0162					
34	BLA	0176	0176					
35	BRAIN	RAL	HMOVE		0004	65	0001	0355
36		SLT	0004		0355	35	0004	0365
37		ALO	8002		0365	15	0368	8002
38		RAL	X0000		0368	65	1956	0361
39		SLT	0004		0361	35	0004	0321
40		ALO	8002		0321	15	0324	8002
41		RAL	Y0000		0324	65	1966	0371
42		SLT	0004		0371	35	0004	0331
43		LDD	SHIFT		0331	69	0334	0337
44		SDA	SHIFT	RESET	0337	22	0334	0387
45	INITR	RAL	J0052	SHIFT	0350	65	0319	0334
46	SHIFT	SLT	0009		0334	35	0009	0405
47		RAL	8002		0405	65	8002	0363
48		SRT	0009		0363	30	0009	0333
49		ALO	ROUTN		0333	15	0336	0341
50		ALO	GOTOR	8002	0341	15	0344	8002
51	GOTOR	NOP	0000	R0001	0344			141
52	END1	STD	HOLD1		0400	24	0353	0356
53		SLO	EXTRA		0356	16	0159	0413
54		STL	HOLD2		0413	20	0367	0320
55		RAU	8001		0320	60	8001	0327
56		MPY	B0004		0327	19	0025	0346
57		STL	ROUTN		0346	20	0336	0339
58		RAL	HOLD2		0339	65	0367	0421
59		ALO	B0001	OUT	0421	15	0022	0377
	END2	STD	HOLD1	SLO	0450	24	0353	0406

60	SLO	SLO	GOTOR		0406	16	0344	0349
61		STL	HOLD2		0349	20	0367	0370
62		RAU	ROUTN		0370	60	0336	0391
63		MPY	B0002		0391	19	0023	0394
64		ALO	14		0394	15	0347	0351
65		STL	ROUTN		0351	20	0336	0389
66		RAL	HOLD2		0389	65	0367	0471
67		ALO	B0004	OUT	0471	15	0025	0377
68	END2A	STD	HOLD1		0500	24	0353	0456
69		SLO	B0002	SLO	0456	16	0023	0406
70	END3	STD	HOLD1		0401	24	0353	0506
71		AUP	15		0506	10	0359	0463
72		STU	HOLD2		0463	21	0367	0420
73		SUP	15		0420	11	0359	0513
74		MPY	B0002		0513	19	0023	0444
75		ALO	29		0444	15	0397	0451
76		STL	ROUTN		0451	20	0336	0439
77		RAL	HOLD2	OUT	0439	65	0367	0377
78	END4	STD	HOLD1		0501	24	0353	0357
79		STL	HOLD2		0357	20	0367	0470
80		LDD	REST4		0470	69	0323	0176
81		STD	RESET	MIDDLE	0176	24	0387	0340
82	REST4	SRT	0004		0323	30	0004	0383
83		SLO	HOLD2		0383	16	0367	0322
84		NZE	ERROR	OUTD2	0322	45	0010	0427
85	OUTW	STD	HOLD1		0352	24	0353	0407
86		LDD	ENDW		0407	69	0012	0415
87		STD	END	MIDDLE	0415	24	0008	0340
88	OUTD	STD	HOLD1		0402	24	0353	0457
89		LDD	ENDD		0457	69	0013	0366
90		STD	END	MIDDLE	0366	24	0008	0340
91	OUTD2	LDD	ENDD		0427	69	0013	0416
92		STD	END	SKIP	0416	24	0008	0009
93	OUT	SLT	0004		0377	35	0004	0437
94		ALO	FUDGE		0437	15	0390	0345
95		STL	RESET	MIDDLE	0345	20	0387	0340
96	MIDDLE	RAL	HOLD1		0340	65	0353	0507
97		SLT	0004		0507	35	0004	0417
98		ALO	8002		0417	15	0372	8002
99		RAL	Y0000		0372	65	1966	0422
100		SLT	0004		0422	35	0004	0433
101		ALO	8002		0433	15	0386	8002
102		LDD	X0000		0386	69	1956	0409
103		STD	MMOVE	GO0UT	0409	24	0002	0455
104	GO0UT	LDD	R0058		0455	69	0198	0452
105		STD	MFRST	ROUT	0452	24	0034	0006
106	1ST M	RSL	M0010		0502	66	1994	0399
107		STU	1980		0399	21	1980	0483
108		DIV	B0005		0483	14	0026	0436
109		NZU	RT5		0436	44	0489	0440
110		LDD	69		0489	69	0342	0395
111		STD	ROUTN		0395	24	0336	0490
112		RAL	32DA		0490	65	0343	0447
113		LDD	B0001	CONTF	0447	69	0022	0325
114	RT5	LDD	75		0440	69	0393	0396
115		STD	ROUTN		0396	24	0336	0441
116		RAL	33DA		0441	65	0494	0449
117		LDD	B0005	CONTF	0449	69	0026	0325
118	CONTF	STD	MMOVE		0325	24	0002	0505
119		ALO	FUDGE		0505	15	0390	0445
120		STL	RESET	GO0UT	0445	20	0387	0455
121	END2F	STD	HOLD1		0403	24	0353	0358

122		SLO	GOTOR		0358	16	0344	0499
123		SLO	36		0499	16	0453	0408
124		STL	HOLD2		0408	20	0367	0472
125		ALO	ROUTN		0472	15	0336	0491
126		SLO	21		0491	16	0495	0503
127		STL	ROUTN		0503	20	0336	0392
128		RAL	HOLD2	OUT	0392	65	0367	0377
129	END3F	STD	HOLD1		0354	24	0353	0458
130		STU	HOLD2		0458	21	0367	0373
131		MPY	B0002		0373	19	0023	0446
132		ALO	92		0446	15	0404	0459
133		STL	ROUTN		0459	20	0336	0442
134		RAL	HOLD2		0442	65	0367	0423
135		ALO	40	OUT	0423	15	0326	0377
136	END4F	STD	HOLD1		0454	24	0353	0508
137		ALO	49		0508	15	0411	0465
138		LDD	113		0465	69	0418	0473
139		STD	ROUTN	OUT	0473	24	0336	0377
140	CLEAN	LDD	120		0140	69	0443	0496
141		STD	ROUTN		0496	24	0336	0492
142		LDD	INITR		0492	69	0350	0504
143		STD	RESET		0504	24	0387	0493
144		RAL	T0001		0493	65	0016	0374
145		AUP	TRX		0374	10	0477	0381
146		LDD		TSUBR	0381	69	0384	0015
147		RAL	T0001		0384	65	0016	0424
148		AUP	TRY		0424	10	0328	0434
149		LDD		TSUBR	0434	69	0487	0015
150		LDD	1ST M		0487	69	0502	0509
151		STD	MFRST	TRANS	0509	24	0034	0011
152	J0001	08	0198	2993	0268	8	0198	2993
153	J0002	04	3054	1552	0269	4	3054	1552
154	J0003	02	0130	1451	0270	2	0130	1451
155	J0004	08	8808	0100	0271	8	8808	0100
156	J0005	08	8828	2232	0272	8	8828	2232
157	J0006	08	5998	8989	0273	8	5998	8989
158	J0007	08	6998	9988	0274	8	6998	9988
159	J0008	00	9020	9099	0275		9020	9099
160	J0009	00	8800	0388	0276		8800	0388
161	J0010	00	4010	1110	0277		4010	1110
162	J0011	00	0560	7607	0278		560	7607
163	J0012	08	8808	0200	0279	8	8808	0200
164	J0013	08	8388	3334	0280	8	8388	3334
165	J0014	01	8168	8811	0281	1	8168	8811
166	J0015	08	8338	3387	0282	8	8338	3387
167	J0016	07	7777	9788	0283	7	7777	9788
168	J0017	05	5595	5858	0284	5	5595	5858
169	J0018	03	3383	3938	0285	3	3383	3938
170	J0019	01	1161	6811	0286	1	1161	6811
171	J0020	08	1888	8879	0287	8	1888	8879
172	J0021	06	6166	6869	0288	6	6166	6869
173	J0022	04	4484	1442	0289	4	4484	1442
174	J0023	02	2272	8228	0290	2	2272	8228
175	J0024	00	0080	7900	0291		80	7900
176	J0025	08	8498	4888	0292	8	8498	4888
177	J0026	06	6866	6968	0293	6	6866	6968
178	J0027	04	8444	4499	0294	4	8444	4499
179	J0028	02	2222	6288	0295	2	2222	6288
180	J0029	00	0700	8080	0296		700	8080
181	J0030	08	8988	8897	0297	8	8988	8897
182	J0031	06	6846	8666	0298	6	6846	8666
183	J0032	08	1293	4995	0299	8	1293	4995

SLO ROUTN

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184	J0033	00	1432	5665	0300	1432	5665	
185	J0034	09	9010	0900	0301	9010	0900	
186	J0035	08	1812	1118	0302	1812	1118	
187	J0036	07	2347	5467	0303	2347	5467	
188	J0037	06	8677	6777	0304	8677	6777	
189	J0038	05	8566	6665	0305	8566	6665	
190	J0039	09	4359	2559	0306	4359	2559	
191	J0040	08	8558	5556	0307	8558	5556	
192	J0041	08	8788	7879	0308	8788	7879	
193	J0042	06	9686	9696	0309	9686	9696	
194	J0043	04	4884	8944	0310	4884	8944	
195	J0044	02	2262	2866	0311	2262	2866	
196	J0045	00	0073	7070	0312	73	7070	
197	J0046	09	9929	2629	0313	9929	2629	
198	J0047	07	6567	7767	0314	6567	7767	
199	J0048	05	5535	3365	0315	5535	3365	
200	J0049	03	3633	5663	0316	3633	5663	
201	J0050	00	0030	4000	0317	30	4000	
202	J0051	00	0050	0600	0318	50	0600	
203	J0052	00	2341	5665	0319	2341	5665	
204	R0001	LDD	B0003	END2	0141	69	0024	0450
205	R0002	LDD	B0002	END2	0142	69	0023	0450
206	R0003	LDD	B0008	END2	0143	69	0029	0450
207	R0004	LDD	B0008	END2	0144	69	0029	0450
208	R0005	LDD	B0007	END2	0145	69	0028	0450
209	R0006	LDD	B0004	END2	0146	69	0025	0450
210	R0007	LDD	B0003	END2	0147	69	0024	0450
211	R0008	LDD	B0008	END2	0148	69	0029	0450
212	R0009	NOP	0009	ERROR	0149	9	0010	
213	R0010	RAL	ROUTN		0150	65	0336	0497
214		SLO	B0005		0497	16	0026	0348
215		BMI		RT2	0348	46	0360	0410
216		RAL	T0002	RT9	0360	65	0017	0474
217	RT2	RAL	T0003	RT9	0410	65	0018	0474
218	RT9	AUP	TRY	ENDRT	0474	10	0328	0484
219	ENDRT	LDD	G02BR-	TSUBR	0484	69	0338	0015
220	R0011	LDD	B0003	END2A	0151	69	0024	0500
221	R0012	LDD	B0001	END2A	0152	69	0022	0500
222	R0013	LDD	B0006	END2A	0153	69	0027	0500
223	R0014	LDD	B0007	END2A	0154	69	0022	0500
224	R0015	LDD	B0007	OUTW	0155	69	0028	0352
225	R0016	RAU	B0001		0156	60	0022	0378
226		LDD	B0004	END3	0378	69	0025	0401
227	R0017	LDD	B0008	OUTW	0157	69	0029	0352
228	R0018	RAU	B0002		0158	60	0023	0428
229		LDD	B0006	END3	0428	69	0027	0401
230	R0020	RAU	B0003	END3	0160	60	0024	0401
231	R0021	RAU	B0004		0161	60	0025	0329
232		LDD	B0003	END3	0329	69	0024	0401
233	R0023	NOP	0023	ERROR	0163	23	0010	
234	R0024	LDD	B0002	OUTW	0164	69	0023	0352
235	R0025	RAU	B0005		0165	60	0026	0431
236		LDD	B0006	END3	0431	69	0027	0401
237	R0026	RAU	B0012		0166	60	0033	0388
238		LDD	B0003	END3	0388	69	0024	0401
239	R0027	RAU	B0009		0167	60	0030	0335
240		LDD	B0008	END3	0335	69	0029	0401
241	R0028	RAU	B0008		0168	60	0029	0385
242		LDD	B0007	END3	0385	69	0028	0401
243	R0029	RAL	HMOVE		0169	65	0011	0460
244		DIV	B0002		0460	14	0023	0435
245		NZU	RT3		0435	44	0398	0448

246		RAU	B0006	END 3	0448	60	0027	0401
247	RT3	RAU	B0007		0398	60	0028	0485
248		LDD	B0003	END 3	0485	69	0024	0401
249	R0030	RAL	HMOVE		0170	65	0001	0510
250		DIV	B0002		0510	14	0023	0486
251		NZU	RT4		0486	44	0498	0461
252		RAU	B0011		0461	60	0032	0438
253		LDD	B0004	END 3	0438	69	0025	0401
254	RT4	RAU	B0010		0498	60	0031	0488
255		LDD	B0007	END 3	0488	69	0028	0401
256	R0031	LDD	B0007	OUTW	0171	69	0028	0352
257	R0032	LDD	B0004	OUTW	0172	69	0025	0352
258	R0033	RAU	13		0173	60	0376	0481
259		LDD	B0004	END 3	0481	69	0025	0401
260	R0034	LDD	B0009	OUTW	0174	69	0030	0352
261	R0035	RAU	14		0175	60	0347	0511
262		LDD	B0007	END 3	0511	69	0028	0401
263	R0037	RAU	15		0177	60	0359	0364
264		LDD	B0001	END 3	0364	69	0022	0401
265	R0038	RAU	16		0178	60	0332	0162
266		LDD	B0007	END 3	0162	69	0028	0401
267	R0039	NOP	0039	ERROR	0179	39	0010	
268	R0040	LDD	B0006	OUTW	0180	69	0027	0352
269	R0041	RAL	B0009		0181	65	0030	0362
270		LDD	B0008	END 4	0362	69	0029	0501
271	R0042	LDD	B0004	OUTW	0182	69	0025	0352
272	R0043	RAL	B0009		0183	65	0030	0412
273		LDD	B0007	END 4	0412	69	0028	0501
274	R0044	LDD	B0007	OUTW	0184	69	0028	0352
275	R0045	RAL	B0009		0185	65	0030	0462
276		LDD	B0004	END 4	0462	69	0025	0501
277	R0046	RAL	B0006		0186	65	0027	0382
278		LDD	B0004	END 4	0382	69	0025	0501
279	R0047	RAL	B0009		0187	65	0030	0512
280		LDD	B0002	END 4	0512	69	0023	0501
281	R0048	NOP	0048	ERROR	0188	48	0010	
282	R0049	RAL	B0008		0189	65	0029	0414
283		LDD	B0002	END 4	0414	69	0023	0501
284	R0050	RAL	B0009		0190	65	0030	0464
285		LDD	B0003	END 4	0464	69	0024	0501
286	R0051	RAL	B0007		0191	65	0028	0514
287		LDD	B0003	END 4	0514	69	0024	0501
288	R0052	RAL	B0009		0192	65	0030	0515
289		LDD	B0006	END 4	0515	69	0027	0501
290	R0053	LDD	B0009	OUTW	0193	69	0030	0352
291	R0054	LDD	B0004	OUTW	0194	69	0025	0352
292	R0055	RAL	B0007		0195	65	0028	0466
293		LDD	B0004	END 4	0466	69	0025	0501
294	R0056	RAL	B0007		0196	65	0028	0516
295		LDD	B0006	END 4	0516	69	0027	0501
296	R0057	RAL	B0004		0197	65	0025	0379
297		LDD	B0006	END 4	0379	69	0027	0501
298	R0058	NOP	0058	ERROR	0198	58	0010	
299	R0059	RAL	B0003		0199	65	0024	0429
300		LDD	B0006	END 4	0429	69	0027	0501
301	R0060	LDD	B0007	OUTW	0200	69	0028	0352
302	R0061	RAL	B0009		0201	65	0030	0467
303		LDD	B0003	END 4	0467	69	0024	0501
304	R0062	RAL	B0009		0202	65	0030	0517
305		LDD	B0008	END 4	0517	69	0029	0501
306	R0063	LDD	B0002	OUTW	0203	69	0023	0352
307	R0064	LDD	B0006	OUTW	0204	69	0027	0352

308	R0065	RAL	B0008		0205	65	0029	0468	
309		LDD	B0006	END4	0468	69	0027	0501	
310	R0066	LDD	B0003	OUTW	0206	69	0024	0352	
311	R0067	RAL	B0003		0207	65	0024	0479	
312		LDD	B0008	END4	0479	69	0029	0501	
313	R0068	NOP	0068	ERROR	0208		68	0010	
314	R0069	LDD	B0009	OUTW	0209	69	0030	0352	
315	R0070	LDD	B0004	OUTW	0210	69	0025	0352	
316	R0071	LDD	B0007	END2F	0211	69	0028	0403	
317	R0072	LDD	B0009	END2F	0212	69	0030	0403	
318	R0073	LDD	B0009	END2F	0213	69	0030	0403	
319	R0074	LDD	B0003	END2F	0214	69	0024	0403	
320	R0075	LDD	B0003	END2F	0215	69	0024	0403	
321	R0076	LDD	B0009	END2F	0216	69	0030	0403	
322	R0077	LDD	B0001	END2F	0217	69	0022	0403	
323	R0078	NOP	0078	ERROR	0218		78	0010	
324	R0079	RAL	T0002	RT8	0219	65	0017	0375	
325		RT8	AUP	TRX	EMRT	0375	10	0477	0432
326		LDD	602BR	TSUBR	0432	69	0338	0015	
327	R0080	RAL	T0003	RT8	0220	65	0018	0375	
328	R0081	RAL	T0006	RT8	0221	65	0021	0375	
329	R0082	RAL	T0004	RT8	0222	65	0019	0375	
330	R0083	LDD	B0004	OUTW	0223	69	0025	0352	
331	R0084	RAU	B0001	SM	0224	60	0022	0478	
332	SM	LDD	B0005	END3F	0478	69	0026	0354	
333	R0085	LDD	B0005	OUTW	0225	69	0026	0352	
334	R0086	RAU	B0002	7M	0226	60	0023	0330	
335	7M	LDD	B0007	END3F	0330	69	0028	0354	
336	R0087	RAU	B0003		0227	60	0024	0380	
337		LDD	B0008	END3F	0380	69	0029	0354	
338	R0088	RAU	B0002	7M	0228	60	0023	0430	
339		LDD	B0007	END3F	0430	69	0028	0354	
340	R0089	RAL	T0002	RT9	0229	65	0017	0474	
341	R0090	RAL	T0006	RT9	0230	65	0021	0474	
342	R0091	RAL	T0005	RT9	0231	65	0020	0474	
343	R0092	NOP	0092	ERROR	0232		92	0010	
344	R0093	LDD	B0002	OUTW	0233	69	0023	0352	
345	R0094	RAU	B0004	END3F	0234	60	0025	0354	
346	R0095	RAU	B0005	7M	0235	60	0026	0482	
347		LDD	B0007	END3F	0482	69	0028	0354	
348	R0096	RAU	B0007	END3F	0236	60	0028	0354	
349	R0097	RAU	B0008		0237	60	0029	0518	
350		LDD	B0002	END3F	0518	69	0023	0354	
351	R0098	RAU	B0006		0238	60	0027	0369	
352	3M	LDD	B0003	END3F	0369	69	0024	0354	
353	R0099	RAL	T0002	RT9	0239	65	0017	0474	
354	R0100	LDD	B0009	OUTW	0240	69	0030	0352	
355	R0101	RAU	B0009		0241	60	0030	0419	
356		LDD	B0004	END3F	0419	69	0025	0354	
357	R0102	LDD	B0009	OUTW	0242	69	0030	0352	
358	R0103	NOP	0103	ERROR	0243		103	0010	
359	R0104	LDD	B0003	OUTW	0244	69	0024	0352	
360	R0105	LDD	B0008	OUTW	0245	69	0029	0352	
361	R0106	LDD	B0004	OUTW	0246	69	0025	0352	
362	R0107	LDD	B0007	OUTW	0247	69	0028	0352	
363	R0108	RAL	B0001		0248	65	0022	0480	
364		LDD	B0003	END4F	0480	69	0024	0454	
365	R0109	LDD	B0009	OUTW	0249	69	0030	0352	
366	R0110	LDD	B0005	OUTW	0250	69	0026	0352	
367	R0111	LDD	B0006	OUTW	0251	69	0027	0352	
368	R0112	LDD	B0008	OUTW	0252	69	0029	0352	
369	R0113	LDD	B0003	OUTW	0253	69	0024	0352	

370	R0114	NOP	0114	ERROR	0254	114	0010
371	R0115	RAL	B0002		0255	65	0023 0469
372		LDD	B0006	END 4F	0469	69	0027 0454
373	R0116	LDD	B0007	OUTW	0256	69	0028 0352
374	R0117	LDD	B0006	OUTW	0257	69	0027 0352
375	R0118	LDD	B0004	OUTD	0258	69	0025 0402
376	R0119	LDD	B0007	OUTD	0259	69	0028 0402
377	R0120	LDD	B0004	OUTW	0260	69	0025 0352
378	R0121	LDD	B0005	END1	0261	69	0026 0400
379	R0122	LDD	B0001	END1	0262	69	0022 0400
380	R0123	LDD	B0005	END1	0263	69	0026 0400
381	R0124	RAL	T0003	RT8	0264	65	0018 0375
382	R0125	RAL	T0002	RT8	0265	65	0017 0375
383	R0126	RAL	T0006	RT8	0266	65	0021 0375
384	R0127	RAL	T0004	RT8	0267	65	0019 0375
385	32DA	00	0032	0000	0343	32	0000
386	33DA	00	0033	0000	0494	33	0000
387	TRX	STU	X0001	ADD	0477	21	1957 0014
388	TRY	STU	Y0001	ADD	0328	21	1967 0014
389	G02BR	NOP	0000	BRA IN	0338		4
390	FUDGE	RAL	J0000	SHIFT	0390	65	0267 0334
391	13	00	0000	13	0376		13
392	14	00	0000	14	0347		14
393	15	00	0000	15	0359		15
394	16	00	0000	16	0332		16
395	17	00	0000	17	0519		17
396	21	00	0000	21	0495		21
397	29	00	0000	29	0397		29
398	36	00	0000	36	0453		36
399	40	00	0	40	0326		40
400	49	00	0000	49	0411		49
401	69	00	0000	69	0342		69
402	75	00	0000	75	0393		75
403	92	00	0000	92	0404		92
404	113	00	0000	0113	0418		113
405	120	00	0000	120	0443		120
406	EXTRA	NOP	0000	R0121	0159		261
407		PAT					

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B R A I N I B

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	B O P							
1	REG	M1985	1994					
2	REG	P1977	1984					
3	REG	T0016	0021					
4	REG	B0022	0033					
5	SYN	HMOVE	0001					
6	SYN	MMOVE	0002					
7	SYN	ONEDA	0003					
8	SYN	BRAIN	0004					
9	SYN	BR2	0005					
10	SYN	RLOUT	0006					
11	SYN	OUT2	0007					
12	SYN	END	0008					
13	SYN	SKIP	0009					
14	SYN	ERROR	0010					
15	SYN	TRANS	0011					
16	SYN	ENDD	0013					
17	SYN	ENDL	0036					
18	SYN	ENDW	0012					
19	SYN	ADD	0014					
20	SYN	TSUBR	0015					
21	SYN	MFRST	0034					
22	SYN	TR2	0035					
23	SYN	CL2	0139					
24	SYN	CLEAN	0140					
25	BLR	0-000476	1999					
26	BLR	0000	0100					
27	REG	X1957	1966					
28	REG	Y1967	1976					
29	REG	R0141	0267					
30	REG	J0268	0319					
31	BLA	0159	0159					
32	BLA	0162	0162					
33	BLA	0176	0176					
34	B R A I N	RAL	HMOVE		0004	65	0001	0105
35		SLT	0004		0105	35	0004	0115
36		ALO		8002	0115	15	0118	8002
37		RAL	X0000		0118	65	1956	0111
38		SLT	0004		0111	35	0004	0121
39		ALO		8002	0121	15	0124	8002
40		RAL	Y0000		0124	65	1966	0321
41		SLT	0004		0321	35	0004	0131
42		LDD	SHIFT		0131	69	0134	0137
43		SDA	SHIFT	RESET	0137	22	0134	0337
44	INITR	RAL	J0052	SHIFT	0350	65	0319	0134
45	SHIFT	SLT	0009		0134	35	0009	0355
46		RAL	8002		0355	65	8002	0113
47		SRT	0009		0113	30	0009	0133
48		ALO	ROUTN		0133	15	0136	0341
49		ALO	GOTOR	8002	0341	15	0344	8002
50	GOTOR	NOP	0000	R0001	0344			141
51	END1	STD	HOLD1		0400	24	0103	0106
52		SLO	EXTRA		0106	16	0109	0363
53		STL	HOLD2		0363	20	0117	0120
54		RAU	8001		0120	60	8001	0127
55		MPY	B0004		0127	19	0025	0346
56		STL	ROUTN		0346	20	0136	0339
57		RAL	HOLD2		0339	65	0117	0371
58		ALO	B0001	OUT	0371	15	0022	0327
59	END2	STD	HOLD1	SLO	0450	24	0103	0356

60	SLO	SLO	GOTOR		0356	16	0344	0349
61		STL	HOLD2		0349	20	0117	0320
62		RAU	ROUTN		0320	60	0136	0391
63		MPY	B0002		0391	19	0023	0394
64		ALO	14		0394	15	0347	0101
65		STL	ROUTN		0101	20	0136	0389
66		RAL	HOLD2		0389	65	0117	0421
67		ALO	B0004	OUT	0421	15	0025	0327
68	END2A	STD	HOLD1		0351	24	0103	0406
69		SLO	B0002	SLO	0406	16	0023	0356
70	END3	STD	HOLD1		0401	24	0103	0456
71		AUP	15		0456	10	0159	0413
72		STU	HOLD2		0413	21	0117	0370
73		SUP	15		0370	11	0159	0463
74		MPY	B0002		0463	19	0023	0444
75		ALO	29		0444	15	0397	0451
76		STL	ROUTN		0451	20	0136	0439
77		RAL	HOLD2	OUT	0439	65	0117	0327
78	END4	STD	HOLD1		0102	24	0103	0107
79		STL	HOLD2		0107	20	0117	0420
80		LDD	REST4		0420	69	0123	0126
81		STD	RESET	MIDLE	0126	24	0337	0340
82	REST4	SRT	0004		0123	30	0004	0333
83		SLO	HOLD2		0333	16	0117	0471
84		NZE	ERROR	OUTD2 SKIP	0471	45	0010	0125
85	OUTW	STD	HOLD1	MIDLE	0352	24	0103	0357
86		LDD	ENDW		0357	69	0012	0365
87		STD	END	MIDLE	0365	24	0008	0340
88	OUTD	STD	HOLD1	MIDLE	0402	24	0103	0407
89		LDD	ENDD		0407	69	0013	0116
90		STD	END	MIDLE	0116	24	0008	0340
91	OUTD2	LDD	ENDD		0125	69	0013	0366
92		STD	END	SKIP	0366	24	0008	0009
93	OUT	SLT	0004		0327	35	0004	0387
94		ALO	FUDGE		0387	15	0390	0345
95		STL	RESET	MIDLE	0345	20	0337	0340
96	MIDDLE	RAL	HOLD1		0340	65	0103	0457
97		SLT	0004		0457	35	0004	0367
98		ALO		8002	0367	15	0470	8002
99		RAL	Y0000		0470	65	1966	0122
100		SLT	0004		0122	35	0004	0383
101		ALO		8002	0383	15	0336	8002
102		LDD	X0000		0336	69	1956	0359
103		STD	MMOVE	GOOUT	0359	24	0002	0405
104	GOOUT	LDD	R0058		0405	69	0198	0452
105		STD	MFRST	ROUT	0452	24	0034	0006
106	1ST M	RSL	M0010		0353	66	1994	0399
107		STU	1980		0399	21	1980	0433
108		DIV	B0005		0433	14	0026	0386
109		NZU		RT5	0386	44	0440	0441
110		LDD	69		0440	69	0343	0396
111		STD	ROUTN		0396	24	0136	0342
112		RAL	32DA		0342	65	0395	0449
113		LDD	B0001	CONTF	0449	69	0022	0325
114	RT5	LDD	75		0441	69	0445	0348
115		STD	ROUTN		0348	24	0136	0392
116		RAL	33DA		0392	65	0446	0403
117		LDD	B0005	CONTF	0403	69	0026	0325
118	CONTF	STD	MMOVE		0325	24	0002	0455
119		ALO	FUDGE		0455	15	0390	0447
120		STL	RESET	GOOUT	0447	20	0337	0405
121	END2F	STD	HOLD1		0453	24	0103	0108

122		SL0	GOTOR		0108	16	0344	0104
123		SL0	36		0104	16	0358	0114
124		STL	HOLD2		0114	20	0117	0322
125		AL0	ROUTN		0322	15	0136	0442
126		SL0	21		0442	16	0398	0354
127		STL	ROUTN		0354	20	0136	0393
128		RAL	HOLD2	OUT	0393	65	0117	0327
129	END3F	STD	HOLD1		0404	24	0103	0408
130		STU	HOLD2		0408	21	0117	0372
131		MPY	B0002		0372	19	0023	0448
132		AL0	92		0448	15	0454	0409
133		STL	ROUTN		0409	20	0136	0443
134		RAL	HOLD2		0443	65	0117	0422
135		AL0	40	OUT	0422	15	0375	0327
136	END4F	STD	HOLD1		0458	24	0103	0459
137		AL0	49		0459	15	0112	0417
138		LDD	113		0417	69	0472	0425
139		STD	ROUTN	OUT	0425	24	0136	0327
140	CLEAN	LDD	120		0140	69	0110	0364
141		STD	ROUTN		0364	24	0136	0360
142		LDD	INITR		0360	69	0350	0410
143		STD	RESET		0410	24	0337	0460
144		RAL	T0001		0460	65	0016	0323
145		AUP	TRX		0323	10	0176	0331
146		LDD		TSUBR	0331	69	0334	0015
147		RAL	T0001		0334	65	0016	0373
148		AUP	TRY		0373	10	0326	0381
149		LDD		TSUBR	0381	69	0384	0015
150		LDD	1ST M		0384	69	0353	0361
151		STD	MFRST	TRANS	0361	24	0034	0011
152	J0001	08	0198	2993	0268	8	0198	2993
153	J0002	04	3054	1552	0269	4	3054	1552
154	J0003	02	0130	1451	0270	2	0130	1451
155	J0004	08	8808	0100	0271	8	8808	0100
156	J0005	08	8828	2232	0272	8	8828	2232
157	J0006	08	5998	8989	0273	8	5998	8989
158	J0007	08	6998	9988	0274	8	6998	9988
159	J0008	00	9020	9099	0275		9020	9099
160	J0009	00	8800	0388	0276		8800	0388
161	J0010	00	4010	1110	0277		4010	1110
162	J0011	00	0560	7607	0278		560	7607
163	J0012	08	8808	0200	0279	8	8808	0200
164	J0013	08	8388	3334	0280	8	8388	3334
165	J0014	01	8168	8811	0281	1	8168	8811
166	J0015	08	8338	3387	0282	8	8338	3387
167	J0016	07	7777	9788	0283	7	7777	9788
168	J0017	05	5595	5858	0284	5	5595	5858
169	J0018	03	3383	3938	0285	3	3383	3938
170	J0019	01	1161	6811	0286	1	1161	6811
171	J0020	08	1888	8879	0287	8	1888	8879
172	J0021	06	6166	6869	0288	6	6166	6869
173	J0022	04	4484	1442	0289	4	4484	1442
174	J0023	02	2272	8228	0290	2	2272	8228
175	J0024	00	0080	7900	0291		80	7900
176	J0025	08	8498	4888	0292	8	8498	4888
177	J0026	06	6866	6968	0293	6	6866	6968
178	J0027	04	8444	4499	0294	4	8444	4499
179	J0028	02	2222	6288	0295	2	2222	6288
180	J0029	00	0700	8080	0296		700	8080
181	J0030	08	8988	8897	0297	8	8988	8897
182	J0031	06	6846	8666	0298	6	6846	8666
183	J0032	08	1293	4995	0299	8	1293	4995

184	J0033	00	1432	5665	0300	1432	5665	
185	J0034	09	9010	0900	0301	9	9010	0900
186	J0035	08	1812	1118	0302	8	1812	1118
187	J0036	07	2347	5467	0303	7	2347	5467
188	J0037	06	8677	6777	0304	6	8677	6777
189	J0038	05	8566	6665	0305	5	8566	6665
190	J0039	09	4359	2559	0306	9	4359	2559
191	J0040	08	8558	5556	0307	8	8558	5556
192	J0041	08	8788	7879	0308	8	8788	7879
193	J0042	06	9686	9696	0309	6	9686	9696
194	J0043	04	4884	8944	0310	4	4884	8944
195	J0044	02	2262	2866	0311	2	2262	2866
196	J0045	00	0073	7070	0312		73	7070
197	J0046	09	9929	2629	0313	9	9929	2629
198	J0047	07	6567	7767	0314	7	6567	7767
199	J0048	05	5535	3365	0315	5	5535	3365
200	J0049	03	3633	5663	0316	3	3633	5663
201	J0050	00	0030	4000	0317		30	4000
202	J0051	00	0050	0600	0318		50	0600
203	J0052	00	2341	5665	0319		2341	5665
204	R0001	LDD	B0003	END2	0141	69	0024	0450
205	R0002	LDD	B0002	END2	0142	69	0023	0450
206	R0003	LDD	B0008	END2	0143	69	0029	0450
207	R0004	LDD	B0008	END2	0144	69	0029	0450
208	R0005	LDD	B0007	END2	0145	69	0028	0450
209	R0006	LDD	B0004	END2	0146	69	0025	0450
210	R0007	LDD	B0003	END2	0147	69	0024	0450
211	R0008	LDD	B0008	END2	0148	69	0029	0450
212	R0009	NOP	0009	ERROR	0149		9	0010
213	R0010	RAL	ROUTN		0150	65	0136	0411
214		SLO	B0005		0411	16	0026	0461
215		BM1		RT2	0461	46	0415	0416
216		RAL	T0002	RT9	0415	65	0017	0423
217	RT2	RAL	T0003	RT9	0416	65	0018	0423
218	RT9	AUP	TRY		0423	10	0326	0431
219		LDD	G02BR	TSUBR	0431	69	0434	0015
220	R0011	LDD	B0003	END2A	0151	69	0024	0351
221	R0012	LDD	B0001	END2A	0152	69	0022	0351
222	R0013	LDD	B0006	END2A	0153	69	0027	0351
223	R0014	LDD	B0001	END2A	0154	69	0021	0351
224	R0015	LDD	B0007	OUTW	0155	69	0028	0352
225	R0016	RAU	B0001		0156	60	0022	0377
226		LDD	B0004	END3	0377	69	0025	0401
227	R0017	LDD	B0008	OUTW	0157	69	0029	0352
228	R0018	RAU	B0002		0158	60	0023	0427
229		LDD	B0006	END3	0427	69	0027	0401
230	R0020	RAU	B0003	END3	0160	60	0024	0401
231	R0021	RAU	B0004		0161	60	0025	0129
232		LDD	B0003	END3	0129	69	0024	0401
233	R0023	NOP	0023	ERROR	0163		23	0010
234	R0024	LDD	B0002	OUTW	0164	69	0023	0352
235	R0025	RAU	B0005		0165	60	0026	0481
236		LDD	B0006	END3	0481	69	0027	0401
237	R0026	RAU	B0012		0166	60	0033	0437
238		LDD	B0003	END3	0437	69	0024	0401
239	R0027	RAU	B0009		0167	60	0030	0135
240		LDD	B0008	END3	0135	69	0029	0401
241	R0028	RAU	B0008		0168	60	0029	0483
242		LDD	B0007	END3	0483	69	0028	0401
243	R0029	RAL	HMOVE		0169	65	0001	0162
244		DIV	B0002		0162	14	0023	0484
245		NZU	RT3		0484	44	0138	0338

246		RAU	B0006	END 3	0338	60	0027	0401
247	RT3	RAU	B0007		0138	60	0028	0335
248		LDD	B0003	END 3	0335	69	0024	0401
249	R0030	RAL	HMOVE		0170	65	0001	0362
250		DIV	B0002		0362	14	0023	0385
251		NZU	RT4		0385	44	0412	0462
252		RAU	B0011		0462	60	0032	0388
253		LDD	B0004	END 3	0388	69	0025	0401
254	RT4	RAU	B0010		0412	60	0031	0435
255		LDD	B0007	END 3	0435	69	0028	0401
256	R0031	LDD	B0007	OUTW	0171	69	0028	0352
257	R0032	LDD	B0004	OUTW	0172	69	0025	0352
258	R0033	RAU	13		0173	60	0376	0132
259		LDD	B0004	END 3	0132	69	0025	0401
260	R0034	LDD	B0009	OUTW	0174	69	0030	0352
261	R0035	RAU	14		0175	60	0347	0414
262		LDD	B0007	END 3	0414	69	0028	0401
263	R0037	RAU	15		0177	60	0159	0464
264		LDD	B0001	END 3	0464	69	0022	0401
265	R0038	RAU	16		0178	60	0332	0438
266		LDD	B0007	END 3	0438	69	0028	0401
267	R0039	NOP	0039	ERROR	0179		39	0010
268	R0040	LDD	B0006	OUTW	0180	69	0027	0352
269	R0041	RAL	B0009		0181	65	0030	0485
270		LDD	B0008	END 4	0485	69	0029	0102
271	R0042	LDD	B0004	OUTW	0182	69	0025	0352
272	R0043	RAL	B0009		0183	65	0030	0436
273		LDD	B0007	END 4	0436	69	0028	0102
274	R0044	LDD	B0007	OUTW	0184	69	0028	0352
275	R0045	RAL	B0009		0185	65	0030	0465
276		LDD	B0004	END 4	0465	69	0025	0102
277	R0046	RAL	B0006		0186	65	0027	0382
278		LDD	B0004	END 4	0382	69	0025	0102
279	R0047	RAL	B0009		0187	65	0030	0466
280		LDD	B0002	END 4	0466	69	0023	0102
281	R0048	NOP	0048	ERROR	0188		48	0010
282	R0049	RAL	B0008		0189	65	0029	0467
283		LDD	B0002	END 4	0467	69	0023	0102
284	R0050	RAL	B0009		0190	65	0030	0368
285		LDD	B0003	END 4	0368	69	0024	0102
286	R0051	RAL	B0007		0191	65	0028	0418
287		LDD	B0003	END 4	0418	69	0024	0102
288	R0052	RAL	B0009		0192	65	0030	0468
289		LDD	B0006	END 4	0468	69	0027	0102
290	R0053	LDD	B0009	OUTW	0193	69	0030	0352
291	R0054	LDD	B0004	OUTW	0194	69	0025	0352
292	R0055	RAL	B0007		0195	65	0028	0119
293		LDD	B0004	END 4	0119	69	0025	0102
294	R0056	RAL	B0007		0196	65	0028	0369
295		LDD	B0006	END 4	0369	69	0027	0102
296	R0057	RAL	B0004		0197	65	0025	0329
297		LDD	B0006	END 4	0329	69	0027	0102
298	R0058	NOP	0058	ERROR	0198		58	0010
299	R0059	RAL	B0003		0199	65	0024	0379
300		LDD	B0006	END 4	0379	69	0027	0102
301	R0060	LDD	B0007	OUTW	0200	69	0028	0352
302	R0061	RAL	B0009		0201	65	0030	0419
303		LDD	B0003	END 4	0419	69	0024	0102
304	R0062	RAL	B0009		0202	65	0030	0469
305		LDD	B0008	END 4	0469	69	0029	0102
306	R0063	LDD	B0002	OUTW	0203	69	0023	0352
307	R0064	LDD	B0006	OUTW	0204	69	0027	0352

308	R0065	RAL	B0008		0205	65	0029	0473
309	LDD	B0006	END4		0473	69	0027	0102
310	R0066	LDD	B0003	OUTW	0206	69	0024	0352
311	R0067	RAL	B0003		0207	65	0024	0429
312	LDD	B0008	END4		0429	69	0029	0102
313	R0068	NOP	0068	ERROR	0208		68	0010
314	R0069	LDD	B0009	OUTW	0209	69	0030	0352
315	R0070	LDD	B0004	OUTW	0210	69	0025	0352
316	R0071	LDD	B0007	END2F	0211	69	0028	0453
317	R0072	LDD	B0009	END2F	0212	69	0030	0453
318	R0073	LDD	B0009	END2F	0213	69	0030	0453
319	R0074	LDD	B0003	END2F	0214	69	0024	0453
320	R0075	LDD	B0003	END2F	0215	69	0024	0453
321	R0076	LDD	B0009	END2F	0216	69	0030	0453
322	R0077	LDD	B0001	END2F	0217	69	0022	0453
323	R0078	NOP	0078	ERROR	0218		78	0010
324	R0079	RAL	T0002	RT8	0219	65	0017	0324
325	RT8	AUP	TRX		0324	10	0176	0432
326	LDD	G02BR	TSUBR		0432	69	0434	0015
327	R0080	RAL	T0003	RT8	0220	65	0018	0324
328	R0081	RAL	T0006	RT8	0221	65	0021	0324
329	R0082	RAL	T0004	RT8	0222	65	0019	0324
330	R0083	LDD	B0004	OUTW	0223	69	0025	0352
331	R0084	RAU	B0001		0224	60	0022	0477
332	LDD	B0005	END3F		0477	69	0026	0404
333	R0085	LDD	B0005	OUTW	0225	69	0026	0352
334	R0086	RAU	B0002		0226	60	0023	0128
335	LDD	B0007	END3F		0128	69	0028	0404
336	R0087	RAU	B0003		0227	60	0024	0479
337	LDD	B0008	END3F		0479	69	0029	0404
338	R0088	RAU	B0002		0228	60	0023	0328
339	LDD	B0007	END3F		0328	69	0028	0404
340	R0089	RAL	T0002	RT9	0229	65	0017	0423
341	R0090	RAL	T0006	RT9	0230	65	0021	0423
342	R0091	RAL	T0005	RT9	0231	65	0020	0423
343	R0092	NOP	0092	ERROR	0232		92	0010
344	R0093	LDD	B0002	OUTW	0233	69	0023	0352
345	R0094	RAU	B0004	END3F	0234	60	0025	0404
346	R0095	RAU	B0005		0235	60	0026	0482
347	LDD	B0007	END3F		0482	69	0028	0404
348	R0096	RAU	B0007	END3F	0236	60	0028	0404
349	R0097	RAU	B0008		0237	60	0029	0374
350	LDD	B0002	END3F		0374	69	0023	0404
351	R0098	RAU	B0006		0238	60	0027	0424
352	LDD	B0003	END3F		0424	69	0024	0404
353	R0099	RAL	T0002	RT9	0239	65	0017	0423
354	R0100	LDD	B0009	OUTW	0240	69	0030	0352
355	R0101	RAU	B0009		0241	60	0030	0474
356	LDD	B0004	END3F		0474	69	0025	0404
357	R0102	LDD	B0009	OUTW	0242	69	0030	0352
358	R0103	NOP	0103	ERROR	0243		103	0010
359	R0104	LDD	B0003	OUTW	0244	69	0024	0352
360	R0105	LDD	B0008	OUTW	0245	69	0029	0352
361	R0106	LDD	B0004	OUTW	0246	69	0025	0352
362	R0107	LDD	B0007	OUTW	0247	69	0028	0352
363	R0108	RAL	B0001		0248	65	0022	0378
364	LDD	B0003	END4F		0378	69	0024	0458
365	R0109	LDD	B0009	OUTW	0249	69	0030	0352
366	R0110	LDD	B0005	OUTW	0250	69	0026	0352
367	R0111	LDD	B0006	OUTW	0251	69	0027	0352
368	R0112	LDD	B0008	OUTW	0252	69	0029	0352
369	R0113	LDD	B0003	OUTW	0253	69	0024	0352

370	R0114	NOP	0114	ERROR	0254	114	0010	
371	R0115	RAL	B0002		0255	65	0023	0428
372		LDD	B0006	END4F	0428	69	0027	0458
373	R0116	LDD	B0007	OUTW	0256	69	0028	0352
374	R0117	LDD	B0006	OUTW	0257	69	0027	0352
375	R0118	LDD	B0004	OUTD	0258	69	0025	0402
376	R0119	LDD	B0007	OUTD	0259	69	0028	0402
377	R0120	LDD	B0004	OUTW	0260	69	0025	0352
378	R0121	LDD	B0005	END1	0261	69	0026	0400
379	R0122	LDD	B0001	END1	0262	69	0022	0400
380	R0123	LDD	B0005	END1	0263	69	0026	0400
381	R0124	RAL	T0003	RT8	0264	65	0018	0324
382	R0125	RAL	T0002	RT8	0265	65	0017	0324
383	R0126	RAL	T0006	RT8	0266	65	0021	0324
384	R0127	RAL	T0004	RT8	0267	65	0019	0324
385	32DA	00	0032	0000	0395	32	0000	
386	33DA	00	0033	0000	0446	33	0000	
387	TRX	STU	X0001	ADD	0176	21	1957	0014
388	TRY	STU	Y0001	ADD	0326	21	1967	0014
389	G02BR	NOP	0000	BRAIN	0434			4
390	FUDGE	RAL	J0000	SHIFT	0390	65	0267	0134
391	13	00	0000	13	0376			13
392	14	00	0000	14	0347			14
393	15	00	0000	15	0159			15
394	16	00	0000	16	0332			16
395	17	00	0000	17	0475			17
396	21	00	0000	21	0398			21
397	29	00	0000	29	0397			29
398	36	00	0000	36	0358			36
399	40	00	0	40	0375			40
400	49	00	0000	49	0112			49
401	69	00	0000	69	0343			69
402	75	00	0000	75	0445			75
403	92	00	0000	92	0454			92
404	113	00	0000	0113	0472			113
405	120	00	0000	120	0110			120
406	EXTRA	NOP	0000	R0121	0109			261
407		PAT						

Here Davies has a learning mechanism for tic-tac-toe that is better than mine since it doesn't prefer "safe" moves.

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DISCUSSION ON

'THE COMPUTER IN A NON-ARITHMETIC ROLE'

AT THE CONVENTION ON DIGITAL-COMPUTER TECHNIQUES, 12TH APRIL, 1956

Mr. D. W. Davies: First I want to call attention to another class of non-arithmetic problems which can be solved by computer and which has considerable economic importance. These problems are loosely called 'queuing' problems. The ones we at the National Physical Laboratory were given for solution in the first place came from the Road Research Laboratory, who were interested in the traffic problems arising at intersections with automatic traffic control. We later had some problems arising from a warning system in which information was passed by a message from one telephone exchange to another, with the possibility of a delay in answering. What was wanted was the time distribution at which the various people were warned.

These two problems are of a kind of which examples can be multiplied indefinitely. They are not all, strictly speaking, queuing problems. In them, a computer is set to simulate a process which involves a random element, and the results are analysed as if an actual experiment had been carried out.

We found that the present-day computers are not well adapted to these problems, and are often disappointingly slow. The complex logical structure, which may alter from case to case, often necessitates interpretive schemes. It seems to me, therefore, that there is a case for at least one computing machine in this country which is specially designed for these problems, but I cannot at present see how it should be made.

Secondly, I have prepared a contribution on a game-playing programme. Dr. Samuel's programme has overshadowed this modest effort, but perhaps some of its features are worth reporting. It was the learning aspect that I was interested in. The programme begins by playing almost at random, and knows nothing of the values of the various situations until it learns by playing human opponents or, more rapidly, by playing itself.

It can store information, to the extent of two binary digits, for each distinct situation of the game that it may encounter. Therefore it is limited to a simple game, and we have programmed it for the rules of noughts and crosses.

According to von Neumann's analysis, each of these situations could be given an exact value, one of three, according to whether, starting from that situation, X or O or neither could win. We do not know all the values, so our store gives each situation four values, the three mentioned and an 'unknown'.

When a situation arising in the game is analysed, each situation already reached is referred to in the store, and if the value is known, this value is used. If it is unknown, the analysis proceeds to the possible next moves. It is limited, however, to three moves from the present state of the game. As a result, in doing the von Neumann analysis, unknown as well as known values occur.

Suppose X is moving next. Then the best move would be one in which X was able to force a win. The next best move is taken to be any move leading to an unknown result. The next best is to a drawing position, and the worst is one in which O can force a win.

If O is moving next, the order of preference is reversed, except that drawn and unknown are left in the same order. The unknown is preferred to the drawn. This has two consequences. First, the values given are correct von Neumann ones where

there are sufficient data; otherwise they are unknown. Secondly, the play is adventurous, it always tries the unknown.

We have also arranged the programme so that where there are a number of equally good possibilities the choice is made at random; so again it will analyse as much as possible of the field.

We have also made use of the eightfold symmetry of the game. If you have any information about one situation you have information about eight (or sometimes fewer) other situations. We dealt with this situation by recording the information for only one of the eight cases, chosen as standard by an arbitrary rule.

We have had the programme as a detailed flow diagram for some time, but only very recently have begun to put it on a computer, so I cannot tell how it will work in practice.

Mr. I. W. Merry: I should like to make some comments on character recognition.

The problem is one of communication where a signal is intimately mingled with noise almost at source, and where the receiver must embody a filter to maximize the probability of correct reception, followed by a decoding device to change a highly redundant input into one of a small number of possible outputs. The filter and the encoder are not separable, and the filtering relies on the fact that the required output can only assume a small number of discrete values.

The study undertaken by Mr. Kloomok represents an elegant method by which the filter characteristics can be optimized.

Any character-recognition system includes two changes of code; the original signal exists in its entirety in time, but occupies finite space, and the input mechanism must incorporate some encoding device—the scanner and video-digital convertor in Mr. Kloomok's system—which transforms the spatial relationships into an ordered signal.

It may be of interest to consider some of the encoding methods, under four headings:

(i) Direct scanning.

(ii) Conversion of the continuous character into a matrix of '1's and '0's using an array of photocells, the parallel mode of the scanning method.

(iii) Direct matching of the unknown character with all the possible characters, by superposition; the best match is indicated by a maximum or minimum of transmitted light.

(iv) A method which probably approaches closest to the analytical processes behind human vision and character recognition, where the outline of the character is delineated by a scanning spot.

So far, only the scanning method appears to have been followed up in practice with real success, particularly by Shepard in the United States. The parallel method appears to offer some definite advantages should speed of analysis become important, and it has the interesting feature that it dispenses with analogue circuits inherent in scanning systems, replacing them with a switching network, which makes it more attractive to those dedicated to furthering digital methods.

Mr. R. A. Fairthorne: Very briefly I will outline the basic formalization of the topics we have been discussing. Whatever the purpose of the machines or algorithms, what they actually do is transcription. They operate on and are stimulated by alphabets of permitted marks and operations combined in per-

B R A I N II

1	BOP			0000	1549	1999
1	REG T0016	0021		0000	1549	1999
2	REG B0022	0033		0000	1549	1999
3	REG M1985	1994		0000	1549	1999
4	SYN HMOVE	0001		0000	1549	1999
5	SYN MMOVE	0002		0000	1549	1999
6	SYN ONEDA	0003		0000	1549	1999
7	SYN BRAIN	0004		0000	1549	1999
8	SYN BR2	0005		0000	1549	1999
9	SYN RROUT	0006		0000	1549	1999
10	SYN OUT2	0007		0000	1549	1999
11	SYN END	0008		0000	1549	1999
12	SYN SKIP	0009		0000	1549	1999
13	SYN ERROR	0010		0000	1549	1999
14	SYN TRANS	0011		0000	1549	1999
15	SYN ENDD	0013		0000	1549	1999
16	SYN ENDL	0036		0000	1549	1999
17	SYN ENOW	0012		0000	1549	1999
18	SYN ADD	0014		0000	1549	1999
19	SYN TSUBR	0015		0000	1549	1999
20	SYN MFRST	0034		0000	1549	1999
21	SYN TR2	0035		0000	1549	1999
22	SYN CL2	0139		0000	1549	1999
23	SYN CLEAN	0140		0000	1549	1999
24	BLR 0000	0140		0000	1549	1999
25	BLR 0445	1999		0000	1549	1999
26	REG A0141	0149		0000	1549	1999
27	REG C1957	1966		0000	1549	1999
28	REG D1967	1976		0000	1549	1999
29	REG F0301	0308		0000	1549	1999
30	BRAIN RAU	HMOVE		0004	60	0001 0155
31	LDD HEXIT	SUBR1		0155	69	0158 0161
32	SUBR1 STD	EXIT		0161	24	0164 0167
33	SLT 0004			0167	35	0004 0177
34	AUP 8003			0177	10	0180 8003
35	RAL A0000	SHIFT		0180	65	0140 0195
36	SHIFT SLT 0001			0195	35	0001 0151
37	NZU EXIT			0151	44	0205 0164
38	STL WAIT			0205	20	0159 0162
39	RAL 8003			0162	65	8003 0169
40	SLT 0004			0169	35	0004 0179
41	ALO MASK			0179	15	0182 0187
42	STL BACK			0187	20	0191 0194
43	SLO FUDGE	8002		0194	16	0197 8002
44	8002 LDD C0008			8002	69	1964 0217
45	STD TEMP			0217	24	0170 0173
46	RAL WAIT			0173	65	0159 0163
47	SLT 0001			0163	35	0001 0219
48	SUP B0001			0219	11	0022 0227
49	NZU AONE			0227	44	0181 0232
50	SUP 8001			0181	11	8001 0189
51	LDD TEMP			0189	69	0170 0223
52	NZU ATRE	ATWO		0223	44	0277 0178
53	AONE LDD TEMP			0232	69	0170 0273
54	BDO OK1 ALARM			0273	90	0327 0228
55	ATWO BD8 OK2 ALARM			0178	98	0231 0228
56	FAKE RAL FAKE OUT			0150	65	0150 0255
57	ATHRE BD6 OK3 ALARM			0277	96	0230 0228
58	ALARM AUP EXIT			0228	10	0164 0269
59	BMI ERROR TRY			0269	46	0010 0323

60	OK1	AUP EXIT		0327	10	0164	0319
61		BMI	BR1	0319	46	0172	0373
62		SUP 8001		0172	11	8001	0229
63		AUP TEMP		0229	10	0170	0175
64		AUP HM1	SUBR2	0175	10	0278	0183
65	BR1	SUP 8001		0373	11	8001	0281
66		AUP TEMP		0281	10	0170	0225
67		AUP MM1	SUBR2	0225	10	0328	0183
68	OK2	AUP EXIT		0231	10	0164	0369
69		BMI	BR 2	0369	46	0222	0400
70		SUP 8001		0222	11	8001	0279
71		AUP TEMP		0279	10	0170	0275
72		AUP HM2	SUBR2	0275	10	0378	0183
73	BR 2	SUP 8001		0400	11	8001	0213
74		AUP TEMP		0213	10	0170	0325
75		AUP MM2	SUBR2	0325	10	0428	0183
76	OK3	AUP EXIT		0230	10	0164	0419
77		BMI	BR3	0419	46	0272	0423
78		SUP 8001		0272	11	8001	0329
79		RAL 8002		0329	65	8002	0237
80		AUP TEMP		0237	10	0170	0375
81		AUP HM3	SUBR2	0375	10	0379	0183
82	BR3	RAL 8002		0423	65	8002	0331
83		AUP TEMP		0331	10	0170	0425
84		AUP MM3	SUBR2	0425	10	0429	0183
85	SUBR2	LDD 8003	1BRCH	0183	69	8003	0190
86	1BRCH	BD0 8A	9A	0190	90	0244	0245
87	8A	BD8 8B	9B	0244	98	0247	0199
88	8B	BD6 2A	9C	0247	96	0200	0152
89	9A	BD9 8C	9D	0245	99	0249	0250
90	8C	BD8 8D	9E	0249	98	0202	0154
91	8D	BD6 2C	9F	0202	96	0355	0157
92	9B	BD7 8D	9G	0199	97	0202	0204
93	9C	BD5 2C	2B	0152	95	0355	0207
94	9D	BD8 9G	9H	0250	98	0204	0405
95	9E	BD7 8E	2A	0154	97	0257	0200
96	8E	BD6 2E	9I	0257	96	0160	0212
97	9F	BD5 2E	2A	0157	95	0160	0200
98	9G	BD6 2B	9J	0204	96	0207	0209
99	9H	BD7 2A	9K	0405	97	0200	0210
100	9I	BD5 2G	2A	0212	95	0165	0200
101	9J	BD5 2A	2D	0209	95	0200	0214
102	9K	BD6 2D	9L	0210	96	0214	0215
103	9L	BD5 2A	WINR2	0215	95	0200	0220
104	2A	LDD 50	STRAT	0200	69	0153	0156
105	2B	LDD 51	STRAT	0207	69	0260	0156
106	2C	LDD 49	STRAT	0355	69	0208	0156
107	2D	STU KEEP	LKAHD	0214	21	0168	0171
108	2E	LDD 40	STRAT	0160	69	0263	0156
109	2F	LDD 70	STRAT	0300	69	0203	0156
110	2G	LDD ZERO	STRAT	0165	69	0218	0156
111	STRAT	STD RATE	END2	0156	24	0259	0262
112	LKAHD	RAL 8002		0171	65	8002	0280
113		AUP EXIT		0280	10	0164	0270
114		BMI EASY	HARD	0270	46	0174	0224
115	EASY	SUP 8001		0174	11	8001	0381
116		AUP KEEP	ALT2D	0381	10	0168	0274
117	ALT2D	LDD 53	STRAT	0274	69	0377	0156
118	HARD	SUP 8001		0224	11	8001	0431
119		LDD BACK		0431	69	0191	0294
120		STD FUTRF		0294	24	0297	0350
121		LDD LHMEX		0350	69	0253	0206

122		STD EXIT		0206	24	0164	0267
123		AUP KEEP		0267	10	0168	0324
124		LDD ALT2D		0324	69	0274	0427
125		STD 2D	8001	0427	24	0214	8001
126	LHMEX	ALO FUTRF		0253	15	0297	0201
127		SL0 EXESS		0201	16	0254	0309
128		ALO FIND	8002	0309	15	0312	8002
129	FIND	RAL F0000		0312	65	0300	0256
130		LDD KEEP		0256	69	0168	0221
131		BDO 1ST		0221	90	0176	0226
132		BD8 2ND	3RD	0226	98	0330	0282
133	1ST	SRT 0002		0176	30	0002	0233
134		RAU 8002	LHFIX	0233	60	8002	0241
135	2ND	SRT 0001		0330	30	0001	0287
136		SLT 0009		0287	35	0009	0357
137		RAL 8002		0357	65	8002	0265
138		SLT 0001	LHFIX	0265	35	0001	0241
139	3RD	SLT 0009		0282	35	0009	0353
140		RAL 8002		0353	65	8002	0211
141		SLT 0001	LHFIX	0211	35	0001	0241
142	LHFIX	LDD ALT9L		0241	69	0344	0347
143		STD 9L		0347	24	0215	0268
144		LDD LHEXT	SUBR1	0268	69	0271	0161
145	- LHEXT	LDD CONST		0271	69	0374	0380
146		STD MAXIM	MEXIT	0380	24	0283	0186
147	CONST	SUP 385		0374	11	0430	0185
148		LDD FIXM		0185	69	0188	0291
149		STD MAXIM		0291	24	0283	0236
150		LDD FIX9L		0236	69	0239	0192
151		STD 9L		0192	24	0215	0318
152		BMI FINLH		0318	46	0321	0322
153		LDD	SUBR3	0322	69	0276	0332
154		STD C0008		0276	24	1964	0317
155		RAU TMOVE		0317	60	0320	0326
156		LDD FINLH	SUBR1	0326	69	0321	0161
157	FINLH	LDD FIX2D		0321	69	0424	0382
158		LDD FIX2D		0382	69	0424	0432
159		STD 2D	MEXIT	0432	24	0214	0186
160	END2	SRT 0004		0262	30	0004	0376
161		STU ERASE		0376	21	0333	0286
162		SLT 0004		0286	35	0004	0397
163		RAL 8002		0397	65	8002	0356
164		SRT 0004		0356	30	0004	0367
165		AUP ERASE		0367	10	0333	0337
166		SLT 0004		0337	35	0004	0198
167		AUP RATE	BACK	0198	10	0259	0191
168	BACK	STU C0008	LOOP	0191	21	1964	0417
169	LOOP	RAL 8002	SHIFT	0417	65	8002	0195
170	EXIT	LDD STATM	HOUT	0164	69	0368	0371
171	HOUT	STD ATMPT	TRY	0371	24	0426	0323
172	TRY	RAU ATMPT		0323	60	0426	0383
173		SUP MAXAT		0383	11	0336	0341
174		NZU	FINIS	0341	44	0295	0196
175		AUP 8001		0295	10	8001	0403
176		AUP ONEDA		0403	10	0003	0407
177		STU ATMPT	8003	0407	21	0426	8003
178	ATMPT	RAU B0000	READY	0426	60	0021	0433
179	READY	STU TMOVE		0433	21	0320	0184
180		LDD C0001		0184	69	1957	0310
181		STD D0001		0310	24	1967	0370
182		LDD C0002		0370	69	1958	0261
183		STD D0002		0261	24	1968	0421

184	LDD	C0003		0421	69	1959	0362
185	STD	D0003		0362	24	1969	0372
186	LDD	C0004		0372	69	1960	0313
187	STD	D0004		0313	24	1970	0234
188	LDD	C0005		0234	69	1961	0264
189	STD	D0005		0264	24	1971	0284
190	LDD	C0006		0284	69	1962	0315
191	STD	D0006		0315	24	1972	0334
192	LDD	C0007		0334	69	1963	0166
193	STD	D0007		0166	24	1973	0384
194	LDD	C0008		0384	69	1964	0418
195	STD	D0008		0418	24	1974	0434
196	LDD	MEXIT	SUBR1	0434	69	0186	0161
197	MEXIT	RAU	C0001	0186	60	1957	0311
198	MXP1	AUP	C0002	0311	10	1958	0363
199		AUP	C0003	0363	10	1959	0413
200		AUP	C0004	0413	10	1960	0365
201		AUP	C0005	0365	10	1961	0415
202		AUP	C0006	0415	10	1962	0420
203		AUP	C0007	0420	10	1963	0422
204		AUP	C0008	0422	10	1964	0235
205		SLT	00006	0235	35	0006	0283
206	MAXIM	SUP	HIGH	0283	11	0386	0391
207	BRANC	BMI	RESET	0391	46	0394	0345
208		AUP	B0001	0345	10	8001	0354
209		STU	HIGH	0354	21	0386	0289
210		LDD	TMOVE	0289	69	0320	0285
211		STD	MMOVE	0285	24	0002	0394
212	RESET	RAU	TALLY	0394	60	0248	0404
213		AUP	B0001	0404	10	0022	0335
214		STU	TALLY	0335	21	0248	0251
215		LDD	REXIT	0251	69	0406	0332
216	SUBR3	STD	3EXIT	0332	24	0385	0238
217	LOAD	LDD	D0001	0238	69	1967	0435
218		STD	C0001	0435	24	1957	0360
219		LDD	D0002	0360	69	1968	0436
220		STD	C0002	0436	24	1958	0361
221		LDD	D0003	0361	69	1969	0387
222		STD	C0003	0387	24	1959	0412
223		LDD	D0004	0412	69	1970	0437
224		STD	C0004	0437	24	1960	0314
225		LDD	D0005	0314	69	1971	0288
226		STD	C0005	0288	24	1961	0364
227		LDD	D0006	0364	69	1972	0338
228		STD	C0006	0338	24	1962	0216
229		LDD	D0007	0216	69	1973	0388
230		STD	C0007	0388	24	1963	0266
231		LDD	D0008	0266	69	1974	0385
232	FINIS	RAU	HIGH	0196	60	0386	0441
233		NZU		0441	44	0395	0246
234		SUP	375	0395	11	0298	0258
235		BMI	LOSER	0258	46	0411	0414
236		SUP	35	0414	11	0438	0193
237		BMI		0193	46	0296	0348
238		RAU	TALLY	0296	60	0248	0358
239		SUP	B0002	0358	11	0023	0339
240		STL	TALLY	0339	20	0248	0351
241		STL	HIGH	0351	20	0386	0389
242		BMI	DRAW1	0389	46	0242	0243
243	SET	LDD	ALT2D	0243	69	0274	0439
244		STD	2D	0439	24	0214	0240
245		RAU	MMOVE	0240	60	0002	0408

246		LDD	MEXT2	SUBR1	0408	69	0316	0161
247	DRAW1	LDD	ENDD	B	0242	69	0013	0366
248	DRAW2	LDD	ENDD	A	0246	69	0013	0416
249	LOSER	LDD	ENDL	A	0411	69	0036	0416
250	WINR	LDD	ENDW	B	0348	69	0012	0366
251	A	STD	END	SKIP	0416	24	0008	0009
252	B	STD	END	RROUT	0366	24	0008	0006
253	CLEAN	LDD	1ST M		0140	69	0293	0346
254		STD	MFRST		0346	24	0034	0290
255		RAU	EMPTY		0290	60	0343	0398
256		STD	C0001		0398	24	1957	0410
257		STD	C0002		0410	24	1958	0340
258		STD	C0003		0340	24	1959	0390
259		STD	C0004		0390	24	1960	0440
260		STD	C0005		0440	24	1961	0292
261		STD	C0006		0292	24	1962	0342
262		STD	C0007		0342	24	1963	0392
263		STD	C0008		0392	24	1964	0442
264		STL	HIGH	TRANS	0442	20	0386	0011
265	1ST M	RSL	MAXAT		0293	66	0336	0393
266		STD	ATMPT		0393	24	0426	0443
267		STU	1980		0443	21	1980	0444
268		RAU	M0010		0444	60	1994	0299
269		STU	MMOVE		0299	21	0002	0359
270		LDD	MEXT2	SUBR1	0359	69	0316	0161
271	MEXT2	LDD	FIX2D		0316	69	0424	0396
272		STD	2D	OUT	0396	24	0214	0255
273	OUT	LDD	ENDM1		0255	69	0409	0349
274		STD	MFRST	RROUT	0349	24	0034	0006
275	EMPTY	88	8888	0050	0343	88	8888	0050
276	ENDM1	NOP	0000	ERROR	0409			10
277	A0001	11	4171	0000	0141	11	4171	0000
278	A0002	12	5100	00	142	12	5100	0000
279	A0003	13	6181	0000	0143	13	6181	0000
280	A0004	21	4200	0	144	21	4200	0000
281	A0005	22	5272	8200	0145	22	5272	8200
282	A0006	23	6200	000	146	23	6200	0000
283	A0007	31	4383	0000	0147	31	4383	0000
284	A0008	32	5300	00	148	32	5300	0000
285	A0009	33	6373	0000	0149	33	6373	0000
286	MAXAT	RAU	B0009	READY	0336	60	0030	0433
287	STATM	RAU	B0000	READY	0368	60	0021	0433
288	-HEXIT	LDD	STATM	HOUT	0158	69	0368	0371
289	MM1	11	0000		328	11	0000	0000
290	HM1	10	0000		278	10	0000	0000
291	MM2	00	1100	000	428		1100	0000
292	HM2	00	1000		378		1000	0000
293	MM3	00	0011	0000	0429		11	0000
294	HM3	00	0010	0000	379		10	0000
295	40	00	0	40	0263			40
296	49	00	0000	49	0208			49
297	50	00	0	50	0153			50
298	51	00	0000	51	0260			51
299	53	00	0000	53	0377			53
300	70	00	0	75	0203			75
301	375	03	7500	000	298	3	7500	0000
302	35	00	3500	000	438		3500	0000
303	EXESS	STU	C0000	LOOP	0254	21	1956	0417
304	FIX2D	STU	KEEP	LKAHD	0424	21	0168	0171
305	F0001	00	0000	0123	0301			123
306	F0002	00	0000	0456	0302			456
307	F0003	00	0000	0789	0303			789

308	F0004	00	0000	0147	0304	147
309	F0005	00	0000	0258	0305	258
310	F0006	00	0000	0369	0306	369
311	F0007	00	0000	0159	0307	159
312	F0008	00	0000	0357	0308	357
313	FIX9L	BD5	2A	WINR2	0239	95 0200 0220
314	ALT9L	BD5	2A	2F	0344	95 0200 0300
315	WINR2	LDD	TMOVE		0220	69 0320 0399
316		STD	MMOVE	WINR	0399	24 0002 0348
317	REXIT	STD	C0008	TRY	0406	24 1964 0323
318	FIXM	SUP	HIGH	BRANC	0188	11 0386 0391
319	385	03	8500	000	430	3 8500 0000
320	MASK	STU	C0000	LOOP	0182	21 1956 0417
321	- FUDGE	47	9999	9800	0197	47 9999 9800
322		PAT			0000	99 9999 9999

BRAIN II

REG	P1977	1984						
REG	M1985	1994						
REG	T0016	0021						
REG	B0022	0033						
SYN	HMOVE	0001						
SYN	MMOVE	0002						
SYN	ONEDA	0003						
SYN	BRAIN	0004						
SYN	BR2	0005						
SYN	RLOUT	0006						
SYN	OUT2	0007						
SYN	END	0008						
SYN	SKIP	0009						
SYN	ERROR	0010						
SYN	TRANS	0011						
SYN	ENDD	0013						
SYN	ENDL	0036						
SYN	ENDW	0012						
SYN	ADD	0014						
SYN	TSUBR	0015						
SYN	MFRST	0034						
SYN	TR2	0035						
SYN	CL2	0139						
SYN	CLEAN	0140						
BLR	00000	048575	BLR	1957	1976			
BLR	0700	1696	LEAVE	1977				
REG	W1916	1990	MTM	1994				
REG	V0627	0630	HOLD1	1995				
REG	P1977	1986	HOLD2	1996				
SYN	TMOVE	LEAVE	HOLD3	1997				
0064	20	1916	0080	HOLD4	1998			
SUBR1	BD1	8A	9A	HOLD5	1999			
8A	BD2	8B	9B	HOLD6	2000			
8B	BD3	8C	9C	HOLD7	2001			
8C	BD4	8D	9D	HOLD8	2002			
8D	BD7	8003	9E	HOLD9	2003			
9E	BD8	8003	9F	HOLD10	2004			
9F	BD9	8003	BINGO	HOLD11	2005			
9D	BD5	8D	9G	HOLD12	2006			
9G	BD6	8D	BINGO	HOLD13	2007			
9C	BD5	8E	9H	HOLD14	2008			
9H	BD7	8E	BINGO	HOLD15	2009			
8E	BD6	8C	9I	HOLD16	2010			
9I	BD9	8C	BINGO	HOLD17	2011			
9B	BD5	8B	9J	HOLD18	2012			
9J	BD8	8B	BINGO	HOLD19	2013			
9A	BD4	8F	9K	HOLD20	2014			
9K	BD7	8F	BINGO	HOLD21	2015			
8F	BD5	8G	9L	HOLD22	2016			
9L	BD9	8G	BINGO	HOLD23	2017			
8G	BD2	8B	9M	HOLD24	2018			
9M	BD3	9B	BINGO	HOLD25	2019			
BINGO	BMI	LOST	WON	HOLD26	2020			
SUBR2	STD	HOLD1		HOLD27	2021			
	STU	HOLD2		HOLD28	2022			
	SLT	0008		HOLD29	2023			
	ALO	FUDGE		HOLD30	2024			
	STL	HOLD3		HOLD31	2025			
	RAL	INST		HOLD32	2026			
	LDD	HPOS	HOLD3	HOLD33	2027			

61	INST	RAL	HOLD 1		0499	65	0553	0507
62		LDD	MP0S	HOLD 3	0507	69	0610	0493
63	FUDGE	90	8002	HOLD 2	0534	90	8002	0560
64	SUBR3	STD	HOLD 1		0600	24	0553	0656
65		SL0	B0001		0656	16	0022	0577
66		SLT	0004		0577	35	0004	0487
67		LDD	SHIFT		0487	69	0490	0543
68		SDA	SHIFT		0543	22	0490	0593
69		RAL	B0001	SHIFT	0593	65	0022	0490
70	SHIFT	SLT	0008		0490	35	0008	0559
71		AUP	HOLD 1		0559	10	0553	0557
72		BMI	HUMAN		0557	46	0660	0611
73		AL0	MPOS		0611	15	0610	0515
74		STL	MPOS	HOLD 1	0515	20	0610	0553
75	HUMAN	SUP	8001		0660	11	8001	0567
76		AL0	HPOS		0567	15	0606	0661
77		STL	HPOS	HOLD 1	0661	20	0606	0553
78	SUBR4	STD	HOLD 7		0650	24	0653	1706
79		RAU	MPOS		1706	60	0610	0565
80		SUP	EMPTY		0565	11	0518	0523
81		MPY	B0002		0523	19	0023	0494
82		AL0	HPOS		0494	15	0606	1711
83		SL0	EMPTY		1711	16	0518	0573
84		SLT	0004		0573	35	0004	0533
85		STU	HOLD 1		0533	21	0553	1756
86		RAL	8002		1756	65	8002	0615
87		SLT	0001		0615	35	0001	0521
88		STU	HOLD 2		0521	21	0560	0663
89		RAL	8002		0663	65	8002	0571
90		SLT	0001		0571	35	0001	0677
91		STU	HOLD 3		0677	21	0493	0546
92		RAL	8002		0546	65	8002	0555
93		SLT	0001		0555	35	0001	1761
94		STU	HOLD 4		1761	21	0616	0619
95		RAL	8002		0619	65	8002	1727
96		SLT	0001		1727	35	0001	0583
97		STU	HOLD 5		0583	21	0488	0491
98		RAL	8002		0491	65	8002	0549
99		SLT	0001		0549	35	0001	0605
100		STU	HOLD 6		0605	21	1710	1713
101		SLT	0002		1713	35	0002	0669
102		AUP	HOLD 6		0669	10	1710	0665
103		SLT	0001		0665	35	0001	0621
104		AUP	HOLD 5		0621	10	0488	0643
105		SLT	0001		0643	35	0001	0599
106		AUP	HOLD 2		0599	10	0560	1715
107		SLT	0003		1715	35	0003	0623
108		AUP	HOLD 1		0623	10	0553	0607
109		SLT	0001		0607	35	0001	1763
110		A'UP	HOLD 4		1763	10	0616	0671
111		SLT	0002		0671	35	0002	1777
112		AUP	HOLD 3		1777	10	0493	0497
113		RAL	8003	HOLD 7	0497	65	8003	0653
114	SUBR5	STD	EXIT		1700	24	1703	1806
115		LDD	STORE	HURRY	1806	69	0609	0562
116	HURRY	STD	HOLD 4		0562	24	0616	1719
117		SLT	0001		1719	35	0001	0525
118		STU	HOLD 1		0525	21	0553	1856
119		RAL	8002		1856	65	8002	1765
120		SLT	0001		1765	35	0001	1721
121		STU	HOLD 2		1721	21	0560	1813
122		RAL	8002		1813	65	8002	1771

123		SLT	0001		1771	35	0001	1827
124		STU	HOLD3		1827	21	0493	0596
125		RAL	8002		0596	65	8002	0655
126		SLT	0001		0655	35	0001	1811
127		STL	RHO		1811	20	1815	0568
128		RAU	8003		0568	60	8003	0575
129		MPY	B0003		0575	19	0024	0544
130		ALO	HOLD3		0544	15	0493	0547
131		RAU	8002		0547	60	8002	1705
132		MPY	B0003		1705	19	0024	0594
133		ALO	HOLD2		0594	15	0560	1865
134		RAU	8002		1865	60	8002	0673
135		MPY	B0003		0673	19	0024	0644
136		ALO	HOLD1	HOLD4	0644	15	0553	0616
137	STORE	STL	SIGMA		0609	20	1863	0666
138		RAL	RHO		0666	65	1815	1769
139		LDD		HURRY	1769	69	0572	0562
140		LDD	RHO		0572	69	1815	0618
141		STD	HOLD1		0618	24	0553	1906
142		STL	RHO		1906	20	1815	0668
143		SL0	SIGMA		0668	16	1863	0617
144		BMI	OK		0617	46	0520	1821
145		ALO	8001		1821	15	8001	0529
146		STD	RHO		0529	24	1815	1718
147		STL	SIGMA	OK	1718	20	1863	0520
148	OK	RAU	HOLD1		0520	60	0553	0657
149		SRT	0007		0657	30	0007	1723
150		MPY	333		1723	19	0526	0646
151		ALO	7THOU		0646	15	0649	1753
152		STL	HOLD1		1753	20	0553	1707
153		RAU	SIGMA		1707	60	1863	0667
154		AUP	B0001		0667	10	0022	1877
156		MPY	SIGMA		1877	19	1863	0584
157		DIV	B0002		0584	14	0023	0634
158		ALO	RHO		0634	15	1815	1819
159		ALO	HOLD1		1819	15	0553	1757
160		STL	LOCA		1757	20	1861	0614
161		RAU	8002		0614	60	8002	1773
162		SRT	0001		1773	30	0001	0579
163		AUP	8002		0579	10	8002	0537
164		RAU	8003		0537	60	8003	0495
165		SRT	0005		0495	30	0005	1807
166		STU	HOLD2		1807	21	0560	1913
167		SLT	0009		1913	35	0009	0633
168		AUP		8003	0633	10	0486	8003
169		RAU	0000		0486	60	0000	1755
170		ALO	HOLD2		1755	15	0560	1915
171		LDD	ISOL		1915	69	1768	1871
172		SDA	ISOL	8001	1871	22	1768	8001
173	ISOL	SRT	0009		1768	30	0009	0539
174		RAU	8003		0539	60	8003	0597
175		SLT	0009		0597	35	0009	1717
176		STU	RATE	EXIT	1717	21	0622	1703
177	SUBR6	STD	EXIT		1750	24	1703	1857
178		STL	HOLD4		1857	20	0616	1869
179		LDD	MID6	INVRT	1869	69	0672	0625
180	INVRT	STD	HOLD3		0625	24	0493	0696
181		SLT	0001		0696	35	0001	1803
182		STU	HOLD5		1803	21	0488	0541
183		RAL	8002		0541	65	8002	0699
184		SLT	0001		0699	35	0001	1805
185		STU	HOLD6		1805	21	1710	0664

186	RAL	8002		0664	65	8002	1823
187	SLT	0001		1823	35	0001	0679
188	STU	HOLD7		0679	21	0653	1907
189	RAL	8002		1907	65	8002	1716
190	SLT	0001		1716	35	0001	1873
191	STL	HOLD1		1873	20	0553	0608
192	RAU	8003		0608	60	8003	1766
193	SLT	0001		1766	35	0001	0524
194	AUP	HOLD7		0524	10	0653	0658
195	SLT	0001		0658	35	0001	1816
196	AUP	HOLD6		1816	10	1710	1866
197	SLT	0001		1866	35	0001	0574
198	AUP	HOLD5		0574	10	0488	0493
199	STU	HOLD2		0672	21	0560	1714
200	RAL	HOLD1		1714	65	0553	1708
201	LDD			1708	69	1911	0625
202	SRT	0004		1911	30	0004	1722
203	AUP	HOLD2		1722	10	0560	1767
204	SRT	0002		1767	30	0002	0624
205	ALO	HOLD2		0624	15	0560	1817
206	SRT	0003		1817	30	0003	0675
207	RAU	8002		0675	60	8002	0683
208	ALO	HOLD1		0683	15	0553	1758
209	SLT	0002		1758	35	0002	1867
210	STU	HOLD5		1867	21	0488	0591
211	RAL	HOLD4		0591	65	0616	1772
212	SLT	0002		1772	35	0002	1729
213	STU	HOLD6		1729	21	1710	1764
214	SRT	0004		1764	30	0004	1725
215	SLT	0002		1725	35	0002	0631
216	ALO	HOLD6		0631	15	1710	1818
217	RAU	8002		1818	60	8002	0528
218	ALO	HOLD1		0528	15	0553	1808
219	SLT	0002		1808	35	0002	1868
220	STU	HOLD6		1868	21	1710	1814
221	RAL	HOLD5		1814	65	0488	0693
222	SLT	0002		0693	35	0002	1699
223	STU	HOLD7		1699	21	0653	1858
224	RAL	8002		1858	65	8002	0570
225	SRT	0004		0570	30	0004	0681
226	SLT	0002		0681	35	0002	0587
227	ALO	HOLD7		0587	15	0653	1908
228	RAU	8002		1908	60	8002	0620
229	ALO	HOLD1		0620	15	0553	0659
230	SLT	0002		0659	35	0002	0670
231	STU	HOLD7		0670	21	0653	1703
232	STD	HOLD2		1800	24	0560	1864
233	SLT	0001		1864	35	0001	1822
234	STU	HOLD3		1822	21	0493	1746
235	SLT	0002		1746	35	0002	1853
236	LDD	FIND		1853	69	1709	0612
237	SDA	FIND		0612	22	1709	0662
238	LDD	BACK		0662	69	1720	0674
239	SDA	BACK		0674	22	1720	1724
240	SLT	0006		1724	35	0006	0589
241	RAL	8002		0589	65	8002	0647
242	SRT	0005		0647	30	0005	1759
243	LDD	IN		1759	69	1712	1770
244	SDA	IN		1770	22	1712	1820
245	LDD	OUT		1820	69	1774	0578
246	SDA	OUT		0578	22	1774	0678
247	RAU	RZULT		0678	60	1731	0535

248		NZU	TIE	0535	44	0639	0540	
249		BMI	LOSS	0639	46	0492	1743	
250		LDD	00009	1743	69	0030	1733	
251		STD	HOLD3	1733	24	0493	1709	
252	LOSS	STL	HOLD3	0492	20	0493	1709	
253	TIE	RAU	HOLD3	0540	60	0493	0697	
254		SUP	00006	0697	11	0025	1779	
255		NZU	FIND	1779	44	1783	1709	
256		BMI	SMALL	1783	46	0536	0637	
257		AUP	000035	0637	10	0024	1829	
258	SMALL	AUP	000037	0536	10	0026	1829	
259	PUT	STU	HOLD3	1829	21	0493	1709	
260	FIND	RAU	0000	1709	60	0000	1712	
261	IN	SRT	0009	1712	30	0009	1833	
262		STL	HOLD1	1833	20	0553	1809	
263		SRT	0001	1809	30	0001	1870	
264		RAU	8003	1870	60	8003	1728	
265		SLT	0001	1728	35	0001	0585	
266		AUP	HOLD3	0585	10	0493	1697	
267		ALO	HOLD1	1697	15	0553	1774	
268	OUT	SLT	0009	1774	35	0009	1720	
269	BACK	STU	0000	1720	21	0000	0560	
270	SUBR8	STD	EXIT	1850	24	1703	1859	
271		STU	HOLD3	1859	21	0493	1796	
272		STU	HOLD2	1796	21	0560	1914	
273	SHFT8	SLT	0001	1914	35	0001	1872	
274		NZU	WORKS	1872	44	1775	0576	
275		SUP	00001	1775	11	0022	1778	
276		NZU	WORKS	1778	44	0576	0532	
277		AUP	00002	0532	10	0023	0576	
278	WORKS	STL	HOLD1	0576	20	0553	1909	
279		SRT	0001	1909	30	0001	1824	
280		AUP	HOLD2	1824	10	0560	1874	
281		SLT	0001	1874	35	0001	1781	
282		STU	HOLD2	1781	21	0560	1825	
283		RAU	HOLD3	1825	60	0493	1747	
284		SUP	00009	1747	11	0030	0635	
285		NZU	EXIT	0635	44	0689	1703	
286		AUP	00010	0689	10	0031	0685	
287		STU	HOLD3	0685	21	0493	1846	
288	BR2	RAL	HMOVE	1846	65	0553	1914	
289		AUP	ALARM	0005	65	0001	1855	
290		LDD	SUBR2	1855	10	1760	1875	
291		RAL	HMOVE	1875	69	1828	0550	
292		LDD	SUBR3	1828	65	0001	1905	
293		LDD	SUBR4	1905	69	1810	0600	
294		LDD	SUBR8	1810	-69	0626	0650	
295		RAL	HOLD2	0626	69	1879	1850	
296		LDD	SUBR6	1879	65	0560	0676	
297		RAL	AWAY	0676	69	0580	1750	
298		RAL	AWAY	0580	65	1883	0687	
299		ALO	20DA	0687	15	0590	0545	
300		STL	AWAY	0545	20	1883	0586	
301	ROUT1	LDD	READY	0586	69	1739	0542	
302		STD	LEAVE	0542	24	0595	0498	
303		RAL	HOLD4	0498	65	0616	1726	
304		LDD	SUBR5	1726	69	0680	1700	
305		RAL	LOGA	0680	65	1861	1776	
306		ALO	RATE	1776	15	0622	1878	
307		AUP	AWAY	1878	10	1883	8003	
308		AWAY1	STU	1900	20	1916	0627	
309		V0001	AUP	10001	0627	10	1730	1735

310		STU AWAY		1735	21	1883	0636
311		RAL HOLD5		0636	65	0488	1793
312		LDD	SUBR5	1793	69	1896	1700
313		RAU LOCA	SAMO CHING	1896	65	1861	1826
314		ALO RATE		1826	15	0622	1780
315		AUP AWAY	8003	1780	10	1883	8003
316	V 0002	AUP 10001		0628	10	1730	1785
317		STU AWAY		1785	21	1883	0686
318		RAL HOLD6		0686	65	1710	1876
319		LDD	SUBR5	1876	69	1830	1700
320		RAL LOCA		1830	65	1861	1880
321		ALO RATE		1880	15	0622	1831
322		AUP AWAY	8003	1831	10	1883	8003
323	V 0003	AUP 10001		0629	10	1730	1835
324		STU AWAY		1835	21	1883	1736
325		RAL HOLD7		1736	65	0653	1860
326		LDD	SUBR5	1860	69	1881	1700
327		RAL LOCA		1881	65	1861	0582
328		ALO RATE		0582	15	0622	0632
329		AUP AWAY	8003	0632	10	1883	8003
330	V 0004	AUP 9997		0630	10	0684	1789
331		STU AWAY	LEAVE	1789	21	1883	0595
332	READY	RAL AWAY		1739	65	1883	1737
333		SLO 24DA		1737	16	0640	0645
334		STL AWAY		0645	20	1883	1786
335		RAU TEST1		1786	60	1839	1843
336		LDD HPOS	SUBR1	1843	69	0606	0500
337	- TEST1	RAU TALLY		1839	-60	0592	1797
338		SUP B0008		1797	11	0029	1734
339		NZU	DRAW1	1734	44	1787	0538
340		AUP B0009		1787	10	0030	1885
341		STU TALLY	MTURN	1885	21	0592	0695
342	M TURN	RAU BEGIN		0695	60	0548	1903
343		STD TRY		1903	24	1910	0682
344		STL HIGH		0682	20	1837	0690
345		LDD MPOS		0690	69	0610	1732
346		STD KEEP	RESET LOOP	1732	24	1836	1782
347	RESET	LDD KEEP		1889	69	1836	1740
348		STD MPOS	LOOP	1740	24	0610	1782
349	LOOP	RAL TRY	8002	1782	65	1910	8002
350	BEGIN	AUP B0001		0548	10	0022	1832
351		STU TMOVE		1832	21	1886	1790
352		SUP B0010		1790	11	0031	1887
353		BMI	END3	1887	46	1840	0641
354		AUP 8001		1840	10	8001	1847
355		ALO ONEDA		1847	15	0003	1762
356		STL TRY		1762	20	1910	1882
357		RAL 8003		1882	65	8003	1890
358		AUP LOOP		1890	10	1782	0588
359		LDD	SUBR2	0588	69	0691	0550
360		RAL TMOVE		0691	65	1886	1741
361		LDD	SUBR3	1741	69	0694	0600
362		LDD	SUBR4	0694	69	1897	0650
363		LDD	SUBR5	1897	69	0501	1700
364		RAL RATE		0501	65	0622	1784
365		SLO HIGH		1784	16	1837	1791
366		BMI RESET		1791	46	1889	1745
367		AUP 8001		1745	15	8001	0504
368		STU HIGH		0504	20	1837	1841
369		LDD TMOVE	STL JAY PUTJ	1841	69	1886	1891
370		STD MMOVE	RESET	1891	24	0002	1889
371	END3	RAL MMOVE		0641	65	0002	1812

END3 RAU RANDOM
MPY AWAY
SRT 8003
STL RANDOM
DIV 8002
RAL JAY
SLT 8003
RATE 8003
STD 8001
MMOVE

PUTJ RAL TMOVE
RAL JAY
ALO
STD 8000
8002 RAL 8004
8002 RAL TMOVE
RESET

372	LDD	SUBR3	1812	69	1834	0600
373	LDD	SUBR4	1834	69	0638	0650
374	LDD	SUBR6	0638	69	0642	1750
375	LDD	ROUT1	0642	69	1795	0542
376	RAU	TEST2	1795	60	0598	0554
377	LDD	MPOS	0554	69	0610	0500
378	TEST2	RAU TALLY	0598	60	0592	0648
379	SUP	B0008	0648	11	0029	1884
380	NZU	DRAW2	1884	44	0688	1738
381	AUP	B0009	0688	10	0030	1788
382	STU	TALLY	1788	21	0592	1845
383	LDD	ALARM	1845	69	1760	1838
384	STD	MFRST	1838	24	0034	0007
385	WON	RAL B0001	0531	65	0022	1888
386	LDD	ENDW	1888	69	0012	0692
387	LOST	RSL B0001	0530	66	0022	1742
388	LDD	ENDL	1742	69	0036	0692
389	DRAW1	RSU B0001	0538	61	0022	1792
390	DRAW2	RAU B0001	1738	60	0022	1792
391	DRAWN	LDD ENDD	1792	69	0013	0692
392	FINIS	STD END	0692	24	0008	1862
393	STU	HOLD7	1862	21	0653	1912
394	STL	RZULT	1912	20	1731	1842
395	RAL	8002	1842	65	1895	8002
396	AUP	W0001	1895	10	1916	1892
397	NZU	SWICH	1892	44	0698	1698
398	ALO	ONEDA	0698	15	0003	1893
399	STL	BRING	1893	20	1748	0551
400	RAL	8003	0551	65	8003	1744
401	LDD	SUBR7	1744	69	1798	1800
402	RAL	BRING	1798	65	1748	8002
403	SWICH	RSU RZULT	1698	61	1731	1794
404	STU	RZULT	1794	21	1731	1844
405	RAU	W0021	1844	60	1936	1894
406	NZU	RIGHT	1894	44	1848	1898
407	RAL	4DA	1898	65	0601	1749
408	RIGHT	RAL 8002	1848	65	8002	1749
409	GO	ALO 8002	1749	15	0502	8002
410	RAL	W0021	0502	10	1936	1799
411	NZU	FF	1799	44	0604	0654
412	ALO	ONEDA	0604	15	0003	1849
413	STL	BRING	1849	20	1748	0651
414	RAL	8003	0651	65	8003	1899
415	LDD	SUBR7	1899	69	0552	1800
416	RAL	BRING	0552	65	1748	8002
417	FF	RSU RZULT	0654	61	1731	1701
418	NZU	FINE	1701	44	1751	1801
419	RAU	HOLD7	1801	60	0653	1751
420	FINE	BMI SKIP	1751	46	0009	0007
421	CL2	LDD AWAY1	0139	69	1900	1704
422	STD	AWAY	1704	24	1883	1851
423	LDD	1ST M	1851	69	1754	1901
424	STD	MFRST	1901	24	0034	0602
425	RAU	EMPTY	0602	60	0518	0652
426	STD	HPOS	0652	24	0606	1702
427	STD	MPOS	1702	24	0610	1752
428	STL	TALLY	1752	20	0592	0035
429	1ST M	RSU 8003	1754	61	1802	8003
430	STL	1980	1802	20	1980	0695
431	9997	0000	0684			9997
432	10001	0001	1730		1	0001
433	ALARM	NOP 0000	1760			10
		ERROR				

434	7 THOU	00	0000	7000	0649	7000
435	EMPTY	88	8888	8888	0518	88 8888
436	4DA	00	0004	0000	0601	4 0000
437	24DA	00	0024	0000	0640	24 0000
438	20DA	00	0020	0000	590	20 0000
439	333	00	0000	0333	0526	333
440	PAT					

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1 1 A P I C T U R E O F T I C T A C T O E G A M E S

2 REG	A0027	0034		
3 REG	B1027	1031		
4 REG	C1127	1131		
5 REG	D1227	1231		
6 REG	R0001	0011		
7 REG	T0012	0014		
8 BLR	0112	1999		
9 START	RCD	R0011	R0011	
10 R0011	LDD	R0001		
11 STD	A0008		0000	70
12 RAL	R0006		0011	69
13 SLT	00001		0054	24
14 STU	A0007		0037	65
15 RSL	ONE		0061	35
16 STU	B0005		0017	21
17 STD	C0005		0036	66
18 STD	D0005		0043	21
19 STD	B0004		0084	1031
20 STD	C0004		0035	0035
21 STD	D0004		0085	24
22 STD	B0003		0083	1231
23 STD	C0003		0086	0085
24 STD	D0003		0087	1030
25 STD	B0002		0082	1130
26 STD	C0002		0038	0086
27 STD	D0002		0088	1230
28 STD	B0001		0081	0087
29 STD	C0001		0089	1029
30 STD	D0001		0040	0082
31 STL	TRACK		0080	1129
32 SRT	0001		0090	0038
33 AL0	R0004		0041	1229
34 PCH	A0001		0048	0088
35 BMI		FFLAG	0055	1027
36 RAL	SEVEN	FFLAG	0081	0089
37 STL	FLAG	ZERO	0077	0040
38 RAL	TRACK		0091	0042
39 SLO	TEN		0042	0050
40 NZE		END	0050	0049
41 AL0	LEVEN		0049	0057
42 STL	TRACK		0057	0111
43 RAL	R0008		0060	0067
44 SLT	0001		0067	0098
45 STL	R0008		0098	0064
46 NZU			0064	0021
47 RAL	8003		0021	0062
48 AL0	TWO		0062	0050
49 DIV	THREE		0015	0023
50 SLT	0004		0023	0092
51 AUP	MASK		0092	0056
52 STU	WHICH		0064	0018
53 AL0		ZERO	0056	0021
54 RAL	8002		0018	0025
55 STL	TO000		0025	0046
56 RAL	AREA		0046	0099
57 NZE	TRACK		0099	8002
58 AL0	ADD1		0065	0011
59 AL0	TWO	CONT	0022	0065
60 ADD1	ONE	CONT	0100	0019
61 CONT	STL	LPBOX	0105	0100
62 DIV	TWO		0104	0105
63 SLT	0004		0094	0094
64			0106	0096
65			0094	0106
66			0106	0026
67			0096	0096
68			35	0004
69				0107

63		STL	PICK		0107	20	0016	0069
64		RAU	8003		0069	60	8003	0078
65		ALO	ONE		0078	15	0039	0097
66		ALO	FLAG		0097	15	0047	0101
67		NZU	ODD		0101	44	0058	0108
68		SLT	0009	WHICH	0108	35	0009	0093
69	ODD	SLT	0004	WHICH	0058	35	0004	0093
70	MASK	SRT	0000		0071	30	0000	0102
71		RAL	8002		0102	65	8002	0066
72		AUP	AREA		0066	10	0019	0073
73		AUP	PICK	8003	0073	10	0016	8003
74	T0001	ALO	B0000	FIX	0012	15	1026	0053
75	T0002	ALO	C0000	FIX	0013	15	1126	0053
76	T0003	ALO	D0000	FIX	0014	15	1226	0053
77	FIX	AUP	FUDGE	8003	0053	10	0109	8003
78	FUDGE	05	0000	0050	0109	5	0000	0050
79		RAL	LPBOX		0103	65	0051	0110
80		SLO	TEN		0110	16	0052	0068
81		NZE		READY	0068	45	0072	0024
82		ALO	LEVEN	CONT	0072	15	0063	0094
83	READY	RAU	FLAG		0024	60	0047	0020
84		NZU	FFLAG		0020	44	0042	0074
85		ALO	SEVEN	FFLAG	0074	15	0044	0042
86	END	PCH	B0001		0111	71	1027	0079
87		PCH	C0001		0079	71	1127	0070
88		PCH	D0001	START	0070	71	1227	0000
89	ONE	00	0000	1	0039			1
90	TWO	00	0000	2	0026			2
91	THREE	00	0000	0003	0095			3
92	SEVEN	00	0000	0007	0044			7
93	TEN	00	0000	10	0052			10
94	LEVEN	00	0000	0011	0063			11
95	- A0001	00	000		27	-00	0000	0000
96	- A0002	00	000		28	-00	0000	0000
97	- A0003	00	000		29	-00	0000	0000
98	- A0004	00	000		30	-00	0000	0000
99	- A0005	00	000		31	-00	0000	0000
100	- A0006	00	000		32	-00	0000	0000
101	- B0006	00	000		1032	-00	0000	0000
102	- C0006	00	000		1132	-00	0000	0000
103	- D0006	00	000		1232	-00	0000	0000
104	- B0007	00	000		1033	-00	0000	0000
105	- C0007	00	000		1133	-00	0000	0000
106	- D0007	00	000		1233	-00	0000	0000
107	- B0008	00	000		1034	-00	0000	0000
108	- C0008	00	000		1134	-00	0000	0000
109	- D0008	00	000		1234	-00	0000	0000

1 1
12 BRAIN III

3 REG P1977 1984
4 REG M1985 1994
5 REG T0016 0021
6 REG B0022 0033
7 SYN HMOVE 0001
8 SYN MMOVE 0002
9 SYN ONEDA 0003
10 SYN BRAIN 0004
11 SYN BR2 0005
12 SYN RLOUT 0006
13 SYN OUT2 0007
14 SYN END 0008
15 SYN SKIP 0009
16 SYN ERROR 0010
17 SYN TRANS 0011
18 SYN ENDD 0013
19 SYN ENDL 0036
20 SYN ENDW 0012
21 SYN ADD 0014
22 SYN TSUBR 0015
23 SYN MFRST 0034
24 SYN TR2 0035
25 SYN CL2 0139
26 SYN CLEAN 0140
27 BLR 0000 0475
28 BLR 1957 1976
29 BLR 0700 1696
30 REG W1916 1956
31 REG V0627 0630
32 REG P1977 1986
33 SYN LEAVE 1977
34 SYN TMOVE LEAVE
35 SYN BRING TMOVE
36 SYN MTURN 0695
37 SYN HOLD1 1994
38 SYN HOLD2 1995
39 SYN HOLD3 1996
40 SYN HOLD4 1997
41 SYN HOLD5 1998
42 SYN HOLD6 1999
43 SYN HOLD7 1966
44 SYN RZULT 1976
45 SYN JAY RZULT
46 SYN RHO 1982
47 SYN LOCA RHO
48 SYN TALLY 1984
49 REG J1905 1915
50 SYN RANDM 1697
51 0064 20 1916 0080
52 SUBR1 BD1 8A 9A 0064 20 1916 0080
53 8A BD2 8B 9B 0500 91 0503 0505
54 8B BD3 8C 9C 0503 92 0506 0508
55 8C BD4 8D 9D 0506 93 0509 0511
56 8D BD7 8003 9E 0509 94 0512 0514
57 9E BD8 8003 9F 0512 97 8003 0517
58 9F BD9 8003 BINGO 0517 98 8003 0522
59 9D BD5 8D 9G 0522 99 8003 0477
60 9G BD6 8D BINGO 0514 95 0512 0519
61 9C BD5 8E 9H 0519 96 0512 0477
62 9H BD7 8E BINGO 0511 95 0564 0516
63 9I BD8 8E BINGO 0516 97 0564 0477

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63	8E	BD6	8C	9I		0564	96	0509	0569
64	9I	BD9	8C	BINGO		0569	99	0509	0477
65	9B	BD5	8B	9J		0508	95	0506	0513
66	9J	BD8	8B	BINGO		0513	98	0506	0477
67	9A	BD4	8F	9K		0505	94	0558	0510
68	9K	BD7	8F	BINGO		0510	97	0558	0477
69	8F	BD5	8G	9L		0558	95	0561	0563
70	9L	BD9	8G	BINGO		0563	99	0561	0477
71	8G	BD2	8B	9M		0561	92	0506	0566
72	9M	BD3	9B	BINGO		0566	93	0508	0477
73	BINGO	BMI	LOST	WON		0477	46	0480	0481
74	SUBR2	STD	HOLD1			0550	24	1994	0497
75		STU	HOLD2			0497	21	1995	0498
76		SLT	0008			0498	35	0008	0567
77		ALO	FUDGE			0567	15	0520	0525
78		STL	HOLD3			0525	20	1996	0499
79		RAL	INST			0499	65	0502	0507
80		LDD	HPOS	HOLD3		0507	69	0560	1996
81	INST	RAL	HOLD1			0502	65	1994	0549
82		LDD	MPOS	HOLD3		0549	69	0552	1996
83	FUDGE	90	8002	HOLD2		0520	90	8002	1995
84	SUBR3	STD	HOLD1			0600	24	1994	0547
85		SLO	B0001			0547	16	0022	0527
86		SLT	0004			0527	35	0004	0487
87		LDD	SHIFT			0487	69	0490	0493
88		SDA	SHIFT			0493	22	0490	0543
89		RAL	B0001	SHIFT		0543	65	0022	0490
90	SHIFT	SLT	0008			0490	35	0008	0559
91		AUP	HOLD1			0559	10	1994	0599
92		BMI	HUMAN			0599	46	0602	0553
93		ALO	MPOS			0553	15	0552	0557
94		STL	MPOS	HOLD1		0557	20	0552	1994
95	HUMAN	SUP	8001			0602	11	8001	0609
96		ALO	HPOS			0609	15	0560	0515
97		STL	HPOS	HOLD1		0515	20	0560	1994
98	SUBR4	STD	HOLD7			0650	24	1966	0619
99		RAU	MPOS			0619	60	0552	0607
100		SUP	EMPTY			0607	11	0610	0565
101		MPY	B0002			0565	19	0023	0494
102		ALO	HPOS			0494	15	0560	0615
103		SLO	EMPTY			0615	16	0610	0665
104		SLT	0004			0665	35	0004	0575
105		STU	HOLD1			0575	21	1994	0597
106		RAL	8002			0597	65	8002	0555
107		SLT	0001			0555	35	0001	0611
108		STU	HOLD2			0611	21	1995	0548
109		RAL	8002			0548	65	8002	0657
110		SLT	0001			0657	35	0001	0613
111		STU	HOLD3			0613	21	1996	0649
112		RAL	8002			0649	65	8002	1707
113		SLT	0001			1707	35	0001	0663
114		STU	HOLD4			0663	21	1997	1700
115		RAL	8002			1700	65	8002	0659
116		SLT	0001			0659	35	0001	1715
117		STU	HOLD5			1715	21	1998	0501
118		RAL	8002			0501	65	8002	1709
119		SLT	0001			1709	35	0001	1765
120		STU	HOLD6			1765	21	1999	0652
121		SLT	0002			0652	35	0002	1759
122		AUP	HOLD6			1759	10	1999	0603
123		SLT	0001			0603	35	0001	1809
124		AUP	HOLD5			1809	10	1998	0653

125		SLT	0001		0653	35	0001	1859
126		AUP	HOLD2		1859	10	1995	0699
127		SLT	0003		0699	35	0003	1757
128		AUP	HOLD1		1757	10	1994	1699
129		SLT	0001		1699	35	0001	0605
130		AUP	HOLD4		0605	10	1997	0551
131		SLT	0002		0551	35	0002	1807
132		AUP	HOLD3		1807	10	1996	0601
133		RAL	8003	HOLD7	0601	65	8003	1966
134	SUBR5	STD	EXIT		1750	24	1703	0556
135		LDD	STORE	HURRY	0556	69	0660	1713
136	HURRY	STD	HOLD4		1713	24	1997	1800
137		SLT	0001		1800	35	0001	1857
138		STU	HOLD1		1857	21	1994	0647
139		RAL	8002		0647	65	8002	0655
140		SLT	0001		0655	35	0001	0661
141		STU	HOLD2		0661	21	1995	0598
142		RAL	8002		0598	65	8002	0608
143		SLT	0001		0608	35	0001	1815
144		STU	HOLD3		1815	21	1996	1749
145		RAL	8002		1749	65	8002	0658
146		SLT	0001		0658	35	0001	1865
147		STL	RHO		1865	20	1982	0485
148		RAU	8003		0485	60	8003	0593
149		MPY	B0003		0593	19	0024	0544
150		ALO	HOLD3		0544	15	1996	0651
151		RAU	8002		0651	60	8002	1710
152		MPY	B0003		1710	19	0024	0594
153		ALO	HOLD2		0594	15	1995	1799
154		RAU	8002		1799	60	8002	1708
155		MPY	B0003		1708	19	0024	0644
156		ALO	HOLD1	HOLD4	0644	15	1994	1997
157	STORE	STL	SIGMA		0660	20	0616	0669
158		RAL	RHO		0669	65	1982	0537
159		LDD		HURRY	0537	69	0540	1713
160		LDD	RHO		0540	69	1982	0535
161		STD	HOLD1		0535	24	1994	0697
162		STL	RHO		0697	20	1982	0585
163		SLO	SIGMA		0585	16	0616	0521
164		BMI	OK		0521	46	0524	0625
165		ALO	8001		0625	15	8001	0483
166		STD	RHO		0483	24	1982	0635
167	OK	STL	SIGMA	OK	0635	20	0616	0524
168		RAU	HOLD1		0524	60	1994	1849
169		SRT	0007		1849	30	0007	0666
170		MPY	333		0666	19	1719	0590
171		ALO	7THOU		0590	15	0643	1747
172		STL	HOLD1		1747	20	1994	1797
173		RAU	SIGMA		1797	60	0616	0571
174		AUP	B0001		0571	10	0022	0577
175		MPY	SIGMA		0577	19	0616	0486
176		DIV	B0002		0486	14	0023	0484
177		ALO	RHO		0484	15	1982	0587
178		ALO	HOLD1		0587	15	1994	1899
179		STL	LOCA		1899	20	1982	0685
180		RAU	8002		0685	60	8002	0693
181		SRT	0001		0693	30	0001	1850
182		AUP	8002		1850	10	8002	1760
183		RAU	8003		1760	60	8003	0617
184		SRT	0005		0617	30	0005	0479
185		STU	HOLD2		0479	21	1995	0648
186		SLT	0009		0648	35	0009	1769

187	AUP	0003	8003	1769	10	0572	8003
188	RAU	0000		0572	60	0000	1705
189	ALO	HOLD2		1705	15	1995	1900
190	LDD	ISOL		1900	69	1753	0606
191	SDA	ISOL	8001	0606	22	1753	8001
192	ISOL	SRT	0009	1753	30	0009	0523
193		RAU	8003	0523	60	8003	0531
194		SLT	0009	0531	35	0009	1703
195	SUBR6	STD	EXIT	1701	24	1703	0656
196		STL	HOLD4	0656	20	1997	1751
197		LDD	MID6	1751	69	0504	1758
198	INVRT	STD	HOLD3	1758	24	1996	1801
199		SLT	0001	1801	35	0001	1808
200		STU	HOLD5	1808	21	1998	1851
201		RAL	8002	1851	65	8002	1810
202		SLT	0001	1810	35	0001	0667
203		STU	HOLD6	0667	21	1999	1702
204		RAL	8002	1702	65	8002	1711
205		SLT	0001	1711	35	0001	1717
206		STU	HOLD7	1717	21	1966	1819
207		RAL	8002	1819	65	8002	0677
208		SLT	0001	0677	35	0001	0533
209		STL	HOLD1	0533	20	1994	1847
210		RAU	8003	1847	60	8003	1755
211		SLT	0001	1755	35	0001	1761
212		AUP	HOLD7	1761	10	1966	0621
213		SLT	0001	0621	35	0001	1727
214		AUP	HOLD6	1727	10	1999	1803
215		SLT	0001	1803	35	0001	1860
216		AUP	HOLD5	1860	10	1998	1996
217	MID6	STU	HOLD2	0504	21	1995	0698
218		RAL	HOLD1	0698	65	1994	1901
219		LDD	INVRT	1901	69	0554	1758
220		SRT	0004	0554	30	0004	1716
221		AUP	HOLD2	1716	10	1995	1752
222		SRT	0002	1752	30	0002	1811
223		ALO	HOLD2	1811	15	1995	1802
224		SRT	0003	1802	30	0003	1861
225		RAU	8002	1861	60	8002	1869
226		ALO	HOLD1	1869	15	1994	1852
227		SLT	0002	1852	35	0002	0562
228		STU	HOLD5	0562	21	1998	1902
229		RAL	HOLD4	1902	65	1997	1853
230		SLT	0002	1853	35	0002	0612
231		STU	HOLD6	0612	21	1999	1903
232		SRT	0004	1903	30	0004	1763
233		SLT	0002	1763	35	0002	0570
234		ALO	HOLD6	0570	15	1999	0604
235		RAU	8002	0604	60	8002	1813
236		ALO	HOLD1	1813	15	1994	0654
237		SLT	0002	0654	35	0002	0662
238		STU	HOLD6	0662	21	1999	1704
239		RAL	HOLD5	1704	65	1998	1754
240		SLT	0002	1754	35	0002	1712
241		STU	HOLD7	1712	21	1966	0620
242		RAL	8002	0620	65	8002	0529
243		SRT	0004	0529	30	0004	0489
244		SLT	0002	0489	35	0002	0495
245		ALO	HOLD7	0495	15	1966	0671
246		RAU	8002	0671	60	8002	0579
247		ALO	HOLD1	0579	15	1994	1804
248		SLT	0002	1804	35	0002	1762

249		STU	HOLD7	EXIT	1762	21	1966	1703
250	SUBR7	STD	HOLD2		1854	24	1995	1698
251		SLT	0001		1698	35	0001	1805
252		STU	HOLD3		1805	21	1996	1904
253		SLT	0002		1904	35	0002	1812
254		LDD	FIND		1812	69	1766	0670
255		SDA	FIND		0670	22	1766	1720
256		LDD	BACK		1720	69	0573	0476
257		SDA	BACK		0476	22	0573	0526
258		SLT	0006		0526	35	0006	0491
259		RAL	8002		0491	65	8002	1855
260		SRT	0005		1855	30	0005	1767
261		LDD	IN		1767	69	1770	0623
262		SDA	IN		0623	22	1770	0673
263		LDD	OUT		0673	69	0576	0679
264		SDA	OUT		0679	22	0576	1729
265		RAU	RZULT		1729	60	1976	0581
266		NZU	TIE		0581	44	1735	0536
267		BMI	LOSS		1735	46	0488	0539
268	LOSS	RAU	B0009	PUT	0539	60	0030	1785
269		RAU	HOLD3		0488	60	1996	1706
270		NZU	FIND		1706	44	1862	1766
271		SUP	B0007		1862	11	0028	0583
272		BMI	SET5		0583	46	0586	0637
273		AUP	B0006	PUT	0586	10	0027	1785
274	SET5	RAU	B0005	PUT	0637	60	0026	1785
275	TIE	RAU	HOLD3		0536	60	1996	1756
276		SUP	B0006		1756	11	0027	0631
277		NZU	FIND		0631	44	1835	1766
278		BMI	SMALL		1835	46	0538	0589
279		AUP	B0005	PUT	0589	10	0026	1785
280	SMALL	AUP	B0007	PUT	0538	10	0028	1785
281	PUT	STU	HOLD3	FIND	1785	21	1996	1766
282	FIND	RAU	0000	IN	1766	60	0000	1770
283	IN	SRT	0009		1770	30	0009	0541
284		STL	HOLD1		0541	20	1994	1897
285		SRT	0001		1897	30	0001	1806
286		RAU	8003		1806	60	8003	1863
287		SLT	0001		1863	35	0001	1820
288		AUP	HOLD3		1820	10	1996	1856
289	OUT	ALO	HOLD1	OUT	1856	15	1994	0576
290	BACK	SLT	0009	BACK	0576	35	0009	0573
291	SUBR8	STU	0000	HOLD2	0573	21	0000	1995
292		STU	HOLD3		1858	24	1703	0614
293		STU	HOLD2	SHFT8	0614	21	1996	0664
294	SHFT8	SLT	0001		0664	21	1995	1748
295		NZU	WORKS		1748	35	0001	1714
296		SUP	B0001		1714	44	1817	0518
297		NZU	WORKS		1817	11	0022	1777
298		AUP	B0002	WORKS	1777	44	0518	0482
299	WORKS	STL	HOLD1		0482	10	0023	0518
300		SRT	0001		0518	20	1994	1798
301		AUP	HOLD2		1798	30	0001	1764
302		SLT	0001		1764	10	1995	1814
303		STU	HOLD2		1814	35	0001	1721
304		RAU	HOLD3		1721	21	1995	1848
305		SUP	B0009		1848	60	1996	1864
306		NZU	EXIT		1864	11	0030	1885
307		AUP	B0010		1885	44	0639	1703
308		STU	HOLD3		0639	10	0031	0636
309		RAL	HOLD1	SHFT8	0636	21	1996	1816
310					1816	65	1994	1748

311		BR2	RAL	HMOVE		0005	65	0001	1866
312		AUP	ALARM			1866	10	1870	0675
313		LDD		SUBR2		0675	69	0478	0550
314		RAL	HMOVE			0478	65	0001	1867
315	-	LDD		SUBR3		1867	69	1771	0600
316		LDD		SUBR4		1771	-69	0574	0650
317		LDD		SUBR8		0574	69	1827	1858
318		RAL	HOLD2			1827	65	1995	0568
319		LDD		SUBR6		0568	69	1821	1701
320		RAL	AWAY			1821	65	0624	1779
321		ALO	20DA			1779	15	0532	0687
322		STL	AWAY			0687	20	0624	1877
323		LDD	READY	ROUT1		1877	69	0530	0633
324	ROUT1	STD	LEAVE			0633	24	1977	0580
325		RAL	HOLD4			0580	65	1997	0618
326		LDD		SUBR5		0618	69	1871	1750
327		AUP	LOCA			1871	10	1982	1737
328		ALO	AWAY	8002		1737	15	0624	8002
329	AWAY1	STU	W0001	V0001		0668	21	1916	0627
330	V0001	ALO	10001			0627	15	0680	0686
331		STL	AWAY			0686	20	0624	0528
332		RAL	HOLD5			0528	65	1998	1718
333		LDD		SUBR5		1718	69	0622	1750
334		AUP	LOCA			0622	10	1982	1787
335		ALO	AWAY	8002		1787	15	0624	8002
336	V0002	ALO	10001			0628	15	0680	1736
337		STL	AWAY			1736	20	0624	0578
338		RAL	HOLD6			0578	65	1999	1768
339		LDD		SUBR5		1768	69	0672	1750
340		AUP	LOCA			0672	10	1982	1837
341		ALO	AWAY	8002		1837	15	0624	8002
342	V0003	ALO	10001			0629	15	0680	1786
343		STL	AWAY			1786	20	0624	0678
344		RAL	HOLD7			0678	65	1966	1722
345		LDD		SUBR5		1722	69	1725	1750
346		AUP	LOCA			1725	10	1982	1887
347		ALO	AWAY	8002		1887	15	0624	8002
348	V0004	ALO	9997			0630	15	0683	0588
349		STL	AWAY			0588	20	0624	1977
350	READY	RAL	AWAY			0530	65	0624	1829
351		SLO	24DA			1829	16	0582	0638
352		STL	AWAY			0638	20	0624	1728
353		RAU	TEST1			1728	60	0681	1836
354	- TEST1	LDD	HPOS	SUBR1		1836	69	0560	0500
355		RAU	TALLY			0681	-60	1984	0689
356		SUP	B0008			0689	11	0029	1733
357		NZU		DRAW1		1733	44	0688	1738
358		AUP	B0009			0688	10	0030	1886
359		STU	TALLY	MTURN		1886	21	1984	0695
360	MTURN	R&U	BEGIN			0695	60	1898	1818
361		STD	TRY			1818	24	1772	1775
362		STU	HIGH			1775	20	1879	0632
363		LDD	MPOS			0632	69	0552	1868
364		STD	KEEP	LOOP		1868	24	1822	1825
365	RESET	LDD	KEEP			1872	69	1822	1875
366		STD	MPOS	LOOP		1875	24	0552	1825
367	LOOP	RAL	TRY	8002		1825	65	1772	8002
368	BEGIN	AUP	B0001			1898	10	0022	1778
369		STU	TMOVE			1778	21	1977	1730
370		SUP	B0010			1730	11	0031	1788
371		BMI		END3		1788	46	0591	0492
372		AUP	8001			0591	10	8001	1723

373	ALO	ONEDA		1723	15	0003	1773
374	STL	TRY		1773	20	1772	0626
375	RAL	8003		0626	65	8003	1783
376	AUP	LOOP		1783	10	1825	1780
377	LDD	SUBR2		1780	69	1833	0550
378	RAL	TMOVE		1833	65	1977	1731
379	LDD	SUBR3		1731	69	0534	0600
380	LDD	SUBR4		0534	69	1838	0650
381	LDD	SUBR5		1838	69	0641	1750
382	SUP	HIGH		0641	11	1879	1883
383	BMI	RESET		1883	46	1872	1888
384	NZU	PUTJ		1888	44	0691	0542
385	AUP	8001		0691	10	8001	1823
386	STU	HIGH		1823	21	1879	0682
387	STL	JAY	PUTJ	0682	20	1976	0542
388	PUTJ	RAL	JAY	0542	65	1976	1781
389	ALO	B0001		1781	15	0022	1828
390	STL	JAY		1828	20	1976	1830
391	SLT	0004		1830	35	0004	1741
392	AUP	TMOVE		1741	10	1977	1831
393	ALO	8002		1831	15	0584	8002
394	STU	J0000	RESET	0584	21	1904	1872
395	END3	RAU	RANDM	0492	60	1697	1873
396		MPY	AWAY	1873	19	0624	0694
397		SRT	0003	0694	30	0003	0674
398		STL	RANDM	0674	20	1697	1724
399		RAL	8002	1724	65	8002	0634
400		DIV	JAY	0634	14	1976	1739
401		RAU	8003	1739	60	8003	1774
402		SLT	0004	1774	35	0004	1789
403		AUP	8003	1789	10	0592	8003
404		RAL	J0001	0592	65	1905	1824
405		STD	MMOVE	1824	24	0002	1874
406		LDD	SUBR3	1874	69	1878	0600
407		LDD	SUBR4	1878	69	1881	0650
408		LDD	SUBR6	1881	69	0684	1701
409		LDD	ROUT1	0684	69	1839	0633
410		RAU	TEST2	1839	60	0642	0676
411		LDD	MPOS	0676	69	0552	0500
412	TEST2	RAU	TALLY	0642	60	1984	1889
413		SUP	B0008	1889	11	0029	1734
414		NZU	DRAW2	1734	44	0640	0690
415		AUP	B0009	0640	10	0030	1740
416		STU	TALLY	1740	21	1984	1790
417		LDD	ALARM	1790	69	1870	1726
418		STD	MFRST	1726	24	0034	0007
419	WON	RAL	B0001	0481	65	0022	1880
420		LDD	ENDW	1880	69	0012	1776
421	LOST	RSL	B0001	0480	66	0022	1732
422		LDD	ENDL	1732	69	0036	1776
423	DRAW1	RSU	B0001	1738	61	0022	1782
424	DRAW2	RAU	B0001	0690	60	0022	1782
425	DRAWN	LDD	ENDD	1782	69	0013	1776
426	FINIS	STD	END	1776	24	0008	1826
427		STU	HOLD7	1826	21	1966	1876
428		STL	RZULT	1876	20	1976	1832
429		RAL	8002	1832	65	1840	8002
430		AUP	W0001	1840	10	1916	1882
431		NZU	SWICH	1882	44	1890	1791
432		ALO	ONEDA	1890	15	0003	1784
433		STL	BRING	1784	20	1977	1834
434		RAL	8003	1834	65	8003	1841

435		LDD	SUBR7	1841	69	1744	1854	
436		RAL	BRING	1744	65	1977	8002	
437	SWICH	RSU	RZULT	1791	61	1976	1884	
438		STU	RZULT	1884	21	1976	1891	
439		RAU	W0021	1891	60	1936	0692	
440		NZU	RIGHT	0692	44	0545	0496	
441		RAL	4DA	0496	65	1742	1792	
442	RIGHT	RAL	8002	0545	65	8002	1792	
443	GO	ALO	8002	1792	15	0595	8002	
444		AUP	W0021	0595	10	1936	1842	
445		NZU	FF	1842	44	0645	0546	
446		ALO	ONEDA	0645	15	0003	1892	
447		STL	BRING	1892	20	1977	1743	
448		RAL	8003	1743	65	8003	1793	
449		LDD	SUBR7	1793	69	0596	1854	
450		RAL	BRING	0596	65	1977	8002	
451	FF	RSU	RZULT	0546	61	1976	1843	
452		NZU	FINE	1843	44	1893	1794	
453		RAU	HOLD7	1794	60	1966	1893	
454	FINE	BMI	SKIP	1893	46	0009	0007	
455	CL2	LDD	AWAY1	0139	69	0668	1844	
456		STD	AWAY	1844	24	0624	1894	
457		LDD	1ST M	1894	69	1745	1795	
458		STD	MFRST	1795	24	0034	1845	
459		RAU	EMPTY	1845	60	0610	1895	
460		STD	HPOS	1895	24	0560	0646	
461		STD	MPOS	TR2	0646	24	0552	0035
462	1ST M	RSU	8003	1745	61	0696	8003	
463		STL	1980	MTURN	0696	20	1980	0695
464	9997	00	0000	9997	0683		9997	
465	10001	00	0001	0001	0680		10001	
466	ALARM	NOP	0000	ERROR	1870		10	
467	7THOU	00	0000	7000	0643		7000	
468	EMPTY	88	8888	8888	0610	88	8888	8888
469	4DA	00	0004	0000	1742		40000	
470	24DA	00	0024	0000	0582		240000	
471	20DA	00	0020	0000	532		200000	
472	333	00	0000	0333	1719		333	
473	RANDM	62	5073	9481	1697	62	5073	9481
474		PAT						

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B R A I N I I I

	REG	P1977	1984		0064	20	1916	0080
	REG	M1985	1994		0500	91	0503	0505
	REG	T0016	0021		0503	92	0506	0508
	REG	B0022	0033		0506	93	0509	0511
	SYN	HMOVE	0001		0509	94	0512	0514
	SYN	MMOVE	0002		0512	97	8003	0517
	SYN	ONEDA	0003		0517	98	8003	0522
	SYN	BRAIN	0004		0522	99	8003	0477
	SYN	BR2	0005		0514	95	0512	0519
	SYN	RLOUT	0006		0519	96	0512	0477
	SYN	OUT2	0007		0511	95	0564	0516
	SYN	END	0008		0516	97	0564	0477
	SYN	SKIP	0009					
	SYN	ERROR	0010					
	SYN	TRANS	0011					
	SYN	ENDD	0013					
	SYN	ENDL	0036					
	SYN	ENDW	0012					
	SYN	ADD	0014					
	SYN	TSUBR	0015					
	SYN	MFRST	0034					
	SYN	TR2	0035					
	SYN	CL2	0139					
	SYN	CLEAN	0140					
	BLR	0000	0475					
	BLR	1957	1976					
	BLR	0700	1696					
	REG	W1916	1956					
	REG	V0627	0630					
	REG	P1977	1986					
	SYN	LEAVE	1977					
	SYN	TMOVE	LEAVE					
	SYN	BRING	TMOVE					
	SYN	MTURN	0695					
	SYN	HOLD1	1994					
	SYN	HOLD2	1995					
	SYN	HOLD3	1996					
	SYN	HOLD4	1997					
	SYN	HOLD5	1998					
	SYN	HOLD6	1999					
	SYN	HOLD7	1966					
	SYN	RZULT	1976					
	SYN	JAY	RZULT					
	SYN	RHO	1982					
	SYN	LOCA	RHO					
	SYN	TALLY	1984					
	REG	J1905	1915					
	SYN	RANDM	1697					
	0064	20	1916	0080				
	SUBR1	BD1	8A	9A				
		BD2	8B	9B				
		BD3	8C	9C				
		BD4	8D	9D				
		BD7	8003	9E				
		BD8	8003	9F				
		BD9	8003	BINGO				
		BD5	8D	9G				
		BD6	8D	BINGO				
		BD5	8E	9H				
		BD7	8E	BINGO				

63	8 E	BD6	8 C	9 I	0564	96	0509	0569
64	9 I	BD9	8 C	BINGO	0569	99	0509	0477
65	9 B	BD5	8 B	9 J	0508	95	0506	0513
66	9 J	BD8	8 B	BINGO	0513	98	0506	0477
67	9 A	BD4	8 F	9 K	0505	94	0558	0510
68	9 K	BD7	8 F	BINGO	0510	97	0558	0477
69	8 F	BD5	8 G	9 L	0558	95	0561	0563
70	9 L	BD9	8 G	BINGO	0563	99	0561	0477
71	8 G	BD2	8 B	9 M	0561	92	0506	0566
72	9 M	BD3	9 B	BINGO	0566	93	0508	0477
73	BINGO	BMI	LOST	WON	0477	46	0480	0481
74	SUBR2	STD	HOLD1		0550	24	1994	0497
75		STU	HOLD2		0497	21	1995	0498
76		SLT	0008		0498	35	0008	0567
77		ALO	FUDGE		0567	15	0520	0525
78		STL	HOLD3		0525	20	1996	0499
79		RAL	INST		0499	65	0502	0507
80		LDD	HPOS	HOLD3	0507	69	0560	1996
81	INST	RAL	HOLD1		0502	65	1994	0549
82		LDD	MPOS	HOLD3	0549	69	0552	1996
83	FUDGE	90	8002	HOLD2	0520	90	8002	1995
84	SUBR3	STD	HOLD1		0600	24	1994	0547
85		SLO	B0001		0547	16	0022	0527
86		SLT	0004		0527	35	0004	0487
87		LDD	SHIFT		0487	69	0490	0493
88		SDA	SHIFT		0493	22	0490	0543
89		RAL	B0001	SHIFT	0543	65	0022	0490
90	SHIFT	SLT	0008		0490	35	0008	0559
91		AUP	HOLD1		0559	10	1994	0599
92		BMI	HUMAN		0599	46	0602	0553
93		ALO	MPOS		0553	15	0552	0557
94		STL	MPOS	HOLD1	0557	20	0552	1994
95	HUMAN	SUP	8001		0602	11	8001	0609
96		ALO	HPOS		0609	15	0560	0515
97		STL	HPOS	HOLD1	0515	20	0560	1994
98	SUBR4	STD	HOLD7		0650	24	1966	0619
99		RAU	MPOS		0619	60	0552	0607
100		SUP	EMPTY		0607	11	0610	0565
101		MPY	B0002		0565	19	0023	0494
102		ALO	HPOS		0494	15	0560	0615
103		SLO	EMPTY		0615	16	0610	0665
104		SLT	0004		0665	35	0004	0575
105		STU	HOLD1		0575	21	1994	0597
106		RAL	8002		0597	65	8002	0555
107		SLT	0001		0555	35	0001	0611
108		STU	HOLD2		0611	21	1995	0548
109		RAL	8002		0548	65	8002	0657
110		SLT	0001		0657	35	0001	0613
111		STU	HOLD3		0613	21	1996	0649
112		RAL	8002		0649	65	8002	1707
113		SLT	0001		1707	35	0001	0663
114		STU	HOLD4		0663	21	1997	1700
115		RAL	8002		1700	65	8002	0659
116		SLT	0001		0659	35	0001	1715
117		STU	HOLD5		1715	21	1998	0501
118		RAL	8002		0501	65	8002	1709
119		SLT	0001		1709	35	0001	1765
120		STU	HOLD6		1765	21	1999	0652
121		SLT	0002		0652	35	0002	1759
122		AUP	HOLD6		1759	10	1999	0603
123		SLT	0001		0603	35	0001	1809
124		AUP	HOLD5		1809	10	1998	0653

125		SLT	0001		0653	35	0001	1859
126		AUP	HOLD2		1859	10	1995	0699
127		SLT	0003		0699	35	0003	1757
128		AUP	HOLD1		1757	10	1994	1699
129		SLT	0001		1699	35	0001	0605
130		AUP	HOLD4		0605	10	1997	0551
131		SLT	0002		0551	35	0002	1807
132		AUP	HOLD3		1807	10	1996	0601
133		RAL	8003	HOLD7	0601	65	8003	1966
134	SUBR5	STD	EXIT		1750	24	1703	0556
135		LDD	STORE	HURRY	0556	69	0660	1713
136	HURRY	STD	HOLD4		1713	24	1997	1800
137		SLT	0001		1800	35	0001	1857
138		STU	HOLD1		1857	21	1994	0647
139		RAL	8002		0647	65	8002	0655
140		SLT	0001		0655	35	0001	0661
141		STU	HOLD2		0661	21	1995	0598
142		RAL	8002		0598	65	8002	0608
143		SLT	0001		0608	35	0001	1815
144		STU	HOLD3		1815	21	1996	1749
145		RAL	8002		1749	65	8002	0658
146		SLT	0001		0658	35	0001	1865
147		STL	RHO		1865	20	1982	0485
148		RAU	8003		0485	60	8003	0593
149		MPY	B0003		0593	19	0024	0544
150		ALO	HOLD3		0544	15	1996	0651
151		RAU	8002		0651	60	8002	1710
152		MPY	B0003		1710	19	0024	0594
153		ALO	HOLD2		0594	15	1995	1799
154		RAU	8002		1799	60	8002	1708
155		MPY	B0003		1708	19	0024	0644
156		ALO	HOLD1	HOLD4	0644	15	1994	1997
157	STORE	STL	SIGMA		0660	20	0616	0669
158		RAL	RHO		0669	65	1982	0537
159		LDD		HURRY	0537	69	0540	1713
160		LDD	RHO		0540	69	1982	0535
161		STD	HOLD1		0535	24	1994	0697
162		STL	RHO		0697	20	1982	0585
163		SLO	SIGMA		0585	16	0616	0521
164		BMI	OK		0521	46	0524	0625
165		ALO	8001		0625	15	8001	0483
166		STD	RHO		0483	24	1982	0635
167	OK	STL	SIGMA	OK	0635	20	0616	0524
168		RAU	HOLD1		0524	60	1994	1849
169		SRT	0007		1849	30	0007	0666
170		MPY	333		0666	19	1719	0590
171		ALO	7THOU		0590	15	0643	1747
172		STL	HOLD1		1747	20	1994	1797
173		RAU	SIGMA		1797	60	0616	0571
174		AUP	B0001		0571	10	0022	0577
175		MPY	SIGMA		0577	19	0616	0486
176		DIV	B0002		0486	14	0023	0484
177		ALO	RHO		0484	15	1982	0587
178		ALO	HOLD1		0587	15	1994	1899
179		STL	LOCA		1899	20	1982	0685
180		RAU	8002		0685	60	8002	0693
181		SRT	0001		0693	30	0001	1850
182		AUP	8002		1850	10	8002	1760
183		RAU	8003		1760	60	8003	0617
184		SRT	0005		0617	30	0005	0479
185		STU	HOLD2		0479	21	1995	0648
186		SLT	0009		0648	35	0009	1769

187	AUP	0003	8003	1769	10	0572	8003
188	RAU	0000		0572	60	0000	1705
189	ALO	HOLD2		1705	15	1995	1900
190	LDD	ISOL		1900	69	1753	0606
191	SDA	ISOL	8001	0606	22	1753	8001
192	ISOL	SRT	0009	1753	30	0009	0523
193		RAU	8003	0523	60	8003	0531
194		SLT	0009	0531	35	0009	1703
195	SUBR6	STD	EXIT	1701	24	1703	0656
196		STL	HOLD4	0656	20	1997	1751
197		LDD	MID6	1751	69	0504	1758
198	INVRT	STD	HOLD3	1758	24	1996	1801
199		SLT	0001	1801	35	0001	1808
200		STU	HOLD5	1808	21	1998	1851
201		RAL	8002	1851	65	8002	1810
202		SLT	0001	1810	35	0001	0667
203		STU	HOLD6	0667	21	1999	1702
204		RAL	8002	1702	65	8002	1711
205		SLT	0001	1711	35	0001	1717
206		STU	HOLD7	1717	21	1966	1819
207		RAL	8002	1819	65	8002	0677
208		SLT	0001	0677	35	0001	0533
209		STL	HOLD1	0533	20	1994	1847
210		RAU	8003	1847	60	8003	1755
211		SLT	0001	1755	35	0001	1761
212		AUP	HOLD7	1761	10	1966	0621
213		SLT	0001	0621	35	0001	1727
214		AUP	HOLD6	1727	10	1999	1803
215		SLT	0001	1803	35	0001	1860
216		AUP	HOLD5	1860	10	1998	1996
217	MID6	STU	HOLD2	0504	21	1995	0698
218		RAL	HOLD1	0698	65	1994	1901
219		LDD	INVRT	1901	69	0554	1758
220		SRT	0004	0554	30	0004	1716
221		AUP	HOLD2	1716	10	1995	1752
222		SRT	0002	1752	30	0002	1811
223		ALO	HOLD2	1811	15	1995	1802
224		SRT	0003	1802	30	0003	1861
225		RAU	8002	1861	60	8002	1869
226		ALO	HOLD1	1869	15	1994	1852
227		SLT	0002	1852	35	0002	0562
228		STU	HOLD5	0562	21	1998	1902
229		RAL	HOLD4	1902	65	1997	1853
230		SLT	0002	1853	35	0002	0612
231		STU	HOLD6	0612	21	1999	1903
232		SRT	0004	1903	30	0004	1763
233		SLT	0002	1763	35	0002	0570
234		ALO	HOLD6	0570	15	1999	0604
235		RAU	8002	0604	60	8002	1813
236		ALO	HOLD1	1813	15	1994	0654
237		SLT	0002	0654	35	0002	0662
238		STU	HOLD6	0662	21	1999	1704
239		RAL	HOLD5	1704	65	1998	1754
240		SLT	0002	1754	35	0002	1712
241		STU	HOLD7	1712	21	1966	0620
242		RAL	8002	0620	65	8002	0529
243		SRT	0004	0529	30	0004	0489
244		SLT	0002	0489	35	0002	0495
245		ALO	HOLD7	0495	15	1966	0671
246		RAU	8002	0671	60	8002	0579
247		ALO	HOLD1	0579	15	1994	1804
248		SLT	0002	1804	35	0002	1762

249		STU	HOLD7	EXIT	1762	21	1966	1703
250	SUBR7	STD	HOLD2		1854	24	1995	1698
251		SLT	0001		1698	35	0001	1805
252		STU	HOLD3		1805	21	1996	1904
253		SLT	0002		1904	35	0002	1812
254		LDD	FIND		1812	69	1766	0670
255		SDA	FIND		0670	22	1766	1720
256		LDD	BACK		1720	69	0573	0476
257		SDA	BACK		0476	22	0573	0526
258		SLT	0006		0526	35	0006	0491
259		RAL	8002		0491	65	8002	1855
260		SRT	0005		1855	30	0005	1767
261		LDD	IN		1767	69	1770	0623
262		SDA	IN		0623	22	1770	0673
263		LDD	OUT		0673	69	0576	0679
264		SDA	OUT		0679	22	0576	1729
265		RAU	RZULT		1729	60	1976	0581
266		NZU	TIE		0581	44	1735	0536
267		BMI	LOSS		1735	46	0488	0539
268	LOSS	RAU	B0009	PUT	0539	60	0030	1785
269		RAU	HOLD3		0488	60	1996	1706
270		NZU	FIND		1706	44	1862	1766
271		SUP	B0007		1862	11	0028	0583
272		BMI	SET5		0583	46	0586	0637
273		AUP	B0006	PUT	0586	10	0027	1785
274	SET5	RAU	B0005	PUT	0637	60	0026	1785
275	TIE	RAU	HOLD3		0536	60	1996	1756
276		SUP	B0006		1756	11	0027	0631
277		NZU	FIND		0631	44	1835	1766
278		BMI	SMALL		1835	46	0538	0589
279		AUP	B0005	PUT	0589	10	0026	1785
280	SMALL	AUP	B0007	PUT	0538	10	0028	1785
281	PUT	STU	HOLD3	FIND	1785	21	1996	1766
282	FIND	RAU	0000	IN	1766	60	0000	1770
283	IN	SRT	0009		1770	30	0009	0541
284		STL	HOLD1		0541	20	1994	1897
285		SRT	0001		1897	30	0001	1806
286		RAU	8003		1806	60	8003	1863
287		SLT	0001		1863	35	0001	1820
288		AUP	HOLD3		1820	10	1996	1856
289	OUT	ALO	HOLD1	OUT	1856	15	1994	0576
290	BACK	SLT	0009	BACK	0576	35	0009	0573
291	SUBR8	STU	0000	HOLD2	0573	21	0000	1995
292		STU	EXIT		1858	24	1703	0614
293		STU	HOLD3		0614	21	1996	0664
294		STU	HOLD2	SHFT8	0664	21	1995	1748
295	SHFT8	SLT	0001		1748	35	0001	1714
296		NZU	WORKS		1714	44	1817	0518
297		SUP	B0001		1817	11	0022	1777
298		NZU	WORKS		1777	44	0518	0482
299		AUP	B0002	WORKS	0482	10	0023	0518
300	WORKS	STL	HOLD1		0518	20	1994	1798
301		SRT	0001		1798	30	0001	1764
302		AUP	HOLD2		1764	10	1995	1814
303		SLT	0001		1814	35	0001	1721
304		STU	HOLD2		1721	21	1995	1848
305		RAU	HOLD3		1848	60	1996	1864
306		SUP	B0009		1864	11	0030	1885
307		NZU	EXIT		1885	44	0639	1703
308		AUP	B0010		0639	10	0031	0636
309		STU	HOLD3		0636	21	1996	1816
310		RAL	HOLD1	SHFT8	1816	65	1994	1748

311		BR2	RAL	HMOVE		0005	65	0001	1866
312			AUP	ALARM		1866	10	1870	0675
313			LDD		SUBR2	0675	69	0478	0550
314			RAL	HMOVE		0478	65	0001	1867
315			LDD		SUBR3	1867	69	1771	0600
316	-		LDD		SUBR4	1771	-69	0574	0650
317			LDD		SUBR8	0574	69	1827	1858
318			RAL	HOLD2		1827	65	1995	0568
319			LDD		SUBR6	0568	69	1821	1701
320			RAL	AWAY		1821	65	0624	1779
321			ALO	20DA		1779	15	0532	0687
322			STL	AWAY		0687	20	0624	1877
323			LDD	READY	ROUT1	1877	69	0530	0633
324		ROUT1	STD	LEAVE		0633	24	1977	0580
325			RAL	HOLD4		0580	65	1997	0618
326			LDD		SUBR5	0618	69	1871	1750
327			AUP	LOCA		1871	10	1982	1737
328			ALO	AWAY	8002	1737	15	0624	8002
329		AWAY1	STU	W0001	V0001	0668	21	1916	0627
330		V0001	ALO	10001		0627	15	0680	0686
331			STL	AWAY		0686	20	0624	0528
332			RAL	HOLD5		0528	65	1998	1718
333			LDD		SUBR5	1718	69	0622	1750
334			AUP	LOCA		0622	10	1982	1787
335			ALO	AWAY	8002	1787	15	0624	8002
336		V0002	ALO	10001		0628	15	0680	1736
337			STL	AWAY		1736	20	0624	0578
338			RAL	HOLD6		0578	65	1999	1768
339			LDD		SUBR5	1768	69	0672	1750
340			AUP	LOCA		0672	10	1982	1837
341			ALO	AWAY	8002	1837	15	0624	8002
342		V0003	ALO	10001		0629	15	0680	1786
343			STL	AWAY		1786	20	0624	0678
344			RAL	HOLD7		0678	65	1966	1722
345			LDD		SUBR5	1722	69	1725	1750
346			AUP	LOCA		1725	10	1982	1887
347			ALO	AWAY	8002	1887	15	0624	8002
348		V0004	ALO	9997		0630	15	0683	0588
349			STL	AWAY	LEAVE	0588	20	0624	1977
350		READY	RAL	AWAY		0530	65	0624	1829
351			SLO	24DA		1829	16	0582	0638
352			STL	AWAY		0638	20	0624	1728
353			RAU	TEST1		1728	60	0681	1836
354			LDD	HPOS	SUBR1	1836	69	0560	0500
355	-	TEST1	RAU	TALLY		0681	-60	1984	0689
356			SUP	B0008		0689	11	0029	1733
357			NZU		DRAW1	1733	44	0688	1738
358			AUP	B0009		0688	10	0030	1886
359			STU	TALLY	MTURN	1886	21	1984	0695
360		MTURN	RAU	BEGIN		0695	60	1898	1818
361			STD	TRY		1818	24	1772	1775
362			STL	HIGH		1775	20	1879	0632
363			LDD	MPOS		0632	69	0552	1868
364			STD	KEEP	LOOP	1868	24	1822	1825
365		RESET	LDD	KEEP		1872	69	1822	1875
366			STD	MPOS	LOOP	1875	24	0552	1825
367		LOOP	RAL	TRY	8002	1825	65	1772	8002
368		BEGIN	AUP	B0001		1898	10	0022	1778
369			STU	TMOVE		1778	21	1977	1730
370			SUP	B0010		1730	11	0031	1788
371			BMI		END3	1788	46	0591	0492
372			AUP	8001		0591	10	8001	1723

373	ALO	ONEDA		1723	15	0003	1773
374	STL	TRY		1773	20	1772	0626
375	RAL	8003		0626	65	8003	1783
376	AUP	LOOP		1783	10	1825	1780
377	LDD	SUBR2		1780	69	1833	0550
378	RAL	TMOVE		1833	65	1977	1731
379	LDD	SUBR3		1731	69	0534	0600
380	LDD	SUBR4		0534	69	1838	0650
381	LDD	SUBR5		1838	69	0641	1750
382	SUP	HIGH		0641	11	1879	1883
383	BMI	RESET		1883	46	1872	1888
384	NZU	PUTJ		1888	44	0691	0542
385	AUP	8001		0691	10	8001	1823
386	STU	HIGH		1823	21	1879	0682
387	STL	JAY	PUTJ	0682	20	1976	0542
388	RAL	JAY		0542	65	1976	1781
389	ALO	B0001		1781	15	0022	1828
390	STL	JAY		1828	20	1976	1830
391	SLT	0004		1830	35	0004	1741
392	AUP	TMOVE		1741	10	1977	1831
393	ALO	8002		1831	15	0584	8002
394	STU	J0000	RESET	0584	21	1904	1872
395	END3	RAU	RANDM	0492	60	1697	1873
396		MPY	AWAY	1873	19	0624	0694
397		SRT	0003	0694	30	0003	0674
398		STL	RANDM	0674	20	1697	1724
399		RAL	8002	1724	65	8002	0634
400		DIV	JAY	0634	14	1976	1739
401		RAU	8003	1739	60	8003	1774
402		SLT	0004	1774	35	0004	1789
403		AUP	8003	1789	10	0592	8003
404		RAL	J0001	0592	65	1905	1824
405		STD	MMOVE	1824	24	0002	1874
406		LDD	SUBR3	1874	69	1878	0600
407		LDD	SUBR4	1878	69	1881	0650
408		LDD	SUBR6	1881	69	0684	1701
409		LDD	ROUT1	0684	69	1839	0633
410		RAU	TEST2	1839	60	0642	0676
411		LDD	MPOS	0676	69	0552	0500
412	TEST2	RAU	TALLY	0642	60	1984	1889
413		SUP	B0008	1889	11	0029	1734
414		NZU	DRAW2	1734	44	0640	0690
415		AUP	B0009	0640	10	0030	1740
416		STU	TALLY	1740	21	1984	1790
417		LDD	ALARM	1790	69	1870	1726
418		STD	MFRST	1726	24	0034	0007
419	WON	RAL	B0001	0481	65	0022	1880
420		LDD	ENDW	1880	69	0012	1776
421	LOST	RSL	B0001	0480	66	0022	1732
422		LDD	ENDL	1732	69	0036	1776
423	DRAW1	RSU	B0001	1738	61	0022	1782
424	DRAW2	RAU	B0001	0690	60	0022	1782
425	DRAWN	LDD	ENDD	1782	69	0013	1776
426	FINIS	STD	END	1776	24	0008	1826
427		STU	HOLD7	1826	21	1966	1876
428		STL	RZULT	1876	20	1976	1832
429		RAL	8002	1832	65	1840	8002
430		AUP	W0001	1840	10	1916	1882
431		NZU	SWICH	1882	44	1890	1791
432		ALO	ONEDA	1890	15	0003	1784
433		STL	BRING	1784	20	1977	1834
434		RAL	8003	1834	65	8003	1841

435		LDD	SUBR7	1841	69	1744	1854	
436		RAL	BRING	1744	65	1977	8002	
437	SWICH	RSU	RZULT	1791	61	1976	1884	
438		STU	RZULT	1884	21	1976	1891	
439		RAU	W0021	1891	60	1936	0692	
440		NZU	RIGHT	0692	44	0545	0496	
441		RAL	4DA	0496	65	1742	1792	
442	RIGHT	RAL	8002	0545	65	8002	1792	
443	GO	ALO		1792	15	0595	8002	
444		AUP	W0021	0595	10	1936	1842	
445		NZU		1842	44	0645	0546	
446		ALO	ONEDA	0645	15	0003	1892	
447		STL	BRING	1892	20	1977	1743	
448		RAL	8003	1743	65	8003	1793	
449		LDD	SUBR7	1793	69	0596	1854	
450		RAL	BRING	0596	65	1977	8002	
451	FF	RSU	RZULT	0546	61	1976	1843	
452		NZU	FINE	1843	44	1893	1794	
453		RAU	HOLD7	1794	60	1966	1893	
454	FINE	BMI	SKIP	1893	46	0009	0007	
455	CL2	LDD	AWAY1	0139	69	0668	1844	
456		STD	AWAY	1844	24	0624	1894	
457		LDD	1ST M	1894	69	1745	1795	
458		STD	MFRST	1795	24	0034	1845	
459		RAU	EMPTY	1845	60	0610	1895	
460		STD	HPOS	1895	24	0560	0646	
461		STD	MPOS	TR2	0646	24	0552	0035
462	1ST M	RSU		1745	61	0696	8003	
463		STL	8003	0696	20	1980	0695	
464	9997	00	0000	9997	0683		9997	
465	10001	00	0001	0001	0680		10001	
466	ALARM	NOP	0000	ERROR	1870		10	
467	7THOU	00	0000	7000	0643		7000	
468	EMPTY	88	8888	8888	0610	88	8888	
469	4DA	00	0004	0000	1742		0000	
470	24DA	00	0024	0000	0582		0000	
471	20DA	00	0020	0000	532		0000	
472	333	00	0000	0333	1719		333	
473	RANDM	62	5073	9481	1697	62	5073	9481
474		PAT						

BRAIN II

		B R A I N I I I	
1	1		
2		R E G P 1 9 7 7	1 9 8 4
3		R E G M 1 9 8 5	1 9 9 4
4		R E G T 0 0 1 6	0 0 2 1
5		R E G B 0 0 2 2	0 0 3 2
6		S Y N H M O V E	0 0 0 1
7		S Y N M M O V E	0 0 0 2
8		S Y N O N E D A	0 0 0 3
9		S Y N B R A I N	0 0 0 4
10		S Y N B R 2	0 0 0 5
11		S Y N R L O U T	0 0 0 6
12		S Y N O U T 2	0 0 0 7
13		S Y N E N D	0 0 0 8
14		S Y N S K I P	0 0 0 9
15		S Y N E R R O R	0 0 1 0
16		S Y N T R A N S	0 0 1 1
17		S Y N E N D D	0 0 1 2
18		S Y N E N D L	0 0 3 0
19		S Y N E N D W	0 0 1 2
20		S Y N A D D	0 0 1 4
21		S Y N T S U B R	0 0 1 5
22		S Y N M F R S T	0 0 3 4
23		S Y N T R 2	0 0 3 5
24		S Y N C L 2	0 1 3 9
25		S Y N C L E A N	0 1 4 0
26		B L R 0 0 0 0	0 4 7 5
27		B L R 1 9 5 7	1 9 7 6
28		B L R 0 7 0 0	1 6 9 6
29		R E G W 1 9 1 6	1 9 5 6
30		R E G V 0 6 2 7	0 6 3 0
31		R E G P 1 9 7 7	1 9 8 6
32		S Y N L E A V E	1 9 7 7
33		S Y N T M O V E	L E A V E
34		S Y N B R I N G	T M O V E
35		S Y N M T U R N	0 6 9 5
36		S Y N H O L D 1	1 9 9 4
37		S Y N H O L D 2	1 9 9 5
38		S Y N H O L D 3	1 9 9 6
39		S Y N H O L D 4	1 9 9 7
40		S Y N H O L D 5	1 9 9 8
41		S Y N H O L D 6	1 9 9 9
42		S Y N H O L D 7	1 9 6 6
43		S Y N R Z U L T	1 9 7 6
44		S Y N J A Y	R Z U L T
45		S Y N R H O	1 9 8 2
46		S Y N L O C A	R H O
47		S Y N T A L L Y	1 9 8 4
48		R E G J 1 9 0 5	1 9 1 5
49		S Y N R A N D M	1 6 9 7
50		0 0 6 4 2 0 1 9 1 6	0 0 8 0
51		S U B R 1 B D 1 8 A	9 A
52		8 A B D 2 8 B	9 B
53		8 B B D 3 8 C	9 C
54		8 C B D 4 8 D	9 D
55		8 D B D 7 8 0 0 3	9 E
56		9 E B D 8 8 0 0 3	9 F
57		9 F B D 9 8 0 0 3	B I N G O
58		9 D B D 5 8 D	9 G
59		9 G B D 6 8 D	B I N G O
60		9 C B D 5 8 E	9 H
61		9 H B D 7 8 E	B I N G O

63	8E	BD6	8C	9I		0564	96	0509	0569
64	9I	BD9	8C	BINGO		0569	99	0509	0477
65	9B	BD5	8B	9J		0508	95	0506	0513
66	9J	BD8	8B	BINGO		0513	98	0506	0477
67	9A	BD4	8F	9K		0505	94	0558	0510
68	9K	BD7	8F	BINGO		0510	97	0558	0477
69	8F	BD5	8G	9L		0558	95	0561	0563
70	9L	BD9	8G	BINGO		0563	99	0561	0477
71	8G	BD2	8B	9M		0561	92	0506	0566
72	9M	BD3	9B	BINGO		0566	93	0508	0477
73	BINGO	BMI	LOST	WON		0477	46	0480	0481
74	SUBR2	STD	HOLD1			0550	24	1994	0497
75		STU	HOLD2			0497	21	1995	0498
76		SLT	0008			0498	35	0008	0567
77		ALO	FUDGE			0567	15	0520	0525
78		STL	HOLD3			0525	20	1996	0499
79		RAL	INST			0499	65	0502	0507
80		LDD	HPOS	HOLD3		0507	69	0560	1996
81	INST	RAL	HOLD1			0502	65	1994	0549
82		LDD	MPOS	HOLD3		0549	69	0552	1996
83	FUDGE	90	8002	HOLD2		0520	90	8002	1995
84	SUBR3	STD	HOLD1			0600	24	1994	0547
85		SLO	B0001			0547	16	0022	0527
86		SLT	0004			0527	35	0004	0487
87		LDD	SHIFT			0487	69	0490	0493
88		SDA	SHIFT			0493	22	0490	0543
89		RAL	B0001	SHIFT		0543	65	0022	0490
90	SHIFT	SLT	0008			0490	35	0008	0559
91		AUP	HOLD1			0559	10	1994	0599
92		BMI	HUMAN			0599	46	0602	0553
93		ALO	MPOS			0553	15	0552	0557
94		STL	MPOS	HOLD1		0557	20	0552	1994
95	HUMAN	SUP	8001			0602	11	8001	0609
96		ALO	HPOS			0609	15	0560	0515
97		STL	HPOS	HOLD1		0515	20	0560	1994
98	SUBR4	STD	HOLD7			0650	24	1966	0619
99		RAU	MPOS			0619	60	0552	0607
100		SUP	EMPTY			0607	11	0610	0565
101		MPY	B0002			0565	19	0023	0494
102		ALO	HPOS			0494	15	0560	0615
103		SLO	EMPTY			0615	16	0610	0665
104		SLT	0004			0665	35	0004	0575
105		STU	HOLD1			0575	21	1994	0597
106		RAL	8002			0597	65	8002	0555
107		SLT	0001			0555	35	0001	0611
108		STU	HOLD2			0611	21	1995	0548
109		RAL	8002			0548	65	8002	0657
110		SLT	0001			0657	35	0001	0613
111		STU	HOLD3			0613	21	1996	0649
112		RAL	8002			0649	65	8002	1707
113		SLT	0001			1707	35	0001	0663
114		STU	HOLD4			0663	21	1997	1700
115		RAL	8002			1700	65	8002	0659
116		SLT	0001			0659	35	0001	1715
117		STU	HOLD5			1715	21	1998	0501
118		RAL	8002			0501	65	8002	1709
119		SLT	0001			1709	35	0001	1765
120		STU	HOLD6			1765	21	1999	0652
121		SLT	0002			0652	35	0002	1759
122		AUP	HOLD6			1759	10	1999	0603
123		SLT	0001			0603	35	0001	1809
124		AUP	HOLD5			1809	10	1998	0653

125		SLT	0001		0653	35	0001	1859
126		AUP	HOLD2		1859	10	1995	0699
127		SLT	0003		0699	35	0003	1757
128		AUP	HOLD1		1757	10	1994	1699
129		SLT	0001		1699	35	0001	0605
130		AUP	HOLD4		0605	10	1997	0551
131		SLT	0002		0551	35	0002	1807
132		AUP	HOLD3		1807	10	1996	0601
133		RAL	8003	HOLD7	0601	65	8003	1966
134	SUBR5	STD	EXIT		1750	24	1703	0556
135		LDD	STORE	HURRY	0556	69	0660	1713
136	HURRY	STD	HOLD4		1713	24	1997	1800
137		SLT	0001		1800	35	0001	1857
138		STU	HOLD1		1857	21	1994	0647
139		RAL	8002		0647	65	8002	0655
140		SLT	0001		0655	35	0001	0661
141		STU	HOLD2		0661	21	1995	0598
142		RAL	8002		0598	65	8002	0608
143		SLT	0001		0608	35	0001	1815
144		STU	HOLD3		1815	21	1996	1749
145		RAL	8002		1749	65	8002	0658
146		SLT	0001		0658	35	0001	1865
147		STL	RHO		1865	20	1982	0485
148		RAU	8003		0485	60	8003	0593
149		MPY	B0003		0593	19	0024	0544
150		ALO	HOLD3		0544	15	1996	0651
151		RAU	8002		0651	60	8002	1710
152		MPY	B0003		1710	19	0024	0594
153		ALO	HOLD2		0594	15	1995	1799
154		RAU	8002		1799	60	8002	1708
155		MPY	B0003		1708	19	0024	0644
156		ALO	HOLD1	HOLD4	0644	15	1994	1997
157	STORE	STL	SIGMA		0660	20	0616	0669
158		RAL	RHO		0669	65	1982	0537
159		LDD		HURRY	0537	69	0540	1713
160		LDD	RHO		0540	69	1982	0535
161		STD	HOLD1		0535	24	1994	0697
162		STL	RHO		0697	20	1982	0585
163		SLO	SIGMA		0585	16	0616	0521
164		BMI	OK		0521	46	0524	0625
165		ALO	8001		0625	15	8001	0483
166		STD	RHO		0483	24	1982	0635
167		STL	SIGMA	OK	0635	20	0616	0524
168	OK	RAU	HOLD1		0524	60	1994	1849
169		SRT	0007		1849	30	0007	0666
170		MPY	333		0666	19	1719	0590
171		ALO	7THOU		0590	15	0643	1747
172		STL	HOLD1		1747	20	1994	1797
173		RAU	SIGMA		1797	60	0616	0571
174		AUP	B0001		0571	10	0022	0577
175		MPY	SIGMA		0577	19	0616	0486
176		DIV	B0002		0486	14	0023	0484
177		ALO	RHO		0484	15	1982	0587
178		ALO	HOLD1		0587	15	1994	1899
179		STL	LOCA		1899	20	1982	0685
180		RAU	8002		0685	60	8002	0693
181		SRT	0001		0693	30	0001	1850
182		AUP	8002		1850	10	8002	1760
183		RAU	8003		1760	60	8003	0617
184		SRT	0005		0617	30	0005	0479
185		STU	HOLD2		0479	21	1995	0648
186		SLT	0009		0648	35	0009	1769

187	AUP		8003	1769	10	0572	8003
188	RAU	0000		0572	60	0000	1705
189	ALO	HOLD2		1705	15	1995	1900
190	LDD	ISOL		1900	69	1753	0606
191	SDA	ISOL	8001	0606	22	1753	8001
192	ISOL	SRT	0009	1753	30	0009	0523
193		RAU	8003	0523	60	8003	0531
194		SLT	0009	0531	35	0009	1703
195	SUBR6	STD	EXIT	1701	24	1703	0656
196		STL	HOLD4	0656	20	1997	1751
197		LDD	MID6	1751	69	0504	1758
198	INVRT	STD	HOLD3	1758	24	1996	1801
199		SLT	0001	1801	35	0001	1808
200		STU	HOLD5	1808	21	1998	1851
201		RAL	8002	1851	65	8002	1810
202		SLT	0001	1810	35	0001	0667
203		STU	HOLD6	0667	21	1999	1702
204		RAL	8002	1702	65	8002	1711
205		SLT	0001	1711	35	0001	1717
206		STU	HOLD7	1717	21	1966	1819
207		RAL	8002	1819	65	8002	0677
208		SLT	0001	0677	35	0001	0533
209		STL	HOLD1	0533	20	1994	1847
210		RAU	8003	1847	60	8003	1755
211		SLT	0001	1755	35	0001	1761
212		AUP	HOLD7	1761	10	1966	0621
213		SLT	0001	0621	35	0001	1727
214		AUP	HOLD6	1727	10	1999	1803
215		SLT	0001	1803	35	0001	1860
216	MID6	AUP	HOLD5	1860	10	1998	1996
217		STU	HOLD2	0504	21	1995	0698
218		RAL	HOLD1	0698	65	1994	1901
219		LDD	INVRT	1901	69	0554	1758
220		SRT	0004	0554	30	0004	1716
221		AUP	HOLD2	1716	10	1995	1752
222		SRT	0002	1752	30	0002	1811
223		ALO	HOLD2	1811	15	1995	1802
224		SRT	0003	1802	30	0003	1861
225		RAU	8002	1861	60	8002	1869
226		ALO	HOLD1	1869	15	1994	1852
227		SLT	0002	1852	35	0002	0562
228		STU	HOLD5	0562	21	1998	1902
229		RAL	HOLD4	1902	65	1997	1853
230		SLT	0002	1853	35	0002	0612
231		STU	HOLD6	0612	21	1999	1903
232		SRT	0004	1903	30	0004	1763
233		SLT	0002	1763	35	0002	0570
234		ALO	HOLD6	0570	15	1999	0604
235		RAU	8002	0604	60	8002	1813
236		ALO	HOLD1	1813	15	1994	0654
237		SLT	0002	0654	35	0002	0662
238		STU	HOLD6	0662	21	1999	1704
239		RAL	HOLD5	1704	65	1998	1754
240		SLT	0002	1754	35	0002	1712
241		STU	HOLD7	1712	21	1966	0620
242		RAL	8002	0620	65	8002	0529
243		SRT	0004	0529	30	0004	0489
244		SLT	0002	0489	35	0002	0495
245		ALO	HOLD7	0495	15	1966	0671
246		RAU	8002	0671	60	8002	0579
247		ALO	HOLD1	0579	15	1994	1804
248		SLT	0002	1804	35	0002	1762

249		STU	HOLD7	EXIT	1762	21	1966	1703
250	SUBR7	STD	HOLD2		1854	24	1995	1698
251		SLT	0001		1698	35	0001	1805
252		STU	HOLD3		1805	21	1996	1904
253		SLT	0002		1904	35	0002	1812
254		LDD	FIND		1812	69	1766	0670
255		SDA	FIND		0670	22	1766	1720
256		LDD	BACK		1720	69	0573	0476
257		SDA	BACK		0476	22	0573	0526
258		SLT	0006		0526	35	0006	0491
259		RAL	8002		0491	65	8002	1855
260		SRT	0005		1855	30	0005	1767
261		LDD	IN		1767	69	1770	0623
262		SDA	IN		0623	22	1770	0673
263		LDD	OUT		0673	69	0576	0679
264		SDA	OUT		0679	22	0576	1729
265		RAU	RZULT		1729	60	1976	0581
266		NZU		TIE	0581	44	1735	0536
267		BMI	LOSS		1735	46	0488	0539
268		RAU	B0009	PUT	0539	60	0030	1785
269	LOSS	RAU	HOLD3		0488	60	1996	1706
270		NZU		FIND	1706	44	1862	1766
271		SUP	B0007		1862	11	0028	0583
272		BMI		SETS	0583	46	0586	0637
273		AUP	B0006	PUT	0586	10	0027	1785
274	SET5	RAU	B0005	PUT	0637	60	0026	1785
275	TIE	RAU	HOLD3		0536	60	1996	1756
276		SUP	B0006		1756	11	0027	0631
277		NZU		FIND	0631	44	1835	1766
278		BMI	SMALL		1835	46	0538	0589
279		AUP	B0005	PUT	0589	10	0026	1785
280	SMALL	AUP	B0007	PUT	0538	10	0028	1785
281	PUT	STU	HOLD3	FIND	1785	21	1996	1766
282	FIND	RAU	0000	IN	1766	60	0000	1770
283	IN	SRT	0009		1770	30	0009	0541
284		STL	HOLD1		0541	20	1994	1897
285		SRT	0001		1897	30	0001	1806
286		RAU	8003		1806	60	8003	1863
287		SLT	0001		1863	35	0001	1820
288		AUP	HOLD3		1820	10	1996	1856
289		ALO	HOLD1	OUT	1856	15	1994	0576
290	OUT	SLT	0009	BACK	0576	35	0009	0573
291	BACK	STU	0000	HOLD2	0573	21	0000	1995
292	SUBR8	STD	EXIT		1858	24	1703	0614
293		STU	HOLD3		0614	21	1996	0664
294		STU	HOLD2	SHFT8	0664	21	1995	1748
295	SHFT8	SLT	0001		1748	35	0001	1714
296		NZU		WORKS	1714	44	1817	0518
297		SUP	B0001		1817	11	0022	1777
298		NZU	WORKS		1777	44	0518	0482
299		AUP	B0002	WORKS	0482	10	0023	0518
300	WORKS	STL	HOLD1		0518	20	1994	1798
301		SRT	0001		1798	30	0001	1764
302		AUP	HOLD2		1764	10	1995	1814
303		SLT	0001		1814	35	0001	1721
304		STU	HOLD2		1721	21	1995	1848
305		RAU	HOLD3		1848	60	1996	1864
306		SUP	B0009		1864	11	0030	1885
307		NZU		EXIT	1885	44	0639	1703
308		AUP	B0010		0639	10	0031	0636
309		STU	HOLD3		0636	21	1996	1816
310		RAL	HOLD1	SHFT8	1816	65	1994	1748

311		BR2	RAL	HMOVE		0005	65	0001	1866
312		AUP	ALARM			1866	10	1870	0675
313		LDD		SUBR2		0675	69	0478	0550
314		RAL	HMOVE			0478	65	0001	1867
315		LDD		SUBR3		1867	69	1771	0600
316	-	LDD		SUBR4		1771	-69	0574	0650
317		LDD		SUBR8		0574	69	1827	1858
318		RAL	HOLD2			1827	65	1995	0568
319		LDD		SUBR6		0568	69	1821	1701
320		RAL	AWAY			1821	65	0624	1779
321		ALO	20DA			1779	15	0532	0687
322		STL	AWAY			0687	20	0624	1877
323		LDD	READY	ROUT1		1877	69	0530	0633
324	ROUT1	STD	LEAVE			0633	24	1977	0580
325		RAL	HOLD4			0580	65	1997	0618
326		LDD		SUBR5		0618	69	1871	1750
327		AUP	LOCA			1871	10	1982	1737
328		ALO	AWAY	8002		1737	15	0624	8002
329	AWAY1	STU	W0001	V0001		0668	21	1916	0627
330	V0001	ALO	10001			0627	15	0680	0686
331		STL	AWAY			0686	20	0624	0528
332		RAL	HOLD5			0528	65	1998	1718
333		LDD		SUBR5		1718	69	0622	1750
334		AUP	LOCA			0622	10	1982	1787
335		ALO	AWAY	8002		1787	15	0624	8002
336	V0002	ALO	10001			0628	15	0680	1736
337		STL	AWAY			1736	20	0624	0578
338		RAL	HOLD6			0578	65	1999	1768
339		LDD		SUBR5		1768	69	0672	1750
340		AUP	LOCA			0672	10	1982	1837
341		ALO	AWAY	8002		1837	15	0624	8002
342	V0003	ALO	10001			0629	15	0680	1786
343		STL	AWAY			1786	20	0624	0678
344		RAL	HOLD7			0678	65	1966	1722
345		LDD		SUBR5		1722	69	1725	1750
346		AUP	LOCA			1725	10	1982	1887
347		ALO	AWAY	8002		1887	15	0624	8002
348	V0004	ALO	9997			0630	15	0683	0588
349		STL	AWAY	LEAVE		0588	20	0624	1977
350	READY	RAL	AWAY			0530	65	0624	1829
351		SLO	24DA			1829	16	0582	0638
352		STL	AWAY			0638	20	0624	1728
353		RAU	TEST1			1728	60	0681	1836
354		LDD	HPOS	SUBR1		1836	69	0560	0500
355	- TEST1	RAU	TALLY			0681	-60	1984	0689
356		SUP	B0008			0689	11	0029	1733
357		NZU		DRAW1		1733	44	0688	1738
358		AUP	B0009			0688	10	0030	1886
359		STU	TALLY	MTURN		1886	21	1984	0695
360	MTURN	RAU	BEGIN			0695	60	1898	1818
361		STD	TRY			1818	24	1772	1775
362		STL	HIGH			1775	20	1879	0632
363		LDD	MPOS			0632	69	0552	1868
364		STD	KEEP	LOOP		1868	24	1822	1825
365	RESET	LDD	KEEP			1872	69	1822	1875
366		STD	MPOS	LOOP		1875	24	0552	1825
367	LOOP	RAL	TRY	8002		1825	65	1772	8002
368	BEGIN	AUP	B0001			1898	10	0022	1778
369		STU	TMOVE			1778	21	1977	1730
370		SUP	B0010			1730	11	0031	1788
371		BMI		END3		1788	46	0591	0492
372		AUP	8001			0591	10	8001	1723

373	ALO	ONEDA		1723	15	0003	1773
374	STL	TRY		1773	20	1772	0626
375	RAL	8003		0626	65	8003	1783
376	AUP	LOOP		1783	10	1825	1780
377	LDD	SUBR2		1780	69	1833	0550
378	RAL	TMOVE		1833	65	1977	1731
379	LDD	SUBR3		1731	69	0534	0600
380	LDD	SUBR4		0534	69	1838	0650
381	LDD	SUBR5		1838	69	0641	1750
382	SUP	HIGH		0641	11	1879	1883
383	BMI	RESET		1883	46	1872	1888
384	NZU	PUTJ		1888	44	0691	0542
385	AUP	8001		0691	10	8001	1823
386	STU	HIGH		1823	21	1879	0682
387	STL	JAY	PUTJ	0682	20	1976	0542
388	PUTJ	RAL	JAY	0542	65	1976	1781
389	ALO	B0001		1781	15	0022	1828
390	STL	JAY		1828	20	1976	1830
391	SLT	0004		1830	35	0004	1741
392	AUP	TMOVE		1741	10	1977	1831
393	ALO	8002		1831	15	0584	8002
394	STU	J0000	RESET	0584	21	1904	1872
395	END3	RAU	RANDOM	0492	60	1697	1873
396		MPY	AWAY	1873	19	0624	0694
397		SRT	0003	0694	30	0003	0674
398		STL	RANDOM	0674	20	1697	1724
399		RAL	8002	1724	65	8002	0634
400		DIV	JAY	0634	14	1976	1739
401		RAU	8003	1739	60	8003	1774
402		SLT	0004	1774	35	0004	1789
403		AUP	8003	1789	10	0592	8003
404		RAL	J0001	0592	65	1905	1824
405		STD	MMOVE	1824	24	0002	1874
406		LDD	SUBR3	1874	69	1878	0600
407		LDD	SUBR4	1878	69	1881	0650
408		LDD	SUBR6	1881	69	0684	1701
409		LDD	ROUT1	0684	69	1839	0633
410		RAU	TEST2	1839	60	0642	0676
411	TEST2	LDD	MPOS	0676	69	0552	0500
412		RAU	TALLY	0642	60	1984	1889
413		SUP	B0008	1889	11	0029	1734
414		NZU	DRAW2	1734	44	0640	0690
415		AUP	B0009	0640	10	0030	1740
416		STU	TALLY	1740	21	1984	1790
417		LDD	ALARM	1790	69	1870	1726
418		STD	MFRST	1726	24	0034	0007
419	WON	RAL	B0001	0481	65	0022	1880
420		LDD	ENDW	1880	69	0012	1776
421	LOST	RSL	B0001	0480	66	0022	1732
422		LDD	ENDL	1732	69	0036	1776
423	DRAW1	RSU	B0001	1738	61	0022	1782
424	DRAW2	RAU	B0001	0690	60	0022	1782
425	DRAWN	LDD	ENDD	1782	69	0013	1776
426	FINIS	STD	END	1776	24	0008	1826
427		STU	HOLD7	1826	21	1966	1876
428		STL	RZULT	1876	20	1976	1832
429		RAL	8002	1832	65	1840	8002
430		AUP	W0001	1840	10	1916	1882
431		NZU	SWICH	1882	44	1890	1791
432		ALO	ONEDA	1890	15	0003	1784
433		STL	BRING	1784	20	1977	1834
434		RAL	8003	1834	65	8003	1841

435		LDD	SUBR7	1841	69	1744	1854
436		RAL	BRING	1744	65	1977	8002
437	SWICH	RSU	RZULT	1791	61	1976	1884
438		STU	RZULT	1884	21	1976	1891
439		RAU	W0021	1891	60	1936	0692
440		NZU	RIGHT	0692	44	0545	0496
441		RAL	4DA	0496	65	1742	1792
442	RIGHT	RAL	8002	0545	65	8002	1792
443	GO	ALO	8002	1792	15	0595	8002
444		AUP	W0021	0595	10	1936	1842
445		NZU	FF	1842	44	0645	0546
446		ALO	ONEDA	0645	15	0003	1892
447		STL	BRING	1892	20	1977	1743
448		RAL	8003	1743	65	8003	1793
449		LDD	SUBR7	1793	69	0596	1854
450		RAL	BRING	0596	65	1977	8002
451	FF	RSU	RZULT	0546	61	1976	1843
452		NZU	FINE	1843	44	1893	1794
453		RAU	HOLD7	1794	60	1966	1893
454	FINE	BMI	SKIP	1893	46	0009	0007
455	CL2	LDD	AWAY1	0139	69	0668	1844
456		STD	AWAY	1844	24	0624	1894
457		LDD	1ST M	1894	69	1745	1795
458		STD	MFRST	1795	24	0034	1845
459		RAU	EMPTY	1845	60	0610	1895
460		STD	HPOS	1895	24	0560	0646
461		STD	MPOS	0646	24	0552	0035
462	1ST M	RSU	8003	1745	61	0696	8003
463		STL	1980	0696	20	1980	0695
464	9997	00	0000	0683			9997
465	10001	00	0001	0680		1	0001
466	ALARM	NOP	0000	1870			10
467	7THOU	00	0000	0643			7000
468	EMPTY	88	8888	0610	88	8888	8888
469	4DA	00	0004	1742		4	0000
470	24DA	00	0024	0582		24	0000
471	20DA	00	0020	532		20	0000
472	333	00	0000	1719			333
473	RANDM	62	5073	1697	62	5073	9481
474		PAT					

	BOP	BRAIN	I	B
1	REG	M1985		1994
2	REG	P1977		1984
3	REG	T0016		0021
4	REG	B0022		0033
5	SYN	HMOVE		0001
6	SYN	MMOVE		0002
7	SYN	ONEDA		0003
8	SYN	BRAIN		0004
9	SYN	BR2		0005
10	SYN	RLOUT		0006
11	SYN	OUT2		0007
12	SYN	END		0008
13	SYN	SKIP		0009
14	SYN	ERROR		0010
15	SYN	TRANS		0011
16	SYN	ENDD		0013
17	SYN	ENDL		0036
18	SYN	ENDW		0012
19	SYN	ADD		0014
20	SYN	TSUBR		0015
21	SYN	MFRST		0034
22	SYN	TR2		0035
23	SYN	CL2		0139
24	SYN	CLEAN		0140
25	BLR	0476		1999
26	BLR	0000		0100
27	REG	X1957		1966
28	REG	Y1967		1976
29	REG	R0141		0267
30	REG	J0268		0319
31	BLA	0159		0159
32	BLA	0162		0162
33	BLA	0176		0176
34	BRAIN	RAL	HMOVE	
35		SLT	0004	
36		ALO		8002
37		RAL	X0000	
38		SLT	0004	
39		ALO		8002
40		RAL	Y0000	
41		SLT	0004	
42		LDD	SHIFT	
43		SDA	SHIFT	RESET
44	INITR	RAL	J0052	SHIFT
45	SHIFT	SLT	0009	
46		RAL	8002	
47		SRT	0009	
48		ALO	ROUTN	
49		ALO	GOTOR	8002
50	GOTOR	NOP	0000	R0001
51	END1	STD	HOLD1	
52		SLO	EXTRA	
53		STL	HOLD2	
54		RAU	8001	
55		MPY	B0004	
56		STL	ROUTN	
57		RAL	HOLD2	
58		ALO	B0001	OUT
59	END2	STD	HOLD1	SLO
60	SLO	SLO	GOTOR	
61		STL	HOLD2	

62		RAU	ROUTN		0320	60	0136	0391
63		MPY	B0002		0391	19	0023	0394
64		ALO	14		0394	15	0347	0101
65		STL	ROUTN		0101	20	0136	0389
66		RAL	HOLD2		0389	65	0117	0421
67		ALO	B0004	OUT	0421	15	0025	0327
68	END2A	STD	HOLD1		0351	24	0103	0406
69		SLO	B0002	SLO	0406	16	0023	0356
70	END3	STD	HOLD1		0401	24	0103	0456
71		AUP	15		0456	10	0159	0413
72		STU	HOLD2		0413	21	0117	0370
73		SUP	15		0370	11	0159	0463
74		MPY	B0002		0463	19	0023	0444
75		ALO	29		0444	15	0397	0451
76		STL	ROUTN		0451	20	0136	0439
77		RAL	HOLD2	OUT	0439	65	0117	0327
78	END4	STD	HOLD1		0102	24	0103	0107
79		STL	HOLD2		0107	20	0117	0420
80		LDD	REST4		0420	69	0123	0126
81		STD	RESET	MIDDLE	0126	24	0337	0340
82	REST4	SRT	0004		0123	30	0004	0333
83		SLO	HOLD2		0333	16	0117	0471
84		NZE	ERROR	SKIP	0471	45	0010	0009
85	OUTW	STD	HOLD1	MIDDLE	0352	24	0103	0340
86	OUTD	STD	HOLD1	MIDDLE	0402	24	0103	0340
87	OUT	SLT	0004		0327	35	0004	0387
88		ALO	FUDGE		0387	15	0390	0345
89		STL	RESET	MIDDLE	0345	20	0337	0340
90	MIDDLE	RAL	HOLD1		0340	65	0103	0357
91		SLT	0004		0357	35	0004	0367
92		ALO		8002	0367	15	0470	8002
93		RAL	Y0000		0470	65	1966	0122
94		SLT	0004		0122	35	0004	0383
95		ALO		8002	0383	15	0336	8002
96		LDD	X0000		0336	69	1956	0359
97		STD	MMOVE	GO0UT	0359	24	0002	0405
98	GO0UT	LDD	R0058		0405	69	0198	0452
99		STD	MFRST	RLOUT	0452	24	0034	0006
100	1ST M	RSL	M0010		0353	66	1994	0399
101		STU	1980		0399	21	1980	0433
102		DIV	B0005		0433	14	0026	0386
103		NZU		RT5	0386	44	0440	0441
104		LDD	69		0440	69	0343	0396
105		STD	ROUTN		0396	24	0136	0342
106		RAL	32DA		0342	65	0395	0449
107		LDD	B0001	CONTF	0449	69	0022	0125
108	RT5	LDD	75		0441	69	0445	0348
109		STD	ROUTN		0348	24	0136	0392
110		RAL	33DA		0392	65	0446	0403
111		LDD	B0005	CONTF	0403	69	0026	0125
112	CONTF	STD	MMOVE		0125	24	0002	0455
113		ALO	FUDGE		0455	15	0390	0447
114		STL	RESET	GO0UT	0447	20	0337	0405
115	END2F	STD	HOLD1		0453	24	0103	0407
116		SLO	GOTOR		0407	16	0344	0104
117		SLO	36		0104	16	0457	0361
118		STL	HOLD2		0361	20	0117	0322
119		ALO	ROUTN		0322	15	0136	0442
120		SLO	21		0442	16	0398	0354
121		STL	ROUTN		0354	20	0136	0393
122		RAL	HOLD2	OUT	0393	65	0117	0327
123	END3F	STD	HOLD1		0404	24	0103	0108

124		STU	HOLD 2		0108	21	0117	0372
125		MPY	B0002		0372	19	0023	0448
126		ALO	92		0448	15	0454	0409
127		STL	ROUTN		0409	20	0136	0443
128		RAL	HOLD2		0443	65	0117	0422
129		ALO	40	OUT	0422	15	0325	0327
130	END4F	STD	HOLD1		0358	24	0103	0408
131		ALO	49		0408	15	0411	0365
132		LDD	113		0365	69	0368	0472
133	CLEAN	STD	ROUTN	OUT	0472	24	0136	0327
134		LDD	120		0140	69	0458	0461
135		STD	ROUTN		0461	24	0136	0459
136		LDD	INITR		0459	69	0350	0110
137		STD	RESET		0110	24	0337	0360
138		RAL	T0001		0360	65	0016	0323
139		AUP	TRX		0323	10	0176	0331
140		LDD		TSUBR	0331	69	0334	0015
141		RAL	T0001		0334	65	0016	0373
142		AUP	TRY		0373	10	0326	0381
143		LDD		TSUBR	0381	69	0384	0015
144		LDD	1ST M		0384	69	0353	0410
145		STD	MFRST	TRANS	0410	24	0034	0011
146	J0001	08	0198	2993	0268	8	0198	2993
147	J0002	04	3054	1552	0269	4	3054	1552
148	J0003	02	0130	1451	0270	2	0130	1451
149	J0004	08	8808	0100	0271	8	8808	0100
150	J0005	08	8828	2232	0272	8	8828	2232
151	J0006	08	5998	8989	0273	8	5998	8989
152	J0007	08	6998	9988	0274	8	6998	9988
153	J0008	00	9020	9099	0275		9020	9099
154	J0009	00	8800	0388	0276		8800	0388
155	J0010	00	4010	1110	0277		4010	1110
156	J0011	00	0560	7607	0278		560	7607
157	J0012	08	8808	0200	0279	8	8808	0200
158	J0013	08	8388	3334	0280	8	8388	3334
159	J0014	01	8168	8811	0281	1	8168	8811
160	J0015	08	8338	3387	0282	8	8338	3387
161	J0016	07	7777	9788	0283	7	7777	9788
162	J0017	05	5595	5858	0284	5	5595	5858
163	J0018	03	3383	3938	0285	3	3383	3938
164	J0019	01	1161	6811	0286	1	1161	6811
165	J0020	08	1888	8879	0287	8	1888	8879
166	J0021	06	6166	6869	0288	6	6166	6869
167	J0022	04	4484	1442	0289	4	4484	1442
168	J0023	02	2272	8228	0290	2	2272	8228
169	J0024	00	0080	7900	0291		80	7900
170	J0025	08	8498	4888	0292	8	8498	4888
171	J0026	06	6866	6968	0293	6	6866	6968
172	J0027	04	8444	4499	0294	4	8444	4499
173	J0028	02	2222	6288	0295	2	2222	6288
174	J0029	00	0700	8080	0296		700	8080
175	J0030	08	8988	8897	0297	8	8988	8897
176	J0031	06	6846	8666	0298	6	6846	8666
177	J0032	08	1293	4995	0299	8	1293	4995
178	J0033	00	1432	5665	0300		1432	5665
179	J0034	09	9010	0900	0301	9	9010	0900
180	J0035	08	1812	1118	0302	8	1812	1118
181	J0036	07	2347	5467	0303	7	2347	5467
182	J0037	06	8677	6777	0304	6	8677	6777
183	J0038	05	8566	6665	0305	5	8566	6665
184	J0039	09	4359	2559	0306	9	4359	2559
185	J0040	08	8558	5556	0307	8	8558	5556

186	J 0041	08	8788	7879	0308	8	8788	7879
187	J 0042	06	9686	9696	0309	6	9686	9696
188	J 0043	04	4884	8944	0310	4	4884	8944
189	J 0044	02	2262	2866	0311	2	2262	2866
190	J 0045	00	0073	7070	0312		73	7070
191	J 0046	09	9929	2629	0313	9	9929	2629
192	J 0047	07	6567	7767	0314	7	6567	7767
193	J 0048	05	5535	3365	0315	5	5535	3365
194	J 0049	03	3633	5663	0316	3	3633	5663
195	J 0050	00	0030	4000	0317		30	4000
196	J 0051	00	0050	0600	0318		50	0600
197	J 0052	00	2341	5665	0319		2341	5665
198	R 0001	LDD	B 0003	END 2	0141	69	0024	0450
199	R 0002	LDD	B 0002	END 2	0142	69	0023	0450
200	R 0003	LDD	B 0008	END 2	0143	69	0029	0450
201	R 0004	LDD	B 0008	END 2	0144	69	0029	0450
202	R 0005	LDD	B 0007	END 2	0145	69	0028	0450
203	R 0006	LDD	B 0004	END 2	0146	69	0025	0450
204	R 0007	LDD	B 0003	END 2	0147	69	0024	0450
205	R 0008	LDD	B 0008	END 2	0148	69	0029	0450
206	R 0009	NOP	0009	ERROR	0149		9	0010
207	R 0010	RAL	ROUTN		0150	65	0136	0460
208		SLO	B 0005		0460	16	0026	0431
209		BMI		RT 2	0431	46	0434	0135
210		RAL	T 0002	RT 9	0434	65	0017	0423
211	RT 2	RAL	T 0003	RT 9	0135	65	0018	0423
212	RT 9	AUP	TRY		0423	10	0326	0132
213		LDD	G 02BR	TSUBR	0132	69	0335	0015
214	R 0011	LDD	B 0003	END 2A	0151	69	0024	0351
215	R 0012	LDD	B 0001	END 2A	0152	69	0022	0351
216	R 0013	LDD	B 0006	END 2A	0153	69	0027	0351
217	R 0014	LDD	B 0001	END 2A	0154	69	0022	0351
218	R 0015	LDD	B 0007	OUTW	0155	69	0028	0352
219	R 0016	RAU	B 0001		0156	60	0022	0377
220		LDD	B 0004	END 3	0377	69	0025	0401
221	R 0017	LDD	B 0008	OUTW	0157	69	0029	0352
222	R 0018	RAU	B 0002		0158	60	0023	0427
223		LDD	B 0006	END 3	0427	69	0027	0401
224	R 0020	RAU	B 0003	END 3	0160	60	0024	0401
225	R 0021	RAU	B 0004		0161	60	0025	0129
226		LDD	B 0003	END 3	0129	69	0024	0401
227	R 0023	NOP	0023	ERROR	0163		23	0010
228	R 0024	LDD	B 0002	OUTW	0164	69	0023	0352
229	R 0025	RAU	B 0005		0165	60	0026	0332
230		LDD	B 0006	END 3	0332	69	0027	0401
231	R 0026	RAU	B 0012		0166	60	0033	0437
232		LDD	B 0003	END 3	0437	69	0024	0401
233	R 0027	RAU	B 0009		0167	60	0030	0385
234		LDD	B 0008	END 3	0385	69	0029	0401
235	R 0028	RAU	B 0008		0168	60	0029	0435
236		LDD	B 0007	END 3	0435	69	0028	0401
237	R 0029	RAL	HMOVE		0169	65	0001	0112
238		DIV	B 0002		0112	14	0023	0436
239		NZU	RT 3		0436	44	0162	0362
240		RAU	B 0006	END 3	0362	60	0027	0401
241	RT 3	RAU	B 0007		0162	60	0028	0138
242		LDD	B 0003	END 3	0138	69	0024	0401
243	R 0030	RAL	HMOVE		0170	65	0001	0412
244		DIV	B 0002		0412	14	0023	0338
245		NZU	RT 4		0338	44	0462	0114
246		RAU	B 0011		0114	60	0032	0388
247		LDD	B 0004	END 3	0388	69	0025	0401

248	RT4	RAU	B0010		0462	60	0031	0438
249		LDD	B0007	END3	0438	69	0028	0401
250	R0031	LDD	B0007	OUTW	0171	69	0028	0352
251	R0032	LDD	B0004	OUTW	0172	69	0025	0352
252	R0033	RAU	13		0173	60	0376	0382
253		LDD	B0004	END3	0382	69	0025	0401
254	R0034	LDD	B0009	OUOW	0174	69	0030	0352
255	R0035	RAU	14		0175	60	0347	0364
256		LDD	B0007	END3	0364	69	0028	0401
257	R0037	RAU	15		0177	60	0159	0414
258		LDD	B0001	END3	0414	69	0022	0401
259	R0038	RAU	16		0178	60	0432	0464
260		LDD	B0007	END3	0464	69	0028	0401
261	R0039	NOP	0039	ERROR	0179	39	0010	
262	R0040	LDD	B0006	OUTW	0180	69	0027	0352
263	R0041	RAL	B0009		0181	65	0030	0415
264		LDD	B0008	END4	0415	69	0029	0102
265	R0042	LDD	B0004	OUTW	0182	69	0025	0352
266	R0043	RAL	B0009		0183	65	0030	0465
267		LDD	B0007	END4	0465	69	0028	0102
268	R0044	LDD	B0007	OUTW	0184	69	0028	0352
269	R0045	RAL	B0009		0185	65	0030	0116
270		LDD	B0004	END4	0116	69	0025	0102
271	R0046	RAL	B0006		0186	65	0027	0366
272		LDD	B0004	END4	0366	69	0025	0102
273	R0047	RAL	B0009		0187	65	0030	0416
274		LDD	B0002	END4	0416	69	0023	0102
275	R0048	NOP	0048	ERROR	0188	48	0010	
276	R0049	RAL	B0008		0189	65	0029	0466
277		LDD	B0002	END4	0466	69	0023	0102
278	R0050	RAL	B0009		0190	65	0030	0417
279		LDD	B0003	END4	0417	69	0024	0102
280	R0051	RAL	B0007		0191	65	0028	0467
281		LDD	B0003	END4	0467	69	0024	0102
282	R0052	RAL	B0009		0192	65	0030	0418
283		LDD	B0006	END4	0418	69	0027	0102
284	R0053	LDD	B0009	OUTW	0193	69	0030	0352
285	R0054	LDD	B0004	OUTW	0194	69	0025	0352
286	R0055	RAL	B0007		0195	65	0028	0468
287		LDD	B0004	END4	0468	69	0025	0102
288	R0056	RAL	B0007		0196	65	0028	0119
289		LDD	B0006	END4	0119	69	0027	0102
290	R0057	RAL	B0004		0197	65	0025	0329
291		LDD	B0006	END4	0329	69	0027	0102
292	R0058	NOP	0058	ERROR	0198	58	0010	
293	R0059	RAL	B0003		0199	65	0024	0379
294		LDD	B0006	END4	0379	69	0027	0102
295	R0060	LDD	B0007	OUTW	0200	69	0028	0352
296	R0061	RAL	B0009		0201	65	0030	0369
297		LDD	B0003	END4	0369	69	0024	0102
298	R0062	RAL	B0009		0202	65	0030	0419
299		LDD	B0008	END4	0419	69	0029	0102
300	R0063	LDD	B0002	OUTW	0203	69	0023	0352
301	R0064	LDD	B0006	OUTW	0204	69	0027	0352
302	R0065	RAL	B0008		0205	65	0029	0469
303		LDD	B0006	END4	0469	69	0027	0102
304	R0066	LDD	B0003	OUTW	0206	69	0024	0352
305	R0067	RAL	B0003		0207	65	0024	0429
306		LDD	B0008	END4	0429	69	0029	0102
307	R0068	NOP	0068	ERROR	0208	68	0010	
308	R0069	LDD	B0009	OUTW	0209	69	0030	0352
309	R0070	LDD	B0004	OUTW	0210	69	0025	0352

310	R0071	LDD	B0007	END2F		0211	69	0028	0453
311	R0072	LDD	B0009	END2F		0212	69	0030	0453
312	R0073	LDD	B0009	END2F		0213	69	0030	0453
313	R0074	LDD	B0003	END2F		0214	69	0024	0453
314	R0075	LDD	B0003	END2F		0215	69	0024	0453
315	R0076	LDD	B0009	END2F		0216	69	0030	0453
316	R0077	LDD	B0001	END2F		0217	69	0022	0453
317	R0078	NOP	0078	ERROR		0218		78	0010
318	R0079	RAL	T0002	RT8		0219	65	0017	0473
319	RT8	AUP	TRX			0473	10	0176	0324
320		LDD	G02BR	TSUBR		0324	69	0335	0015
321	R0080	RAL	T0003	RT8		0220	65	0018	0473
322	R0081	RAL	T0006	RT8		0221	65	0021	0473
323	R0082	RAL	T0004	RT8		0222	65	0019	0473
324	R0083	LDD	B0004	OUTW		0223	69	0025	0352
325	R0084	RAU	B0001			0224	60	0022	0128
326		LDD	B0005	END3F		0128	69	0026	0404
327	R0085	LDD	B0005	OUTW		0225	69	0026	0352
328	R0086	RAU	B0002			0226	60	0023	0328
329		LDD	B0007	END3F		0328	69	0028	0404
330	R0087	RAU	B0003			0227	60	0024	0130
331		LDD	B0008	END3F		0130	69	0029	0404
332	R0088	RAU	B0002			0228	60	0023	0378
333		LDD	B0007	END3F		0378	69	0028	0404
334	R0089	RAL	T0002	RT9		0229	65	0017	0423
335	R0090	RAL	T0006	RT9		0230	65	0021	0423
336	R0091	RAL	T0005	RT9		0231	65	0020	0423
337	R0092	NOP	0092	ERROR		0232		92	0010
338	R0093	LDD	B0002	OUTW		0233	69	0023	0352
339	R0094	RAU	B0004	END3F SM		0234	60	0025	0404
340	R0095	RAU	B0005			0235	60	0026	0374
341		LDD	B0007	END3F		0374	69	0028	0404
342	R0096	RAU	B0007	END3F		0236	60	0028	0404
343	R0097	RAU	B0008			0237	60	0029	0424
344		LDD	B0002	END3F		0424	69	0023	0404
345	R0098	RAU	B0006			0238	60	0027	0474
346		LDD	B0003	END3F		0474	69	0024	0404
347	R0099	RAL	T0002	RT9		0239	65	0017	0423
348	R0100	LDD	B0009	OUTW		0240	69	0030	0352
349	R0101	RAU	B0009			0241	60	0030	0375
350		LDD	B0004	END3F		0375	69	0025	0404
351	R0102	LDD	B0009	OUTW		0242	69	0030	0352
352	R0103	NOP	0103	ERROR		0243		103	0010
353	R0104	LDD	B0003	OUTW		0244	69	0024	0352
354	R0105	LDD	B0008	OUTW		0245	69	0029	0352
355	R0106	LDD	B0004	OUTW		0246	69	0025	0352
356	R0107	LDD	B0007	OUTW		0247	69	0028	0352
357	R0108	RAL	B0001			0248	65	0022	0428
358		LDD	B0003	END4F		0428	69	0024	0358
359	R0109	LDD	B0009	OUTW		0249	69	0030	0352
360	R0110	LDD	B0005	OUTW		0250	69	0026	0352
361	R0111	LDD	B0006	OUTW		0251	69	0027	0352
362	R0112	LDD	B0008	OUTW		0252	69	0029	0352
363	R0113	LDD	B0003	OUTW		0253	69	0024	0352
364	R0114	NOP	0114	ERROR		0254		114	0010
365	R0115	RAL	B0002			0255	65	0023	0330
366		LDD	B0006	END4F		0330	69	0027	0358
367	R0116	LDD	B0007	OUTW		0256	69	0028	0352
368	R0117	LDD	B0006	OUTW		0257	69	0027	0352
369	R0118	LDD	B0004	OUTD		0258	69	0025	0402
370	R0119	LDD	B0007	OUTD		0259	69	0028	0402
371	R0120	LDD	B0004	OUTW		0260	69	0025	0352

372	R 0121	LDD	B0005	END1		0261	69	0026	0400
373	R 0122	LDD	B0001	END1		0262	69	0022	0400
374	R 0123	LDD	B0005	END1		0263	69	0026	0400
375	R 0124	RAL	T0003	RT8		0264	65	0018	0473
376	R 0125	RAL	T0002	RT8		0265	65	0017	0473
377	R 0126	RAL	T0006	RT8		0266	65	0021	0473
378	R 0127	RAL	T0004	RT8		0267	65	0019	0473
379	32DA	00	0032	0000		0395		32	0000
380	33DA	00	0033	0000		0446		33	0000
381	TRX	STU	X0001	ADD		0176	21	1957	0014
382	TRY	STU	Y0001	ADD		0326	21	1967	0014
383	G02BR	NOP	0000	BRAIN		0335			4
384	FUDGE	RAL	J0000	SHIFT		0390	65	0267	0134
385	13	00	0000	13		0376			13
386	14	00	0000	14		0347			14
387	15	00	0000	15		0159			15
388	16	00	0000	16		0432			16
389	17	00	0000	17		0425			17
390	21	00	0000	21		0398			21
391	29	00	0000	29		0397			29
392	36	00	0000	36		0457			36
393	40	00	0	40		0325			40
394	49	00	0000	49		0411			49
395	69	00	0000	69		0343			69
396	75	00	0000	75		0445			75
397	92	00	0000	92		0454			92
398	113	00	0000	0113		0368			113
399	120	00	0000	120		0458			120
400	EXTRA	NOP	0000	R0121		0109			261

1	1		B R A I N III	B					
2			BLR	199					
3			BLR	228	1999				
4			SYN	B R A I N	4				
5			SYN	M P O S	552				
6			SYN	H P O S	560				
7			SYN	E X I T	1703				
8			SYN	S U B R 3	600				
9			SYN	M T U R N	695				
1			SYN	R L O U T	6				
11			SYN	M F R S T	34				
12			SYN	E M P T Y	610				
13			SYN	T R A N S	11				
14			SYN	H M O V E	1				
15			SYN	M M O V E	2				
16			SYN	C L E A N	140				
17		S W I C H	STD	E X I T		0200	24	1703	0206
18			R A L	H P O S		0206	65	0560	0215
19			L D D	H H P O S		0215	69	0218	0221
20			STD	H P O S		0221	24	0560	0213
21			S T L	H H P O S		0213	20	0218	0222
22			R A L	M P O S		0222	65	0552	0207
23			L D D	H M P O S		0207	69	0210	0214
24			STD	M P O S		0214	24	0552	0205
25			S T L	H M P O S	E X I T	0205	20	0210	1703
26		B R A I N	L D D	S W I C H		0004	69	0208	0200
27			R A L	H M O V E		0208	65	0001	0209
28			L D D	S U B R 3		0209	69	0212	0600
29	-		L D D	I N S R T		0212	-69	0216	0219
30			STD	1878	M T U R N	0219	24	1878	0695
31		I N S R T	L D D	F I X		0216	69	0220	0223
32			STD	1878	F I N I S	0223	24	1878	0201
33		F I N I S	L D D	R L O U T	S W I C H	0201	69	0006	0200
34		C L E A N	L D D	1 S T M		0140	69	0202	0211
35			STD	M F R S T		0211	24	0034	0203
36			L D D	E M P T Y		0203	69	0610	0217
37			STD	H H P O S		0217	24	0218	0224
38			STD	H M P O S	T R A N S	0224	24	0210	0011
39		1 S T M	R S U	8003		0202	61	0225	8003
40			S T L	1980		0225	20	1980	0204
41			R A L	1994		0204	65	1994	0226
42			STD	M M O V E		0226	24	0002	0227
43			L D D	F I N I S	S U B R 3	0227	69	0201	0600
44		F I X	69	1881	0650	0220	69	1881	0650

when first move not predetermined, 0225 is 20 1980 0212

BRAIN III vs. BRAIN III no assignment of first move.

July 22, 1957

7 1

		1	8 1	8 1	8 1 8	1 8 1 8
--	--	---	-----	-----	-------	------------

7 2

		1	8	1 8	8 1	8 1 8	8 1 8
		1	1	1	8 1	8 1	8 1
			1	1	1	1	1 1

6 3

8	1	8	8	8	8	8 8	8 8 8
		8	1 8	1 8	1 8	1 8 1	1 8 1
		1	1	1 8	1 8 1	1 8 1	1 8 1

6 4

		1	1	1	1	1	1
		8	8	8	8 8	8 8	8 8 8
			8	8 1	8 1	8 1 1	8 1 1

8 5

8	1	8	8	8 8	8 1 8	8 1 8	8 1 8
		8	8	8	8	8 1	8 8 1
		1	1	1 1	1 1	1 8 1	1 8 1

7 6

		1	1	8 1	8 1	8 1	8 1
		1	8	8	8	8 8	8 8

6 7

		1	1	1 1	1 1	1 1	1 8 1
		8	8	8	8	8 8	8 8
			8	8	8 8	8 8	8 8

7 8

1	1	8	1	1 1	1 8 1	1 8 1	1 8 1
		8	8	8 8	8 8	8 8	8 8 1

7 9

		1	1	8 1	8 1	8 1	8 1
		1	8	8	8	8 8	8 8

6 10

		8	8	8	8 8	8 8	8 8
		1	1	1 8	1 8	1 8 1	1 8 1
			1	1	1	1	8 1

7 11

		1	1	1	1	1	1
		8	8	8	8 8	8 8	8 8

6 12

1	1	8	1	1 1	1 1	1 1	1 1
		8	8	8 8	8 8	8 8	8 8 8

6 13

		8	8	8 1	8 1	8 1	8 1
			8	8 1	8 8 1	8 8 1	8 8 1

6 14

8	1	8	8	8 8	8 8	8 8	8 8
		1	1	1 8	1 8	1 8 8	1 8 8

7 15

8	8	1	1	1	1 1	1 1	1 1 1
	8	8	8	8 1	8 8 1	8 8 1	8 8 1
		8	8	8	8	8 8	8 8

7 16

1	18	18	18	18	1	18	18	11	11	111		6	17
8	18	188	188	188	1	81	181	181	181	181		7	18
					1	1	1	81	811	811			
					88	88	88	88	88	888			
					8	81	81	81	881	881			
					1	1	1	1	81	811			
					1	1	1	1	1	1		6	19
					1	1	1	1	1	1			
					8	8	88	88	88	888		7	20
					1	18	18	18	18	18			
					8	8	8	8	8	81			
					1	18	18	18	18	18		7	21
					8	8	8	8	88	88			
					1	1	1	1	11	111			
					8	1	81	81	81	81			
					1	1	1	1	1	1		6	22
					1	1	1	1	1	1			
					1	18	118	118	118	118			
					8	8	8	8	8	8			
					1	1	8	8	8	8			
					8	8	8	8	8	8		8	23
8	18	18	18	18	18	181	181	181	181	181			
					8	8	88	88	88	88			
					8	8	11	11	11	11			
					81	81	81	81	81	818		6	24
					81	81	81	81	81	818			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			
					8	8	8	8	8	8			
					1	1	1	1	1	1			

6 94

		8	8	8	8 1	8 1	8
			1	8 1	8 1	8 1	
				8	8	8	8
					8 1	8 1	8 1

6 95

		8	1 8	1 8	1 8	1 8	8
				8	8 1	8 1	8 1

7 96

			8	8	8	8	1 8
				1 8 1	8 1	8 1	8 1
1	1	8	8 1	8 1	8 1	8 1	8 1

6 97

				1	1	1	1
8	8	8 1	1 8	1 1 8	1 1 8	1 1 8	1 1 8
				8 8	8 8	8 8	8 8

7 98

					8	1 8	
					1	1	1
					8	8 1	8 1
						8 1	8 1

7 99

				8	8	8	8
1	1	8	8 1	8 1	8 1	8 1	8 1
				1 1	1 1	1 1 1	1 1 1
				8 1	8 1	8 1	8 1

6 100

		1	8	1 8	1 8	1 8	1 8 8
8	8	8	8	8	8	8	8
				1	8 1	8 1 1	8 1 1

7 101

		8	1	1 8	1 8	1 8	1 8 1
1	1	8	1	1 8	1 8	1 8	1 8
				1	8	1 8	1 8

8 102

		8 1	8 1	8 1	8 1	8 1 8	8 1 8
1	8 1	8 1	8 1	8 1	8 1	8 1	8 1
				8 1	8 1	8 1 1	8 1 1
				8 1	8 1	8 1	8 1

6 103

		8	8	8 1	8 1	8 1	8 1
8	8	8	8	8	8	8	8
				1	1	1	1
				8 8	8 8 1	8 8 1	8 8 1

6 104

				1	1	1 8 1	1 8 1
				8	8	8	8
					1	1	1
					8	8	8

8 105

		8	8	1	1 8	1 1 8	1 1 8
8	8	8	8	8 8 1	8 8 1	8 8 1	8 8 1
					8 8 1	8 8 1	8 8 1
					8	1 8	1 8 8

8 106

		8	8	1	1 8	1 8 8	1 8 8
8	8	8	8	8 1 1	8 1 1	8 1 1	8 1 1
					8 1 1	8 1 1	8 1 1
					8	1 8	1 1 8

8 106

		8	8	1	1 8	1 8	1 8 8
8	8	8	8	8 1 1	8 1 1	8 1 1	8 1 1
					8 1 1	8 1 1	8 1 1
					8	1 8	1 1 8

8 107

		8	8	1	1 8	8 1 8	8 1 8
8	8	8	8	8 1	8 1	8 1	8 1
				8 1	8 1	8 1	8 1
				8 1	8 1	8 1	8 1

7 108

		8	8	1	1 8	8 1	8 1
8	8	8	8	8 1 8	8 1 8	8 1 8	8 1 8
					8 1 8	8 1 8	8 1 8
					8	1 8	1 1 8

8 109

1	1	1	1 8	1 8	1 8	1 8	1 8	1 1 8		8	1 1 0	
8	8	1 8	8 1	8 1	8 1	8 1	8 1	1 8 1		7	1 1 1	
								1		8	1 1 2	
1	1 8	1 8	1 8	1 8	1 8	1 8	1 8	8 1 8		8	1 1 3	
8	8	8	1	1 8	1 8	1 8	1 8	1 8	8 1 8		8	1 1 4
	1	8 1	8 1	8 1	8 1	8 1	8 1	1 8 1		8	1 1 5	
8	1	8 8	8 8 1	8 8 1	8 8 1	8 8 1	8 8 1	8 8 1			1 1 6	
8	8	8 1	8 1	8 1	8 1	8 1	8 1	1 8 1		8	1 1 7	
8	8	1 8	1 8	1 8	1 8	1 8	1 8	1 8 1		8	1 1 8	
1	1	8 1	8 1	8 1	8 1	8 1	8 1	8 1 8		7	1 1 9	
1	1	1 8	1 8	1 8	1 8	1 8	1 8	8 1 8		6	1 2 0	
								1		8	1 2 1	
1	8	1 8	8 1 1	8 1 1	8 8 1	8 8 1	8 8 1	8 8 1		8	1 2 2	
1	1	8 1	1 8	1 8	1 8	1 8	1 8	8 1 8		8	1 2 3	
8	8	1 8	1 8	1 8	1 8	1 8	1 8	1 8	1 8 1		8	1 2 4
8	8	8	8	8	8	8	8	8 1 8		8		
8	1	1 8	1 8	1 8	1 8	1 8	1 8	1 8 1				

BRAIN III vs. BRAIN III B

JULY 22 - 23, 1957

817 games.

FIRST MOVES OF BRAIN III-B WERE PREDETERMINED.

36.8 SECONDS / GAME

8	8	8	8	8	81	81	81	881	8	181
	1	81	81	81	81	81	811	811	8	182
8	8	8	8	8	8	8	81	881		
1	18	18	18	188	188	188	188	188	6	183
8	18	18	18	18	18	18	18	818		
	8	8	8	8	18	18	181	181	7	184
	1	1	8	1	18	188	188	188		
					8	8	88	88	7	185
					1	1	11	111		
					8	8	81	88	8	186
8	8	8	8	81	81	81	81	811		
1	1	8	18	18	18	18	818	818	8	187
	1	1	1	1	1	18	18	818		
	8	8	8	8	18	18	18	818	8	188
8	8	8	8	88	881	881	881	881		
1	1	18	18	18	18	18	181	181	8	189
					8	18	188	188		
1	1	11	811	811	811	811	811	811	8	190
8	8	8	8	8	18	18	18	818		
1	1	1	1	1	18	18	18	818	8	191
8	8	8	8	8	8	8	88	88		
8	8	8	8	8	1	1	11	111	7	191
	1	1	18	18	818	818	818	818		
					8	8	88	88	8	192
8	8	8	8	88	188	188	188	818		
1	1	81	81	81	81	81	181	181	8	193
8	8	8	8	18	18	818	818	818		
1	1	1	1	81	81	81	81	818	12	194
8	8	8	8	8	8	81	181	181	11	194
1	1	11	811	811	811	811	811	811	10	194
					8	8	88	88	9	194
8	8	8	8	88	88	88	88	888	8	195
1	1	1	1	1	18	18	118	118	6	195
8	8	8	8	81	81	811	811	811		

		1	1	1	8	1	18	1	8	1	18	1	18	1	18	1
--	--	---	---	---	---	---	----	---	---	---	----	---	----	---	----	---

1	1	11	118	118	118	8	8	8	88	88	881
---	---	----	-----	-----	-----	---	---	---	----	----	-----

8	1	8	88	881	881	1	81	81	881	881	881
---	---	---	----	-----	-----	---	----	----	-----	-----	-----

1	1	8	8	8	18	18	18	18	818	818
---	---	---	---	---	----	----	----	----	-----	-----

1	1	11	118	118	118	8	81	81	81	181
---	---	----	-----	-----	-----	---	----	----	----	-----

8	1	8	88	881	881	881	881	881	881	881
---	---	---	----	-----	-----	-----	-----	-----	-----	-----

8	1	8	18	18	18	181	181	181	181	181
---	---	---	----	----	----	-----	-----	-----	-----	-----

8	1	8	8	8	8	8	8	88	88
---	---	---	---	---	---	---	---	----	----

1	1	1	1	1	1	8	8	8	81
---	---	---	---	---	---	---	---	---	----

8	1	8	1	1	1	118	118	118	118
---	---	---	---	---	---	-----	-----	-----	-----

8	1	8	1	1	1	8	8	8	8
---	---	---	---	---	---	---	---	---	---

1	1	8	8	8	8	88	88	88	88
---	---	---	---	---	---	----	----	----	----

8	1	8	1	1	1	188	188	188	188
---	---	---	---	---	---	-----	-----	-----	-----

1	1	8	8	8	8	88	88	88	88
---	---	---	---	---	---	----	----	----	----

1	1	11	118	118	118	1	1	1	1	1
---	---	----	-----	-----	-----	---	---	---	---	---

8	8	88	881	881	881	881	881	881	8	301
	1	1	1	1	11	811	811	811		
8	8	81	81	81	81	81	181	188	8	302
	8	8	8	88	188	188	188	188		
8	8	88	188	188	188	188	188	188	8	303
	1	1	1	81	81	81	818	818		
1	8	8	8	18	18	118	118	118	8	304
1	1	11	811	811	811	811	811	811		
				8	8	88	88	188	6	305
			1	1	1	81	811	811		
		8	8	88	881	881	881	881	7	306
1	1	8	18	18	88	88	88	881		
1	1	1	1	18	18	118	118	118	7	307
				1	1	11	11	11		
			8	8	88	88	88	88	7	309
					1	11	11	111		
8	1	18	18	18	18	18	181	181	8	308
8	8	8	8	88	881	881	881	881		
			1	1	1	18	18	818	7	
						8	8	81		
						8	81	81	7	310
						11	11	118		
			1	1	1	11	11	118	7	
		1	8	1	8	1	811	811		
					8	1	811	811	6	311
8	8	8	8	88	88	88	188	188		
			1	1	11	118	118	118		
1	81	81	81	81	81	81	81	818	8	312
8	1	1	1	81	81	881	881	881		
8	8	88	188	188	188	188	188	188		
				1	1	11	11	811	6	313
						8	88	88		
						8	8	88	7	314
						1	1	1		
	1	1	8	188	188	188	188	188		
					1	1	181	181	8	315
						1	181	181		
8	8	18	18	18	18	18	18	188		
8	81	81	81	81	81	818	818	818	8	316

8	18	18	18	18	181	181	181		8	332
	8	8	8	8	88	88	881	881		
		1	81	81	81	81	81	818		
8	1	1	1	18	18	18	181	181		
	8	88	881	881	881	881	881	881		
				1	18	18	18	818		
8	8	8	88	88	88	188	188		7	333
						8	18			
	1	1	11	811	811	811	811	811		
1	1	18	18	818	818	818	818	818		8
	1	1	1	1	1	18	18	118		
	8	8	81	81	181	181	181	181		
1	1	1	1	18	18	18	18	18		6
				1	1	1	1	11		
					1	1	11	11		
8	8	8	8	8	88	88	88	888		7
					1	1	81	81		
						8	18	18		
8	8	8	81	81	81	81	81	81		7
					8	8	88	88		
	1	1	1	1	11	11	11	111		
1	1	1	1	1	181	181	181	181		8
	1	1	81	81	88	88	188	188		
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