

Runs on old GTX Card

4/26/76

/SPACEWAR

DECUS 8-395

~~WILL NOT RUN~~

/

/VERSION 2.0

/

DIX=6551

DIY=6552

DIS=6554

CSKP=6641

CCTF=6642

/

*0000

0000	0000	0
0001	5402	JMP I 2
0002	0276	INT SER

0003	0000	EMPTY, 0
0004	0000	ODT 1, 0
0005	0000	ODT 2, 0
0006	0000	ODT 3, 0

*0010

0010	0000	AUTO 10, 0
0011	0000	AUTO 11, 0
0012	0000	AUTO 12, 0
0013	0000	AUTO 13, 0
0014	0000	AUTO 14, 0
0015	0000	AUTO 15, 0
0016	0000	AUTO 16, 0
0017	0000	AUTO 17, 0

*0020

0020	0000	ONE OUT, 0
0021	0000	ONE CNT, 0
0022	0000	ONE FLG, 0
0023	0000	ONE THE, 0
0024	0000	ONE VEX, 0
0025	0000	ONE VEY, 0
0026	0000	ONE PEX, 0
0027	0000	ONE PEY, 0
0030	0000	ONE SIN, 0
0031	0000	ONE COS, 0
0032	0000	ONE FIN, 0

0033	0000	TWO OUT, 0
0034	0000	TWO CNT, 0
0035	0000	TWO FLG, 0
0036	0000	TWO THE, 0
0037	0000	TWO VEX, 0
0040	0000	TWO VEY, 0
0041	0000	TWO PEX, 0
0042	0000	TWO PEY, 0
0043	0000	TWO SIN, 0
0044	0000	TWO COS, 0
0045	0000	TWO FIN, 0

0046 0000 XONEDS, 0
0047 0000 YONEDS, 0
0050 0000 XTWODS, 0
0051 0000 YTWODS, 0
0052 0000 DIXTEM, 0
0053 0000 DIYTEM, 0
0054 0000 DISCNT, 0

0055 0000 T10SIN, 0
0056 0000 T20SIN, 0
0057 0000 T30SIN, 0
0060 0000 T10COS, 0
0061 0000 T20COS, 0
0062 0000 T30COS, 0

0063 0000 CALSIN, 0
0064 0000 CALCOS, 0

0065 4400 SINE, SINEIN
0066 4463 COSINE, COSINI
0067 4621 MULT, MULTI
0070 4623 RSHIFT, SHIFTR
0071 1475 VECTOR, DISPLY
0072 4631 CALPOS, POSCAL
0073 0000 INTWRD, 0
0074 0000 INT CNT, 0
0075 0000 CLOCK, 0
0076 2200 HYPER, HYPSET
0077 5000 MESOUT, CHARS
0100 2475 THEADJ, THEAJI
0101 2451 VEE SCL, VEELIM
0102 1535 ISHFT, DISHFT
0103 1667 RESET 1, RESE 1
0104 0000 GAMOVR, 0
0105 0000 ACCFLG, 0
0106 7750 ACCPER, -30
0107 7400 MEXP, -400

0110 0000 PROX, 0
0111 0002 PROY, 2
0112 7340 PROLIF, -440
0113 0000 BUFTMP, 0
0114 6000 ONEFIL, DISBUF
0115 6040 TWOFIL, DISBUF+40

0116 0005 P5, 5
0117 0010 P10, 10
0120 0017 P17, 17
0121 0020 P20, 20
0122 0037 P37, 37
0123 0040 P40, 40
0124 0100 P100, 100

0125	0132	P132,	132
0126	0200	P200,	200
0127	0400	P400,	400
0130	0550	P550,	550
0131	3777	P3777,	3777

0132	7774	M4,	-4
0133	7772	M6,	-6
0134	7770	M10,	-10
0135	7767	M11,	-11
0136	7514	M264,	-264
0137	7600	M200,	-200
0140	7400	M400,	-400
0141	7230	M550,	-550
0142	7640	M140,	-140

*0200

0200	7300	RESTR, CLA CLL
0201	1120	TAD P17
0202	3010	DCA AUTO10
0203	1266	TAD TABLEN
0204	3011	DCA AUTO11
0205	3410	DCA I AUTO10
0206	2011	ISZ AUTO11
0207	5205	JMP .-2

0210	1272	TAD STRT1
0211	3026	DCA ONEPEX
0212	1273	TAD STRT2
0213	3041	DCA TWOPEX
0214	1122	TAD P37
0215	3031	DCA ONECOS
0216	1122	TAD P37
0217	3044	DCA TWOCOS
0220	1106	TAD ACCPER
0221	3105	DCA ACCFLG
0222	3032	DCA ONEFIN
0223	3045	DCA TWOFIN
0224	3104	DCA GAMOVR
0225	4665	JMS I BUFSET

0226	6042	TCF
0227	6022	PCF
0230	6012	RRB
0231	6322	6322
0232	6642	6642

/THE TTY FLAG
/THE CLOCK FLAG

0233	7300	UPDATE, CLL CLA	
0234	6644	6644	/READ THE BOX
0235	0271	AND RYTHAF	
0236	3267	DCA INTTEM	
0237	1267	TAD INTTEM	
0240	0274	AND MASK16	
0241	3073	DCA INTWRD	
0242	1267	TAD INTTEM	
0243	7040	CMA	
0244	0275	AND P1	
0245	1073	TAD INTWRD	
0246	3073	DCA INTWRD	
0247	7604	LAS	
0250	7012	RTR	
0251	7012	RTR	
0252	0270	AND LFTHAF	
0253	1073	TAD INTWRD	
0254	3073	DCA INTWRD	
0255	6001	ION	
0256	1105	TAD ACCFLG	
0257	7001	IAC	
0260	7540	SMA SZA	
0261	1106	TAD ACCPER	
0262	3105	DCA ACCFLG	

0263	5664	JMP I .+1
0264	0400	ONEUP

0265	1720	BUFSET, SETBUF
0266	7733	TABLEN, AUTO17-CALCOS
0267	0000	INTTEM, 0
0270	0360	LFTHAF, 0360
0271	0017	RYTHAF, 0017
0272	1000	STRT1, 1000
0273	7000	STRT2, -1000
0274	0016	MASK16, 16
0275	0001	P1, 1

0276	3327	INTSER, DCA INTACC
0277	7010	RAP
0300	3330	DCA INTLNK
0301	6641	CSKP
0302	5307	JMP INTBUS
0303	6642	CCTF
0304	2075	ISZ CLOCK
0305	7000	NOP
0306	5233	JMP UPDATE

0307	6031	INTBUS, KSF
0310	5315	JMP .+5

0311	6032	KCC
0312	1104	TAD GAMOVR
0313	7640	SZA CLA
0314	5200	JMP RESTRT
0315	6042	TCF
0316	2331	ISZ INTGLH
0317	7410	SKP
0320	7402	HLT

0321	7300	INTRET, CLA CLL
0322	1330	TAD INTL NK
0323	7004	RAL
0324	1327	TAD INTACC
0325	6001	ION
0326	5400	JMP I 0

0327	0000	INTACC, 0
0330	0000	INTL NK, 0
0331	0000	INTGLH, 0

PAGE
*0400

0400	1022	ONEUP, TAD ONEFLG
0401	7450	SNA
0402	5210	JMP ONEOK
0403	7001	IAC
0404	7450	SNA
0405	1032	TAD ONEFIN
0406	3022	DCA ONEFLG
0407	5752	JMP I ITWoup

0410	1020	ONEOK, TAD ONEOUT
0411	7640	SZA CLA
0412	5237	JMP ONEFIG
0413	1045	TAD TWOFIN
0414	7640	SZA CLA
0415	4756	JMS I ONEWN
0416	1073	TAD INTWRD
0417	0354	AND OP300
0420	1355	TAD OM300
0421	7640	SZA CLA
0422	5225	JMP ONELEF
0423	7040	CMA
0424	5476	JMP I HYPER
0425	1073	ONELEF, TAD INTWRD
0426	0126	AND P200
0427	7650	SNA CLA
0430	5233	JMP ONERYT
0431	7340	CLA CLL CMA
0432	5237	JMP ONEFIG

0433	1073	ONERYT, TAD INTWRD
0434	0124	AND P100
0435	7640	SZA CLA

0436	7001	IAC
0437	1023	ONEFIG, TAD ONETHE
0440	4500	JMS I THEADJ
0441	3023	DCA ONETHE
0442	1023	TAD ONETHE
0443	4465	JMS I SINE
0444	3030	DCA ONESIN
0445	1023	TAD ONETHE
0446	4466	JMS I COSINE
0447	3031	DCA ONECOS
0450	1020	TAD ONEOUT
0451	7640	SZA CLA
0452	5272	JMP ONEVEL
0453	1105	ONEMOV, TAD ACCFLG
0454	7640	SZA CLA
0455	5272	JMP ONEVEL
0456	1073	TAD INTWRD
0457	0123	AND P40
0460	7650	SNA CLA
0461	5272	JMP ONEVEL
0462	1031	TAD ONECOS
0463	1025	TAD ONEVEY
0464	4501	JMS I VEESCL
0465	3025	DCA ONEVEY
0466	1030	TAD ONESIN
0467	1024	TAD ONEVEX
0470	4501	JMS I VEESCL
0471	3024	DCA ONEVEX
0472	1024	ONEVEL, TAD ONEVEX
0473	4502	JMS I ISHFT
0474	4502	JMS I ISHFT
0475	1026	TAD ONEPEX
0476	3026	DCA ONEPEX
0477	1025	TAD ONEVEY
0500	4502	JMS I ISHFT
0501	4502	JMS I ISHFT
0502	1027	TAD ONEPEY
0503	3027	DCA ONEPEY
0504	1020	TAD ONEOUT
0505	7640	SZA CLA
0506	5752	JMP I ITWoup
0507	1353	ONELNC, TAD LNC1FG
0510	7650	SNA CLA
0511	5314	JMP .+3
0512	2353	ISZ LNC1FG
0513	5752	JMP I ITWoup
0514	1073	TAD INTWRD
0515	0121	AND P20
0516	7650	SNA CLA
0517	5752	JMP I ITWoup
0520	1112	TAD PROLIF

0521	3416	DCA I AUTO16
0522	1024	TAD ONEVEX
0523	4502	JMS I ISHFT
0524	4470	JMS I RSHIFT
0525	1030	TAD ONESIN
0526	4470	JMS I RSHIFT
0527	3416	DCA I AUTO16
0530	1030	TAD ONESIN
0531	7106	CLL RTL
0532	1026	TAD ONEPEX
0533	3416	DCA I AUTO16
0534	1025	TAD ONEVEY
0535	4502	JMS I ISHFT
0536	4470	JMS I RSHIFT
0537	1031	TAD ONECOS
0540	4470	JMS I RSHIFT
0541	3416	DCA I AUTO16
0542	1031	TAD ONECOS
0543	7106	CLL RTL
0544	1027	TAD ONEPEY
0545	3416	DCA I AUTO16
0546	1142	TAD M140
0547	3353	DCA LNC1FG
0550	4503	JMS I RESET 1

0551	5752	JMP I .+1
0552	0600	ITWOUP, TWOUP
0553	0000	LNC1FG, 0
0554	0300	OP300, 300
0555	7500	OM300, -300
0556	2507	ONEWN, ONEWIN

PAGE

		*0600	
0600	1035	TWOUP,	TAD TWOFLG
0601	7450		SNA
0602	5210		JMP TWOOK
0603	7001		IAC
0604	7450		SNA
0605	1045		TAD TWOFIN
0606	3035		DCA TWOFLG
0607	5750		JMP I IONEST
0610	1033	TWOOK,	TAD TWOOUT
0611	7640		SZA CLA
0612	5235		JMP TWOFIG
0613	1032		TAD ONEFIN
0614	7640		SZA CLA

0615	4754	JMS I TWOWN
0616	1073	TAD INTWRD
0617	0352	AND OP14
0620	1353	TAD OM14
0621	7650	SNA CLA
0622	5476	JMP I HYPER

0623	1073	TWOLEF, TAD INTWRD
0624	0117	AND P10
0625	7650	SNA CLA
0626	5231	JMP TWORYT
0627	7340	CLA CLL CMA
0630	5235	JMP TWOFIG

0631	7307	TWORYT, CLL CLA IAC RTL
0632	0073	AND INTWRD
0633	7540	SZA CLA
0634	7001	IAC

0635	1036	TWOFIG, TAD TWOTHE
0636	4500	JMS I THEADJ
0637	3036	DCA TWOTHE
0640	1036	TAD TWOTHE
0641	4465	JMS I SINE
0642	3043	DCA TWOSIN
0643	1036	TAD TWOTHE
0644	4466	JMS I COSINE
0645	3044	DCA TWOCOS
0646	1033	TAD TWOOUT
0647	7540	SZA CLA
0650	5270	JMP TWOVEL
0651	1105	TWOMOV, TAD ACCFLG
0652	7540	SZA CLA
0653	5270	JMP TWOVEL
0654	7105	CLL IAC RAL
0655	0073	AND INTWRD
0656	7650	SNA CLA
0657	5270	JMP TWOVEL

0660	1043	TAD TWOSIN
0661	1037	TAD TWOVEX
0662	4501	JMS I VEESCL
0663	3037	DCA TWOVEX

0664	1044	TAD TWOCOS
0665	1040	TAD TWOVEY
0666	4501	JMS I VEESCL
0667	3040	DCA TWOVEY

0670	1037	TWOVEL, TAD TWOVEX
0671	4502	JMS I ISHFT
0672	4502	JMS I ISHFT
0673	1041	TAD TWOPEX
0674	3041	DCA TWOPEX
0675	1040	TAD TWOVEY

0676	4502	JMS I ISHFT
0677	4502	JMS I ISHFT
0700	1042	TAD TWOPEY
0701	3042	DCA TWOPEY
0702	1033	TAD TWOOUT
0703	7640	SZA CLA
0704	5750	JMP I IONEST

0705	1351	TWOL NC, TAD LNC2FG
0706	7650	SNA CLA
0707	5312	JMP .+3
0710	2351	ISZ LNC2FG
0711	5750	JMP I IONEST
0712	7001	IAC
0713	0073	AND INTWRD
0714	7650	SNA CLA
0715	5750	JMP I IONEST

0716	1112	TAD PROLIF
0717	3416	DCA I AUTO16
0720	1037	TAD TWOVEX
0721	4502	JMS I ISHFT
0722	4470	JMS I RSHIFT
0723	1043	TAD TWOSIN
0724	4470	JMS I RSHIFT
0725	3416	DCA I AUTO16
0726	1043	TAD TWOSIN
0727	7106	CLL RTL
0730	1041	TAD TWOPEX
0731	3416	DCA I AUTO16
0732	1040	TAD TWOVEY
0733	4502	JMS I ISHFT
0734	4470	JMS I RSHIFT
0735	1044	TAD TWOCOS
0736	4470	JMS I RSHIFT
0737	3416	DCA I AUTO16
0740	1044	TAD TWOCOS
0741	7106	CLL RTL
0742	1042	TAD TWOPEY
0743	3416	DCA I AUTO16
0744	1142	TAD M140
0745	3351	DCA LNC2FG
0746	4503	JMS I RESET 1

0747	5750	JMP I .+1
0750	1000	IONEST, ONESET

0751	0000	LNC2FG, 0
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0752	0014	OP14, 14
0753	7764	OM14, -14
0754	2515	TWOWN, TWOWIN

PAGE

*1000

1000	7300	ONESET, CLA CLL
1001	1022	TAD ONEFLG
1002	7640	SZA CLA
1003	5753	JMP I ITWOST
1004	1030	TAD ONESIN
1005	3063	DCA CALSIN
1006	1031	TAD ONECOS
1007	3064	DCA CALCOS
1010	4472	JMS I CALPOS

1011	1114	TAD ONEFIL
1012	3010	DCA AUTO10
1013	1026	TAD ONEPEX
1014	1057	TAD T30SIN
1015	3410	DCA I AUTO10
1016	1027	TAD ONEPEY
1017	1062	TAD T30COS
1020	3410	DCA I AUTO10

1021	1060	TAD T10COS
1022	7041	CIA
1023	1026	TAD ONEPEX
1024	3410	DCA I AUTO10
1025	1055	TAD T10SIN
1026	1027	TAD ONEPEY
1027	3410	DCA I AUTO10

1030	1057	TAD T30SIN
1031	1062	TAD T30COS
1032	7041	CIA
1033	1026	TAD ONEPEX
1034	3410	DCA I AUTO10
1035	1062	TAD T30COS
1036	7041	CIA
1037	1057	TAD T30SIN
1040	1027	TAD ONEPEY
1041	3410	DCA I AUTO10

1042	1055	TAD T10SIN
1043	7041	CIA
1044	1026	TAD ONEPEX
1045	3410	DCA I AUTO10
1046	1060	TAD T10COS
1047	7041	CIA
1050	1027	TAD ONEPEY
1051	3410	DCA I AUTO10

1052	1073	FLAM1, TAD INTWRD
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1053	0123	AND P40
1054	7650	SNA CLA
1055	5321	JMP ONECON
1056	1020	TAD ONEOUT
1057	7640	SZA CLA
1060	5321	JMP ONECON
1061	1354	TAD ONFG1
1062	7450	SNA
1063	7344	CLA CLL CMA RAL
1064	3354	DCA ONFG1
1065	2354	ISZ ONFG1
1066	5321	JMP ONECON
1067	1355	TAD ONFG2
1070	7040	CMA
1071	3355	DCA ONFG2
1072	1355	TAD ONFG2
1073	7650	SNA CLA
1074	1055	TAD T10SIN
1075	1057	TAD T30SIN
1076	7041	CIA
1077	1026	TAD ONEPEX
1100	3410	DCA I AUTO10
1101	1355	TAD ONFG2
1102	7650	SNA CLA
1103	1060	TAD T10COS
1104	1062	TAD T30COS
1105	7041	CIA
1106	1027	TAD ONEPEY
1107	3410	DCA I AUTO10
1110	1055	TAD T10SIN
1111	7041	CIA
1112	1026	TAD ONEPEX
1113	3410	DCA I AUTO10
1114	1060	TAD T10COS
1115	7041	CIA
1116	1027	TAD ONEPEY
1117	3410	DCA I AUTO10
1120	7344	CLA CLL CMA RAL
1121	1133	ONECON, TAD M6
1122	3021	DCA ONECNT
1123	1057	TAD T30SIN
1124	7041	CIA
1125	1062	TAD T30COS
1126	1026	TAD ONEPEX
1127	3410	DCA I AUTO10
1130	1057	TAD T30SIN
1131	1062	TAD T30COS
1132	7041	CIA

1133 1027 TAD ONEPEY
1134 3410 DCA I AUTO10

1135 1060 TAD T10COS
1136 1026 TAD ONEPEX
1137 3410 DCA I AUTO10
1140 1055 TAD T10SIN
1141 7041 CIA
1142 1027 TAD ONEPEY
1143 3410 DCA I AUTO10

1144 1057 TAD T30SIN
1145 1026 TAD ONEPEX
1146 3410 DCA I AUTO10
1147 1062 TAD T30COS
1150 1027 TAD ONEPEY
1151 3410 DCA I AUTO10

1152 5753 JMP I ITWOST
1153 1200 ITWOST, TWOSET

1154 0000 ONFG1, 0
1155 0000 ONFG2, 0

PAGE

*1200
1200 7300 TWOSET, CLA CLL
1201 1035 TAD TWOFLG
1202 7640 SZA CLA
1203 5775 JMP I IFILDS
1204 1043 TAD TWOSIN
1205 3063 DCA CALSIN
1206 1044 TAD TWOCOS
1207 3064 DCA CALCOS
1210 4472 JMS I CALPOS

1211 1115 TAD TWOFIL
1212 3010 DCA AUTO10
1213 1057 TAD T30SIN
1214 1041 TAD TWOPEX
1215 3410 DCA I AUTO10
1216 1062 TAD T30COS
1217 1042 TAD TWOPEY
1220 3410 DCA I AUTO10

1221 1061 TAD T20COS
1222 7041 CIA
1223 1056 TAD T20SIN
1224 1041 TAD TWOPEX
1225 3410 DCA I AUTO10

1226	1056	TAD T20SIN
1227	1061	TAD T20COS
1230	1042	TAD TWOPEY
1231	3410	DCA I AUTO10

1232	1061	TAD T20COS
1233	7041	CIA
1234	1041	TAD TWOPEX
1235	3410	DCA I AUTO10
1236	1056	TAD T20SIN
1237	1042	TAD TWOPEY
1240	3410	DCA I AUTO10

1241	1061	TAD T20COS
1242	1057	TAD T30SIN
1243	7041	CIA
1244	1041	TAD TWOPEX
1245	3410	DCA I AUTO10
1246	1052	TAD T30COS
1247	7041	CIA
1250	1056	TAD T20SIN
1251	1042	TAD TWOPEY
1252	3410	DCA I AUTO10

1253	1056	TAD T20SIN
1254	7041	CIA
1255	1041	TAD TWOPEX
1256	3410	DCA I AUTO10
1257	1061	TAD T20COS
1260	7041	CIA
1261	1042	TAD TWOPEY
1262	3410	DCA I AUTO10

1263	7305	FLAM2, CLA CLL IAC RAL
1264	0073	AND INTWRD
1265	7650	SNA CLA
1266	5332	JMP TWOCON
1267	1033	TAD TWOOUT
1270	7640	SZA CLA
1271	5332	JMP TWOCON

1272	1376	TAD TWFG1
1273	7450	SNA
1274	7344	CLA CLL CMA RAL
1275	3376	DCA TWFG1

1276	2376	ISZ TWFG1
1277	5332	JMP TWOCON

1300	1377	TAD TWFG2
1301	7040	CMA
1302	3377	DCA TWFG2

1303	1377	TAD TWFG2
1304	7650	SNA CLA

1305	1056	TAD T20SIN
1306	1057	TAD T30SIN
1307	7041	CIA
1310	1041	TAD TWOPEX
1311	3410	DCA I AUTO10

1312	1377	TAD TWFG2
1313	7650	SNA CLA
1314	1061	TAD T20COS
1315	1062	TAD T30COS
1316	7041	CIA
1317	1042	TAD TWOPEY
1320	3410	DCA I AUTO10

1321	1056	TAD T20SIN
1322	7041	CIA
1323	1041	TAD TWOPEX
1324	3410	DCA I AUTO10
1325	1061	TAD T20COS
1326	7041	CIA
1327	1042	TAD TWOPEY
1330	3410	DCA I AUTO10

1331	7344	CLA CLL CMA RAL
1332	1134	TWOCON, TAD M10
1333	3034	DCA TWOCNT

1334	1057	TAD T30SIN
1335	7041	CIA
1336	1061	TAD T20COS
1337	1041	TAD TWOPEX
1340	3410	DCA I AUTO10
1341	1062	TAD T30COS
1342	1056	TAD T20SIN
1343	7041	CIA
1344	1042	TAD TWOPEY
1345	3410	DCA I AUTO10

1346	1061	TAD T20COS
1347	1041	TAD TWOPEX
1350	3410	DCA I AUTO10
1351	1056	TAD T20SIN
1352	7041	CIA
1353	1042	TAD TWOPEY
1354	3410	DCA I AUTO10

1355	1061	TAD T20COS
1356	1056	TAD T20SIN
1357	1041	TAD TWOPEX
1360	3410	DCA I AUTO10
1361	1056	TAD T20SIN
1362	7041	CIA
1363	1061	TAD T20COS
1364	1042	TAD TWOPEY
1365	3410	DCA I AUTO10

1366	1057	TAD T30SIN
1367	1041	TAD TWOPEX
1370	3410	DCA I AUTO10
1371	1062	TAD T30COS
1372	1042	TAD TWOPEY
1373	3410	DCA I AUTO10

1374	5775	JMP I IFILDS
1375	1400	IFILDS, FILDIS

1376	0000	TWFG1, 0
1377	0000	TWFG2, 0

PAGE

		*1400
1400	7300	FILDIS, CLA CLL
1401	4672	JMS I COLIDE
1402	7000	NOP
1403	1022	TAD ONEFLG
1404	7640	SZA CLA
1405	5236	JMP TWODIS

1406	1114	TAD ONEFIL
1407	3010	DCA AUTO10
1410	1021	TAD ONECNT
1411	3011	DCA AUTO11
1412	1410	TAD I AUTO10
1413	3046	DCA XONEDS
1414	1410	TAD I AUTO10
1415	3047	DCA YONEDS
1416	1020	TAD ONEOUT
1417	7640	SZA CLA
1420	5673	JMP I IONEEX

1421	1410	FILONE, TAD I AUTO10
1422	3050	DCA XTWODS
1423	1410	TAD I AUTO10
1424	3051	DCA YTWODS
1425	4471	JMS I VECTOR
1426	2011	ISZ AUTO11
1427	7410	SKP
1430	5236	JMP TWODIS
1431	1050	TAD XTWODS
1432	3046	DCA XONEDS
1433	1051	TAD YTWODS
1434	3047	DCA YONEDS
1435	5221	JMP FILONE

1436	1035	TWODIS,	TAD TWOFLG
1437	7640		SZA CLA
1440	5664		JMP I IPRODS
1441	1115		TAD TWOFIL
1442	3010		DCA AUTO10
1443	1034		TAD TWOCNT
1444	3011		DCA AUTO11
1445	1410		TAD I AUTO10
1446	3046		DCA XONEDS
1447	1410		TAD I AUTO10
1450	3047		DCA YONEDS
1451	1033		TAD TWOOUT
1452	7640		SZA CLA
1453	5674		JMP I ITWOEX

1454	1410	TWDLOP,	TAD I AUTO10
1455	3050		DCA XTWODS
1456	1410		TAD I AUTO10
1457	3051		DCA YTWODS
1460	4471		JMS I VECTOR
1461	2011		ISZ AUTO11
1462	5265		JMP .+3
1463	5664		JMP I .+1
1464	1600	IPRODS,	PRODIS
1465	1050		TAD XTWODS
1466	3046		DCA XONEDS
1467	1051		TAD YTWODS
1470	3047		DCA YONEDS
1471	5254		JMP TWDLOP

1472	2074	COLIDE,	COLLID
1473	2271	IONEEX,	ONEEXP
1474	2310	ITWOEX,	TWOEXP

1475	0000	DISPLY,	0
1476	1046		TAD XONEDS
1477	7041		CIA
1500	1050		TAD XTWODS
1501	4335		JMS DISHFT
1502	3052		DCA DIXTEM
1503	1047		TAD YONEDS
1504	7041		CIA
1505	1051		TAD YTWODS
1506	4335		JMS DISHFT
1507	3053		DCA DIYTEM
1510	1132		TAD M4
1511	3054		DCA DISCNT

1512	1046	DISLOP,	TAD XONEDS
1513	1052		TAD DIXTEM
1514	3046		DCA XONEDS
1515	1047		TAD YONEDS
1516	1053		TAD DIYTEM

1517	3047	DCA YONEDS
1520	1046	TAD XONEDS
1521	7112	RTR CLL
1522	7000	NOP
1523	6551	DIX
1524	7200	CLA
1525	1047	TAD YONEDS
1526	7112	RTR CLL
1527	7000	NOP
1530	6556	6556
1531	7200	CLA
1532	2054	ISZ DISCNT
1533	5312	JMP DISLOP
1534	5675	JMP I DISPLY

1535	0000	DISHFT, 0
1536	7100	CLL
1537	7510	SPA
1540	7021	CML IAC
1541	7010	RAR
1542	7100	CLL
1543	7510	SPA
1544	7021	CML IAC
1545	7010	RAR
1546	5735	JMP I DISHFT

PAGE

*1500		
1600	7300	PRODIS, CLA CLL
1601	1264	TAD BUFTMP
1602	3113	DCA BUFTMP
1603	7000	NOP
1604	1513	PROLOP, TAD I BUFTMP
1605	7450	SNA
1606	5254	JMP EXPIRE
1607	7001	IAC
1610	3513	DCA I BUFTMP
1611	2113	ISZ BUFTMP
1612	1513	TAD I BUFTMP
1613	2113	ISZ BUFTMP
1614	1513	TAD I BUFTMP
1615	3513	DCA I BUFTMP
1616	1513	TAD I BUFTMP
1617	3110	DCA PROX
1620	2113	ISZ BUFTMP
1621	1513	TAD I BUFTMP
1622	2113	ISZ BUFTMP
1623	1513	TAD I BUFTMP

1624	3513	DCA I BUFTMP
1625	1513	TAD I BUFTMP
1626	3111	DCA PROY

1627	1110	TAD PROX
1630	7112	RTR CLL
1631	7000	NOP
1632	6551	DIX
1633	7200	CLA

1634	1111	TAD PROY
1635	7000	NOP
1636	7112	RTR CLL
1637	6556	DIY DIS
1640	7200	CLA
1641	4666	JMS I CHKOUT
1642	2113	ISZ BUFTMP
1643	1113	TAD BUFTMP
1644	1265	TAD BUFLIM
1645	7640	SZA CLA
1646	5204	JMP PROLOP

1647	1104	FINISH, TAD GAMOVR
1650	7640	SZA CLA
1651	5653	JMP I ENDGAM
1652	5252	JMP .

1653	2527	ENDGAM, JOBLOP
1654	1113	EXPIRE, TAD BUFTMP
1655	1116	TAD P5
1656	3113	DCA BUFTMP
1657	1113	TAD BUFTMP
1660	1265	TAD BUFLIM
1661	7640	SZA CLA
1662	5204	JMP PROLOP
1663	5247	JMP FINISH

1664	6101	BUFST, DISBUF+101
1665	1603	BUFLIM, -DISBUF-175
1666	2000	CHKOUT, CHECK

1667	0000	RESE 1, 0
1670	1315	TAD MRES
1671	3316	DCA RESCNT

1672	1317	RESLOP, TAD RESPNT
1673	1116	TAD P5
1674	3317	DCA RESPNT
1675	1317	TAD RESPNT
1676	1265	TAD BUFLIM
1677	7640	SZA CLA
1700	5303	JMP RESCON
1701	1264	TAD BUFST

1702	3317		DCA RESPNT
1703	1717	RESCON,	TAD I RESPNT
1704	7650		SNA CLA
1705	5311		JMP RESFND
1706	2316		ISZ RESCNT
1707	5272		JMP RESLOP
1710	7402		HLT
1711	7040	RESFND,	CMA
1712	1317		TAD RESPNT
1713	3016		DCA AUTO16
1714	5667		JMP I RESE1
1715	7764	MRFS,	-14
1716	0000	RESCNT,	0
1717	0000	RESPNT,	0

1720	0000	SETBUF,	0
1721	7040		CMA
1722	1264		TAD BUFST
1723	3016		DCA AUTO16
1724	1264		TAD BUFST
1725	3113		DCA BUFTMP
1726	1264		TAD BUFST
1727	3317		DCA RESPNT
1730	1264		TAD BUFST
1731	3341		DCA SETPNT
1732	3741	SETLOP,	DCA I SETPNT
1733	2341		ISZ SETPNT
1734	1341		TAD SETPNT
1735	1265		TAD BUFLIM
1736	7640		SZA CLA
1737	5332		JMP SETLOP
1740	5720		JMP I SETBUF
1741	0000	SETPNT,	0

PAGE

		*2000	
2000	0000	CHECK,	0
2001	1022		TAD ONEFLG
2002	7640		SZA CLA
2003	5232		JMP CHECK2
2004	1020		TAD ONEOUT
2005	7640		SZA CLA
2006	5232		JMP CHECK2

2007	1110	TAD PROX	
2010	7041	CIA	
2011	1026	TAD ONEPEX	
2012	7510	SPA	
2013	7041	CIA	
2014	1264	TAD LIMIT	
2015	7700	SMA CLA	
2016	5232	JMP CHECK2	
2017	1111	TAD PROY	
2020	7041	CIA	
2021	1027	TAD ONEPEY	
2022	7510	SPA	
2023	7041	CIA	
2024	1264	TAD LIMIT	
2025	7700	SMA CLA	
2026	5232	JMP CHECK2	
2027	1107	TAD MEXP	
2030	3021	DCA ONECNT	DCA ONE OUT
2031	4265	JMS CUTOUT	
2032	1035	CHECK2, TAD TWOFLG	
2033	7640	SZA CLA	
2034	5600	JMP I CHECK	
2035	1033	TAD TWOOUT	
2036	7640	SZA CLA	
2037	5600	JMP I CHECK	
2040	1110	TAD PROX	
2041	7041	CIA	
2042	1041	TAD TWOPEX	
2043	7510	SPA	
2044	7041	CIA	
2045	1264	TAD LIMIT	
2046	7700	SMA CLA	
2047	5600	JMP I CHECK	
2050	1111	TAD PROY	
2051	7041	CIA	
2052	1042	TAD TWOPEY	
2053	7510	SPA	
2054	7041	CIA	
2055	1264	TAD LIMIT	
2056	7700	SMA CLA	
2057	5600	JMP I CHECK	
2060	1107	TAD MEXP	
2061	3033	DCA TWOOUT	
2062	4265	JMS CUTOUT	
2063	5600	JMP I CHECK	
2064	7660	LIMIT, -120	

2065	0000	CUTOUT, 0
2066	1132	TAD M4
2067	1113	TAD BUFTMP
2070	3273	DCA CUTPNT
2071	3673	DCA I CUTPNT
2072	5665	JMP I CUTOUT

2073	0000	CUTPNT, 0
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2074	0000	COLL ID, 0
2075	1022	TAD ONEFLG
2076	7640	SZA CLA
2077	5674	JMP I COLL ID
2100	1035	TAD TWOFLG
2101	7640	SZA CLA
2102	5674	JMP I COLL ID
2103	1020	TAD ONEOUT
2104	7640	SZA CLA
2105	5674	JMP I COLL ID
2106	1033	TAD TWOOUT
2107	7640	SZA CLA
2110	5674	JMP I COLL ID

2111	1026	TAD ONEPEX
2112	7041	CIA
2113	1041	TAD TWOPEX
2114	7510	SPA
2115	7041	CIA
2116	1336	TAD COLL IM
2117	7700	SMA CLA
2120	5674	JMP I COLL ID

2121	1027	TAD ONEPEY
2122	7041	CIA
2123	1042	TAD TWOPEY
2124	7510	SPA
2125	7041	CIA
2126	1336	TAD COLL IM
2127	7700	SMA CLA
2130	5674	JMP I COLL ID

2131	1107	TAD MEXP
2132	3020	DCA ONEOUT
2133	1107	TAD MEXP
2134	3033	DCA TWOOUT
2135	5674	JMP I COLL ID

2136	7500	COLL IM, -300
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		*2200	
2200	3253	HYPSET,	DCA RTNFLG
2201	1253		TAD RTNFLG
2202	7640		SZA CLA
2203	1251		TAD ONED IF
2204	1252		TAD TWOLST
2205	3015		DCA AUTO15
2206	1075		TAD CLOCK
2207	3017		DCA AUTO17
2210	1417		TAD I AUTO17
2211	0250		AND TIMOUT
2212	7041		CIA
2213	3415		DCA I AUTO15
2214	1417		TAD I AUTO17
2215	4100		JMS THEADJ
2216	3415		DCA I AUTO15
2217	1417		TAD I AUTO17
2220	4260		JMS VEESET
2221	3415		DCA I AUTO15
2222	1417		TAD I AUTO17
2223	4260		JMS VEESET
2224	3415		DCA I AUTO15
2225	1417		TAD I AUTO17
2226	3415		DCA I AUTO15
2227	1417		TAD I AUTO17
2230	3415		DCA I AUTO15
2231	1417		TAD I AUTO17
2232	0250		AND TIMOUT
2233	1257		TAD MHYP
2234	7700		SMA CLA
2235	5245		JMP HYPRET
2236	1253		TAD RTNFLG
2237	7640		SZA CLA
2240	1251		TAD ONED IF
2241	1256		TAD OUTLOC
2242	3260		DCA VEESET
2243	1107		TAD MEXP
2244	3660		DCA I VEESET
2245	2253	HYPRET,	ISZ RTNFLG
2246	5655		JMP I TWORTN
2247	5654		JMP I ONERTN

JMS I THEADJ

2250 0777 TIMOUT, 777

2251	7765	ONEDIF, ONEFLG-TWOFLG
2252	0034	TWOLST, TWOFLG-1
2253	0000	RINFLG, 0
2254	0600	ONERTN, TWOUP
2255	1000	TWORTN, ONESET
2256	0033	OUTLOC, TWOOUT
2257	7600	MHYP, -200

2260	0000	VEESET, 0
2261	7100	CLL
2262	7510	SPA
2263	7020	CML
2264	0270	AND HM 177
2265	7530	SZL CLL
2266	7041	CIA
2267	5660	JMP I VEESET

2270	0177	HM 177, 177
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2271	7300	ONEEXP, CLA CLL
2272	1023	TAD ONETHE
2273	1333	TAD INCONE
2274	3023	DCA ONETHE
2275	4732	JMS I IXPDIS
2276	2020	ISZ ONEOUT
2277	5727	JMP I NOWTWO
2300	7001	IAC
2301	3022	DCA ONEFLG
2302	7001	IAC
2303	3032	DCA ONEFIN
2304	1045	TAD TWOFIN
2305	7650	SNA CLA
2306	5727	JMP I NOWTWO
2307	5731	JMP I TIEUP

2310	7300	TWOEXP, CLA CLL
2311	1036	TAD TWOTHE
2312	1334	TAD INCTWO
2313	3036	DCA TWOTHE
2314	4332	JMS IXPDIS — JMS I IXPDIS
2315	2033	ISZ TWOOUT
2316	5730	JMP I NOWPRO

2317	7001	IAC
2320	3035	DCA TWOFLG
2321	7001	IAC
2322	3045	DCA TWOFIN
2323	1032	TAD ONEFIN
2324	7640	SZA CLA
2325	5731	JMP I TIEUP
2326	5730	JMP I NOWPRO

2327	1436	NOWTWO, TWODIS
2330	1500	NOWPRO, PRODIS
2331	2523	TIEUP, NOWIN
2332	2400	IXPDIS, EXPDIS
2333	0055	INCONE, 55
2334	0055	INCTWO, 55

PAGE

*2400

2400	0000	EXPDIS, 0
2401	1410	TAD I AUTO10
2402	3050	DCA XTWODS
2403	1410	TAD I AUTO10
2404	3051	DCA YTWODS

2405	1050	TAD XTWODS
2406	7041	CIA
2407	1046	TAD XONEDS
2410	3052	DCA DIXTEM
2411	1051	TAD YTWODS
2412	7041	CIA
2413	1047	TAD YONEDS
2414	3053	DCA DIYTEM

2415	1132	TAD M4
2416	3054	DCA DISCNT

2417	1046	EXPLOP, TAD XONEDS
2420	1052	TAD DIXTEM
2421	3046	DCA XONEDS
2422	1047	TAD YONEDS
2423	1053	TAD DIYTEM
2424	3047	DCA YONEDS

2425	1046	TAD XONEDS
2426	7112	RTR CLL
2427	7000	NOP
2430	6551	DIX
2431	7200	CLA
2432	1047	TAD YONEDS
2433	7112	RTR CLL
2434	7000	NOP
2435	6556	DIY DIS
2436	7200	CLA
2437	2054	ISZ DISCNT
2440	5217	JMP EXPLOP

2441	2011	ISZ AUTO11
2442	7410	SKP
2443	5600	JMP I EXPDIS

2444	1050	TAD XTWODS
2445	3046	DCA XONEDS
2446	1051	TAD YTWODS
2447	3047	DCA YONEDS
2450	5201	JMP EXPDIS+1

2451	0000	VEELIM, 0
2452	3272	DCA VEEHLD
2453	1272	TAD VEEHLD
2454	7500	SMA
2455	5263	JMP VEEPOS

2456	1274	TAD VEEMAX
2457	7700	SMA CLA
2460	5270	JMP VEECLR
2461	1273	TAD VEEMIN
2462	5651	JMP I VEELIM

2463	1273	VEEPOS, TAD VEEMIN
2464	7710	SPA CLA
2465	5270	JMP VEECLR
2466	1274	TAD VEEMAX
2467	5651	JMP I VEELIM

2470	1272	VEECLR, TAD VEEHLD
2471	5651	JMP I VEELIM

2472	0000	VEEHLD, 0
2473	7440	VEEMIN, -340
2474	0340	VEEMAX, 340

2475	0000	THEAJI, 0
2476	7500	SMA
2477	5302	JMP .+3
2500	1130	TAD P550
2501	5276	JMP .-3
2502	1141	TAD M550
2503	7500	SMA
2504	5302	JMP .-2
2505	1130	TAD P550
2506	5675	JMP I THEAJI

2507	0000	ONEWIN, 0
2510	1342	TAD MES1
2511	3347	DCA MESS
2512	7001	IAC

2513	3104		DCA GAMOVR
2514	5707		JMP I ONEWIN
2515	0000	TWOWIN, 0	
2516	1343		TAD MES2
2517	3347		DCA MESS
2520	7001		IAC
2521	3104		DCA GAMOVR
2522	5715		JMP I TWOWIN

2523	1345	NOWIN,	TAD MES4
2524	3347		DCA MESS
2525	7001		IAC
2526	3104		DCA GAMOVR

2527	7000	JOBLOP,	NOP
2530	1341		TAD MES0
2531	4477		JMS I MESOUT
2532	1347		TAD MESS
2533	4477		JMS I MESOUT
2534	1346		TAD MES5
2535	4477		JMS I MESOUT
2536	1344		TAD MES3
2537	4477		JMS I MESOUT
2540	5327	FINITO,	JMP JOBLOP

2541	5337	MES0,	MESS0
2542	5344	MES1,	MESS1
2543	5354	MES2,	MESS2
2544	5364	MES3,	MESS3
2545	5365	MES4,	MESS4
2546	5340	MES5,	MESS5
2547	0000	MESS,	0

V2.01
SOMGDAY
[chg to jmp.]

PAGE

~~*4000~~

~~4200 0000 FLIFIL, 0~~

~~/FLIGHT PLAN FOR SHIP ONE~~

~~/USE LEFT 4 MSB~~

*4400

4400	0000	SINEIN, 0
4401	3252	DCA SINARG

4402	1200	TAD SINEIN
4403	3653	DCA I SINPSH
4404	2253	ISZ SINPSH
4405	1252	TAD SINARG
4406	7440	SZA
4407	5217	JMP SINNG2

4410	7340	SINPOP, CLA CLL CMA
4411	1253	TAD SINPSH
4412	3253	DCA SINPSH
4413	1653	TAD I SINPSH
4414	3200	DCA SINEIN
4415	1252	TAD SINARG
4416	5600	JMP I SINEIN

4417	7500	SINNG2, SMA
4420	5226	JMP SINPOS
4421	7041	CIA
4422	4200	JMS SINEIN

4423	7041	SINNEG, CIA
4424	3252	DCA SINARG
4425	5210	JMP SINPOP

4426	1136	SINPOS, TAD M264
4427	7510	SPA
4430	5232	JMP .+2
4431	5222	JMP SINNEG-1
4432	1125	TAD P132
4433	7510	SPA
4434	5244	JMP SINELK
4435	7640	SZA CLA
4436	5241	JMP .+3
4437	1122	TAD P37
4440	5224	JMP SINNEG+1
4441	1252	TAD SINARG
4442	1136	TAD M264
4443	5222	JMP SINNEG-1

4444	1125	SINELK, TAD P132
4445	1262	TAD SINTAB
4446	3200	DCA SINEIN
4447	1600	TAD I SINEIN
4450	3252	DCA SINARG
4451	5210	JMP SINPOP

4452	0000	SINARG, 0
4453	4454	SINPSH, SINLST
4454	0000	SINLST, 0
4455	0000	0
4456	0000	0
4457	0000	0
4460	0000	0
4461	0000	0

4462 4467 SINTAB, SINES-1

4463 0000 COSINI, 0
4464 7041 CIA
4465 1125 TAD P132
4466 4200 JMS SINEIN
4467 5663 JMP I COSINI

4470 0000 SINES, 00
4471 0001 01
4472 0001 01
4473 0002 02
4474 0002 02
4475 0003 03
4476 0003 03
4477 0004 04
4500 0005 05
4501 0005 05
4502 0006 06
4503 0006 06
4504 0007 07
4505 0007 07
4506 0010 10
4507 0010 10
4510 0011 11
4511 0011 11
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4534 0023 23
4535 0023 23

4536	0024	24
4537	0024	24
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4541	0025	25
4542	0025	25
4543	0026	26
4544	0026	26
4545	0027	27
4546	0027	27
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4577	0036	36
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4601	0036	36
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4614	0037	37
4615	0037	37
4616	0037	37
4617	0037	37
4620	0037	37

4621	0000	MULTI,	0
4622	5621	JMP I MULTI	

4623	0000	SHIFTR, 0
4624	7100	CLL
4625	7510	SPA
4626	7021	CML IAC
4627	7010	RAR
4630	5623	JMP I SHIFTR

4631	0000	POSCAL, 0
4632	1063	TAD CALSIN

4633	3055	DCA T10SIN
4634	1055	TAD T10SIN
4635	7104	CLL RAL
4636	3056	DCA T20SIN
4637	1055	TAD T10SIN
4640	1056	TAD T20SIN
4641	3057	DCA T30SIN

4642	1064	TAD CALCOS
4643	3060	DCA T10COS
4644	1060	TAD T10COS
4645	7104	CLL RAL
4646	3061	DCA T20COS
4647	1060	TAD T10COS
4650	1061	TAD T20COS
4651	3062	DCA T30COS
4652	5631	JMP I POSCAL

PAGE

		*5000
5000	0000	CHARS, 0
5001	3330	DCA ADDR
5002	1730	TAD I ADDR
5003	7012	RTR
5004	7012	RTR
5005	7012	RTR
5006	4216	JMS CHAR
5007	7410	SKP
5010	5600	JMP I CHARS
5011	1730	TAD I ADDR
5012	2330	ISZ ADDR
5013	4216	JMS CHAR
5014	5202	JMP CHARS+2
5015	5600	JMP I CHARS

5016	0000	CHAR,	0
5017	0334		AND K77
5020	7104		CLL RAL
5021	1336		TAD TABLE
5022	3335		DCA POINT
5023	7040		CMA
5024	3332		DCA COUNT2
5025	1735		TAD I POINT
5026	2335		ISZ POINT
5027	7450		SNA
5030	5274		JMP SPCHAR
5031	3327		DCA CURPLT

5032	1333	XPLOT,	TAD KM6
5033	3331		DCA COUNT6
5034	1323		TAD YVALUE
5035	3326		DCA YTEMP
5036	1322		TAD XVALUE
5037	6551		DIX
5040	1324		TAD XINCR
5041	3322		DCA XVALUE
5042	1327	YPLOT,	TAD CURPLT
5043	7104		CLL RAL
5044	3327		DCA CURPLT
5045	7420		SNL
5046	5255		JMP CNTINU
5047	1326		TAD YTEMP
5050	6556		6556
5051	7300		CLA CLL
5052	1327		TAD CURPLT
5053	7650		SNA CLA
5054	5263		JMP WRDEND

5055	1326	CNTINU,	TAD YTEMP
5056	1325		TAD YINCR
5057	3326		DCA YTEMP
5060	2331		ISZ COUNT6
5061	5242		JMP YPLOT
5062	5232		JMP XPLOT

5063	2332	WRDEND,	ISZ COUNT2
5064	5270		JMP EXIT
5065	1735		TAD I POINT
5066	7440		SZA
5067	5231		JMP XPLOT-1
5070	1322	EXIT,	TAD XVALUE
5071	1324		TAD XINCR
5072	3322		DCA XVALUE
5073	5616		JMP I CHAR

5074	1735	SPCHAR,	TAD I POINT
5075	3335		DCA POINT

5076 5735 JMP I POINT

5077 1324 SPACE, TAD XINCR
5100 7106 CLL RTL
5101 5270 JMP EXIT

5102 1320 CRLF, TAD INITX
5103 3322 DCA XVALUE

5104 1325 LF, TAD YINCR
5105 7106 CLL RTL
5106 7145 CLL CIA RAL
5107 1323 TAD YVALUE
5110 3323 DCA YVALUE
5111 5616 JMP I CHAR

5112 1320 RESET, TAD INITX
5113 3322 DCA XVALUE
5114 1321 TAD INITY
5115 5310 JMP RESET-2

5116 2216 TERM, ISZ CHAR
5117 5616 JMP I CHAR

5120 0000 INITX, 0 - 400
5121 0327 INITY, ~~327~~ - 400
5122 0000 XVALUE, 0
5123 0000 YVALUE, 0
5124 0006 XINCR, 6
5125 0010 YINCR, 10
5126 0000 YTEMP, 0
5127 0000 CURPLT, 0
5130 0000 ADDR, 0
5131 0000 COUNT 6, 0
5132 0000 COUNT 2, 0
5133 7772 KMS, -6
5134 0077 K77, 77
5135 0000 POINT, 0
5136 5137 TABLE, .+1
5137 0000 0

5140 5116 TERM
5141 7611 7611 /A
5142 1176 1176
5143 7745 7745 /B
5144 4332 4332

5145 3641 3641 /C
5146 4122 4122
5147 7741 7741 /D
5150 4136 4136
5151 7745 7745 /E
5152 4541 4541
5153 7705 7705 /F

5154	0501	501	
5155	7741	7741	/G
5156	5173	5173	
5157	7710	7710	/H
5160	1077	1077	
5161	4177	4177	/I
5162	4100	4100	
5163	2040	2040	/J
5164	4037	4037	
5165	7714	7714	/K
5166	2241	2241	
5167	7740	7740	/L
5170	4040	4040	
5171	7702	7702	/M
5172	0277	277	
5173	7706	7706	/N
5174	3077	3077	
5175	7741	7741	/O
5176	4177	4177	
5177	7705	7705	/P
5200	0502	502	
5201	3641	3641	/Q
5202	6176	6176	
5203	7715	7715	/R
5204	2542	2542	
5205	2245	2245	/S
5206	5122	5122	
5207	0177	177	/T
5210	0100	100	
5211	3740	3740	/U
5212	4037	4037	
5213	1720	1720	/V
5214	4037	4037	
5215	7730	7730	/W
5216	3077	3077	
5217	4136	4136	/X
5220	3641	3641	
5221	0374	374	/Y
5222	7403	7403	
5223	6151	6151	/Z
5224	4543	4543	
5225	7741	7741	
5226	0000	0	
5227	0204	204	
5230	1020	1020	
5231	4177	4177	
5232	0000	0	
5233	0436	436	
5234	0400	400	
5235	0000	0	
5236	5112	RESET	
5237	0000	0	
5240	5077	SPACE	
5241	5600	5600	
5242	0000	0	

5243	0303	303
5244	0000	0
5245	1477	1477
5246	7714	7714
5247	2277	2277

5250	2200	2200
5251	2313	2313
5252	6462	6462
5253	7777	7777
5254	7777	7777
5255	0300	300
5256	0000	0
5257	3643	3643
5260	0000	0
5261	4136	4136
5262	0000	0
5263	4040	4040
5264	4040	4040
5265	1034	1034
5266	1000	1000
5267	0000	0
5270	5104	LF
5271	1010	1010
5272	1000	1000
5273	4000	4000
5274	0000	0
5275	2010	2010
5276	0402	402
5277	3641	3641
5300	4136	4136
5301	4442	4442
5302	7740	7740
5303	4261	4261
5304	5146	5146
5305	2145	2145

5306	5321	5321
5307	1710	1710
5310	1077	1077
5311	4745	4745
5312	4531	4531
5313	7750	7750
5314	5070	5070
5315	6111	6111
5316	0503	503
5317	2255	2255
5320	5522	5522
5321	0705	705
5322	0577	577
5323	2400	2400

5324	0000	0
5325	0000	0
5326	5102	CRLF
5327	1024	1024
5330	4200	4200
5331	1212	1212
5332	1200	1200
5333	4224	4224
5334	1000	1000
5335	0255	255
5336	0300	300

5337	3773	MESS0,	3773
5340	7340	MESS5,	7340
5341	4040		4040
5342	4040		4040
5343	4000		4000

5344	2611	MESS1,	TEXT /VI
5345	0324	CT	
5346	1722	OR	
5347	3140	Y	
5350	2417	TO	
5351	4017	0	
5352	1605	NE	
5353	0000	/	

5354	2611	MESS2,	TEXT /VI
5355	0324	CT	
5356	1722	OR	
5357	3140	Y	
5360	2417	TO	
5361	4024	T	
5362	2717	WO	
5363	4100	! /	

5364	7300	MESS3,	7300
------	------	--------	------

5365	3117	MESS4,	TEXT /YO
5366	2540	U	
5367	0425	DU	
5370	1515	MM	
5371	1105	IE	
5372	2341	S!	
5373	0000	/	

*6000

6000 0000 DISBUF, 0

ACCFLG 0105
ACCPER 0106
ADDR 5130
AUTO10 0010
AUTO11 0011
AUTO12 0012
AUTO13 0013
AUTO14 0014
AUTO15 0015
AUTO16 0016
AUTO17 0017
BUFLIM 1665
BUFSET 0265
BUFST 1664
BUFTMP 0113
CALCOS 0064
CALPOS 0072
CALSIN 0063
CCTF 6642
CHAR 5016
CHARS 5000
CHECK 2000
CHECK2 2032
CHKOUT 1666
CLOCK 0075
CNTINU 5055
COLIDE 1472
COLLID 2074
COLLIM 2136
COSINE 0066
COSINI 4463
COUNT2 5132
COUNT6 5131
CRLF 5102
CSKP 6641
CURPLT 5127
CUTOUT 2065
CUTPNT 2073
DIS 6554
DISBUF 6000
DISCNT 0054
DISHFT 1535
DISLOP 1512
DISPLY 1475
DIX 6551
DIXTEM 0052
DIY 6552
DIYTEM 0053
EMPTY 0003
ENDGAM 1653
EXIT 5070
EXPDIS 2400
EXPIRE 1654

EXPL OP	2417
FILDIS	1400
FILONE	1421
FINISH	1647
FINITO	2540
FLAM1	1052
FLAM2	1263
FLYFIL	4200
GAMOVR	0104
HM177	2270
HYPER	0076
HYPRET	2245
HYPSET	2200
IFILDS	1375
INCONE	2333
INCTWO	2334
INITX	5120
INITY	5121
INTACC	0327
INTBUS	0307
INTCNT	0074
INTGLH	0331
INTLNK	0330
INTRET	0321
INTSER	0276
INTTEM	0267
INTWRD	0073
IONEEX	1473
IONEST	0750
IPRODS	1464
ISHFT	0102
ITWOEX	1474
ITWOST	1153
ITWOUP	0552
IXPDIS	2332
JOBLOP	2527
KM6	5133
K77	5134
LF	5104
LFTHAF	0270
LIMIT	2064
LNC1FG	0553
LNC2FG	0751
MASK16	0274
MESOUT	0077
MESS	2547
MESS0	5337
MESS1	5344
MESS2	5354
MESS3	5364
MESS4	5365
MESS5	5340
MES0	2541
MES1	2542
MES2	2543

MES3	2544
MES4	2545
MES5	2546
MEXP	0107
MHYP	2257
MRIS	1715
MULT	0067
MULT I	4621
M10	0134
M11	0135
M140	0142
M200	0137
M264	0136
M4	0132
M400	0140
M550	0141
M6	0133
NOW IN	2523
NOW PRO	2330
NOW TWO	2327
ODT 1	0004
ODT 2	0005
ODT 3	0006
OM 14	0753
OM300	0555
ONECNT	0021
ONECON	1121
ONECOS	0031
ONEDIF	2251
ONEEXP	2271
ONEFIG	0437
ONEFIL	0114
ONEFIN	0032
ONEFLG	0022
ONELEF	0425
ONELNC	0507
ONEMOV	0453
ONEOK	0410
ONEOUT	0020
ONEPEX	0026
ONEPEY	0027
ONERTN	2254
ONERTY	0433
ONESET	1000
ONESIN	0030
ONETHE	0023
ONEUP	0400
ONEVEL	0472
ONEVEX	0024
ONEVEY	0025
ONEWIN	2507
ONEWN	0556
ONFG1	1154
ONFG2	1155
OP14	0752

OP300	0554
OUTLOC	2256
POINT	5135
POSCAL	4631
PRODIS	1600
PROLIF	0112
PROLOP	1604
PROX	0110
PROY	0111
P1	0275
P10	0117
P100	0124
P132	0125
P17	0120
P20	0121
P200	0126
P37	0122
P3777	0131
P40	0123
P400	0127
P5	0116
P550	0130
RESCNT	1716
RESCON	1703
RESET	5112
RESET 1	0103
RESE 1	1667
RESFND	1711
RESLOP	1672
RESPNT	1717
RESTR	0200
RSHIFT	0070
RTNFLG	2253
RYTHAF	0271
SETBUF	1720
SETLOP	1732
SETPNT	1741
SHIFTR	4623
SINARG	4452
SINE	0065
SINEIN	4400
SINELK	4444
SINES	4470
SINLST	4454
SINNEG	4423
SINNG2	4417
SINPOP	4410
SINPOS	4426
SINPSH	4453
SINTAB	4462
SPACE	5077
SPCHAR	5074
STRT 1	0272
STRT2	0273
TABLE	5136

TABLEN 0266
TERM 5116
THEADJ 0100
THEAJI 2475
TIEUP 2331
TIMOUT 2250
TWDLOP 1454
TWFG1 1376
TWFG2 1377
TWOCNT 0034
TWOCON 1332
TWOCOS 0044
TWODIS 1436
TWOEXP 2310
TWOFIG 0635
TWOFIL 0115
TWOFIN 0045
TWOFLG 0035
TWOLEF 0623
TWOLNC 0705
TWOLST 2252
TWOMOV 0651
TWOOK 0610
TWOCUT 0033
TWOPEX 0041
TWOPEY 0042
TWORTN 2255
TWORYT 0631
TWOSET 1200
TWOSIN 0043
TWOTHE 0036
TWOUP 0600
TWOVEL 0670
TWOVEX 0037
TWOVEY 0040
TOWWIN 2515
TOWN 0754
T10COS 0060
T10SIN 0055
T20COS 0061
T20SIN 0056
T30COS 0062
T30SIN 0057
UPDATE 0233
VECTOR 0071
VEECLR 2470
VEEHLD 2472
VEELIM 2451
VEEMAX 2474
VEEMIN 2473
VEEPOS 2463
VEESCL 0101
VEESET 2260
WRDEND 5063
XINCR 5124

XONEDS 0046
XPL OT 5032
XTWODS 0050
XVALUE 5122
YINCR 5125
YONEDS 0047
YPL OT 5042
YTEMP 5126
YTWODS 0051
YVALUE 5123