


```

53      /ROUTES(1),EOROUT)
54      /
55      /N1=DISPLAY FILE ADDR. OR ADDR OF LIB WORD IN COMP,
56      /N2=1 MOVE COMP IF ON SCREEN
57      / 2 ROTATE COMP
58      / 3 FIX
59      / 4 UNFIX
60      /-VE SAME AS ABOVE BUT FOR COMP OFFSCREEN
61      570000 A SADX=570000
62      070000 A DACX=070000
63      /
64      /
65      00001 R 740040 A MOVERT XX
66      00002 R 121622 E JMS* .DA
67      00003 R 600014 R JMP .+11
68      00004 R 000000 A N1 0
69      00005 R 000000 A N2 0
70      00006 R 000000 A COMPAD 0
71      00007 R 000000 A CONNAD 0
72      00010 R 000000 A EOCONN 0
73      00011 R 000000 A LIBAD 0
74      00012 R 000000 A ROUTAD 0
75      00013 R 000000 A EOROUT 0
76      00014 R 220012 R LAC* ROUTAD
77      00015 R 040012 R DAC ROUTAD
78      00016 R 220000 R LAC* PUSHBT
79      00017 R 041511 R DAC MESS
80      00020 R 200013 R LAC EOROUT
81      00021 R 040641 R DAC SVAR+2
82      00022 R 200007 R LAC CONNAD
83      00023 R 040642 R DAC SVAR+3
84      00024 R 200010 R LAC EOCONN
85      00025 R 040643 R DAC SVAR+4
86      00026 R 201623 R LAC (JMP EXIT)
87      00027 R 040502 R DAC LUP1P
88      00030 R 201624 R LAC ILZERO
89      00031 R 041122 R DAC ARG1+3 /DESTRUCTIVE READROUTE INDICATOR SET
90      00032 R 141601 R DZM FLAG*
91      00033 R 220005 R LAC* N2
92      00034 R 041465 R DAC MODE
93      00035 R 741100 A SPA
94      00036 R 600044 R JMP NEG
95      00037 R 141600 R DZM CRSFLG
96      00040 R 723775 A AAC -3
97      00041 R 741100 A SPA
98      00042 R 600077 R JMP BUDGE
99      00043 R 600056 R JMP FIX
100     00044 R 740031 A NEG TCA
101     00045 R 041465 R DAC MODE
102     00046 R 441600 R ISZ CRSFLG /TRACK FIG. HAS BEEN TURNED ON IN FORTRAN DRIVER,
103     00047 R 220004 R LAC* N1
104     00050 R 041464 R DAC DISFAD

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105	00051 R 201465 R	LAC MODE
106	00052 R 723775 A	AAC -3
107	00053 R 741100 A	SPA
108	00054 R 600104 R	JMP BUDGE1
109	00055 R 600063 R	JMP FIX1
110		/
111		/
112		/
113		/
114	00056 R 220004 R	FIX LAC* N1
	00057 R 041464 R	DAC DISFAD /DISPLAY FILE ADDRESS
	00060 R 221464 R	LAC* DISFAD
	00061 R 723777 A	AAC -1
	00062 R 041464 R	DAC DISFAD
119	00063 R 221464 R	FIX1 LAC* DISFAD
120	00064 R 501625 R	AND (773777
121	00065 R 652000 A	LMQ
122	00066 R 201465 R	LAC MODE
123	00067 R 541626 R	SAD (4
124	00070 R 600074 R	JMP .+4
125	00071 R 641002 A	LACQ
126	00072 R 341627 R	TAD (4000 /FIX
127	00073 R 741000 A	SKP
128	00074 R 641002 A	LACQ /UNFIX
129	00075 R 061464 R	DAC* DISFAD
130	00076 R 600567 R	JMP EXIT
131		/
132		/
133		/FIRST CHECK IF COMP FIXED
134		/
135		/
136	00077 R 220004 R	BUDGE LAC* N1
137	00100 R 041464 R	DAC DISFAD
138	00101 R 221464 R	LAC* DISFAD
139	00102 R 723777 A	AAC -1
140	00103 R 041464 R	DAC DISFAD
141	00104 R 221464 R	BUDGE1 LAC* DISFAD
142	00105 R 501627 R	AND (4000
143	00106 R 740200 A	SZA
144	00107 R 600567 R	JMP EXIT /FIXED
145	00110 R 201465 R	LAC MODE
146	00111 R 541630 R	SAD (1
147	00112 R 600121 R	JMP REPOS /MOVE COMP
148		/
149		/
150		/
151	00113 R 221464 R	LAC* DISFAD
152	00114 R 341631 R	TAD (200000 /ROTATE 90
	00115 R 061464 R	DAC* DISFAD
	00116 R 201464 R	LAC DISFAD
	00117 R 723775 A	AAC -3
	00120 R 600236 R	JMP COMMON /REPLACE COMP

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160
161 00121 R 221464 R REPOS LAC* DISFAD
162 00122 R 501632 R AND (1777 / POINTER TO LIB
163 00123 R 340011 R TAD LIBAD
164 00124 R 723777 A AAC -1
165 00125 R 041461 R DAC XCOMP /1ST WORD LIB.
166 00126 R 221461 R LAC* XCOMP
167 00127 R 541633 R SAD (3
168 00130 R 741000 A SKP
169 00131 R 600145 R JMP HASPAD /THIS COMP DOES HAVE PADS
170 00132 R 141455 R DZM XPIN /THIS ONE DOESNT
171 00133 R 141456 R DZM YPIN
172 00134 R 441464 R ISZ DISFAD
173 00135 R 221464 R LAC* DISFAD
174 00136 R 501634 R AND (1777
175 00137 R 041461 R DAC XCOMP
176 00140 R 441464 R ISZ DISFAD
177 00141 R 221464 R LAC* DISFAD
178 00142 R 501634 R AND (1777
179 00143 R 041462 R DAC YCOMP
180 00144 R 600175 R JMP NOPADS
181 00145 R 750030 A HASPAD CLAI1AC
182 00146 R 041510 R DAC PINO
183 00147 R 101126 R JMS ZUBNOD /GET PAD 1 POSITION
184 00150 R 441464 R ISZ DISFAD
185 00151 R 221464 R LAC* DISFAD
186 00152 R 501634 R AND (1777
187 00153 R 740031 A TCA
188 00154 R 341461 R TAD XCOMP
189 00155 R 740031 A TCA
190 00156 R 041455 R DAC XPIN /-REL XPOS OF PAD1
191 00157 R 441464 R ISZ DISFAD
192 00160 R 221464 R LAC* DISFAD
193 00161 R 501634 R AND (1777
194 00162 R 740031 A TCA
195 00163 R 341462 R TAD YCOMP
196 00164 R 740031 A TCA
197 00165 R 041456 R DAC YPIN /-REL YPOS OF PAD1
198 00166 R 220005 R LAC* N2
199 00167 R 740100 A SMA
200 00170 R 600175 R JMP .+5
201 00171 R 201635 R LAC (700
202 00172 R 041457 R DAC XPOS
203 00173 R 041460 R DAC YPOS
204 00174 R 600207 R JMP POSIT /COMP OFFSCREEN
205 00175 R 201462 R NOPADS LAC YCOMP
206 00176 R 652000 A LMQ
207 00177 R 201461 R LAC XCOMP
208 00200 R 121613 E JMS* SCALUP

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	MOVERT SRC	MOVERT	PS1216
209	00201 R 101070 R	JMS SIZE	CHECK IF XCB OR 1023
210	00202 R 041457 R	DAC XPOS	
211	00203 R 641002 A	LACQ	
212	00204 R 101070 R	JMS SIZE	SAME FOR Y
213	00205 R 041460 R	DAC YPOS	
214	00206 R 141601 R	DZM FALG	
215	00207 R 101042 R	POSIT JMS CROSS	
216	00210 R 201457 R	LAC XPOS	
217	00211 R 341455 R	TAD XPIN	
218	00212 R 101070 R	JMS SIZE	
219	00213 R 652000 A	LMQ	
220	00214 R 201464 R	LAC DISFAD	
221	00215 R 723777 A	AAC -1	
222	00216 R 041464 R	DAC DISFAD	
223	00217 R 221464 R	LAC* DISFAD	
224	00220 R 501636 R	AND (776000	
225	00221 R 640002 A	OMQ	
226	00222 R 061464 R	DAC* DISFAD	NEW XPOS STORED
227	00223 R 201460 R	LAC YPOS	
228	00224 R 341456 R	TAD YPIN	
229	00225 R 101070 R	JMS SIZE	
230	00226 R 652000 A	LMQ	
231	00227 R 441464 R	ISZ DISFAD	
232	00230 R 221464 R	LAC* DISFAD	
233	00231 R 501636 R	AND (776000	
234	00232 R 640002 A	OMQ	
235	00233 R 061464 R	DAC* DISFAD	
236	00234 R 201464 R	LAC DISFAD	
237	00235 R 723773 A	AAC -5	
238	00236 R 041464 R	COMMON DAC DISFAD	
239	00237 R 201601 R	LAC FALG	
240	00240 R 740200 A	SZA	
241	00241 R 600327 R	JMP DRAW	
242	00242 R 441601 R	ISZ FALG	
243	00243 R 221464 R	LAC* DISFAD	
244	00244 R 741200 A	SNA	
245	00245 R 600320 R	JMP DDRAW	NO CONNS
246	00246 R 340007 R	TAD CONNAD	
247	00247 R 723777 A	AAC -1	
248	00250 R 041466 R	DAC SCAN	
249	00251 R 041506 R	DAC CNPTR	
250	00252 R 221466 R	LAC* SCAN	
251	00253 R 501632 R	AND (777	
252	00254 R 740001 A	CMA	
253	00255 R 041463 R	DAC NOFCNS	
254	00256 R 041505 R	DAC NCNS	
255	00257 R 201637 R	LAC (JMP DDRAW)	
256	00260 R 040650 R	DAC RSC1	
257	00261 R 201640 R	LAC (JMP* RSCAN)	
258	00262 R 040673 R	DAC RSC2	
259	00263 R 100645 R	JMS RSCAN	
260	00264 R 201506 R	LAC CNPTR	

261	00265	R	041466	R	DAC	SCAN	
262	00266	R	201505	R	LAC	NCNS	
263	00267	R	041463	R	DAC	NOFCNS	
264	00270	R	201641	R	LAC	(JMS UNRUT)	
265	00271	R	040673	R	DAC	RSC2	
266	00272	R	201465	R	LAC	MODE	
267	00273	R	541630	R	SAD	(1	
268	00274	R	741000	A	SKP		
269	00275	R	600646	R	JMP	RSCAN+1	
270	00276	R	161511	R	DZM*	MESS	
271	00277	R	201511	R	LAC	MESS	
272	00300	R	652000	A	LMQ		
273	00301	R	201642	R	LAC	(MBUFF1	
274	00302	R	121607	E	JMS*	MESS1	
275	00303	R	121604	E	DLP	JMS* BUTTON	
276	00304	R	541643	R	SAD	(2	
277	00305	R	600646	R	JMP	RSCAN+1	
278	00306	R	541644	R	SAD	(6	
279	00307	R	600567	R	JMP	EXIT	
280	00310	R	541630	R	SAD	(1	
281	00311	R	741000	A	SKP		
282	00312	R	600303	R	JMP	DLP	
283	00313	R	201645	R	LAC	(JMS SVRUT)	
284	00314	R	040673	R	DAC	RSC2	
285	00315	R	201646	R	LAC	(JMP SVEXT)	
286	00316	R	040502	R	DAC	LUP1P	
287	00317	R	600646	R	JMP	RSCAN+1	
288	00320	R	161511	R	DDRAW	DZM* MESS	
289	00321	R	101064	R	JMS	KEYS	
290	00322	R	041602	R	DAC	KEYVAL*	
291	00323	R	201511	R	LAC	MESS	
292	00324	R	652000	A	LMQ		
293	00325	R	201647	R	LAC	(MBUFF2	
294	00326	R	121607	E	JMS*	MESS1	
295	00327	R	201464	R	DRAW	LAC DISFAD	
296	00330	R	121605	E	JMS*	DRAWCP	
297	00331	R	201465	R	LAC	MODE	
298	00332	R	541630	R	SAD	(1	
299	00333	R	741000	A	SKP		
300	00334	R	600346	R	JMP	SETVAL	
301	00335	R	101064	R	JMS	KEYS	
302	00336	R	241602	R	XOR	KEYVAL	
303	00337	R	741200	A	SNA		
304	00340	R	600575	R	JMP	NOTYET	
305	00341	R	541650	R	SAD	(20000	/#1
306	00342	R	600344	R	JMP	.+2	/#1
307	00343	R	600346	R	JMP	SETVAL	
308	00344	R	777776	A	LAW	-2	/#1
309	00345	R	121616	E	JMS*	WINDOW	/#1
310					/		
311					/		
312					/		

/ BUTTON HIT TO RELEASE COMPONENT

/ GETS UPPER AND LOWER CORNER OF COMPONENT AREA XL, YL, XU, YU;
/ ALLOWS OVERLAP OF 10 UNITS.

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313 00346 R 201464 R SETVAL LAC DISFAD
314 00347 R 723003 A AAC 3
315 00350 R 041464 R DAC DISFAD
316 00351 R 221464 R LAC* DISFAD /THIRD WORD OF COMPONENT
317 00352 R 501632 R AND (777
318 00353 R 723001 A AAC 1
319 00354 R 340011 R TAD LIBAD
320 00355 R 041502 R DAC TEMP1 /ABS. POINTER TO 3RD. WORD OF LIB. DESCRIPTION.
321 00356 R 221502 R LAC* TEMP1
322 00357 R 640511 A LRS 11
323 00360 R 501632 R AND (777
324 00361 R 041467 R DAC DX /COMPONENT X DIMENSION.
325 00362 R 750000 A CLA
326 00363 R 640611 A LLS 11
327 00364 R 041470 R DAC DY /Y DIMENS.
328 00365 R 221464 R LAC* DISFAD
329 00366 R 640520 A LRS 20
330 00367 R 501633 R AND (3
331 00370 R 040404 R DAC ORIENT /COMPONENT ORIENTATION
332 00371 R 441464 R ISZ DISFAD
333 00372 R 221464 R LAC* DISFAD
334 00373 R 501634 R AND (1777
335 00374 R 041475 R DAC XL /X POS. OF COMP.
336 00375 R 441464 R ISZ DISFAD
337 00376 R 221464 R LAC* DISFAD
338 00377 R 501634 R AND (1777
339 00400 R 041476 R DAC YL /Y POS. OF COMP.
340 00401 R 200404 R LAC ORIENT
341 00402 R 341651 R TAD (JMP ORIENT+1
342 00403 R 040404 R DAC ORIENT /SET UP DISPATCH JUMP ACCORDING TO ORIENTATION
343 00404 R 740040 A ORIENT XX /NOW JUMP
344 00405 R 600422 R JMP ZERO
345 00406 R 600431 R JMP ONE
346 00407 R 600443 R JMP TWO
347 00410 R 201475 R THREE LAC XL /ORIENTATION 3
348 00411 R 341470 R TAD DY
349 00412 R 041477 R DAC XU
350 00413 R 201476 R LAC YL
351 00414 R 041500 R DAC YU
352 00415 R 201467 R LAC DX
353 00416 R 740031 A TCA
354 00417 R 341500 R TAD YU
355 00420 R 041476 R DAC YL
356 00421 R 600457 R JMP DONE
357 00422 R 201475 R ZERO LAC XL /ORIENTATION 0
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365 00423 R 341467 R TAD DX
366 00424 R 041477 R DAC XU
367 00425 R 201476 R LAC YL
368 00426 R 341470 R TAD DY
369 00427 R 041500 R DAC YU
370 00430 R 600457 R JMP DONE
371 00431 R 201475 R ONE LAC XL /ORIENTATION 1
372 00432 R 041477 R DAC XU
373 00433 R 201470 R LAC DY
374 00434 R 740031 A TCA
375 00435 R 341477 R TAD XU
376 00436 R 041475 R DAC XL
377 00437 R 201476 R LAC YL
378 00440 R 341467 R TAD DX
379 00441 R 041500 R DAC YU
380 00442 R 600457 R JMP DONE
381 00443 R 201475 R TWO LAC XL /ORIENTATION 2
382 00444 R 041477 R DAC XU
383 00445 R 201467 R LAC DX
384 00446 R 740031 A TCA
385 00447 R 341477 R TAD XU
386 00450 R 041475 R DAC XL
387 00451 R 201476 R LAC YL
388 00452 R 041500 R DAC YU
389 00453 R 201470 R LAC DY
390 00454 R 740031 A TCA
391 00455 R 341500 R TAD YU
392 00456 R 041476 R DAC YL
393 00457 R 201477 R DONE LAC XU /NOW ADD ON OVERLAPS
394 00460 R 723010 A AAC 10
395 00461 R 041477 R DAC XU
396 00462 R 201500 R LAC YU
397 00463 R 723010 A AAC 10
398 00464 R 041500 R DAC YU
399 00465 R 201475 R LAC XL
400 00466 R 723770 A AAC -10
401 00467 R 041475 R DAC XL
402 00470 R 201476 R LAC YL
403 00471 R 723770 A AAC -10
404 00472 R 041476 R DAC YL /VALUES NOW SET UP.
405 /
406 /
407 /SCAN ROUTES ARRAY. FROM CONNECTIONS. MAKING ANY ROUTES THAT
408 /CROSS THE COMPONENT AREA INVALID!
409 00473 R 200007 R LAC CONNAD
410 00474 R 041466 R DAC SCAN /CONN. SCAN POINTER
411 00475 R 723777 A AAC -1
412 00476 R 360010 R TAD* EOCONN
413 00477 R 041504 R DAC ENDCON /ABS. ADDRESS OF END OF CONNECTIONS
414 00500 R 201466 R LOOP1 LAC SCAN
415 00501 R 541504 R SAD ENDCON
416 00502 R 740040 A LUP1P XX

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417	00503	R	221466	R	LAC* SCAN
418	00504	R	742030	A	SWHA
419	00505	R	501632	R	AND 1777
420	00506	R	740031	A	TCA
421	00507	R	041465	R	DAC MODE /-POINTER BACK TO COMPONENT
422	00510	R	221466	R	LAC* SCAN
423	00511	R	501632	R	AND 1777
424	00512	R	740031	A	TCA
425	00513	R	041463	R	DAC NOFCNS /-NO. OF CONNECTIONS
426	00514	R	441466	R	LOOP2 ISZ SCAN
427	00515	R	221466	R	LAC* SCAN
428	00516	R	742030	A	SWHA
429	00517	R	501632	R	AND 1777 /POINTER BACK TO OTHER COMP
430	00520	R	341465	R	TAD MODE
431	00521	R	740100	A	SMA /ALREADY DONE
432	00522	R	600526	R	JMP NOTDUN
433	00523	R	441466	R	ISZ SCAN
434	00524	R	441466	R	ISZ SCAN
435	00525	R	600563	R	JMP GOON
436	00526	R	441466	R	NOTDUN ISZ SCAN /TO 2ND. WORD OF CONN1
437	00527	R	221466	R	LAC* SCAN
438	00530	R	441466	R	ISZ SCAN /3RD. WORD
439	00531	R	652000	A	LMQ
440	00532	R	221466	R	LAC* SCAN
441	00533	R	744010	A	RCL
442	00534	R	742010	A	RTL
443	00535	R	501633	R	AND 13
444	00536	R	640614	A	LLS 14
445	00537	R	041454	R	DAC PNTR /REL POINTER TO ROUTE.
446	00540	R	741200	A	SNA
447	00541	R	600563	R	JMP GOON /NOT ROUTED
448	00542	R	723777	A	AAC -1
449	00543	R	340012	R	TAD ROUTAD
450	00544	R	721000	A	PAX
451	00545	R	231575	R	LAC* KZERO.X
452	00546	R	741100	A	SPA
453	00547	R	600563	R	JMP GOON /INVALID - DONT BOTHER TO TEST IT
454	00550	R	201652	R	LAC 1LONE
455	00551	R	041122	R	DAC ARG1+3 /SET TO NON DESTRUCTIVE READ OUT
456	00552	R	201454	R	LAC PNTR
457	00553	R	101102	R	JMS UNRUT
458	00554	R	101153	R	JMS TESTIT /TEST IF IN COMP. AREA
459	00555	R	600563	R	JMP GOON /NO
460	00556	R	201577	R	LAC ARG1RT
461	00557	R	721000	A	PAX
462	00560	R	231575	R	LAC* KZERO.X
463	00561	R	341653	R	TAD 1400000
464	00562	R	071575	R	DAC* KZERO.X /SET ROUTE INVALID
465	00563	R	441463	R	GOON ISZ NOFCNS
466	00564	R	600514	R	JMP LOOP2 /MORE CONNS LEFT
467	00565	R	441466	R	ISZ SCAN
468	00566	R	600500	R	JMP LOOP1 /NEXT SECTION OF CONN LIST

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00567 R 005010 A *G EXIT WRITE 10,5,0,0
00567 R 005010 A *G CAL-5*1000 10&777
00570 R 000011 A *G 11
00571 R 000000 A *G 0

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00572 R 000000 A *G .DEC
00573 R 141600 R D2M CRSFLG*
00574 R 620001 R JMP* MOVERT
00575 R 201464 R NOTYET LAC DISFAD
00576 R 723005 A AAC 5
00577 R 041464 R DAC DISFAD
00600 R 600207 R JMP POSIT
00601 R 221506 R SVEXT LAC* CNPTR
00602 R 501654 R AND (777000
00603 R 041503 R DAC TEMP2
00604 R 201624 R LAC (LZERO
00605 R 041122 R DAC ARG1+3
00606 R 201506 R LAC CNPTR
00607 R 041466 R DAC SCAN
00610 R 201505 R LAC NCNS
00611 R 041463 R DAC NOFCNS
00612 R 201655 R LAC (JMP SVEX2)
00613 R 040650 R DAC RSC1
00614 R 201656 R LAC (JMS MODRUT)
00615 R 040673 R DAC RSC2
00616 R 600646 R JMP RSCAN+1
00617 R 201464 R SVEX2 LAC DISFAD
00620 R 723773 A AAC -5
00621 R 121605 E JMS* DRAWCP
00622 R 600567 R JMP EXIT

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00623 R 740040 A RITRT XX
00624 R 040640 R DAC SVAR+1
00625 R 201507 R LAC CDFAD
00626 R 501657 R AND (77777
00627 R 041507 R DAC CDFAD
00630 R 777777 A LAW -1
00631 R 340012 R TAD ROUTAD
00632 R 360013 R TAD* EOROUT
00633 R 041603 R DAC SVARRR*
00634 R 750001 A CLA CMA
00635 R 121617 E JMS* WRITRT
00636 R 620623 R JMP* RITRT
00637 R 001603 R SVAR .DSA SVARRR

516	00640	R	740040	A		XX
517	00641	R	740040	A		XX
518	00642	R	740040	A		XX
519	00643	R	740040	A		XX
520	00644	R	001507	R	.DSA	CDFAD
521					/	
522					/	
523					/	
524	00645	R	740040	A	RSCAN	XX
525	00646	R	441463	R	ISZ	NOFCNS
526	00647	R	741000	A	SKP	
527	00650	R	740040	A	RSC1	XX
528	00651	R	441466	R	ISZ	SCAN
529	00652	R	221466	R	LAC*	SCAN
530	00653	R	501654	R	AND	(777000)
531	00654	R	041502	R	DAC	TEMP1
532	00655	R	221466	R	LAC*	SCAN
533	00656	R	501660	R	AND	(??
534	00657	R	041510	R	DAC	PINO
535	00660	R	441466	R	ISZ	SCAN
536	00661	R	221466	R	LAC*	SCAN
537	00662	R	652000	A	LMQ	
538	00663	R	441466	R	ISZ	SCAN
539	00664	R	221466	R	LAC*	SCAN
540	00665	R	041507	R	DAC	CDFAD
541	00666	R	744010	A	RCL	
542	00667	R	742010	A	RTL	
543	00670	R	501633	R	AND	(3
544	00671	R	640614	A	LLS	14
545	00672	R	740200	A	SZA	
546	00673	R	740040	A	RSC2	XX
547	00674	R	600646	R	JMP	RSCAN+1
548					/	
549					/	
550					/	
551	00675	R	740040	A	SVRUT	XX
552	00676	R	101102	R	JMS	UNRUT
553	00677	R	101126	R	JMS	ZUBNOD
554	00700	R	201461	R	LAC	XCOMP
555	00701	R	541311	R	SAD	BUFF+1
556	00702	R	741000	A	SKP	
557	00703	R	600707	R	JMP	.+1+3
558	00704	R	201462	R	LAC	YCOMP
559	00705	R	541312	R	SAD	BUFF+2
560	00706	R	600752	R	JMP	SVOK
561	00707	R	201310	R	LAC	BUFF
562	00710	R	744010	A	RCL	
563	00711	R	341310	R	TAD	BUFF
564	00712	R	721000	A	PAX	
565	00713	R	201461	R	LAC	XCOMP
566	00714	R	571661	R	SADX	(BUFF-2)
567	00715	R	741000	A	SKP	

568	00716 R 620675 R	JMP* SVRUT
569	00717 R 201462 R	LAC YCOMP
570	00720 R 571662 R	SADX (BUFF-1)
571	00721 R 741000 A	SKP
572	00722 R 620675 R	JMP* SVRUT
573	00723 R 201663 R	SVRST LAC (BUFF
574	00724 R 061664 R	DAC* (10
575	00725 R 061665 R	DAC* (11
576	00726 R 220010 A	LAC* 10
577	00727 R 071666 R	DACX (BUFF+1)
578	00730 R 220010 A	LAC* 10
579	00731 R 071667 R	DACX (BUFF+2)
580	00732 R 220010 A	LAC* 10
581	00733 R 071663 R	DACX (BUFF)
582	00734 R 737775 A	AXR -3
583	00735 R 724000 A	PXA
584	00736 R 741231 A	SNAICMAIAC
585	00737 R 600746 R	JMP SVELP
586	00740 R 041577 R	DAC ARGIRT
587	00741 R 220010 A	LAC* 10
588	00742 R 060011 A	DAC* 11
589	00743 R 441577 R	ISZ ARGIRT
590	00744 R 600741 R	JMP -3
591	00745 R 600723 R	JMP SVRST
592	00746 R 201310 R	SVELP LAC BUFF
593	00747 R 041313 R	DAC BUFF+3
594	00750 R 201670 R	LAC (BUFF+3
595	00751 R 741000 A	SKP
596	00752 R 201663 R	SVOK LAC (BUFF
597	00753 R 100623 R	JMS RITRT
598	00754 R 620675 R	JMP* SVRUT
599		/
600		/
601		/
602	00755 R 740040 A	MODRUT XX
603	00756 R 101102 R	JMS UNRUT
604	00757 R 101126 R	JMS ZUBNOD
605	00760 R 201502 R	LAC TEMP1
606	00761 R 541503 R	SAD TEMP2
607	00762 R 601011 R	JMP MDSLFL
608	00763 R 201310 R	LAC BUFF
609	00764 R 541643 R	SAD (2
610	00765 R 600774 R	JMP MDANG
611	00766 R 201311 R	LAC BUFF+1
612	00767 R 541314 R	SAD BUFF+4
613	00770 R 601006 R	JMP MDYL
614	00771 R 201312 R	LAC BUFF+2
615	00772 R 541315 R	SAD BUFF+5
616	00773 R 601003 R	JMP MDXL
617	00774 R 201461 R	MDANG LAC XCOMP
618	00775 R 041311 R	DAC BUFF+1
619	00776 R 201462 R	LAC YCOMP

620	00777	R	041312	R	DAC	BUFF+2
621	01000	R	201663	R	MDOUT	LAC (BUFF
622	01001	R	100623	R	JMS	RTT
623	01002	R	620755	R	JMP*	MODRUT
624	01003	R	201462	R	MDXL	LAC YCOMP
625	01004	R	041315	R	DAC	BUFF+5
626	01005	R	600774	R	JMP	MDANG
627	01006	R	201461	R	MDYL	LAC XCOMP
628	01007	R	041314	R	DAC	BUFF+4
629	01010	R	600774	R	JMP	MDANG
630	01011	R	201310	R	MDSL1	LAC BUFF
631	01012	R	740031	A	TCA	
632	01013	R	041577	R	DAC	ARGIRT
633	01014	R	201663	R	LAC	(BUFF
634	01015	R	061664	R	DAC*	(10
635	01016	R	061665	R	DAC*	(11
636	01017	R	201311	R	LAC	BUFF+1
637	01020	R	740031	A	TCA	
638	01021	R	341461	R	TAD	XCOMP
639	01022	R	041461	R	DAC	XCOMP
640	01023	R	201312	R	LAC	BUFF+2
641	01024	R	740031	A	TCA	
642	01025	R	341462	R	TAD	YCOMP
643	01026	R	041462	R	DAC	YCOMP
644	01027	R	220010	A	MDSL1	LAC* 10
645	01030	R	341461	R	TAD	XCOMP
646	01031	R	060011	A	DAC*	11
647	01032	R	220010	A	LAC*	10
648	01033	R	341462	R	TAD	YCOMP
649	01034	R	060011	A	DAC*	11
650	01035	R	220010	A	LAC*	10
651	01036	R	220011	A	LAC*	11
652	01037	R	441577	R	ISZ	ARGIRT
653	01040	R	601027	R	JMP	MDSL1
654	01041	R	601000	R	JMP	MDOUT
655					/	
656					/	
657					/	
658					/	
659					/	
660	01042	R	740040	A	CROSS	xx
661	01043	R	201600	R	LAC	CRSFLG
662	01044	R	740200	A	SZA	
663	01045	R	601057	R	JMP	INFILE
664	01046	R	441600	R	ISZ	CRSFLG
665	01047	R	221610	E	LAC*	MF.101
666	01050	R	041053	R	DAC	+3
667					.WRITE	10,3,0,0
	01051	R	003010	A	*G	CAL+3*1000 10&???
	01052	R	000011	A	*G	11
	01053	R	000000	A	*G	0
				*G		.DEC

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01054 R 000000 A *G -0
668 01055 R 201457 R LAC XPOS
669 01056 R 201460 R LAC YPOS
670 01057 R 121615 E INFILE JMS* TRACK
671 01060 R 621042 R JMP* CROSS
672 01061 R 001457 R .DSA XPOS
673 01062 R 001460 R .DSA YPOS
674 01063 R 001630 R .DSA (1 /SIGNIFIES READ
675 /
676 /
677 /
678 01064 R 740040 A KEYS XX
679 01065 R 703032 A 703032
680 01066 R 501671 R AND (770000
681 01067 R 621064 R JMP* KEYS
682 /
683 /
684 /
685 /
686 / IF AC<0 AC=0 OR IF AC>1023 AC=1023 OR AC=AC
687 /
688 /
689 01070 R 740040 A SIZE XX
690 01071 R 741100 A SPA
691 01072 R 750000 A CLA
692 01073 R 341672 R TAD (-1777
693 01074 R 740100 A SMA
694 01075 R 601100 R JMP .+3
695 01076 R 341634 R TAD (1777
696 01077 R 741000 A SKP
697 01100 R 201634 R LAC (1777
698 01101 R 621070 R JMP* SIZE
699 /
700 /
701 /
702 /
703 /
704 /
705 /
706 01102 R 740040 A UNRUT XX
707 01103 R 041454 R DAC PNTR
708 01104 R 340012 R TAD ROUTAD
709 01105 R 723777 A AAC -1
710 01106 R 041577 R DAC ARG1RT*
711 01107 R 200013 R LAC EOROUT
712 01110 R 041121 R DAC ARG1+2
713 01111 R 200007 R LAC CONNAD
714 01112 R 041124 R DAC ARG1+5
715 01113 R 200010 R LAC EOCONN
716 01114 R 041125 R DAC ARG1+6
717 01115 R 121611 E JMS* READRT
718 01116 R 621102 R JMP* UNRUT

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719 01117 R 001577 R ARG1 .DSA ARG1RT
720 01120 R 001310 R .DSA BUFF
721 01121 R 000000 A 0
722 01122 R 000000 A 0 /DESTRUCTIVE INDICATOR
723 01123 R 001454 R .DSA PNTR
724 01124 R 000000 A 0
725 01125 R 000000 A 0
726 /
727 /
728 /
729 /
730 01126 R 740040 A ZUBNOD XX
731 01127 R 200006 R LAC COMPAD
732 01130 R 041147 R DAC ARG2+2
733 01131 R 740031 A TCA
734 01132 R 341464 R TAD DISFAD
735 01133 R 652000 A LMQ
736 01134 R 754000 A CLL|CLA
737 01135 R 640323 A DIV
738 01136 R 000006 A 6
739 01137 R 641002 A LACQ
740 01140 R 041454 R DAC PNTR
741 01141 R 200011 R LAC LIBAD
742 01142 R 041150 R DAC ARG2+3
743 01143 R 121614 E JMS* SUBNOD
744 01144 R 621126 R JMP* ZUBNOD
745 01145 R 001461 R ARG2 .DSA XCOMP
746 01146 R 001462 R .DSA YCOMP
747 01147 R 000000 A 0
748 01150 R 000000 A 0
749 01151 R 001454 R .DSA PNTR
750 01152 R 001510 R .DSA PINO
751 /
752 /SUBROUTINE TESTIT TEST IF ROUTE IN BUF OVERLAPS RECTANGLE
753 /REPRESENTING COMPONENT OUTLINE DEFINED BY XL,YL,XU,YU.
754 /EXITS TO INSTRUCTION FOLLOWING CALL IF NO OVERLAP! TO SECOND
755 /INSTRUCTION FOLLOWING CALL IF OVERLAP.
756 01153 R 740040 A TESTIT XX
757 01154 R 201663 R LAC (BUFF
758 01155 R 061664 R DAC* (10 /USED FOR SCAN TO READ ROUTE FROM BUF
759 01156 R 201310 R LAC BUFF /NP. OF POINTS
760 01157 R 740031 A TCA
761 01160 R 723001 A AAC 1
762 01161 R 041310 R DAC BUFF /SEGMENT LOOP COUNTER
763 01162 R 220010 A LAC* 10
764 01163 R 041473 R DAC X2
765 01164 R 220010 A LAC* 10
766 01165 R 041474 R DAC Y2 /FIRST POINT READ
767 01166 R 141501 R SEGS DZM SWPFLG /ZERO IF X - Y NOT INTERCHANGED
768 01167 R 201473 R LAC X2
769 01170 R 041471 R DAC X1 /MAKE FIRST POINT SECOND
770 01171 R 201474 R LAC Y2

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771 01172 R 041472 R DAC Y1
772 01173 R 220010 A LAC* 10 /BUMP POINTER PAST SIDE
773 01174 R 220010 A LAC* 10
774 01175 R 041473 R DAC X2
775 01176 R 220010 A LAC* 10
776 01177 R 041474 R DAC Y2 /SECOND POINT READ
777 01200 R 541472 R SAD Y1 /VERTICAL SEGMENT
778 01201 R 741000 A SKP
779 01202 R 101244 R JMS SWOP /SWOPS X'S AND Y'S.
780 01203 R 101264 R JMS BETWN
781 01204 R 201472 R LAC Y1
782 01205 R 201476 R LAC YL
783 01206 R 201500 R LAC YU
784 01207 R 601236 R JMP NOTIN /SEGMENT ABOVE OR BELOW AREA
785 01210 R 101264 R JMS BETWN
786 01211 R 201471 R LAC X1
787 01212 R 201475 R LAC XL
788 01213 R 201477 R LAC XU
789 01214 R 741000 A SKP
790 01215 R 601231 R JMP IN /SEG. IN AREA
791 01216 R 101264 R JMS BETWN
792 01217 R 201473 R LAC X2
793 01220 R 201475 R LAC XL
794 01221 R 201477 R LAC XU
795 01222 R 741000 A SKP
796 01223 R 601231 R JMP IN /SEG. IN AREA
797 01224 R 101264 R JMS BETWN
798 01225 R 201475 R LAC XL
799 01226 R 201471 R LAC X1
800 01227 R 201473 R LAC X2
801 01230 R 601236 R JMP NOTIN /NOT IN AREA
802 01231 R 441153 R IN ISZ TESTIT /SEG. IN AREA
803 01232 R 201501 R LAC SWPFLG
804 01233 R 740200 A SZA
805 01234 R 101244 R JMS SWOP /SWOP X AND Y BACK
806 01235 R 621153 R JMP* TESTIT /EXIT TO SECOND INSTRUCTION FOLLOWING CALL
807 01236 R 201501 R NOTIN LAC SWPFLG
808 01237 R 740200 A SZA
809 01240 R 101244 R JMS SWOP /SWOP X'S AND Y'S BACK
810 01241 R 441310 R ISZ BUFF
811 01242 R 601166 R JMP SEGS /NEXT SEGMENT
812 01243 R 621153 R JMP* TESTIT /NO OVERLAP FOUND
813 /
814 /
815 /
816 /SWOP IS USED TO INTERCHANGE X AND Y VALUES FOR CASE
817 /WHERE SEGMENT IS VERTICAL.
818 /
819 01244 R 740040 A SWOP XX
820 01245 R 441501 R ISZ SWPFLG /TO SHOW X , Y SWOPD.
821 01246 R 201673 R LAC (DY
822 01247 R 061665 R DAC* (11

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823 01250 R 061674 R DAC* 112 /INCR. REGS. SET FOR 4 VARIABLE SWOP
824 01251 R 777774 A LAW 4
825 01252 R 041502 R DAC TEMP1 /COUNTER
826 01253 R 220011 A LOOP3 LAC* 11
827 01254 R 652000 A LMO
828 01255 R 220011 A LAC* 11 /LOAD Y
829 01256 R 060012 A DAC* 12 /STORE IN X
830 01257 R 641002 A LACQ
831 01260 R 060012 A DAC* 12 /STORE IN Y
832 01261 R 441502 R ISZ TEMP1
833 01262 R 601253 R JMP LOOP3 /NEXT PAIR OF VARIABLES
834 01263 R 621244 R JMP* SWOP /EXIT
835 /
836 /
837 /BETWN TESTS IF FIRST ARG OF CALL IS BETWEEN SECOND AND THIRD
838 /ARGS. CALL IS IN FORM:
839 /JMS BETWN
840 /LAC ARG1
841 /LAC ARG2
842 /LAC ARG3
843 /
844 01264 R 740040 A BETWN XX
845 01265 R 421264 R XCT* BETWN /LOADS FIRST ARG.
846 01266 R 740031 A TCA
847 01267 R 041502 R DAC TEMP1 /-FIRST ARG
848 01270 R 441264 R ISZ BETWN
849 01271 R 421264 R XCT* BETWN /LOAD SECOND ARG.
850 01272 R 441264 R ISZ BETWN
851 01273 R 341502 R TAD TEMP1
852 01274 R 041503 R DAC TEMP2
853 01275 R 741200 A SNA
854 01276 R 601305 R JMP BET /END POINTS COINCIDE
855 01277 R 421264 R XCT* BETWN /THIRD ARG.
856 01300 R 341502 R TAD TEMP1
857 01301 R 741200 A SNA
858 01302 R 601305 R JMP BET
859 01303 R 241503 R XOR TEMP2 /TO TEST IF SIGNS ARE SAME
860 01304 R 741100 A SPA /YES. I.E. NOT BETWEEN
861 01305 R 441264 R BET ISZ BETWN /EXIT TO INSTN. FOLLOWING ARGS
862 01306 R 441264 R ISZ BETWN /IF NOT BETWEEN: TO SECOND FOLLOWING CALL
863 01307 R 621264 R JMP* BETWN /IF BETWEEN
864 /
865 /
866 /
867 /
868 01310 R 000000 A BUFF .BLOCK 144
869 01454 R 000000 A PNTR
870 01455 R 000000 A XPIN
871 01456 R 000000 A YPIN
872 01457 R 000000 A XPOS
873 01460 R 000000 A YPOS
874 01461 R 000000 A XCOMP

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875	01462	R	000000	A	YCOMP
876	01463	R	000000	A	NOFCNS
877	01464	R	000000	A	DISFAD
878	01465	R	000000	A	MODE
879	01466	R	000000	A	SCAN
880	01467	R	000000	A	DX
881	01470	R	000000	A	DY
882	01471	R	000000	A	X1
883	01472	R	000000	A	Y1
884	01473	R	000000	A	X2
885	01474	R	000000	A	Y2
886	01475	R	000000	A	XL
887	01476	R	000000	A	YL
888	01477	R	000000	A	XU
889	01500	R	000000	A	YU
890	01501	R	000000	A	SWPFLG
891	01502	R	000000	A	TEMP1
892	01503	R	000000	A	TEMP2
893	01504	R	000000	A	ENDCON
894	01505	R	000000	A	NCNS
895	01506	R	000000	A	CNPTR
896	01507	R	000000	A	CDFAD
897	01510	R	000000	A	PINO
898	01511	R	000000	A	MESS
899	01512	R	001750	A	MBUFF1 1750: 0
	01513	R	000000	A	

.ASCII · ROUTED, KEY OP, 1 SAVE, 2 DELETE, 0 EXIT,

900

	01514	R	201012	A	
	01515	R	247652	A	
	01516	R	522130	A	
	01517	R	426100	A	
	01520	R	456133	A	
	01521	R	120100	A	
	01522	R	476405	A	
	01523	R	420100	A	
	01524	R	305012	A	
	01525	R	340654	A	
	01526	R	425304	A	
	01527	R	020144	A	
	01530	R	202111	A	
	01531	R	442650	A	
	01532	R	425304	A	
	01533	R	020154	A	
	01534	R	202133	A	
	01535	R	044650	A	
	01536	R	574000	A	
	01537	R	000000	A	
901	01540	R	001750	A	MBUFF2 1750: 0
	01541	R	000000	A	
902	01542	R	202270	A	
	01543	R	554500	A	
	01544	R	476405	A	
	01545	R	420100	A	

.ASCII · KEY OP, 1 RELEASE, 2 RELEASE, 3 RELEASE, 4,

903

904
905
906
907

01546 R 305012 A
01547 R 242630 A
01550 R 426032 A
01551 R 342530 A
01552 R 201006 A
01553 R 220244 A
01554 R 426310 A
01555 R 540646 A
01556 R 425304 A
01557 R 020146 A
01560 R 202450 A
01561 R 546212 A
01562 R 406470 A
01563 R 526100 A
01564 R 201505 A
01565 R 400000 A
01566 R 201006 A
01567 R 520256 A
01570 R 446350 A
01571 R 447656 A
01572 R 261004 A
01573 R 033276 A
01574 R 000000 A
01575 R 000000 A
01576 R 000001 A
000000 A
01604 R 001604 E *E
01605 R 001605 E *E
01606 R 001606 E *E
01607 R 001607 E *E
01610 R 001610 E *E
01611 R 001611 E *E
01612 R 001612 E *E
01613 R 001613 E *E
01614 R 001614 E *E
01615 R 001615 E *E
01616 R 001616 E *E
01617 R 001617 E *E
01620 R 001620 E *E
01621 R 001621 E *E
01622 R 001622 E *E
01623 R 600567 R *L
01624 R 001574 R *L
01625 R 773777 A *L
01626 R 000004 A *L
01627 R 004000 A *L
01630 R 000001 A *L
01631 R 200000 A *L
01632 R 000777 A *L
01633 R 000003 A *L
01634 R 001777 A *L
01635 R 000700 A *L

.ASCII 5 WINDOW 6.

LZERO 0
KZERO 0
LONE 1
.END

01636	R	770000	A	*L
01637	R	600320	R	*L
01640	R	620645	R	*L
01641	R	101102	R	*L
01642	R	001512	R	*L
01643	R	000002	A	*L
01644	R	000006	A	*L
01645	R	100675	R	*L
01646	R	600601	R	*L
01647	R	001540	R	*L
01650	R	020000	R	*L
01651	R	600405	R	*L
01652	R	001376	R	*L
01653	R	001376	R	*L
01654	R	001376	R	*L
01655	R	001376	R	*L
01656	R	001376	R	*L
01657	R	001376	R	*L
01658	R	001376	R	*L
01659	R	001376	R	*L
01660	R	001376	R	*L
01661	R	001376	R	*L
01662	R	001376	R	*L
01663	R	001376	R	*L
01664	R	001376	R	*L
01665	R	001376	R	*L
01666	R	001376	R	*L
01667	R	001376	R	*L
01668	R	001376	R	*L
01669	R	001376	R	*L
01670	R	001313	R	*L
01671	R	770000	A	*L
01672	R	776001	A	*L
01673	R	001470	R	*L
01674	R	000010	A	*L

SIZE=01703

NO ERROR LINES

ARG1	01117	89	455	485	718	718	719*	
ARG1RT	01577	460	586	589	632	652	718	719*
ARG2	01145	732	742	745*				
BET	01305	854	858	861*				
BETWN	01264	780	785	791	797	844*	845	848
		850	855	861	862	863		849
BUDGE	00077	98	136*					
BUDGE1	00104	108	141*					
BUFF	01310	555	559	561	563	566	570	573
		579	581	592	593	594	596	577
		612	614	615	618	620	621	608
		630	633	636	640	620	621	611
		810	868*			720	757	625
								628
								762
BUTTON	01604	44	275					
CDFAD	01507	505	507	520	540	896*		
CNPTR	01506	249	260	481	486	895*		
COMMON	00236	156	238*					
COMPAD	00006	70*	731					
CONNAD	00007	71*	82	246	409	713		
CROSS	01042	215	660*	671				
CRSFLG	01600	95	102	475	661	664		
DCX	070000	62*	577	579	581			
DDRAW	00320	245	255	288*				
DISFAD	01464	104	115	116	118	119	129	137
		140	141	151	153	154	161	172
		176	177	184	185	191	192	220
		223	226	231	232	235	236	238
		295	320	322	323	335	339	340
		344	477	479	495	734	877*	343
DLP	00303	275*	282					
DONE	00457	363	370	380	393*			
DRAW	00327	241	295*					
DRAWCP	01605	43	296	497				
DX	01467	331	359	365	378	383	880*	
DY	01470	334	355	368	373	389	821	881*
ENDCON	01504	413	415	893*				
EOCONN	00010	72*	84	412	715			
EOROUT	00013	75*	80	510	711			
EXIT	00567	86	130	144	279	474*	498	
FALG	01601	90	214	239	242			
FIX	00056	99	114*					
FIX1	00063	109	119*					
GOON	00563	435	447	453	459	465*		
HASPAD	00145	169	181*					
IGRID	01606	44						
IN	01231	790	796	802*				
INFILE	01057	663	670*					
KEYS	01064	289	301	678*	681			
KEYVAL	01602	290	302					
KZERO	01575	451	462	464	905*			
LIBAD	00011	73*	163	326	741			
LONE	01576	454	906*					
LOOP	00500	414*	468					

LOOP2	00514	426*	466						
LOOP3	01253	626*	833						
LUP1P	00502	87	286	416*					
LZERO	01574	88	484	904*					
MBUFF1	01512	273	899*						
MBUFF2	01540	293	901*						
MDANG	00774	610	617*	626	629				
MDOUT	01000	621*	654						
MDSL1	01011	607	630*						
MDSL1	01027	644*	653						
MDXL	01003	616	624*						
MDYL	01006	613	627*						
MESS	01511	79	270	271	288	291	898*		
MESS1	01607	44	274	294					
MF.101	01610	43	665						
MODE	01465	92	101	105	122	149	266	297	421
		430	878*						
MODRUT	00755	492	602*	623					
MOVERT	00001	1	40	65*	476				
NCNS	01505	254	262	488	894*				
NEG	00044	94	100*						
NOFCNS	01463	253	263	425	465	489	529	876*	
NOPADS	00175	180	205*						
NOTDUN	00526	432	436*						
NOTIN	01236	784	801	807*					
NOTYET	00575	304	477*						
N1	00004	68*	103	114	136				
N2	00005	69*	91	198					
ONE	00431	352	371*						
ORIENT	00404	338	347	348	349	350*			
PINO	01510	182	534	750	897*				
PNTR	01454	445	456	707	723	740	749	869*	
POSIT	00207	204	215*	480					
PUSBUT	00000	51*	51	78					
READRT	01611	43	717						
REPOS	00121	147	161*						
RITRT	00623	583*	514	597	622				
ROUTAD	00012	74*	76	77	449	509	708		
RSCAN	00645	257	259	269	277	287	494	524*	547
RSC1	00650	256	491	527*					
RSC2	00673	258	265	284	493	546*			
SADX	570000	61*	566	570					
SCALE	01612	43							
SCALUP	01613	43	208						
SCAN	01466	248	250	261	410	414	417	422	426
		427	433	434	436	437	438	440	467
		487	528	529	532	535	536	538	539
		879*							
SEGS	01166	767*	811						
SE7M4	00346	300	307	320*					
SLE	01070	209	212	218	229	689*	698		
90000	01614	43	743						
50000	00637	81	83	85	504	515*			

SVARRR	01603	511	515						
SVELP	00746	585	592*						
SVEXT	00601	285	481*						
SVEX2	00617	490	495*						
SVOK	00752	560	596*						
SVRST	00723	573*	591						
SVRUT	00675	283	551*	560	572	598			
SWOP	01244	779	805	809	819*	834			
SWPFLG	01501	767	803	807	820	890*			
TEMP1	01502	327	328	531	605	825	832	847	851
		856	891*						
TEMP2	01503	483	606	852	859	892*			
TESTIT	01153	458	756*	802	806	812			
THREE	00410	354*							
TRACK	01615	44	670						
TWO	00443	353	381*						
UNRUT	01102	264	457	552	603	706*	718		
WINDOW	01616	44	309						
WRITRT	01617	44	513						
XCOMP	01461	165	166	175	188	207	554	585	617
		627	638	639	645	745	874*		
XL	01475	342	354	364	371	376	381	386	399
		401	787	793	798	886*			
XPIN	01455	170	190	217	870*				
XPOS	01457	202	210	216	668	672	872*		
XU	01477	356	366	372	375	382	385	393	395
		788	794	888*					
X0	01470	44							
X1	01471	769	786	788	882*				
X2	01473	769	786	788	882*				
XCOMP	01492	769	786	788	882*				
	01476	769	786	788	882*				
		769	786	788	882*				
Y0	01458	769	786	788	882*				
YPOS	01488	769	786	788	882*				
YU	01508	769	786	788	882*				
		783	889*						
Y0	01621	44							
Y1	01472	771	777	781	883*				
Y2	01474	766	770	776	885*				
ZERO	00422	351	364*						
ZUBNOD	01126	183	553	604	730*	744			
.DA	01622	43	66						

MOVERTCOMMONCALLED ROUTINES

BUTTON (SUBS)
DRAWCP (DRAW)
IGRID (DRAW)
MESS 7
MF. 10.1 (VTPRIM)
READRT
SCALE (DRAW)
SCALUP (DRAW)
SUBNOD
TRACK
WRITRT

XØ (DRAW)
YØ (DRAW)
·DA

CALLING ROUTINES