

DEALLOCATION ROUTINES

<<<<<<<<

000000		
3 000000	ENT	ALINI
4 000000	ENT	ALINI+
5 000000	ENT	ALINI-
6 000000	ENT	ASCHM1
7 000000	ENT	BININT
8 000000	ENT	BOP
9 000000	ENT	DALLOC
10 000000	ENT	FBPGM
11 000000	ENT	FRSTLG
12 000000	ENT	LABTK?
13 000000	ENT	NEXTD
14 000000	ENT	NXTLIN
15 000000	ENT	SKIPL
16 000000	ENT	SKPANM
17 000000	ENT	SKPCON
18 000000	ENT	SKPRS
19 000000		
20 000000	EXT	EADDR
21 000000	EXT	ELINE#
22 000000	EXT	ELNCAP
23 000000	EXT	EMOVUP
24 000000	EXT	EMOVON
25 000000	EXT	EXTR1
26 000000	EXT	FXRSET
27 000000	EXT	GETNXT
28 000000	EXT	INFR3
29 000000	EXT	RELUMP
30 000000	EXT	ROMCL-
31 000000	EXT	ROMCLA
32 000000	EXT	ROMINI
33 000000	EXT	SKPNM+
34 000000	EXT	SKPNM1
35 000000	EXT	TSTALO
36 000000		
37 000000		

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>>>>
39 000000      *
40 000000      *
41 000000      * THIS ROUTINE DEALLOCATES ALL VARIABLES IN THE
42 000000      * CURRENT PROGRAM IF ERRSTP IS ZERO. IF ERRSTP
43 000000      * IS NON-ZERO THEN DEALLOCATION CEASES AT THE
44 000000      * TOKEN POINTED TO BE ERRSTP.
45 000000      * THE ROUTINE IS ENTERED BY A JSB AND SAVES AND
46 000000      * RESTORES THE DCM FF STATUS. IT REQUIRES NO
47 000000      * INPUT OTHER THAN THE GLOBAL SYSTEM POINTERS,
48 000000      * HOWEVER ALL REGISTERS BEGINNING WITH R20 ARE
49 000000      * CONSIDERED VOLATILE.
50 000000      *
51 000000      *
52 000000      *
53 000000      *****  INITIALIZATION PART  *****
54 000000      DALLOC BSS 0
55 000000 116 220      TSB R16      PROGRAM MODE?
56 000002 362 006      JOD DALLOC1      JIF NOT
57 000004 102 260 104      LDBD R2,=DALLED      DEALLOCATED ?
58 000007 202
59 000010 367 001      JZR DALLOC      JIF NO
60 000012 236      DALLOC1 RTN      RTN IF CALC MODE
61 000013
62 000013      DALLOC BSS 0
63 000013 230      BIN      FORCE TO BINARY
64 000014 262 001 377      STBD R#,=GINTDS      DISABLE INTERRUPTS
65 000017 210      ICB R#      FLAG DEALLOCATED
66 000020 262 104 202      STBD R#,=DALLED
67 000023 262 047 200      STBD R#,=CONTOK      CONT NOW ILLEGAL
68 000026      *      PTR2 PTS TO P.TYP
69 000026      *      DEALLOCATE COMMON
70 000026 175 261 003      LDND R75,=FWPRGM      SOURCE
71 000031 200
72 000032 321 006 200      CMND R75,=FWCURR      IS CURR PGM THE MAIN ?
73 000035 366 044      JNZ NEXTI      JIF NOT, NO DALLOC COMMON
74 000037 321 000 200      CMND R75,=FWUSER      ARE THERE COMMON VARIABLES ?
75 000042 367 037      JZR NEXTI      JIF NOT
76 000044 045 243      STM R75,R45      SAVE A COPY
77 000046 263 310 377      STND R75,=PTR1
78 000051 261 000 200      LDND R75,=FWUSER      SINK
79 000054 263 314 377      STND R75,=PTR2
80 000057 263 003 200      STND R75,=FWPRGM      UPDATE POINTERS
81 000062 263 006 200      STND R75,=FWCURR
82 000065 263 011 200      STND R75,=NXTCOM
83 000070 305      SBM R75,R45      DISTANCE TO MOVE
84 000071 145 325 154      SBMD R45,=SAVPT2      SIZE TO BE MOVED
85 000074 210
86 000075 316 377 377      JSB =FXRSET      FIX POINTERS
87 000100      DALLY BSS 0
88 000100 316 377 377      JSB =EMOVUP      MOVUP
89 000103 124 250 011      LDB R24,=11      DALLOC ROMFL
90 000106 316 322 001      JSB =ALINI      INIT ROUTINE

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>>>>>
000111
90 000111
91 000111
92 000111 316 377 377 NEXTD JSB =GETNXT GET NEXT VRBL
93 000114 316 377 377 JSB =ROMCL- CHECK FOR CLASS > 56
94 000117 175 261 310 LDMD R75,=PTR1 IS IT END OF DEALLOC ?
94 000122 377
95 000123 321 003 207 CMMD R75,=ERRSTP
96 000126 367 145 JZR XDALL2 JIF YES
97 000130 136 310 030 NEXT1 CNB R36,=30
98 000133 365 354 JFS NEXTD JIF NOT DEALLOCATABLE
99 000135 205 LLM R36
100 000136 036 265 164 LDMD R36,X36,JDTAB GET JUMP ADDRESS
100 000141 000
101 000142 306 000 000 JSB X36,ZRO GO DOIT
102 000145 117 310 300 CNB R17,=300 ERRORS? DO NEXT
103 000150 372 337 JNC NEXTD LOOP IF NO
104 000152
105 000152
106 000152 175 261 003
106 000155 207 LDMD R75,=ERRSTP ERR FROM ALLOC ?
107 000156 366 331 JNZ NEXTD JIF YES
108 000160 360 116 JMP XDALL
109 000162
110 000162
111 000162
112 000162 377 377
113 000164 265 000 JDTAB DEF ROMINI -1 ROM CLASS > 56
114 000166 366 000 DEF XDALL1 0
115 000170 171 002 DEF VDALOC 1
116 000172 361 000 DEF BININT 2
117 000174 161 002 DEF SVALD 3
118 000176 377 377 DEF SKPCON 4
119 000200 247 001 DEF SKPNM+ 5
120 000202 313 000 DEF DALFNC 6
121 000204 313 000 DEF LINEDA 7
122 000206 377 377 DEF EADDR 10
123 000210 033 001 DEF DALFN 11
124 000212 377 377 DEF EADDR 12
125 000214 377 377 DEF ROMCLA 13
126 000216 261 000 DEF FRRET 14
127 000220 377 377 DEF EADDR 15 OPTION
128 000222 261 000 DEF FRRET 16
129 000224 262 000 DEF SKPNX1 17
130 000226 261 000 DEF DIND 20
131 000230 261 000 DEF SHORTD 21
132 000232 261 000 DEF INTO 22
133 000234 261 000 DEF COMMD 23
134 000236 313 000 DEF LINEDA 24
135 000240 377 377 DEF EADDR 25 ELSE JMP#
136 000242 313 000 DEF LINEDA 26 ELSE JMP#REL
137 000244
1 000244

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=====
PARMA 03/14/81=====
ITEM    LOG    OBJECT CODE    SRC=CCDALL OBJ=GENDAL    9/11/1981 11:34 AM PG 4
=====
>>>>
139 000244          ***** END OF CURRENT LINE *****
140 000244
141 000244          SKIPL      BSS      0
142 000244 175 261 115          LDMC R75,=PCR      GET FWA OF THE LINE
142 000247 202
143 000250 263 310 377          STMD R75,=PTR1      SETUP PTR
144 000253 316 377 377          JSB      =EAADR      SKIP LINE #
145 000256          SKIPX      BSS      0
146 000256 316 377 377          JSB      =3KPNM1      SKIP THE REST OF THE LINE
147 000261          ORP      175
148 000261          DIMD      BSS      0
149 000261          SHORTD     BSS      0
150 000261          INTO      BSS      0
151 000261          COMMD      BSS      0
152 000261          FRRET      BSS      0
153 000261 236          RTN
154 000262          NOW POINT TO NEXT LINE
155 000262 316 244 000 SKPNX1   JSB      =SKIPL
156 000265 136 006 343 XDALL1    POMD R36,-R6      RETURN ADDR
157 000270 316 021 002          JSB      =NXTLIN
158 000273 370 214          JEN NEXTD      JIF NOT LAST LINE
159 000275          XDALL2     BSS      0
160 000275 316 107 002          JSB      =ALINIX      RESET SOME PAR
161 000300 262 000 377 XDALL     STBD R#,=GINTEN    ENABLE INTERRUPTS
162 000303 236          RTN      EXIT
163 000304          *
164 000304          *
165 000304          * SUBROUTINE LINEDA
166 000304          *
167 000304          * THIS SUBROUTINE DEALLOCATES LINE NUMBERS
168 000304          * AND REPLACES THE REL ADDR WITH THE
169 000304          * ACTUAL LINE NUMBER
170 000304          *
171 000304          *
172 000304          DAGNAM      BSS      0
173 000304          LABLDA      BSS      0      LABEL DEALLOCATION
174 000304 165 223          CLM      R65      RESET REL ADDR
175 000306 273 311 377          STMI R65,=PTR1-
176 000311 360 343          DAGNM+    JMP      SKIPX      SKIP THE NAME
177 000313
178 000313          LINEDA      BSS      0
179 000313 316 002 001          JSB      =LABTK?      ONE OF THE LABEL TOKEN?
180 000316 367 364          JZR      LABLDA      JIF YES
181 000320 165 260 157          LDBD R65,=GEMINI    IS IT GEMINI PRGM?
181 000323 210
182 000324 366 011          JNZ      LINDAG      JIF YES
183 000326
184 000326          LINDAG      BSS      0      DEALLO CAPR LINE #
185 000326 316 306 001          JSB      =ABSADR      GET ABS ADDR OF LINE
186 000331 166 271 315          LDMI R66,=PTR2-    FETCH LINE #
186 000334 377
187 000335          ***** STMI R66,=PTR1      STORE IN PLACE
188 000335          ***** RTN

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ARMA 03/14/81=====
ITEM   LOC   OBJECT CODE SRC=CCDALL OBJ=GEMDAL  9/11/1981 11:34 AM PG  5
=====
>>>>
1 000335 260 016          JMP  LINDA1          STORE IN PLACE
190 000337
191 000337          LINDAG  BSS  0
192 000337          ORP  165
193 000337 271 311 377    LDNI R65,=PTR1-    FETCH REL ADDR
194 000342 265 014          JPS  LNDAGR          JIF NOT ALLOCATED
195 000344 323 006 200    ADMD R65,=FMCURR    MAKE IT ABSOLUTE
196 000347 263 314 377    STMD R65,=PTR2    SET POINTER
197 000352 271 315 377    LDNI R65,=PTR2-    GET LINE #
198 000355 273 310 377 LINDA1 STMI R#,=PTR1    STORE IN PLACE
199 000360 236          LNDAGR  RTN
200 000361
201 000361          *
202 000361          *
203 000361          *
204 000361          *  SUBROUTINE VDALOC
205 000361          *
206 000361          *
207 000361          *  THIS ROUTINE IS CALLED TO DEALLOCATE A
208 000361          *  VARIABLE. IF RUN, THE ADDRESS OF THE
209 000361          *  VARIABLE IS RELATIVE TO THE VARIABLE AREA
210 000361          *  OF THE CURRENT PROGRAM.
211 000361          *
212 000361          *
213 000361          *  INPUT REGISTERS
214 000361          *
215 000361          *
216 000361          *  R23      =  TOKEN
217 000361          *  PTR1     =  PTR TO ADDR IN STACK
218 000361          *
219 000361          *
220 000361          *
221 000361 123 310 257    BVALD  BSS  0
222 000364 367 323          CMB  R23,=257      DEFINE LABEL??
223 000366          JZR  DAGNM+      JIF YES
224 000366          VDALOC  BSS  0
225 000371 134 260 157    LDBD  R34,=GEMINI    IS IT GEMINI PGM?
226 000372 210
227 000372 266 310          JNZ  DAGNAM          JIF YES
228 000374 316 256 001 VDALO1 JSB  =ASCNAM      NAME TO ASCII
229 000377          ***** STMI R36,=PTR1
230 000377          ***** RTN          EXIT
231 000400 136          ORP  36
232 000402 260 353          JMP  LINDA1          PUT NAME BACK
233 000402
234 000402          *
235 000402          *  CHECK TO SEE IF IT IS ONE OF THE LABEL TOKENS
236 000402          *
237 000402          *  IN:
238 000402          *  R23=INPUT TOKEN
239 000402          *
240 000402          *  OUT:
241 000402          *  Z=1 IF IT IS A LABEL TOKEN
242 000402          *

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>>>>
240 000402          *          0 IF IT IS NOT          <<<<<<
240 000402          *
240 000402          *
241 000402          *
242 000402          *
243 000402 124 251 025 LABTK? BSS 0
243 000405 001          LDM R24,=LABTOK BASE OF LABEL TOK TABLE
244 000406 102 250 005          LDB R2,=5          6 ENTRIES IN TABLE
245 000411          LABTK+ BSS 0
246 000411 122 024 340          POBD R22,=R24          GET AN ENTRY FROM TABLE
247 000414 023 300          CMB R22,R23          COPARE WITH INPUT TOKEN
248 000416 267 004          JZR LABRTN          JIF MATCH
249 000420 102 212          DCB R2          DEC COUNT
250 000422 265 365          JPS LABTK+          LOOP BACK
251 000424 236          LABRTN RTN
252 000425
253 000425          LABTOK BSS 0
254 000425 041          OCT 41          THEN label
254 000426 043          OCT 43          ELSE label
256 000427 262          OCT 262          GOTO label
257 000430 270          OCT 270          GOSUB label
258 000431 335          OCT 335          RESTORE label
259 000432 345          OCT 345          USING label
260 000433
261 000433          * FN DEALLOCATE
262 000433          *
263 000433          * THIS ROUTINE DEALLOCATES USER
264 000433          * DEFINED FUNCTIONS
265 000433          *
266 000433          DALFN BSS 0
267 000433 145 271 313          LDMI R45,=PTR1-+          SAVE FN STORE ADDR
267 000436 377
268 000437 316 366 000          JSB =VDALOC          DO COMMON PART
269 000442 316 377 377          JSB =EADDR          SKIP JUMP ADDR
270 000445 170 260 157          LDBD R70,=GEMINI          IS IT A GEMINI PRGM?
270 000450 210
271 000451 266 046          JNZ DAGFN          JIF YES
271 000453 270 311 377          LDBI R70,=PTR1-          GET PAR CNT STR FLG
273 000456 206          LRB R70          GET PAR CNT
274 000457          SKPR BSS 0
275 000457 100 070 240          LDB R0,R70          COPY PAR CNT
276 000462 267 034          JZR NONP          JIF NO PAR
277 000464          PARLP2 BSS 0
278 000464 175 251 010          LDM R75,=10,0,0          ASSUME NUM PAR
278 000467 000 000
279 000471 166 271 311          LDMI R66,=PTR1-          GET HEADER
279 000474 377
280 000475 265 012          JPS ADDTEM          JIF NUM PAR
281 000477 316 377 377          JSB =ELNCAP          GET TOT LEN
282 000502 165 313 004          ADM R65,=4,0,0          SKIP MAX,ACT LEN
282 000505 000 000
283 000507 075 243          STM R65,R75          SAVE IT
284 000511          ADDTEM BSS 0

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ARMA 03/14/81=====
ITEM LOC OBJECT CODE SRC=CCDALL OBJ=GEZDAL 9/11/1981 11:34 AM PG 7
=====
>>>>
286 000511 316 377 377 JSB =3KPBYT SKIP THEM
286 000514 100 212 DCB R0 DEC COUNT
287 000516 766 344 JNZ PARLP2 JIF MORE
288 000520 236 NONP RTN
289 000521
290 000521 DAGFN BSS 0
291 000521 145 221 TSM R45 FN ALLOCATED ?
292 000523 367 021 JZR DAGFN1 JIF NOT
293 000525 323 006 200 ADMD R45,=FWCURR MAKE IT ABS ADDR
294 000530 315 004 000 SBM R45,=4,0,0 PT TO PTR TO DEF FN
294 000533 000
295 000534 263 314 377 STMD R45,=PTR2
296 000537 223 CLM R45
297 000540 273 315 377 STMI R45,=PTR2- RESET PTR
298 000543 273 310 377 STMI R45,=PTR1 ZERO JUMP ADDR
299 000546 DAGFN1 BSS 0
300 000546 170 270 311 LDBI R70,=PTR1- GET PAR CNT / STR FLG
300 000551 377
300 000552 206 LRB R70 GET PAR CNT
301 000553 316 162 001 JSB =3KPANM SKIP PAR NAMES
303 000556 316 177 001 JSB =3KPRS SKIP PAR STORAGES
304 000561 236 RTN
305 000562
306 000562 SKPANM BSS 0
307 000562 100 070 240 LDB R0,R70 COPY PAR CNT
308 000565 367 007 JZR SKPAN2 JIF NO PAR
308 000567 SKPAN1 BSS 0
310 000567 316 377 377 JSB =3KPNM+ SKIP ONE PAR NAME
311 000572 100 212 DCB R0 DEC CNT
312 000574 766 371 JNZ SKPAN1 JIF MORE
313 000576 236 SKPAN2 RTN
314 000577
315 000577 SKPRS BSS 0
316 000577 100 070 240 LDB R0,R70 COPY PAR CNT
317 000602 367 042 JZR SKPRS1 JIF NO PAR
318 000604 PARLP BSS 0
319 000604 160 270 311 LDBI R60,=PTR1- GET PAR TYPE
319 000607 377
320 000610 365 015 JPS NUMPAR JIF NUM PAR
321 000612 175 271 311 LDHI R75,=PTR1- SKIP NAME PTR
321 000615 377
322 000616 271 311 377 LDHI R75,=PTR1- GET TOT LEN
323 000621 166 271 311 LDHI R65,=PTR1- SKIP MAX LEN
323 000624 377
324 000625 760 010 JMP ADDEM GO TO SKIP
325 000627 NUMPAR BSS 0
326 000627 175 271 311 LDHI R75,=PTR1- SKIP NAME PTR
326 000632 377
327 000633 251 010 000 LDM R75,=10,0,0 ;8 BYTES FOR REAL #
327 000636 000
328 000637 ADDEM BSS 0
329 000637 316 377 377 JSB =3KPBYT PASS OVER STORAGE
30 000642 100 212 DCB R0 DEC COUNT

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CARNA 03/14/81=====
ITEM    LOC    OBJECT CODE SRC=CCDALL 06J=CCNDAL  9/11/1981 11:34 AM PG  8
=====
>>>>>
300 000644 266 336          UNZ  PARLP          JIF MORE
332 000646 236          SKFRS1  RTN
333 000647
334 000647
335 000647
336 000647
337 000647
338 000647
339 000647
340 000647 316 266 000 DALLFNC  JSB =VDALOC      DEALLOC FUNC NAME
341 000652 316 377 377          JSB  =SKFNM+      SKIP PAR COUNT/TYPES
342 000655 236          RTN
343 000656
344 000656
345 000656
346 000656
347 000656
348 000656
349 000656
350 000656
351 000656
352 000656
353 000656
354 000656
355 000656
356 000656
357 000656
358 000656
359 000656
360 000656 316 306 001          JSB  =ABSADR      GET ABS ADDR OF VAR
361 000661 136 271 315          LDMI R36,=PTR2-    FETCH PACKED VAR NAME
361 000664 377
362 000665 136 317 037 ASCNM1  ANM R36,=37,17    MASK OFF FLAGS
362 000670 017
363 000671 137 310 012          CMB R37,=12      IS IT BLANK
364 000674 266 002          UNZ  NTBLA          JIF NOT BLANK
365 000676 250 360          LDB R37,=360      -20 SO IT COMES UP BLANK
366 000700 312 060          NTBLA  ADB R#,=60      NUM PART OR BLANK
367 000702 136 312 100          ADB R36,=100     ALPHA PART
368 000705 236          RTN
369 000706
370 000706
371 000706 316 377 377          ABSADR BSS  0
372 000711 165 215          JSB  =ELNCAP      GET CAPR REL ADDR
373 000713 323 006 200          TCM  R65      NEGATE IT
374 000716 263 314 377          ADMD R65,=FWCURR  GET ABS ADDR
375 000721 236          STMD R65,=PTR2    SET POINTER
376 000722          RTN

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>>>> LOCAL SUBROUTINES <<<<<<<
000722 *
379 000722 * SUBROUTINE ALINI
380 000722 *
381 000722 * THIS ROUTINE DOES THE INITIALIZATION
382 000722 * FOR ALLOC AND DALLOC.
383 000722 *
384 000722
385 000722 316 377 377 ALINI JSB =EXTR1 SELECT ROM 0
386 000725 124 262 065 STBD R24,=ROMFL
386 000730 210
387 000731 116 220 TSB R16
388 000733 263 017 JEV ALINI1 JIF NOT CALC MODE
389 000735 145 251 341 LDMD R45,=STSIZE GET STATEMENT ADDR
389 000740 203
390 000741 263 310 377 STMD R45,=PTR1 SET POINTER
391 000744 251 231 231 LDM R45,=231,231,12 SIMULATE LAST LINE
391 000747 012
392 000750 263 237 210 STMD R45,=ALINE# SAVE LINE #
393 000753 236 RTN
394 000754
395 000754 ALINI1 BSS 0
396 000754 316 372 001 JSB =FRSTLN PT TO 1ST LINE#
397 000757 ORP 145
398 000757 263 310 377 STMD R45,=PTR1 SET POINTER
399 000762 223 CLM R45 PRESET LINE# TO ZERO
400 000763 263 237 210 STMD R45,=ALINE#
401 000766 316 021 002 JSB =NXTLIN
402 000771 236 RTN
403 000772
404 000772 FRSTLN BSS 0
405 000772 145 260 157 LDBD R45,=GEMINI GET GEMINI FLAG
405 000775 210
406 000776 266 011 JNZ FRSTLG JIF GEMINI PGM
407 001000 FRSTLC BSS 0
408 001000 ORP 145
409 001000 251 006 200 LDMD R45,=FWCURR GET FWA OF PGM
410 001003 315 030 000 SBM R45,=P.GOC POINT TO 1ST LINE
411 001006 000 OCT 0
412 001007 236 RTN
413 001010
414 001010
415 001010 BOP BSS 0
416 001010 165 ORP 65 USE R65 FOR BOP
417 001011 FRSTLG BSS 0
418 001011 251 006 200 LDMD R#, =FWCURR GET FWA OF PGM
419 001014 315 040 000 SBM R#, =P.GOC POINT TO 1ST LINE
420 001017 000 OCT 0
421 001020 236 RTN
422 001021

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GLOBAL SUBROUTINES

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424 001021
425 001021
425 001021
426 001021
427 001021
428 001021
429 001021
430 001021
431 001021
432 001021
433 001021
434 001021
435 001021
436 001021
437 001021
438 001021
439 001021
440 001021
    001021
442 001021
443 001021
443 001021
443 001021
444 001021
445 001021 235
446 001022 230
447 001023 175 261 237
447 001026 210
448 001027 316 137 002
449 001032 367 037
450 001034 234
451 001035 145 261 310
451 001040 377
452 001041 263 115 202
453 001044 316 377 377
454 001047 165 263 237
454 001052 210
    001053 140 270 311
455 001056 377
456 001057
457 001057 122 222
458 001061 262 264 203
459 001064 262 015 204
460 001067 210
461 001070 262 160 210
462 001073 236
463 001074
464 001074
465 001074 165 261 000
465 001077 200
466 001100 263 011 200
467 001103 222
468 001104 262 263 203

```

```

*****
*
* SUBROUTINE NXTLIN
*
* THIS ROUTINE WILL CHECK FOR LAST
* LINE (E.G. 10000) AND IF NOT WILL
* ADVANCE TO THE NEXT LINE
*
* INPUTS
*   ALINE# = LAST LINE #
*   PTR1   = POINTER TO NEXT LINE
*
* OUTPUTS
*
*   E      = 0 IF LAST LINE ELSE #0
*   PTR1   = POINTER TO NEXT TOKEN
*   ALINE# = NEW LINE #
*   R40    = BYTES THIS LINE
*   R22    = 1   DEFAULT NOT DIM DECLARATION
*   PCR    = ABS ADDR OF CURRENT LINE
*
*****

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```

NXTLIN  CLE
        BIN
        LDMD R75,=ALINE#   LINE #
        JSB =LSTLN?       LINE A9999 OR A999 ?
        JZR NXLRTH        JIF YES
        ICE
        LDMD R45,=PTR1     GET ADDR OF CURR STMT
        STMD R45,=PCR      ADDR OF CURRENT LINE
        JSB =ELINE#       NEXT LINE NUMBER
        STMD R65,=ALINE#  LINE# FOR ERR PROC
        LDBI R40,=PTR1-   GET STMT SIZE
ALINI-  BSS 0
        CLB R22
        STBD R22,=COMFLG  NOT COM
        STBD R22,=DIMFLG  NOT DIM
        ICB R22
        STBD R22,=DIMDIM  CLEAR DIM FLAG
NXLRTH  RTN
ALINI+  BSS 0
        LDMD R65,=FWUSER  RESET NXTCOM
        STMD R65,=NXTCOM
        CLB R65
        STBD R65,=DCLCOM  RESET DCLCOM

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GLOBAL SUBROUTINES

<<<<<<<<

```

001107      ALINIX      BSS      0
470 001107 165 223      CLM      R65
471 001111 263 003 207  STMD     R65,=ERRSTP  RESET ERRSTP
472 001114 263 172 210  STMD     R65,=DFPAR1  RESET DEF FUN FLG
473 001117 122 223      CLM      R22
474 001121 262 263 203  STBD     R22,=DCLCOM  NOT COMMON DECLARER
475 001124 251 001 200  LDM       R22,=1,200  DEFAULT OPT BAS
476 001127 263 175 200  STMD     R22,=OPTBAS
477 001132 263 214 210  STMD     R22,=PGMOPT
478 001135 760 320      JMP      ALINI-    RESET OTHER FLAGS
479 001137
480 001137      LSTLN?     BSS      0
481 001137 170 260 157  LDBD     R70,=GEMINI  IS IT GEMINI PGM?
481 001142 210
482 001143 766 006      UNZ      LSTLNG      JIF YES
483 001145      LSTLNC     BSS      0
484 001145 175 311 231  CMM      R75,=231,251,0 IS IT A999?
484 001150 251 000
485 001152 236      RTN
486 001153
487 001153      LSTLNG     BSS      0
488 001153 175 311 231  CMM      R75,=231,231,12 IS IT A9999?
488 001156 231 012
489 001160 236      RTN
490 001161
491 001161      *
491 001161      *
493 001161      * SUBROUTINE SKPCON
494 001161      *
495 001161      *
496 001161      * THIS ROUTINE WILL SKIP OVER AN
497 001161      * ARITH CONST OR A STRING CONST.
498 001161      *
499 001161 175 223      SKPCON  CLM      R75
500 001163 250 010      LDB      R75,=10      ASSUM NUM CONST
501 001165 316 377 377 SKPC1  JSB      =SKPBYT  ADVANCE OVER CONST
502 001170 236      RTN      EXIT
503 001171
504 001171      EXT      SKPBYT
505 001171
506 001171 175 251 003 BININT  LDM      R75,=3,0,0  ASSUME INT CONSTANT
506 001174 000 000
507 001176 123 310 032      CMB      R23,=32      IS IT?
508 001201 767 362      JZR      SKPC1      JIF YES
509 001203 175 250 001      LDB      R75,=1      SKIP 1 FOR INDENTATION
510 001206 360 355      JMP      SKPC1      GOTO SKIP
511 001210
512 001210      *****
512 001210      *
513 001210      * R22=BIHARY PROGRAM NUMBER
513 001210      *
517 001210      *****
518 001210

```

GLOBAL SUBROUTINES

```

515 001210      FBPGM      BSS      0      FIND BINARY PROGRAM
516 001210 100 250 005      LDB      R0,=5      MAX # OF SPGMS
517 001213 114 251 073      LDM      R14,=BINBAS  GET BASE TO BIN TABLE
517 001216 210
518 001217      FLOOP      BSS      0
519 001217 120 014 341      POMD     R20,+R14      GET ONE ENTRY
520 001222 367 015      JZR      NOTFND      JIF NO MORE
521 001224 103 020 264      LDBD     R3,X20,BPGM#  GET BPGM #
521 001227 007 000
522 001231 022 300      CMB      R3,R22      IS IT WHAT WE ARE LOOKING FOR
523 001233 367 006      JZR      FOUND      JIF YES
524 001235 100 212      DCB      R0      DEC COUNT
525 001237 366 356      JNZ      FLOOP      JIF NOT END OF TABLE
526 001241      NOTFND      BSS      0
527 001241 120 223      CLM      R20
528 001243      FOUND      BSS      0
529 001243 120 263 070      STMD     R20,=BINTAB  MAKE IT CUR BPGM
529 001246 210
530 001247 236      RTH
531 001250
532 001250      FIN
  
```

|        |        |       |   |
|--------|--------|-------|---|
| BSADR  | 000706 | LCL   | 2 |
| BTM    | 000637 | LCL   | 1 |
| CEM    | 000511 | LCL   | 1 |
| ELINE# | 104237 | G DAD | 4 |
| ELINI  | 000722 | ENT   | 2 |
| ELINI+ | 001074 | ENT   | 1 |
| ELINI- | 001057 | ENT   | 2 |
| ELINI1 | 000754 | LCL   | 1 |
| ELINIX | 001107 | LCL   | 1 |
| ESCHAM | 000656 | LCL   | 1 |
| ESCHM1 | 000665 | ENT   | 1 |
| FINBAS | 104073 | G DAD | 1 |
| FININT | 001171 | ENT   | 2 |
| FINTAB | 104079 | G DAD | 1 |
| FOR    | 001010 | ENT   | 1 |
| FORGM# | 000007 | G EQU | 1 |
| COMFLG | 101664 | G DAD | 1 |
| COMMD  | 000261 | LCL   | 1 |
| CONTOK | 100047 | G DAD | 1 |
| DAGFN  | 000521 | LCL   | 1 |
| DAGFN1 | 000546 | LCL   | 1 |
| DAGAM  | 000304 | LCL   | 1 |
| DAGNM+ | 000311 | LCL   | 1 |
| DALFN  | 000433 | LCL   | 1 |
| DALFNC | 000647 | LCL   | 1 |
| DALLED | 101104 | G DAD | 2 |
| DALLOC | 000000 | ENT   | 1 |
| DALLOD | 000013 | LCL   | 1 |
| DALY   | 000100 | LCL   | 0 |
| DALOCI | 000012 | LCL   | 1 |
| DOLCOM | 101663 | G DAD | 2 |
| DOPAR1 | 104172 | G DAD | 1 |
| DIND   | 000261 | LCL   | 1 |
| DINDIM | 104160 | G DAD | 1 |
| DIMFLG | 102015 | G DAD | 1 |
| EADDR  | 177777 | EXT   | 6 |
| ELINE# | 177777 | EXT   | 1 |
| ELNCAP | 177777 | EXT   | 2 |
| EMOVDN | 177777 | EXT   | 0 |
| EMOVUP | 177777 | EXT   | 1 |
| ETP    | 103403 | G DAD | 3 |
| EXTR1  | 177777 | EXT   | 1 |
| FBPGM  | 001210 | ENT   | 1 |
| FLOOP  | 001217 | LCL   | 1 |
| FOUND  | 001243 | LCL   | 1 |
| FRRET  | 000261 | LCL   | 2 |
| FRSTLC | 001000 | LCL   | 0 |
| FRSTLG | 001011 | ENT   | 2 |
| FRSTLN | 000772 | LCL   | 1 |
| FWCURR | 100006 | G DAD | 7 |
| FWPRGM | 100003 | G DAD | 2 |
| FWUSER | 100000 | G DAD | 3 |
| FXRSET | 177777 | EXT   | 1 |
| GEM'NI | 104157 | G DAD | 5 |

<--- NOT REFERENCED??

<--- NOT REFERENCED??

<--- NOT REFERENCED??

PARMA 03/14/81=====

| SYMBOL | VALUE | TYPE | COUNT | Symbol Table | 9/11/1981 11:34 AM PG 14 |
|--------|-------|------|-------|--------------|--------------------------|
|--------|-------|------|-------|--------------|--------------------------|

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|         |        |       |    |                       |  |
|---------|--------|-------|----|-----------------------|--|
| GETNXT  | 177777 | EXT   | 1  |                       |  |
| G TDS   | 177401 | G DAD | 1  |                       |  |
| G I EN  | 177400 | G DAD | 1  |                       |  |
| INFR3   | 177777 | EXT   | 0  | <--- NOT REFERENCED?? |  |
| INTD    | 000261 | LCL   | 1  |                       |  |
| JDTAB   | 000164 | LCL   | 1  |                       |  |
| LABLDA  | 000304 | LCL   | 1  |                       |  |
| LABRTN  | 000424 | LCL   | 1  |                       |  |
| LABTK+  | 000411 | LCL   | 1  |                       |  |
| LABTK?  | 000402 | ENT   | 2  |                       |  |
| LABTOK  | 000425 | LCL   | 1  |                       |  |
| LINDA1  | 000355 | LCL   | 2  |                       |  |
| LINDAC  | 000326 | LCL   | 0  | <--- NOT REFERENCED?? |  |
| LINDAG  | 000337 | LCL   | 1  |                       |  |
| LINEDA  | 000313 | LCL   | 4  |                       |  |
| LINDAGR | 000360 | LCL   | 1  |                       |  |
| LSTLN?  | 001137 | LCL   | 1  |                       |  |
| LSTLNC  | 001145 | LCL   | 0  | <--- NOT REFERENCED?? |  |
| LSTLNG  | 001153 | LCL   | 1  |                       |  |
| NEXT1   | 000130 | LCL   | 0  | <--- NOT REFERENCED?? |  |
| N TD    | 000111 | ENT   | 5  |                       |  |
| NE I    | 000103 | LCL   | 2  |                       |  |
| NONP    | 000520 | LCL   | 1  |                       |  |
| NOTFND  | 001241 | LCL   | 1  |                       |  |
| NTBLA   | 000700 | LCL   | 1  |                       |  |
| NUMPAR  | 000627 | LCL   | 1  |                       |  |
| AXLRTH  | 001073 | LCL   | 1  |                       |  |
| NXTCOM  | 100011 | G DAD | 2  |                       |  |
| NXTLIN  | 001021 | ENT   | 3  |                       |  |
| OPTBAS  | 100175 | G DAD | 1  |                       |  |
| P.GOC   | 000030 | G EQU | 1  |                       |  |
| P.GOG   | 000040 | G EQU | 1  |                       |  |
| PARLP   | 000604 | LCL   | 1  |                       |  |
| PARLP2  | 000464 | LCL   | 1  |                       |  |
| PCR     | 101115 | G DAD | 2  |                       |  |
| PGMOPT  | 104214 | G DAD | 1  |                       |  |
| PTR1    | 177710 | G DAD | 3  |                       |  |
| PTR1-   | 177711 | G DAD | 11 |                       |  |
| PTR1+   | 177713 | G DAD | 1  |                       |  |
| P 12    | 177714 | G DAD | 4  |                       |  |
| P 1 -   | 177715 | G DAD | 4  |                       |  |
| RELJMP  | 177777 | EXT   | 0  | <--- NOT REFERENCED?? |  |
| ROMCL-  | 177777 | EXT   | 1  |                       |  |
| ROMCLA  | 177777 | EXT   | 1  |                       |  |
| ROMFL   | 104065 | G DAD | 1  |                       |  |
| ROMINI  | 177777 | EXT   | 1  |                       |  |
| SAVPT2  | 104154 | G DAD | 1  |                       |  |
| SHORTD  | 000261 | LCL   | 1  |                       |  |
| SKIPL   | 000244 | ENT   | 2  |                       |  |
| SKIPX   | 000256 | LCL   | 1  |                       |  |
| SKPAN1  | 000567 | LCL   | 1  |                       |  |
| SKPAN2  | 000576 | LCL   | 1  |                       |  |
| SKPANM  | 000562 | ENT   | 2  |                       |  |
| SKPBYT  | 177777 | EXT   | 3  |                       |  |

CARNA 03/14/81=====
   
 SYMBOL VALUE TYPE COUNT Symbol Table 9/11/1981 11:34 AM PG 15
   
 =====

| SYMBOL | VALUE  | TYPE  | COUNT | Symbol Table          |
|--------|--------|-------|-------|-----------------------|
| SKPC1  | 001165 | LCL   | 2     |                       |
| SKCON  | 001161 | ENT   | 2     |                       |
| SKAM+  | 177777 | EXT   | 3     |                       |
| SKPNN1 | 177777 | EXT   | 1     |                       |
| SKPNX1 | 000262 | LCL   | 1     |                       |
| SKPR   | 000457 | LCL   | 0     | <--- NOT REFERENCED?? |
| SKPRS  | 000577 | ENT   | 2     |                       |
| SKPRS1 | 000646 | LCL   | 1     |                       |
| STSIZE | 101741 | G DAD | 1     |                       |
| SVALD  | 000361 | LCL   | 1     |                       |
| VDALO1 | 000374 | LCL   | 0     | <--- NOT REFERENCED?? |
| VDALOC | 000366 | LCL   | 3     |                       |
| VDALL  | 000300 | LCL   | 1     |                       |
| VDALL1 | 000265 | LCL   | 1     |                       |
| VDALL2 | 000275 | LCL   | 1     |                       |
| ERO    | 000000 | G DAD | 1     |                       |

HEADING

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CCDALL HAD 0 ERRORS 0 WARNINGS 124 LABELS LAST ERROR AT 0