```
  1 >>>>>        BINARY LOAD FINISH                                          <<<<<<<<
  2 000000                        ****************************************
  3 000000                        * R45 => BEGINNING OF BINARY PROGRAM   *
  4 000000                        * R75 => LST BYT + 1 OF BINARY PROGRAM *
  5 000000                        ****************************************
  6 000000                LDB.+    BSS  0                      BINARY LOAD CLEANUP
  7 000000 126 250 003             LDB  R26,=3
  8 000003 262 065 210             STBD R26,=ROMFL
  9 000006 117 310 300             CMB  R17,=300               ERRORS?
 10 000011 373 024                 JCY  LOADA                  JIF YES
 11 000013 316 254 000             JSB  =LOADB1                RELOCATE IF RELOCATABLE
 12 000016 367 026                 JZR  LOADD+                 GO AROUND IF RELOCATABLE
 13 000020                ABSOL    DRP  !26                    DROP THROUGH IF ABSOLUTE
 14 000020                         ARP  !45
 15 000020 301                     CMM  R26,R45                AM I WHERE I WANT TO BE?
 16 000021 367 033                 JZR  LOADD                  JIF YES
 17 000023 373 034                 JCY  LOADC                  JIF ABSOLUTE ADDR>CURRENT
 18 000025 145 006 345 LOADER      PUMD R45,+R6                SAVE CURRENT ADDRESS
 19 000030 316 377 377             JSB  =ERROR                 'BAD BIN LOAD'
 20 000033 031                     OCT  25D
 21 000034 145 006 343             POMD R45,-R6                RESTORE CURRENT ADDRESS
 22 000037 145 075 243 LOADA       STM  R45,R75                SCRATCH BINARY
 23 000042 126 223                 CLM  R26
 24 000044 760 043                 JMP  LOADBL
 25 000046                LOADD+   BSS 0
 26 000046 126 075 241             LDM  R26,R75                COMPUTE BINARY LENGTH
 27 000051 045 305                 SBM  R26,R45                (FOR BIN'S DONE ON 85/83)
 28 000053 267 004 000             STMD R26,X45,BINLEN
 29 000056                LOADD    DRP  !26
 30 000056                         ARP  !45
 31 000056 241                     LDM  R26,R45                COPY BINARY ADDRESS
 32 000057 760 030                 JMP  LOADBL
 33 000061                LOADC    ARP  !45
 34 000061 122 265 004             LDMD R22,X45,BINLEN         GET BINARY LENGTH
 34 000064 000
 35 000065 126 022 303             ADM  R26,R22                ABSOLUTE + LENGTH
 36 000070 321 250 203             CMMD R26,=LSTDAT            > LAST LOADABLE ADDR?
 37 000073 373 330                 JCY  LOADER                 JIF YES, ERROR
 38 000075 075 243                 STM  R26,R75                NEW LWAMEM + SINK ADDR
 39 000077 124 045 241             LDM  R24,R45                COMPUTE SOURCE ADDR
 40 000102 022 303                 ADM  R24,R22
 41 000104 316 377 377             JSB  =MOVDN+                MOVE BINARY TO ABS ADDR
 42 000107 126 211                 ICM  R26                    ADJUST BACK TO HEADER
 43 000111                LOADBL   DRP  !26
 44 000111 263 070 210             STMD R26,=BINTAB
 45 000114 175 263 041             STMD R75,=LWAMEM            STORE PTR TO LAST ELEM
 45 000117 200
 46 000120 263 314 377             STMD R75,=PTR2              SINK ADDR
 47 000123 045 305                 SBM  R75,R45                PTRS OFFSET
 48 000125 117 310 300             CMB  R17,=300               ERRORS?
 49 000130 373 065                 JCY  BADLD-                 JIF YES
 50 000132 153 261 103             LDMD R53,=FNAM            A GOOD LOAD....
 50 000135 207
 51 000136 026 267 010             STMD R53,X26,FNAMB          ....INITIALIZE NAME
```

```
>>>>>>        BINARY LOAD FINISH                                    <<<<<<<<<
    000141 000
    000142 261 110 207          LDMD R53,=FNAM+5
53  000145 267 015 000          STMD R53,X26,FNAM85
54  000150 264 007 000          LDBD R53,X26,BPGM#    GET BINARY NUMBER
55  000153 134 251 073          LDM  R34,=BINBAS      BINARY TABLE
55  000156 210
56  000157                POP#  BSS  0
57  000157 132 034 341          POMD R32,+R34         POP BINARY ADDRS
58  000162 367 012              JZR  ADJPTR           JIF NO MORE
59  000164 032 264 007          LDBD R32,X32,BPGM#    GET ITS NUMBER
59  000167 000
60  000170 053 300              CMB  R32,R53          ARE THEY THER SAME?
61  000172 367 231              JZR  LOADER           JIF YES , ERROR
62  000174 360 361              JMP  POP#             GET NEXT BINARY
63  000176                ADJPTR BSS  0
64  000176                       DRP  !32
65  000176 251 025 200          LDM  R32,=LAVAIL      ADDR OF 1ST PTR
66  000201 161 250 004          LDB  R61,=4           # OF PTRS TO ADJUST
67  000204 155 032 245 ADLOOP   LDMD R55,R32          GET PTR
    000207 075 303              ADM  R55,R75           ADJUST
    000211 032 345              PUMD R55,+R32          REPLACE & ADVANCE
70  000213 161 212              DCB R61               DEC COUNT
71  000215 766 365              JNZ ADLOOP            JIF MORE
72  000217 161 006 343 BADLD-   POMD R61,-R6          POP RETURN ADDR
73  000222 134 343              POMD R34,-R6          POP BINARY TABLE ENTRY +1
74  000224 145 343              POMD R45,-R6          POP SOURCE ADDR
    000226 263 310 377          STMD R45,=PTR1
76  000231 343                  POMD R45,-R6          POP # OF BYTES
77  000232 126 034 347          PUMD R26,-R34         PUSH BINARY ADDRESS
78  000235 316 377 377          JSB  =EMOVDN          DO MOVE
79  000240 145 006 343          POMD R45,-R6
80  000243 263 310 377          STMD R45,=PTR1        RESTORE PRGRM PTR
81  000246 161 345              PUMD R61,+R6          RESTORE RETURN ADDR
82  000250 316 377 377          JSB =ROMINI
83  000253 236                  RTN
84  000254
```

```
>>>>>>      BINARY RELOCATION ROUTINE                                                  <<<<<<<
 86 000254                  *********************************
 87 000254                  * R45 => BEGINNING OF BINARY    *
 88 000254                  *********************************
 89 000254                  LOADB1  BSS  0
 90 000254 126 045 265              LDMD R26,X45,BADDR
 90 000257 022 000
 91 000261 366 370                  RNZ                     RIF ABSOLUTE BINARY
 92 000263                  RELOC   BSS 0
 93 000263                          DRP !26
 94 000263                          ARP !45
 95 000263 241                      LDM R26,R45             COPY BINARY ADRRESS
 96 000264 124 241                  LDM R24,R45             COPY
 97 000266 313 030 000              ADM R24,=30,0           SKIP HEADER
 98 000271 122 024 245              LDMD R22,R24            LOAD PREVIOUS ADDR
 99 000274 126 345                  PUMD R26,+R24           STORE CURRENT
100 000276 022 305                  SBM  R26,R22            MAKE OFFSET
101 000300 122 024 245 RELOCB       LDMD R22,R24            LOAD ADDRESS
102 000303 311 377 377              CMM  R22,=377,377       END OF RELOCATABLES?
103 000306 367 343                  RZR                     RIF YES
104 000310 026 303                  ADM  R22,R26            ADD OFFSET
105 000312 024 345                  PUMD R22,+R24           RESTORE ADDRESS
106 000314 760 362                  JMP  RELOCB
107 000316
```

```
RMA 03/14/81 ================================================================
TEM    LOC   OBJECT CODE  SRC=LCBINV OBJ=GEXBIN   9/11/1981 11:43 AM  PG  4
================================================================
>>>>        ENTRIES AND EXTERNALS                              <<<<<<<<
  9 000316                      ENT  LDB.+
 10 000316                      ENT  LOADB1
 11 000316                      EXT  ERROR
 12 000316                      EXT  EMOVDN
 13 000316                      EXT  MOVDN+
 14 000316                      EXT  ROMINI
 15 000316
 16 000316                      FIN
```

SYMBOL	VALUE		TYPE	COUNT	
ABSOL	000020		LCL	0	<--- NOT REFERENCED??
A[illegible]TR	000176		LCL	1	
AL[illegible]OP	000204		LCL	1	
BADDR	000022	G	EQU	1	
BADLD-	000217		LCL	1	
BINBAS	104073	G	DAD	1	
BINLEN	000004	G	EQU	2	
BINTAB	104070	G	DAD	1	
BPGM#	000007	G	EQU	2	
EMOVDN	177777		EXT	1	
ERROR	177777		EXT	1	
FNAM	103503	G	DAD	1	
FNAM+5	103510	G	DAD	1	
FNAMB	000010	G	EQU	1	
FNAMB5	000015	G	EQU	1	
LAVAIL	100025	G	DAD	1	
LDB.+	000000		ENT	1	
LOADA	000037		LCL	1	
LOADB1	000254		ENT	2	
LOADBL	000111		LCL	2	
L[illegible]C	000061		LCL	1	
L[illegible]D	000056		LCL	1	
LOADD+	000046		LCL	1	
LOADER	000025		LCL	2	
LSTDAT	101650	G	DAD	1	
LWAMEM	100041	G	DAD	1	
MOVDN+	177777		EXT	1	
POP#	000157		LCL	1	
PTR1	177710	G	DAD	2	
PTR2	177714	G	DAD	1	
RELOC	000263		LCL	0	<--- NOT REFERENCED??
RELOCB	000300		LCL	1	
ROMFL	104065	G	DAD	1	
ROMINI	177777		EXT	1	
rtn001	000253		LCL	2	

CBINY HAD 0 ERRORS 0 WARNINGS 35 LABELS LAST ERROR AT 0