

>>> TRANSLATE CAPRICORN TO GEMINI <<<<<<<<

- 2 000000
- 3 000000 ENT TRANS
- 4 000000
- 5 000000 EXT BOP
- 6 000000 EXT DALLOC
- 7 000000 EXT DECOM
- 8 000000 EXT EADDR
- 9 000000 EXT EMOVDN
- 10 000000 EXT ERROR
- 11 000000 EXT FRSTLG
- 12 000000 EXT FXRSET
- 13 000000 EXT OUTSTR
- 14 000000 EXT PARSER
- 15 000000 EXT PSHEHD
- 16 000000 EXT STBEEP
- 17 000000 EXT TSTALO
- 18 000000
- 19 000000
- 20 000000
- 20 000000
- 20 000000
- 21 000000
- 22 000000

 *
 * TRANSLATE CAPRICORN TO GEMINI *
 *

23 000000	230	TRANS	BSS	0	
24 000001	126 251 374		BIN		
24 000004	000		LDM	R26,=M1	OUTPUT 1ST MESSAGE
25 000005	136 251 013		LDM	R36,=11D,0	LENGTH OF MESSAGE
25 000010	000				
26 000011	316 377 377		JSB	=OUTSTR	
27 000014	262 001 377		STBD	R#,-GINTDS	DISABLE INTERRUPTS
28 000017	222		CLB	R#	
29 000020	262 157 210		STBD	R#,-GEMINI	reset to CAPR type
30 000023	210		ICB	R#	turn RUN light
31 000024	262 304 377		STBD	R#,-RULITE	
32 000027	316 377 377		JSB	=TSTALO	TEST IF ALLOCATED ?
33 000032	230		BIN		
34 000033	222		CLB	R#	RESET DEALLO FLAG
35 000034	370 001		JEN	TRANS1	JIF ALLOCATED
36 000036	210		ICB	R#	ELSE FLAG DEALLO
37 000037		TRANS1	BSS	0	
38 000037	262 104 202		STBD	R#,-DALLED	SET NOT DEALLO FLAG
39 000042	116 006 344		PUBD	R16,+R6	SAVE R16
40 000045	222		CLB	R16	CLEAR FOR DEALLOCATOR
41 000046	316 377 377		JSB	=DALLOC	deallocate program
42 000051	116 006 342		POBD	R16,-R6	RESTORE R16
43 000054	165 261 006		LDMD	R65,=FWCURR	
43 000057	200				
44 000060	315 007 000		SBM	R65,=P.LEN	PT TO PGM LENGTH
45 000063	000		OCT	0	
46 000064	263 310 377		STND	R65,=PTR1	SET ADDR
47 000067	316 377 377		JSB	=EADDR	GET PGM LENGTH
3 000072	165 215		TCM	R65	NEGATE IT

```

>>>> TRANSLATE CAPRICORN TO GENINI <<<<<<<<>
49 000074 323 006 200 ADMD R65,=FWCURR ABS ADDR OF END OF PGM
50 000077 263 310 377 STMD R65,=PTR1 THROW AWAY VARS
51 000102 145 065 241 LDM R45,R65 COPY NXTMEM
52 000105 313 030 000 ADM R45,=30,0,0 FWCURR-30-NXTMEM
52 000110 000
53 000111 215 TCM R45 = byte count for moving
54 000112 323 006 200 ADMD R45,=FWCURR
55 000115 165 315 010 SBM R65,=10,0,0 dist to move = 10
55 000120 000 000
56 000122 263 314 377 STMD R65,=PTR2 FWA sink
57 000125 263 022 200 STMD R65,=NXTMEM UPDATE NXTMEM
58 000130 316 377 377 JSB =EMOVDN move down
59 000133 175 261 006 LDMD R75,=FWCURR pt to P.TYP
59 000136 200
60 000137 315 006 000 SBM R75,=6,0,0
60 000142 000
61 000143 263 314 377 STMD R75,=PTR2
62 000146 270 315 377 LDBI R75,=PTR2- fetch P.TYP
63 000151 177 250 020 LDB R77,=20 set to GEMINI type
64 000154 075 224 ORB R77,R75 set header
65 000156 272 314 377 STBI R77,=PTR2
66 000161 170 223 CLM R70 reset the rest of the header
67 000163 273 315 377 STMI R70,=PTR2-
68 000166 273 315 377 STMI R70,=PTR2-
69 000171 273 315 377 STMI R70,=PTR2-
70 000174 272 315 377 STBI R70,=PTR2-
71 000177 316 377 377 JSB =80P PT TO BEGIN OF LINE
72 000202 DRP !65
73 000202 TRLOOP BSS 0
74 000202 DRP !65
75 000202 263 310 377 STMD R65,=PTR1 SET POINTER
76 000205 263 115 202 STMD R65,=PCR REMEMBER THE STARTING ADDR
77 000210 130 271 313 LDMI R30,=PTR1-+ get line #
77 000213 377
78 000214 311 251 231 CMM R30,=251,231 last line ?
79 000217 367 045 JZR TROONE jif yes
80 000221 251 236 200 LDM R30,=INPBUF bfr for decompiler
81 000224 316 377 377 JSB =DECOM decompile one line
82 000227 117 310 300 CMB R17,=300 any error ?
83 000232 373 075 JCY TRERR jif yes
84 000234 120 250 015 LDB R20,=15 push a CR
85 000237 030 344 PUBD R20,+R30
86 000241 165 261 310 LDMD R65,=PTR1 save for LINEDR
86 000244 377
87 000245 263 164 210 STMD R65,=SAYLAV
88 000250 REPEAT BSS 0
89 000250 316 377 377 JSB =PARSER parse the line
90 000253 117 310 300 CMB R17,=300 any error ?
91 000256 373 065 JCY TRYAGN jif yes, try again
92 000260 165 261 314 LDMD R65,=PTR2 pt to next line
92 000263 377
93 000264 360 314 JMP TRLOOP
94 000266 TRDONE BSS 0
  
```

```

>>>> TRANSLATE CAPRICORN TO GEMINI <<<<<<<<
000266 ***** LDM R72,=16,31,2,231,231,12 last line
96 000266 ***** STMI R72,=PTR1-
97 000266 316 377 377 JSB =PSHEND PUSH LAST LINE
99 000271 145 251 310 LDMD R45,=PTR1 update pointers
98 000274 377
99 000275 263 022 200 STMD R45,=NXTMEM
100 000300 263 154 210 STMD R45,=SAVPT2
101 000303 ***** LDB R45,=1
102 000303 ***** STBD R45,=GEMINI FLAG GEMINI
103 000303 262 000 377 STBD R#,=GINTEN ENABLE INTERRUPTS
104 000306 126 251 007 LDM R26,=M2 OUTPUT 2ND MESSAGE
104 000311 001
105 000312 136 251 004 LDM R36,=4D,0
105 000315 000
106 000316 316 377 377 JSB =OUTSTR
107 000321 316 377 377 JSB =STBEEP ALSO BEEP
108 000324 222 CLB R# turn off RUN light
109 000325 262 304 377 STBD R#,=RULITE
109 000330 236 RTN
109 000331
112 000331 TRERR BSS 0
113 000331 120 006 343 POMD R20,-R6 POP ONE RETURN
114 000334 145 DRP 45
115 000335 316 377 377 JSB =FRSTLG PT TO 1ST LINE
116 000340 DRP 145
117 000340 263 310 377 STMD R45,=PTR1 THROW AWAY EVERYTHING
118 000343 360 321 JMP TRDOONE DO END PROCESSING
119 000345
120 000345 TRYAGN BSS 0
121 000345 136 251 236 LDM R36,=INPBUF PT TO BEGIN OF INPBUF
121 000350 200
122 000351 FNDBLK BSS 0
123 000351 102 036 340 POBD R2,+R36 GET ONE CHAR
124 000354 310 040 CMB R2,=BLANK IS IT BLANK ?
125 000356 366 371 JNZ FNDBLK JIF NOT
126 000360 250 041 LDB R2,=BANG CHANGE IT TO A BANG
127 000362 346 PUBD R2,-R36
128 000363 223 CLM R2
129 000364 263 123 200 STMD R2,=ERRORS CLEAR ERROR FLAGS
130 000367 117 317 277 ANM R17,=277
131 000372 360 254 JMP REPEAT GO BACK TRY AGAIN
132 000374
133 000374 120 114 105 H1 ASC "PLEASE WAIT"
133 000377 101 123 105
133 000402 040 127
134 000404 101 111 124
135 000407 104 117 116 M2 ASC "DONE"
135 000412 105
136 000413
137 000413 FIN
  
```

SYMBOL	VALUE	TYPE	COUNT	Symbol Table	9/11/1981 11:22 AM PG 4
BANG	000041	G EQU	1		
BLANK	000040	G EQU	1		
BOF	177777	EXT	1		
CALLED	101104	G DAD	1		
CALLOC	177777	EXT	1		
CECOM	177777	EXT	1		
CADDR	177777	EXT	1		
CMOVDN	177777	EXT	1		
ERROR	177777	EXT	0	<--- NOT REFERENCED??	
ERRORS	100123	G DAD	1		
NOBLK	000351	LCL	1		
RSTLG	177777	EXT	1		
MCURR	100006	G DAD	4		
MRSET	177777	EXT	0	<--- NOT REFERENCED??	
MEMINI	104157	G DAD	1		
INTDS	177401	G DAD	1		
INTEN	177400	G DAD	1		
INPBUF	100236	G DAD	2		
I1	000374	LCL	1		
I2	000407	LCL	1		
MTMEM	100022	G DAD	2		
LCUR	177777	EXT	2		
LEN	000007	G EQU	1		
PARSER	177777	EXT	1		
PCR	101115	G DAD	1		
PGHEND	177777	EXT	1		
PTR1	177710	G DAD	6		
PTR1--	177713	G DAD	1		
PTR2	177714	G DAD	4		
PTR2-	177715	G DAD	5		
REPEAT	000250	LCL	1		
RULITE	177704	G DAD	2		
SAVLAV	104164	G DAD	1		
SAVPT2	104154	G DAD	1		
STBEEP	177777	EXT	1		
TRANS	000000	ENT	1		
TRANS1	000037	LCL	1		
TRDONE	000266	LCL	2		
TRERR	000331	LCL	1		
TRLOOP	000202	LCL	1		
TRON	000345	LCL	1		
TRSTALO	177777	EXT	1		

TRANSLATE CAPRICORN TO GEMINI 1

OUTRAN HAD 0 ERRORS 0 WARNINGS 42 LABELS LAST ERROR AT 0