

>>>>

LINE EDITOR

<<<<<<<

2 000000

3 000000

4 000000

5 000000

6 000000

EXT EMQVUP

EXT EMQVDN

EXT EADDR

```

CARMA 03/14/81=====
ITEM    LOC    OBJECT CODE  SRC=COLNED OBJ=GE%LNE   9/11/1981 11:56 AM PG 2
=====
>>>>>>>    CHECK STATUS & FIX POINTERS    <<<<<<<

3 000000
9 000000
10 000000
10 000000
11 000000
12 000000
13 000000
14 000000
15 000000
16 000000
17 000000
17 000000
17 000000
18 000000
19 000000
20 000000 316 106 000
21 000003 145 261 006
21 000006 200
22 000007 315 007 000
   000012 000
24 000013 263 314 377
25 000016 223
26 000017 273 315 377
27 000022 236
28 000023
29 000023
29 000023
30 000023
31 000023
32 000023
33 000023
34 000023
35 000023
36 000023
37 000023
37 000023
37 000023
38 000023
   000023
40 000023 230
41 000024 235
42 000025 145 261 006
42 000030 200
43 000031 140 260 157
43 000034 210
44 000035 145
45 000036 266 006
46 000040 315 025 000
47 000043 000
48 000044 260 004
49 000046
50 000046 315 032 000
51 000051 000

*****
*
*   DEALLOCATE, FIX POINTERS, AND ZERO P.LEN
*
*   IN:
*       NONE
*
*   OUT:
*       DEALLOCATED
*
*****

FXLEN  BSS  0
JSB  =FXDIR      DEALLOCATE & FIX PTRS
LDMD R45,=FWCURR PT TO FWA

SBM  R45,=P.LEN  PT TO LENGTH
OCT  0
STMD R45,=PTR2   SET UP ADDR
CLM  R45         ZERO LENGTH
STMI R45,=PTR2-  UPDATE P.LEN FOR GEMINI
RTN

*****
*
*   TEST IF PROGRAM SECURED
*
*   IN:
*       R0=MASK
*
*   OUT:
*       E=0 IF NOT SECURED
*       1 IF SECURED
*
*****

SECUR?  BSS  0
BIN
CLE
LDMD R45,=FWCURR  POINT TO CURR PRGM
LDBD R40,=GEMINI  IS IT GEMINI ?

DRP  45
JNZ  SECUR1      JIF YES
SBM  R45,=P.SFLC PT TO SECUR FLG OF CAPR
OCT  0
JMP  SECUR+
SECUR1 DRP  145
SBM  R45,=P.SFLG  POINT TO SECUR FLG
OCT  0

```

>>>> CHECK STATUS & FIX POINTERS <<<<<<<<

```

52 000052          SECUR+  ORP  145
53 000052 263 314 377      STMO R45,=PTR2      SET UP ADDR
54 000055 131 270 315      LDBI R31,=PTR2-     FETCH SECUR BYTE
54 000060 377
55 000061 000 307          ANM  R31,R0
56 000063 367 006          JZR  NOSCUR          JIF NOT SECURED
57 000065 316 377 377      JSB  =ERROR
58 000070 026              OCT  220
59 000071 235              CLE
60 000072 234              ICE
61 000073 236              NOSCUR  RTN

```

```

62 000074
63 000074          *****
63 000074          *
64 000074          *      TEST SECURE BIT 0
65 000074          *
66 000074          *      IN:
67 000074          *      NONE
68 000074          *
69 000074          *      OUT:
70 000074          *      CR=1 IF SECURED
71 000074          *      0 IF NOT SECURED
71 000074          *
71 000074          *****
72 000074

```

```

73 000074          SECTST  BSS  0
74 000074 100 250 001      LDB  R0,=1
75 000077 316 023 000      JSB  =SECUR?
76 000102 117 310 300      CMB  R17,=300
77 000105 236              RTN
78 000106
79 000106

```

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

```

>>>>>      FIX POINTERS      . <<<<<<

```

```

000106          *****
000106          *
000106          *   DEALLOCATE, THROW AWAY VAR STORAGES, MOVE THE NEW L
000106          *   AND FIX ALL POINTERS.
000106          *
000106          *****

000106      *FXLEN    BSS    0
000106      FXDIR     BSS    0
000106      FXDG       BSS    0           for GEMINI
000106      +***** LDMD R75,=FWCURR offset to P.DTL
000106      +***** SBM  R75,=P.DTLC pt to P.DTL
000106      +***** OCT   0
000106      +***** STMD R75,=PTR1 set pointer
000106      +***** CLM   R70
000106      +***** STMI R70,=PTR1- clear thru P.GCNT
000106      +***** STNI R75,=PTR1-
000106
000106      FXDIR1    BSS    0
000106
000106      +***** LDMD R75,=FWCURR offset to P.LEN
000106      +***** SBM  R75,=P.LEN pt to P.LEN
000106      +***** OCT   0
000106      +***** STMD R75,=PTR1 set pointer
000106      +***** JSB =EADDR get P.LEN in R65
000106      +***** TSM  R65 P.LEN = 0 ?
000106      +***** JZR  FXRTH jif yes
000106
000106      JSB =RSETGQ
000106      LDBD R21,=DALLED DEALLOCATED ?
000106
000106      JNZ  FXRTH jif YES
000106      PUBD R16,+R6 save CSTAT
000106      CLB  R16 set to RUN
000106      JSB =DALLOC deallocate the program
000106      POBD R16,-R6 restore CSTAT
000106      CMB  R17,=300 any error ?
000106      JCY  FXRTH jif yes
000106      LDMD R45,=EOVAR get EOVAR
000106
000106      STMD R45,=PTR1 FWA source
000106      SBMD R45,=SAVPT2 byte count
000106      LDMD R75,=BOVAR FWA sink
000106
000106      STMD R75,=PTR2 set pointer
000106      STM  R75,R65 copy FWA sink
000106      SBMD R75,=EOVAR distance to move
000106      STMD R65,=EOVAR update NXTMEM
000106
000106      JSB =FXRST2 fix other pointers
000106      JSB =ENOVUP move the new line up
000106
000106      FXRTH RTN

```

ARMA 03/14/81=====

ITEM LOC OBJECT CODE SRC=CCLNED OBJ=GEZLNE 9/11/1981 11:56 AM PG 5

=====
>>>> FIX POINTERS

<<<<<<<

17 000177

128 000177

LINE EDITOR

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130 000177
131 000177
131 000177
132 000177
133 000177
134 000177
135 000177
136 000177
137 000177
138 000177
139 000177
139 000177
139 000177
140 000177
141 000177 316 377 377 BOL+ JSB =FNDLIN FIND LINE
142 000202 BOL BSS 0
143 000202 175 261 310 LDMD R75,=PTR1 GET POINTER
144 000205 377
145 000206 211 ICM R75 BACK UP 3 BYTES
146 000207 211 ICM R75
146 000210 211 ICM R75
147 000211 236 BOLEXT RTN
148 000212
149 000212
149 000212
150 000212
151 000212
152 000212
153 000212
154 000212
155 000212
156 000212
157 000212
157 000212
157 000212
158 000212
159 000212
160 000212 155 261 022 SIZE1 BSS 0
161 000215 200 LDMD R55,=NXTMEM GET FWA+1
161 000216 325 154 210 SBMD R55,=SAVPT2 SIZE = FWA+1 - LWA
162 000221 236 SRTH RTN
163 000222
164 000222
164 000222
165 000222
166 000222
167 000222
168 000222
169 000222
170 000222
171 000222
172 000222
173 000222

```

POINT TO BEGIN OF A LINE

IN:

PTR1=POINTS TO STSIZE

OUT:

PTR1=UNCHANGED

R75=POINT TO BOL

FIND THE SIZE OF NEW LINE

IN:

SAVPT2=LWA OF NEW LINE

NXTMEM=FWA+1 OF NEW LINE

OUT:

R55=SIZE OF NEW STATEMENT

LINE EDITOR

IN:

PTR2=END OF NEW LINE

NXTMEM=BEGIN OF NEW LINE

OUT:

NEW LINE INSERTED IN PLACE

PTR2=POINTS TO END OF NEW LINE

>>>> LINE EDITOR

<<<<<<<<

```

174 000222      *
175 000222      *      NOTE: PROGRAM IS DEALLOCATED WHEN EXIT      *
175 000222      *
175 000222      * *****
176 000222
177 000222      LINEDR  BSS  0
178 000222 175 261 314      LDMD R75,=PTR2      save PTR2
178 000225 377
179 000226 263 154 210      STMD R75,=SAVPT2
180 000231 316 074 000      JSB  =SECTST      PGM SECURED?
181 000234 373 363      JCY  SRTN      RTN IF YES
182 000236 262 001 377      STBD R#,=GINTDS      DISABLE INTERRUPTS
183 000241 316 000 000      JSB  =FXLEN      FIX POINTER3
184 000244 117 310 300      CMB  R17,=300      ANY ERROR?
185 000247 373 023      JCY  FXRTN-      RTN IF YES
186 000251 145 261 154      LDMD R45,=SAVPT2      GET END OF STMT
186 000254 210
187 000255 211      ICM  R45      BACKUP ONE POSITION
188 000256 321 341 203      CMMD R45,=STSIZE      NULL STATEMENT ?
189 000261 366 044      JNZ  LINED2      JIF NOT
190 000263 263 314 377      STMD R45,=PTR2      SET POINTER
191 000266 271 314 377      LDMD R45,=PTR2      GET LINE #
192 000271 316 164 001      JSB  =DELET0      DELETE THE LINE
193 000274      FXRTN-  BSS  0
194 000274 262 000 377      STBD R#,=GINTEN      ENABLE INTERRUPTS
195 000277 236      RTN
196 000300
197 000300      LINEC  BSS  0
198 000300      DRP  155
199 000300 261 164 210      LDMD R55,=SAVLAV      RESTORE NXT LINE ADDR
200 000303 263 310 377      STMD R55,=PTR1
201 000306 261 115 202      LDMD R55,=PCR      GET SOL ADDR
202 000311 006 345      PUMD R55,+R6      SAVE IT
203 000313 325 310 377      SBMD R55,=PTR1      LENGTH OF OLD LINE
204 000316 075 243      STM  R55,R75      SAVE IT
205 000320 316 212 000      JSB  =SIZE1      LENGTH OF NEW LINE
206 000323      DRP  155
207 000323 006 345      PUMD R55,+R6      SAVE IT
208 000325 360 043      JMP  LINED3
209 000327
210 000327      LINED2  BSS  0
211 000327 155 260 157      LDBD R55,=GEMINI      IS IT CAPRICORN ?
211 000332 210
212 000333 367 343      JZR  LINEC      JIF YES
213 000335 261 022 200      LDMD R55,=NXTMEM      POINT TO NEW LINE
214 000340 263 314 377      STMD R55,=PTR2      SET POINTER
215 000343 175 271 315      LDMD R75,=PTR2-      GET LINE #
215 000346 377
216 000347 316 177 000      JSB  =SOL+      SEARCH FOR THE LINE
217 000352      DRP  175
218 000352 006 345      PUMD R75,+R6      SAVE THE ADDR
219 000354 316 212 000      JSB  =SIZE1      GET SIZE OF NEW LINE
219 000357      DRP  155

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ARMA 03/14/81=====
ITEM   LOC   OBJECT CODE SRC=CCLNED OBJ=GEWLNE  9/11/1981 11:56 AM PG  3
=====
>>>>>> LINE EDITOR                                     <<<<<<<<
22 000357 006 345 PUMD R55,+R6 SAVE IT
222 000361 370 046 JEN NOTFND JIF NOT FOUND
223 000363 316 377 377 JSB =3KPLN2 SKIP TO NEXT LINE
224 000366 175 325 310 SBMD R75,=PTR1 LENGTH OF OLD LINE
224 000371 377
225 000372 LINED3 BSS 0
226 000372 145 261 310 LDMD R45,=PTR1 CALC BYTES TO BE MOVED
226 000375 377
227 000376 325 154 210 SBMD R45,=SAVPT2
228 000401 175 055 305 SBM R75,R55 COMP WITH NEW LINE LENGTH
229 000404 367 064 JZR INSR1 JIF SAME
230 000406 372 033 JNC MYDOWN JIF HOLE IS SMALLER
231 000410 MYUP BSS 0 ELSE MOVE UP
232 000410 165 075 241 LDM R65,R75
233 000413 323 310 377 ADMD R65,=PTR1 CALC SINK ADDR
234 000416 263 314 377 STMD R65,=PTR2 SET SINK POINTER
235 000421 316 266 001 JSB =FXRSET FIX POINTERS
236 000424 316 377 377 JSB =EMOVUP MOVE UP
237 000427 260 041 JMP INSR1 INSERT NEW LINE
2 000431
239 000431 NOTFND BSS 0
240 000431 145 075 241 LDM R45,R75 CALC SIZE TO BE MOVED
241 000434 325 154 210 SBMD R45,=SAVPT2
242 000437 175 055 241 LDM R75,R55 IT'S THE SPACE NEEDED
243 000442 215 TCM R75
244 000443 MYDOWN BSS 0
245 000443 155 261 154 LDMD R55,=SAVPT2 SOURCE ADDR
245 000446 210
246 000447 263 310 377 STMD R55,=PTR1
247 000452 075 303 ADM R55,R75 SINK ADDR
248 000454 321 025 200 CMMD R55,=LAYAIL ENOUGH ROOM FOR MOVE ?
249 000457 372 043 JNC NOROOM JIF NOT
250 000461 263 314 377 STMD R55,=PTR2
251 000464 316 266 001 JSB =FXRSET FIX POINTERS
252 000467 316 377 377 JSB =EMOVDN MOVE DOWN
253 000472
254 000472 INSR1 BSS 0 MOVE NEW LINE TO PLACE
255 000472 145 006 343 POMD R45,-R6 POP LENGTH
2 000475 175 343 POMD R75,-R6 POP SINK ADDR
257 000477 263 314 377 STMD R75,=PTR2
258 000502 261 022 200 LDMD R75,=NXTMEM GET SOURCE ADDR
259 000505 263 310 377 STMD R75,=PTR1
260 000510 316 377 377 JSB =EMOVUP MOVE TO PLACE
261 000513 ***** LDMD R75,=NXTMEM RESET SAVPT2
262 000513 ***** STMD R75,=SAVPT2
263 000513 FXRTN+ BSS 0
264 000513 260 157 210 LDBD R#,=GEMINI IS IT CAPRICORN ?
265 000516 367 003 JZR FXRTNX JIF YES
266 000520 262 000 377 STBD R#,=GINTEN REENABLE INTERRUPTS
267 000523 236 FXRTNX RTN
268 000524
269 000524 NOROOM BSS 0
270 000524 172 006 343 POMD R72,-R6 CLEAN R6 STACK

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KARMA 03/14/81=====

ITEM	LOC	OBJECT CODE	SRC=DCLNED	OBJ=GEZLNE	9/11/1981	11:56 AM	PG 9
=====							
>>>>	LINE EDITOR						<<<<<<<<
271	000527	316	377	377	JSB	=ERROR+	
272	000532	023			OCT	19D	MEMORY OVERFLOW
273	000533						

>>> ENTRY POINTS

<<<<<<<

275	000533	ENT 3OL
276	000533	ENT BOL+
277	000533	ENT DATE.
278	000533	ENT DELET.
279	000533	ENT ERNUM.
280	000533	ENT ERRL.
281	000533	ENT FXDIR
282	000533	ENT FXLEN
283	000533	ENT FXRSET
284	000533	ENT I#PU45
285	000533	ENT LINEDR
286	000533	ENT RELMEM
287	000533	ENT RESMEM
288	000533	ENT RESUL.
289	000533	ENT RSMEM-
290	000533	ENT SECUR?
291	000533	ENT TSTEND
292	000533	ENT TSTEN+

```

ARMA 03/14/81:=====
ITEM LOC OBJECT CODE SRC=OCLNED OBJ=GEKLE 9/11/1981 11:56 AM PG 11
=====
>>>> DELETE BLOCK 04-06-78 <<<<<<<<
5 000533 *** DELETE ATTRIBUTES TABLE *****
296 000533 141 OCT 141
297 000534 *****
298 000534 DELET. BSS 0
299 000534 316 143 001 JSB =DELETE
300 000537 316 377 377 JSB =ST240+
301 000542 236 RTN
302 000543
303 000543 DELETE BSS 0
304 000543 316 074 000 JSB =SECTST SEE IF SECURED
305 000546 373 105 JCY DELRTH JIF YES
306 000550 316 000 000 JSB =FXLEN FIX DIR & ZERO LEN
307 000553 316 377 377 JSB =T0?I GET 2 INT
308 000556 371 076 JEZ ERR91 JIF NONE
309 000560 231 BCD
310 000561 233 DCE
311 000562 370 003 JEN DELET1 JIF TWO LINE #
312 000564 DELET0 BSS 0
000564 145 055 243 STM R45,R55 ELSE LAST = FIRST
314 000567 DELET1 BSS 0
315 000567 155 045 301 CNM R55,R45 LAST >= FIRST
316 000572 372 066 JNC ERR99 JIF NO
317 000574 230 BIN
318 000575 175 241 LDM R75,R45 GOAL = FIRST
319 000577 316 177 000 JSB =BOL+ FIND LINE AND BACKUP
320 000602 ORP 175
000602 263 314 377 STMD R75,=PTR2 SAVE FWA OF SINK
322 000605 055 241 LDM R75,R55 GOAL = LAST
323 000607 316 377 377 JSB =FNDLIN
324 000612 370 005 JEN DELET2 JIF NOT FOUND
325 000614 316 377 377 JSB =3KPLN2 ELSE SKIP ONE MORE
326 000617 360 006 JMP DELET3
327 000621 DELET2 BSS 0
328 000621 316 202 000 JSB =BOL BACK PTR TO BOL
329 000624 ORP 175
330 000624 263 310 377 STMD R75,=PTR1 SOURCE
331 000627 DELET3 BSS 0
000627 145 261 310 LDMD R45,=PTR1 SOURCE ADDR
332 000632 377
333 000633 075 243 STM R45,R75 SAVE A COPY
334 000635 325 022 200 SBMD R45,=NXTMEM SIZE OF BLOCK TO BE MOVED
335 000640 175 325 314 SBMD R75,=PTR2 DISTANCE TO MOVE
336 000643 377
337 000644 367 007 JZR DELRTH JIF NOTHING TO MOVE
338 000646 215 TCM R75
339 000647 316 266 001 JSB =FXRSET FIX POINTERS
340 000652 316 377 377 JSB =EMOVUP DELETE LINES
341 000655 236 DELRTN RTN
342 000656 316 377 377 ERR91 JSB =ERROR+
343 000661 133 OCT 91D MISSING PARAM
344 000662 316 377 377 ERR99 JSB =ERROR+
5 000665 131 OCT 89D INVALID PARAM

```

DELETE BLOCK 04-06-78

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346 000666
347 000666
347 000666
348 000666
349 000666
350 000666
351 000666
352 000666
353 000666
354 000666
355 000666
356 000666
357 000666
358 000666
359 000666
360 000666
360 000666
360 000666
361 000666
362 000666 230
363 000667 165 261 014
363 000672 200
364 000673 075 303
365 000675 263 014 200
366 000700 261 017 200
367 000703 303
368 000704 263 017 200
369 000707
370 000707 165 261 022
370 000712 200
371 000713 075 303
372 000715 263 022 200
373 000720
374 000720
375 000720 261 341 203
376 000723 075 303
377 000725 263 341 203
378 000730 261 154 210
379 000733 303
380 000734 263 154 210
381 000737 236
382 000740
383 000740

```

```

*****
*
*   FIX POINTERS
*
*   IN:
*       R75=DISTANCE TO MOVE
*       < >0 IF MOVE UP TO HIGHER ADDR.  )
*       < <0 IF MOVE DOWN TO LOWER ADDR. )
*
*   OUT:
*       NXTMEM=UPDATED
*       BOVAR =UPDATED
*       EOVAR =UPDATED
*       STSIZE=UPDATED
*       SAVPT2=UPDATED
*
*****

```

```

FXRSET  BIN
LDMD R65,=BOVAR

ADM R65,R75
STMD R65,=BOVAR
LDMD R65,=EOVAR
ADM R65,R75
STMD R65,=EOVAR

FXRST2  BSS 0
LDMD R65,=NXTMEM

ADM R65,R75
STMD R65,=NXTMEM

FXRST-  ORP 165
LDMD R65,=STSIZE
ADM R65,R75
STMD R65,=STSIZE
LDMD R65,=SAVPT2
ADM R65,R75
STMD R65,=SAVPT2
RTN

```

>>>> RESERVE/RELEASE MEMORY <<<<<<<<

```

5 000740 *****
385 000740 *
386 000740 *   LST RESMEM
387 000740 *
388 000740 * RESMEM - RESERVE AND ZERO MEMORY
389 000740 *
390 000740 *   IN:
391 000740 *   R55= NUMBER OF BYTES
392 000740 *
393 000740 *   OUT:
394 000740 *   R65= FWA OF RESERVED AREA
394 000740 *
395 000740 *****
396 000740 RESMEM BSS 0
397 000740 RSMEM- BSS 0
398 000740 230 BIN
399 000741 235 CLE
    000742 165 261 025 LDMD R65,=LAVAIL
400 000745 200
401 000746 055 303 ADM R65,R55 FWA
402 000750 321 154 210 CMMD R65,=SAYPT2 SAVE CALC STMT
403 000753 373 012 JCY ERRMEM JIF NO
404 000755 263 025 200 STMD R65,=LAVAIL UPDATE LAVAIL
405 000760
406 000760 175 261 343 LDMD R75,=RMEM GET RES MEM COUNT
    000763 212
407 000764 303 ADM R75,R55 INCR IT
408 000765 360 035 JMP RSM
409 000767
410 000767
411 000767 ERRMEM BSS 0
412 000767 316 377 377 JSB =ERROR
413 000772 023 OCT 190 MEMORY OVERFLOW
414 000773 235 CLE
415 000774 233 DCE
416 000775 236 RELRTN RTN
    000776
418 000776 *
419 000776 * RELMEM - RELEASE MEMORY
420 000776 *
421 000776 230 RELMEM BSS 0
422 000777 ***** LDMD R65,=FWCURR GET PRGM ADDR
423 000777 ***** SBM R65,=P.RMEG POINT TO RES MEM COUNT
424 000777 ***** OCT 0
425 000777 ***** STMD R65,=PTR2
426 000777 ***** LDHI R65,=PTR2- GET RES MEM COUNT
427 000777 ***** JZR RELRTN
428 000777 *RLMEM- BSS 0
429 000777 ***** BIN
430 000777 ***** LDMD R75,=LAVAIL GET LAVAIL
431 000777 ***** SBM R75,R65 RELEASE ALL RES MEM
    2 000777 ***** CMMD R75,=RTNSTK UNDERFLOWED ?

```

```

>>>>> RESERVE/RELEASE MEMORY <<<<<<
433 000777 ***** JNC ERMEM JIF YES
434 000777 ***** STMD R75,=LAVAIL UPDATE LAVAIL
435 000777 ***** CLM R65 RESET RES MEM COUNT
436 000777 ***** JMP RSM
437 000777
438 000777 165 261 343 LDMD R65,=RMEM SIZE OF RES MEM
438 001002 212
439 001003 367 370 JZR RELRTH JIF NONE
440 001005 175 261 025 LDMD R75,=LAVAIL GET LAVAIL
440 001010 200
441 001011 065 305 SBM R75,R65 RELEASE ALL RES MEM
442 001013 321 033 200 CMMD R75,=RTNSTK UNDERFLOWED ?
443 001016 372 347 JNC ERMEM JIF YES
444 001020 263 025 200 STMD R75,=LAVAIL UPDATE LAVAIL
445 001023 223 CLM R75 RESET RES MEM COUNT
446 001024 RSM BSS 0
447 001024 ORP 175
448 001024 263 343 212 STMD R75,=RMEM
449 001027 236 RTH
4 001030
  
```



```

>>>> RUNTIME ERRN, ERRL <<<<<<<<
2 001030 ***** TOKEN 322 ATTRIBUTE TABLE *****
453 001030 000 055 OCT 0,55 NO PARAMETERS
454 001032 *****
455 001032 136 223 ERNUM, CLM R36 MAKE MSB ZERO
456 001034 260 117 200 LDBD R36,=ERNUM# GET ERROR NUMBER
457 001037 316 377 377 JSB =CONBIN CONVERT TO BINARY
458 001042 360 020 JMP PUSH40 PUSH TO STACK
459 001044 *****
460 001044 000 055 ***** TOKEN 323 ATTRIBUTE TABLE *****
461 001046 ***** NO PARAMETERS *****
462 001046 145 261 114 ERRL, LDMD R45,=ERLIN# GET VALUE
462 001051 200 *****
463 001052 147 310 012 CMB R47,=12 Is it A9999?
464 001055 372 002 JNC I#PU45 JIF NO
465 001057 250 011 LDB R47,=11 Change to 99999
466 001061 144 250 377 I#PU45 LDB R44,=377 SET UP TO OUTPUT R45
467 001064 140 012 345 PUSH40 PUMD R40,+R12 PUSH IT
468 001067 236 RTN DONE
469 001070 *****
470 001070 * DATE ATTRIBUTES TABLE *
471 001070 *****
472 001070 000 055 OCT 0,55
473 001072 145 261 133 DATE, LDMD R45,=DATE
473 001075 202
474 001076 360 361 JMP I#PU45 PUSH IT TO STACK
)

```

>>>>>		TEST EOL			ROM ENTRY	<<<<<<
476	001100	120	TSTEN+	DRP 20		
477	001101	230	TSTEND	BIN		
478	001102	235		CLE		
479	001103	310 016		CMB R# ,=16	CR?	
480	001105	367 011		JZR TSTENX	JIF YES	
481	001107	310 100		CMB R# ,=100	Q?	
482	001111	367 005		JZR TSTENX	JIF YES	
483	001113	310 233		CMB R# ,=233	1?	
484	001115	367 001		JZR TSTENX	JIF YES	
485	001117	234		ICE		
486	001120	236	TSTENX	RTN		
487	001121					

```
=====
>>>> RESULT <<<<<<<<
9 001121 316 377 377 RESULT. JSB =NO.CRS clear CR's to left
490 001124 140 261 970 LDM R40,=RESULT
490 001127 200
491 001130 012 345 PUMD R40,+R12
492 001132 316 377 377 JSB =ONER must be real
493 001135 154 223 CLM R54
494 001137 250 026 LDB R54,=26 max 22 places
495 001141 130 251 150 LDM R30,=XLPEN get a buffer
495 001144 215
496 001145 316 377 377 JSB =CVNUM go convert
497 001150 136 054 241 LDM R36,R54 byte count
498 001153 316 377 377 JSB =HLFLIN
499 001156 235 CLE
500 001157 236 RTN
501 001160
```

>>>> EXTERNALS <<<<<< 9

503	001160	EXT NO.CRS
504	001160	EXT ONER
505	001160	EXT CYNUM
506	001160	EXT HLFLIN
507	001160	EXT CONBIN
508	001160	EXT DALLOC
509	001160	EXT DISP.
510	001160	EXT ERROR
511	001160	EXT ERROR+
512	001160	EXT FETIND
513	001160	EXT FETST
514	001160	EXT FHOLIN
515	001160	EXT FNDRTH
516	001160	EXT GCHAR
517	001160	EXT NUMEX+
518	001160	EXT PRLINE
519	001160	EXT REPORT
520	001160	EXT RSETGO
521	001160	EXT SEMIC*
522	001160	EXT SET240
523	001160	EXT SETTR1
524	001160	EXT 3KPLN2
525	001160	EXT ST240+
526	001160	EXT STOST
527	001160	EXT STREX+
528	001160	EXT TO?I
529	001160	EXT UNQUOT
530	001160	* UNIL FOR FIN
531	001160	FIN

```

=====
XARMA 03/14/81=====
SYMBOL  VALUE      TYPE      COUNT      Symbol Table      9/11/1981 11:56 AM PG 13
=====
COL      000202      ENT      2
      000177      ENT      3
EXT      000211      LCL      0      <--- NOT REFERENCED??
BOVAR    100014      G DAD     3
CONSHH   177777      EXT      1
OVHUM     177777      EXT      1
DALLED   101104      G DAD     1
DALLOC   177777      EXT      1
DATE     101133      G DAD     1
DATE.    001072      ENT      1
DELET.   000534      ENT      1
DELETO   000564      LCL      1
DELET1   000567      LCL      1
DELET2   000621      LCL      1
DELET3   000627      LCL      1
DELETE   000543      LCL      1
DELRTN   000655      LCL      2
DISP.    177777      EXT      0      <--- NOT REFERENCED??
EADDR    177777      EXT      0      <--- NOT REFERENCED??
EMOVDN   177777      EXT      1
      177777      EXT      4
BOVAR    100017      G DAD     5
ERLIN#   100114      G DAD     1
ERHUM#   100117      G DAD     1
ERNUM.   001032      ENT      1
ERR89    000662      LCL      1
ERR91    000656      LCL      1
EPRL.    001046      ENT      1
E MEM    000767      LCL      2
ERROR     177777      EXT      2
ERROR+   177777      EXT      3
FETIND   177777      EXT      0      <--- NOT REFERENCED??
FETST    177777      EXT      0      <--- NOT REFERENCED??
FNDLIN   177777      EXT      2
FNDRTN   177777      EXT      0      <--- NOT REFERENCED??
FNCURR   100006      G DAD     2
FXDG     000106      LCL      0      <--- NOT REFERENCED??
FXDIR    000106      ENT      2
FXDIR1   000106      LCL      0      <--- NOT REFERENCED??
      000000      ENT      3
FXRSET   000666      ENT      4
FXRST-   000726      LCL      0      <--- NOT REFERENCED??
FXRST2   000707      LCL      1
FXRTN    000176      LCL      2
FXRTN+   000513      LCL      0      <--- NOT REFERENCED??
FXRTN-   000274      LCL      1
FXRTNX   000523      LCL      1
GOCHAR   177777      EXT      0      <--- NOT REFERENCED??
GEMINI   104157      G DAD     3
GINTDS   177401      G DAD     1
GINTEN   177400      G DAD     2
HLFLIN   177777      EXT      1
I#PU45   001061      ENT      3
INSERT   000472      LCL      2

```

AVAIL	100025	G DAD	5	
AVC	000300	LCL	1	
AVINED2	000327	LCL	1	
AVINED3	000372	LCL	1	
AVINEDR	000222	ENT	1	
AVDOWN	000443	LCL	1	
AVUP	000410	LCL	0	<--- NOT REFERENCED??
AVCRS	177777	EXT	1	
AVROOM	000524	LCL	1	
AVOSCUR	000073	LCL	1	
AVOTFND	000431	LCL	1	
AVUMEX+	177777	EXT	0	<--- NOT REFERENCED??
AVXTMEM	100022	G DAD	6	
AVNER	177777	EXT	1	
AVLEN	000007	G EQU	1	
AVSFLC	000025	G EQU	1	
AVSFLG	000032	G EQU	1	
AVCR	101115	G DAD	1	
AVRLINE	177777	EXT	0	<--- NOT REFERENCED??
AVTR1	177710	G DAD	11	
AVTR2	177714	G DAD	12	
AVTR3	177715	G DAD	3	
AVUSH40	001064	LCL	1	
AVELMEM	000776	ENT	1	
AVELRTH	000775	LCL	1	
AVREPORT	177777	EXT	0	<--- NOT REFERENCED??
AVESMEM	000740	ENT	1	
AVESUL	001121	ENT	1	
AVESULT	100079	G DAD	1	
AVMEM	105343	G DAD	3	
AVSETGO	177777	EXT	1	
AVSM	001024	LCL	1	
AVSMEM-	000740	ENT	1	
AVTNSTK	100033	G DAD	1	
AVAYLAV	104164	G DAD	1	
AVAVPT2	104154	G DAD	10	
AVSECTST	000074	LCL	2	
AVSECUR+	000052	LCL	1	
AVSECUR1	000046	LCL	1	
AVJOUR?	000023	ENT	2	
AVENCS	177777	EXT	0	<--- NOT REFERENCED??
AVET240	177777	EXT	0	<--- NOT REFERENCED??
AVETTR1	177777	EXT	0	<--- NOT REFERENCED??
AVSIZE1	000212	LCL	2	
AVSKPLN2	177777	EXT	2	
AVRTH	000221	LCL	1	
AVT240+	177777	EXT	1	
AVTOST	177777	EXT	0	<--- NOT REFERENCED??
AVTREX+	177777	EXT	0	<--- NOT REFERENCED??
AVTSIZE	101741	G DAD	3	
AVTO?I	177777	EXT	1	
AVTSTEN+	001100	ENT	1	
AVTSTEND	001101	ENT	1	
AVTSTENX	001120	LCL	3	

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SYMBOL VALUE TYPE COUNT Symbol Table 9/11/1981 11:56 AM PG 21

QUOT 17777 EXT 0 <--- NOT REFERENCED??

EN 106550 G CAD 1

LINE EDITOR	1
CHECK STATUS & FIX POINTERS	2
FIX POINTERS	4
LINE EDITOR	6
ENTRY POINTS	10
DELETE BLOCK 04-06-78	11
RESERVE/RELEASE MEMORY	13
RUNTIME ERRN, ERRL	15
TEST EOL	16
RESULT	17
EXTERNALS	18

COLLND HAD 0 ERRORS 0 WARNINGS 110 LABELS LAST ERROR AT 0