


```

TTTTTTTTT1  EEEEEEEEE  MM      MM  PPPPPPP  LL      AAAAAA  TTTTTTTTTT  EEEEEEEEE
TTTTTTTTTT  EEEEEEEEE  MM      MM  PPPPPPP  LL      AAAAAA  TTTTTTTTTT  EEEEEEEEE
TT          EE          MMMM  MMMM  PP      PP  LL      AA      AA  TT          EE
TT          EE          MMMM  MMMM  PP      PP  LL      AA      AA  TT          EE
TT          EE          MM  MM  MM  PP      PP  LL      AA      AA  TT          EE
TT          EE          MM  MM  MM  PP      PP  LL      AA      AA  TT          EE
TT          EEEEEEEE  MM      MM  PPPPPPP  LL      AA      AA  TT          EEEEEEEE
TT          EEEEEEEE  MM      MM  PPPPPPP  LL      AA      AA  TT          EEEEEEEE
TT          EE          MM      MM  PP      PP  LL      AAAAAAAAAA  TT          EE
TT          EE          MM      MM  PP      PP  LL      AAAAAAAAAA  TT          EE
TT          EE          MM      MM  PP      PP  LL      AA      AA  TT          EE
TT          EE          MM      MM  PP      PP  LL      AA      AA  TT          EE
TT          EEEEEEEEE  MM      MM  PP      PP  LLLLLLLLLL  AA      AA  TT          EEEEEEEEE
TT          EEEEEEEEE  MM      MM  PP      PP  LLLLLLLLLL  AA      AA  TT          EEEEEEEEE

```

```

LL          IIIII  SSSSSSS
LL          IIIII  SSSSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SSSSS
LL          II     SSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LLLLLLLLLL IIIII  SSSSSSS
LLLLLLLLLL IIIII  SSSSSSS

```

```

1 0001 0 MODULE TEMPLATE (
2 0002 0     IDENT = 'V04-000',
3 0003 0     ADDRESSING_MODE(EXTERNAL=GENERAL,
4 0004 0     NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: VAX/VMS MONITOR Utility
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1     The TEMPLATE module contains the routines to create
38 0038 1     templates for the various display screens.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1     Unprivileged, user mode.
43 0043 1
44 0044 1 AUTHOR: Henry M. Levy , CREATION DATE: 28-April-1977
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1     V03-012 TLC1072      Thomas L. Cafarella      17-Apr-1984      11:00
49 0049 1     Add volume name to DISK display.
50 0050 1
51 0051 1     V03-011 TLC1066      Thomas L. Cafarella      01-Apr-1984      11:00
52 0052 1     Add SYSTEM class.
53 0053 1
54 0054 1     V03-010 TLC1060      Thomas L. Cafarella      12-Mar-1984      11:00
55 0055 1     Make multi-file summary work for homogeneous classes.
56 0056 1
57 0057 1     V03-009 TLC1054      Thomas L. Cafarella      07-Mar-1984      11:00

```

58	0058	1	Fix positioning of data lines for homogeneous classes.		
59	0059	1			
60	0060	1	V03-008 PRS1006 Paul R. Senn 17-FEB-1984 14:00		
61	0061	1	Add support for "computed" items		
62	0062	1			
63	0063	1	V03-008 TLC1052 Thomas L. Cafarella 17-Feb-1984 11:00		
64	0064	1	Add multi-file summary capability.		
65	0065	1			
66	0066	1	V03-007 PRS1005 Paul R. Senn 13-JAN-1983 10:00		
67	0067	1	Allow flexible spacing between screen items		
68	0068	1			
69	0069	1	V03-006 SPC0006 Stephen P. Carney 01-Jul-1983 09:00		
70	0070	1	Change some RWxxx (resource wait state) codes.		
71	0071	1			
72	0072	1	V03-005 TLC1035 Thomas L. Cafarella 06-Jun-1983 15:00		
73	0073	1	Add homogeneous class type and DISK class.		
74	0074	1			
75	0075	1	V03-004 TLC1028 Thomas L. Cafarella 14-Apr-1983 16:00		
76	0076	1	Add interactive user interface.		
77	0077	1			
78	0078	1	V03-004 SPC0001 Stephen P. Carney 25-Mar-1983 15:00		
79	0079	1	Add RWxxx and MUTEX states in place of MWAIT state.		
80	0080	1			
81	0081	1	V03-003 TLC1020 Thomas L. Cafarella 1-Jul-1982 15:00		
82	0082	1	Remove semi-colon to eliminate BLISS INFO message.		
83	0083	1			
84	0084	1	V03-002 TLC1010 Thomas L. Cafarella 29-Mar-1982 15:00		
85	0085	1	Eliminate lower-case "a" strings from summary bar graphs.		
86	0086	1			
87	0087	1	V03-001 TLC1005 Thomas L. Cafarella 25-Mar-1982 17:00		
88	0088	1	Alter vertical spacing for classes with 13 items.		
89	0089	1			
90	0090	1	--		

TEP
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:
55
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2E

```

92 0091 1
93 0092 1
94 0093 1  TABLE OF CONTENTS:
95 0094 1
96 0095 1
97 0096 1 FORWARD ROUTINE
98 0097 1     OUTPUT      ; output a counted string to the SCRPKG
99 0098 1     POSITION    ; call SCRPKG to position cursor
100 0099 1     TEMPLATE  ; build and output display templates
101 0100 1
102 0101 1
103 0102 1
104 0103 1  INCLUDE FILES:
105 0104 1
106 0105 1
107 0106 1 LIBRARY 'SYSS$LIBRARY:LIB.L32'; ; system service macros and user definitions
108 0107 1 REQUIRE 'MONDEFREQ'; ; private MONITOR control block definitions
109 0944 1 REQUIRE 'DSPDEFREQ'; ; item numbers defined here
110 1244 1
111 1245 1 BUILTIN EMUL ; ; define EMUL VAX hardware function
112 1246 1
113 1247 1
114 1248 1  COMPILE TIME VARIABLES
115 1249 1
116 1250 1
117 1251 1 COMPILETIME
118 1252 1     RWAIT_COUNT = 0 ; ; counter for the number of RWAITS being defined
119 1253 1     RWAIT_DEFINED = RSNS_MAX ; ; number of RSNS_* wait codes defined in LIB.L32
120 1254 1
121 1255 1
122 1256 1  MACROS:
123 1257 1
124 1258 1
125 1259 1 MACRO
126 1260 1
127 1261 1
128 1262 1  Counted ascii string macros
129 1263 1
130 1264 1
131 M 1265 1 CSTRING[] = (UPLIT BYTE(%CHARCOUNT(%STRING(%REMAINING))),
132 1266 1     %STRING(%REMAINING)) )% ,
133 1267 1
134 1268 1  ; The RWAIT_CSTRING macro is the CSTRING macro plus a counter to
135 1269 1  ; keep track of times it was called (how many RWAITS have been defined)
136 1270 1
137 M 1271 1 RWAIT_CSTRING[] = %ASSIGN(RWAIT_COUNT,RWAIT_COUNT+1)
138 M 1272 1     (UPLIT BYTE(%CHARCOUNT(%STRING(%REMAINING))),
139 1273 1     %STRING(%REMAINING)) )% ;
140 1274 1
141 1275 1
142 1276 1  EQUATED SYMBOLS:
143 1277 1
144 1278 1
145 1279 1 LITERAL
146 1280 1
147 1281 1     BELL = 7 ;
148 1282 1     ESC = 27 ;

```

```

149 1283 1 ALTSET = ('F' ^ 8) + ESC,      ! alternate graphics set
150 1284 1 CR = 13,                ! carriage return
151 1285 1 CURSOR = ('Y' ^ 8) + ESC, ! position cursor command
152 1286 1 ERASE = ('J' ^ 8) + ESC,  ! erase entire screen
153 1287 1 ERASEEOL = ('K' ^ 8) + ESC, ! erase to end of line
154 1288 1 FALSE = 0,
155 1289 1 HOME = ('H' ^ 8) + ESC,   ! return cursor to top
156 1290 1 LF = 10,                 ! line feed
157 1291 1 TRUE = 1;
158 1292 1
159 1293 1 GLOBAL LITERAL
160 1294 1
161 1295 1 REGSET = ('G' ^ 8) + ESC ; ! normal graphics set
162 1296 1
163 1297 1
164 1298 1 !
165 1299 1 ! OWN STORAGE:
166 1300 1 !
167 1301 1 !
168 1302 1 OWN
169 1303 1 TOPSTR10: VECTOR[45,BYTE]
170 1304 1 INITIAL (BYTE(44),BYTE(' [!30W,!30W ]!16AC!AC!5<!#UL!>!AC'),
171 1305 1 BYTE(ESC),BYTE('F!#*a'),BYTE(ESC),BYTE('G'),BYTE(ESC),BYTE('K')) ;
172 1306 1
173 1307 1 !
174 1308 1 ! Table of bit vectors which "illustrate" the pattern of data line
175 1309 1 ! spacing within the data portion of the display screen. There is
176 1310 1 ! one bit vector for each possible number of data items (24). Each
177 1311 1 ! bit vector contains 24 bits representing the lines in the data
178 1312 1 ! portion of the display screen. A "1" bit means this is a data line;
179 1313 1 ! a "0" bit means this is a space. The bits read from right to left;
180 1314 1 ! so, for example, the bit representing line 1 is the right-most.
181 1315 1 !
182 1316 1 !
183 1317 1 !
184 1318 1 OWN
185 1319 1 SCR_PATTERN: VECTOR[24,LONG] INITIAL (
186 1320 1
187 1321 1 LONG(%B'00000000100000000000000'), ! 1 data item
188 1322 1 LONG(%B'00000001010000000000000'), ! 2 data items
189 1323 1 LONG(%B'000000100100100000000000'), ! 3 data items
190 1324 1 LONG(%B'000000101010100000000000'), ! 4 data items
191 1325 1 LONG(%B'000001010101010000000000'), ! 5 data items
192 1326 1 LONG(%B'000010100101001010000000'), ! 6 data items
193 1327 1 LONG(%B'000010101010101010000000'), ! 7 data items
194 1328 1 LONG(%B'001010101010101010000000'), ! 8 data items
195 1329 1 LONG(%B'000011100111001110000000'), ! 9 data items
196 1330 1 LONG(%B'000110110110110110000000'), ! 10 data items
197 1331 1 LONG(%B'0001101101101101110000000'), ! 11 data items
198 1332 1 LONG(%B'001110111011101110000000'), ! 12 data items
199 1333 1 LONG(%B'00111011110111100000000'), ! 13 data items
200 1334 1 LONG(%B'00111111011111100000000'), ! 14 data items
201 1335 1 LONG(%B'00111111111111110000000'), ! 15 data items
202 1336 1 LONG(0), ! 16 data items
203 1337 1 LONG(0), ! 17 data items
204 1338 1 LONG(0), ! 18 data items
205 1339 1 LONG(0), ! 19 data items

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206 1340 1 LONG(0), : 20 data items
207 1341 1 LONG(0), : 21 data items
208 1342 1 LONG(0), : 22 data items
209 1343 1 LONG(0), : 23 data items
210 1344 1 LONG(0); : 24 data items
211 1345 1
212 1346 1
213 1347 1 : One of the above longword elements is moved to the 24-bit vector
214 1348 1 : below, based on the number of items in the display. The bit vector
215 1349 1 : is then used to determine whether a line in the data portion of the
216 1350 1 : screen is to be a space (0) or is to contain data (1).
217 1351 1
218 1352 1
219 1353 1 OWN
220 1354 1 SCR_DATA_LINE: BITVECTOR[24];
221 1355 1
222 1356 1
223 1357 1 : Messages
224 1358 1
225 1359 1
226 1360 1 BIND
227 1361 1
228 1362 1 TABSTR = CSTRING(' !7UL !2ZL !7UL !2ZL !7UL !2ZL !7UL !2ZL'),
229 1363 1 TABSTR_PC = CSTRING(' !7UL !1ZL !7UL !1ZL !7UL !1ZL !7UL !1ZL'),
230 1364 1 COUNTSTR = UPLIT BYTE ('!7<!#UL!>'),
231 1365 1 CRSTR = CSTRING(%CHAR(CR)),
232 1366 1 CLRSTR = CSTRING(%CHAR(ESC), 'H', %CHAR(ESC), 'J'),
233 1367 1 DELSTR = CSTRING(%CHAR(ESC), 'J'),
234 1368 1 GRAPHICS_ON = CSTRING(%CHAR(ESC), '1'),
235 1369 1 GRAPHICS_OFF = CSTRING(%CHAR(ESC), '2'),
236 1370 1 HOMESTR = CSTRING(%CHAR(ESC), 'H'),
237 1371 1
238 1372 1 LFSTR = CSTRING(%CHAR(LF)),
239 1373 1 NLSTR = CSTRING(%CHAR(CR), %CHAR(LF)),
240 1374 1 REPTSTR = UPLIT BYTE('!#*'),
241 P 1375 1 SETVTSS = CSTRING(%CHAR(ESC), '1', 'A', %CHAR(%'77'), 'I',
242 1376 1 %CHAR(%'57'), %CHAR(ESC), '2'),
243 1377 1 TOPSTR20 = CSTRING(%CHAR(ESC), 'K'),
244 1378 1 VHSTSTR20 = CSTRING('!UL');
245 1379 1
246 1380 1
247 1381 1 : Table of counted strings for Process States
248 1382 1
249 1383 1
250 1384 1 GLOBAL BIND
251 1385 1
252 1386 1 STATELIST = UPLIT ( CSTRING('BAD') :
253 1387 1 CSTRING('COLPG') :
254 1388 1 CSTRING('MWAIT') :
255 1389 1 CSTRING('CEF') :
256 1390 1 CSTRING('PFW') :
257 1391 1 CSTRING('LEF') :
258 1392 1 CSTRING('LEFO') :
259 1393 1 CSTRING('HIB') :
260 1394 1 CSTRING('HIBO') :
261 1395 1 CSTRING('SUSP') :
262 1396 1 CSTRING('SUSPO') :

```

00X
00X
00X

```
.. 263      1397  1      CSTRING('FPG')      ;
... 264      1398  1      CSTRING('COM')      ;
... 265      1399  1      CSTRING('COMO')     ;
... 266      1400  2      CSTRING('CUR')      ;
... 267      1401  1      );
... 268      1402  1
... 269      1403  1  RWAITLIST = UPLIT (  RWAIT_CSTRING('RWUDF') ;
... 270      1404  1      RWAIT_CSTRING('RWAST') ;
... 271      1405  1      RWAIT_CSTRING('RWMBX') ;
... 272      1406  1      RWAIT_CSTRING('RWMPG') ;
... 273      1407  1      RWAIT_CSTRING('RWPGF') ;
... 274      1408  1      RWAIT_CSTRING('RWPAG') ;
... 275      1409  1      RWAIT_CSTRING('RWBRK') ;
... 276      1410  1      RWAIT_CSTRING('RWIMG') ;
... 277      1411  1      RWAIT_CSTRING('RWQUO') ;
... 278      1412  1      RWAIT_CSTRING('RWLCK') ;
... 279      1413  1      PWAIT_CSTRING('RWSWP') ;
... 280      1414  1      RWAIT_CSTRING('RWMPE') ;
... 281      1415  1      RWAIT_CSTRING('RWMPB') ;
... 282      1416  1      RWAIT_CSTRING('RWSCS') ;
... 283      1417  2      RWAIT_CSTRING('RWCLU') ;
... 284      1418  1      );
... 285      1419  1
... 286      1420  1  ! Make sure MONITOR knows all RSNS_* wait states currently defined in LIB.L32
... 287      1421  1
... 288      1422  1      $ASSUME (RWAIT_LOUNT, EQL, RWAIT_DEFINED)
... 289      1423  1
... 290      1424  2  RWAITLIST = UPLIT (  CSTRING('MUTEX')
... 291      1425  1      );
... 292      1426  1
```



```

: 294      1427  1  |
: 295      1428  1  | : EXTERNAL REFERENCES:
: 296      1429  1  | :
: 297      1430  1  |
: 298      1431  1  | EXTERNAL
: 299      1432  1  |     MRBPTR ,           | address of MRB
: 300      1433  1  |     NAME_COL: BYTE ,  | column number for name string
: 301      1434  1  |     BARCHAR: BYTE ,  | character to repeat to form bar graphs
: 302      1435  1  |     DISPLAYING: BYTE, | low bit set => display is active
: 303      1436  1  |     FAOSTK: VECTOR[.LONG] , | fao parameter space
: 304      1437  1  |     MFSUMSTR ,       | fao string segment for control string
: 305      1438  1  |     NAMESTR ,        | fao string for output of long names
: 306      1439  1  |     NORMAL ,         | MONITOR normal return status
: 307      1440  1  |     PERFTABLE: VECTOR[BYTE] , | list of performance item descriptors
: 308      1441  1  |     ITEMSTR_SYS_ALL: BYTE , | item string for SYSTEM /ALL
: 309      1442  1  |     SCH$GL_MAXPIX: ADDRESSING_MODE(LONG_RELATIVE) , | max process index
: 310      1443  1  |     SCH$GL_PCBVEC: ADDRESSING_MODE(LONG_RELATIVE) , | address of PCB pointer list
: 311      1444  1  |     VT$XINCR ;       | incr from bar to bar
: 312      1445  1  |
: 313      1446  1  | EXTERNAL LITERAL
: 314      1447  1  |     FAOCTR_SIZE ,    | size of FAO control string
: 315      1448  1  |     FIRST_DATA_LINE, | line number of first data line on screen
: 316      1449  1  |     LAST_DATA_LINE,  | line number of last data line on screen
: 317      1450  1  |     VTDATALINES ,   | number of data lines on the screen
: 318      1451  1  |     NAME_COL_TAB ,   | starting column of names -- tabular display
: 319      1452  1  |     NAME_COL_BAR ,   | starting column of names -- bar graph
: 320      1453  1  |     NAME_COL_MFSUM , | starting column of names -- multi-file summary
: 321      1454  1  |     MAX_NAME_SIZE ,  | max size of name (label) string
: 322      1455  1  |     WIDE_NAME_SIZE , | size of name (label) string for a wide display (DISK)
: 323      1456  1  |     ECOUNT_SYS_ALL , | no. of elements for SYSTEM /ALL
: 324      1457  1  |     MAXBARS ,        | max characters on horizontal histogram
: 325      1458  1  |     VT$SCWIDTH ,    | max characters on bottom axis
: 326      1459  1  |     VT$HEIGHT ,     | height of screen
: 327      1460  1  |     VT$WIDTH ;      | width of screen
: 328      1461  1  |
: 329      1462  1  | EXTERNAL ROUTINE
: 330      1463  1  |     PUT_TO_SCREEN ,  | rtn to xlate & annex a string to SYSS$OUTPUT buffer
: 331      1464  1  |     LIB$GET_VM ,     | rtn to acquire virtual memory
: 332      1465  1  |     SCR$SET_CURSOR ; | rtn to annex a cursor positioning esc seq to SYSS$OUTPUT
: 333      1466  1  |

```

```

335 1467 1 GLOBAL ROUTINE TEMPLATE( DCDB ) =
336 1468 2 BEGIN
337 1469 2
338 1470 2 !++
339 1471 2
340 1472 2 FUNCTIONAL DESCRIPTION:
341 1473 2
342 1474 2 This routine formats and displays the name strings for tabular
343 1475 2 and bar graph displays of current, average, min and max values.
344 1476 2 It also builds the FAO control string for the actual data on the
345 1477 2 first call per class.
346 1478 2
347 1479 2 INPUTS:
348 1480 2
349 1481 2 DCDB - address of class descriptor block for class being displayed.
350 1482 2
351 1483 2 IMPLICIT INPUTS:
352 1484 2
353 1485 2 PERFTABLE - address of table of contiguous IDB's.
354 1486 2
355 1487 2
356 1488 2 OUTPUTS:
357 1489 2
358 1490 2 none
359 1491 2
360 1492 2 IMPLICIT OUTPUTS:
361 1493 2
362 1494 2 Name string for each item in the display for this class sent
363 1495 2 directly to screen package (via call to PUT_TO_SCREEN).
364 1496 2
365 1497 2 On first call to this routine for this class, a buffer is
366 1498 2 obtained for the FAO control string to output the data values.
367 1499 2 It is filled with the necessary FAO control information and
368 1500 2 its address and length are stored in the CDB$A_FAOCTR and
369 1501 2 CDB$L_FAOCTR fields, respectively.
370 1502 2
371 1503 2 ROUTINE VALUE:
372 1504 2
373 1505 2 NORMAL, or possible failing status from LIB$GET_VM.
374 1506 2
375 1507 2 SIDE EFFECTS:
376 1508 2
377 1509 2 none
378 1510 2 --
379 1511 2
380 1512 2 LOCAL
381 1513 2 I,
382 1514 2 ITEMS,
383 1515 2 ITEMSTR,
384 1516 2 POINTER,
385 1517 2 STATUS,
386 1518 2 XPOS,
387 1519 2 YPOS,
388 1520 2 ROW_OFFSET;
389 1521 2 MAP
390 1522 2 DCDB: REF BLOCK[,BYTE] ;
391 1523 2 MRBPTR: REF BLOCK[,BYTE] ;

```

```

! data item index
! count of data items
! pointer to first item token
! pointer into fao control string buffer
! return status
! column address
! row address
! constant added to row number for m.f. summary
! address CDB structure
! address MRB structure

```



```

394 1525 2 IF .MRBPTR[MRBSV MFSUM]           ! if this is a multi-file summary
395 1526 2 THEN ROW_OFFSET = 2             ! then display the data rows lower
396 1527 2 ELSE ROW_OFFSET = 0 ;         ! else do not offset
397 1528 2
398 1529 2 IF .DCDB[CDBSV_HOMOG]         ! if this is a homogeneous class,
399 1530 2 THEN ITEMS = VTDATALINES     ! always use the whole screen,
400 1531 2 ELSE ITEMS = .DCDB[CDB$L_ECOUN] ! else get just no. of elts to display
401 1532 2
402 1533 2 IF .DCDB[CDBSV_SYSCLS]       ! if this is the SYSTEM class,
403 1534 2 THEN ITEMS = ECOUNT_SYS_ALL ; ! get a special ECOUNT
404 1535 2
405 1536 2 SCR [A_LINE = 0;             ! zero out display bit string
406 1537 2
407 1538 2
408 1539 2 ! Set up bit string controlling spacing.
409 1540 2 ! The CDB display control string is only a word in length, rather than 24 bits.
410 1541 2 ! This is to save space, since only 15 of the 24 bits in the default bit
411 1542 2 ! strings are actually used.
412 1543 2
413 1544 2
414 1545 2 IF .DCDB[CDB$W_DISPCTL] EQL 0 ! if display control is 0
415 1546 2 THEN SCR_DATA_LINE = .(SCR_PATTERN[ITEMS-1])<0,24> ! use default spacing
416 1547 2 ELSE SCR_DATA_LINE<7,15> = .(DCDB[CDB$W_DISPCTL])<0,15> ; ! else use spacing specified in CDB
417 1548 2
418 1549 2 ! Output name string for each item in this heterogeneous class
419 1550 2
420 1551 2
421 1552 2 IF .MRBPTR[MRBSV MFSUM] OR .DCDB[CDBSV_WIDE] ! if this is a multi-file summary or a wide screen
422 1553 2 THEN NAME_COL = NAME_COL_MFSUM ! start the names here
423 1554 2 ELSE IF .DCDB[CDB$B_ST] EQL ALL_STAT ! if this is a tabular display,
424 1555 2 THEN NAME_COL = NAME_COL_TAB ! start the names here
425 1556 2 ELSE NAME_COL = NAME_COL_BAR ; ! else start there for bar graph
426 1557 2
427 1558 2 IF NOT .DCDB[CDBSV_HOMOG] ! if this is a heterogeneous class,
428 1559 2 THEN
429 1560 2 BEGIN
430 1561 2
431 1562 2 I = 0 ; ! initialize data item index
432 1563 2 ITMSTR = .DCDB[CDB$A_ITMSTR] ; ! get address of item byte string
433 1564 2
434 1565 2 IF .DCDB[CDBSV_SYSCLS] AND .DCDB[CDB$B_ST] EQL ALL_STAT ! if this is the SYSTEM tabular display,
435 1566 2 THEN ITMSTR = ITMSTR_SYS_ALL ; ! get a special ITMSTR
436 1567 2
437 1568 2 INCR YPOS FROM FIRST_DATA_LINE TO LAST_DATA_LINE ! loop once for each line in
438 1569 2 DO ! ... data portion of screen
439 1570 2 BEGIN
440 1571 2
441 1572 2
442 1573 2 ! Find the IDB for this item. Output the long name
443 1574 2 ! string, preceded by the correct cursor positioning
444 1575 2 ! sequence to space them out evenly.
445 1576 2
446 1577 2
447 1578 2 LOCAL
448 1579 2 DIDB: REF BLOCK[.BYTE] ,
449 1580 2 NAME ;
450 1581 2 NEXT ;

```

```

: 451      1582  4      IF .SCR_DATA_LINE[.YPOS-1]          ! if this is a data line,
: 452      1583  4      THEN
: 453      1584  5          BEGIN
: 454      1585  5              NEXT = .ITMSTR[.I] ;          ! get next token
: 455      1586  5              DIDB = PERFTABLE[ .NEXT * IDB$K_ILENGTH ] ;      ! addr of IDB
: 456      1587  5              NAME = .DIDB[IDB$A_LNAME] ;      ! address of name string
: 457      1588  5              POSITION( .YPOS + .ROW_OFFSET , .NAME_COL ) ;      ! position to this item
: 458      1589  5              OUTPUT( .NAME ) ;          ! output name string
: 459      1590  5              IF .DIDB[IDB$V_PCNT] EQL 1      ! if this is a pcnt item
: 460      1591  5              THEN I = .I + 2 ;          ! move past item used for calc
: 461      1592  5              ELSE I = .I + 1 ;          ! point index to next data item
: 462      1593  4              END;
: 463      1594  4
: 464      1595  3          END;
: 465      1596  2      END;

```

```

467 1597 2 |
468 1598 2 |
469 1599 2 | If this is the first time thru for this class,
470 1600 2 | obtain and build the FAO control string to insert
471 1601 2 | the data values for the items at data display time.
472 1602 2 |
473 1603 2 | IF .DCDB[CDBSA_FAOCTR] EQL 0 OR NOT .DISPLAYING | if no fao control string yet
474 1604 2 | THEN | ... OR in summary processing
475 1605 2 | BEGIN
476 1606 2 | LOCAL
477 1607 2 | FAOCSIZE ; | holds faoctr size
478 1608 2 | IF .DCDB[CDBSA_FAOCTR] EQL 0 | if no control string buffer yet,
479 1609 2 | THEN
480 1610 2 | BEGIN
481 1611 2 | FAOCSIZE = FAOCTR SIZE ; | initialize its size
482 1612 2 | STATUS = LIB$GET_VM(FAOCSIZE,DCDB[CDBSA_FAOCTR]); | get the memory for it
483 1613 2 | IF NOT .STATUS THEN RETURN .STATUS ; | return if error
484 1614 2 | END;
485 1615 2 |
486 1616 2 | POINTER = .DCDB[CDBSA_FAOCTR] ; | start pointer at beg of FAO buffer
487 1617 2 |
488 1618 2 | IF .DCDB[CDBSB_ST] EQL ALL_STAT OR .MRBPTR[MRBSV_MFSUM] | if this is a tabular display,
489 1619 2 | THEN | set up control string accordingly
490 1620 2 | BEGIN
491 1621 2 | LOCAL
492 1622 2 | COL_OFFSET, | holds offset from usual column where data
493 1623 2 | CUR_TABSTR ; | holds addr of FAO control string segment
494 1624 2 | IF .DCDB[CDBSV_WIDE] | if a wide-screen display,
495 1625 2 | THEN COL_OFFSET = WIDE_NAME_SIZE | then set a wide offset
496 1626 2 | ELSE COL_OFFSET = MAX_NAME_SIZE ; | otherwise, take the usual width
497 1627 2 | XPOS = .NAME_COL + .COL_OFFSET ; | starting column
498 1628 2 | DCDB[CDBSB_FAOPRELEN] = 0 ; | length of FAO prefix
499 1629 2 |
500 1630 2 | IF .MRBPTR[MRBSV_MFSUM] | if this is a multi-file summary,
501 1631 2 | THEN CUR_TABSTR = MFSUMSTR | get the appropriate FAO control str segm
502 1632 2 | ELSE IF .DCDB[CDBSV_PERCENT] | if this is a percent display,
503 1633 2 | THEN CUR_TABSTR = TABSTR_PC | get the appropriate FAO control str segm
504 1634 2 | ELSE CUR_TABSTR = TABSTR ; | else get the other one
505 1635 2 |
506 1636 2 | INCR YPOS FROM FIRST_DATA_LINE TO LAST_DATA_LINE | loop once for each line in
507 1637 2 | DO | ... data portion of screen
508 1638 2 | BEGIN
509 1639 2 | IF .SCR_DATA_LINE[.YPOS-1] | if this is a data line,
510 1640 2 | THEN
511 1641 2 | BEGIN
512 1642 2 | (.POINTER)<0,16> = CURSOR ; | insert position command
513 1643 2 | ( POINTER = .POINTER + 2 )<0,8> = .YPOS + .ROW_OFFSET ; | insert row number
514 1644 2 | ( POINTER = .POINTER + 1 )<0,8> = .XPOS ; | insert column number
515 1645 2 | POINTER = .POINTER + 1 ; | update to skip last inserted byte
516 1646 2 | CHSMOVE( (.CUR_TABSTR)<0,8> , (.CUR_TABSTR)+1 , .POINTER ) ; | move conversion control stri
517 1647 2 | POINTER = .POINTER + (.CUR_TABSTR)<0,8> ; | update pointer
518 1648 2 | IF .YPOS EQL FIRST_DATA_LINE | if first time thru the loop,
519 1649 2 | THEN DCDB[CDBSB_FAOSEGLEN] = .POINTER - .DCDB[CDBSA_FAOCTR] - .DCDB[CDBSB_FAOPRELEN] ; | compute length of a single segment
520 1650 2 |
521 1651 2 | END;
522 1652 2 | END;
523 1653 2 |

```

TEMPLATE
V04-000

: 524 1654 4 END

~~16-Sep-1984~~ ⁵ 02:18:37
~~14-Sep-1984~~ 12:45:05

VAX-11 Bliss-32 V4.0-742
[MONTOR.SRC]TEMPLATE.B32;1

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(6)

EX

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: 526      1655 3      ELSE
: 527      1656 4      BEGIN
: 528      1657 4
: 529      1658 4      Now build the fao control string to output a bar graph
: 530      1659 4      at run time. The control string contains for each line:
: 531      1660 4      position row and column to left of grid
: 532      1661 4      write count
: 533      1662 4      re-position row and column inside grid
: 534      1663 4      output 'n' bar characters
: 535      1664 4      delete to end of line
: 536      1665 4
: 537      1666 4      LOCAL
: 538      1667 4      XPOSBAR      ! column number of beg of bar
: 539      1668 4      XPOSCOUNT ;    ! column number of count field
: 540      1669 4
: 541      1670 4      XPOSCOUNT = 30 ;    ! starting column of count field
: 542      1671 4      XPOSBAR = 39 ;    ! starting column of bar field
: 543      1672 4      (.POINTER) <0,16> = ALTSET ;    ! start filling ctrl string (alternate graphics)
: 544      1673 4      POINTER = .POINTER + 2 ;    ! skip to next position
: 545      1674 4      DCDB[CDB$B_FAOPRELEN] = 2 ;    ! ... and store length of FAO prefix
: 546      1675 4
: 547      1676 4      INCR YPOS FROM FIRST_DATA_LINE TO LAST_DATA_LINE ! loop once for each line in
: 548      1677 4      DO      ! ... data portion of screen
: 549      1678 5      BEGIN
: 550      1679 5      IF .SCR_DATA_LINE[.YPOS-1]      ! if this is a data line,
: 551      1680 5      THEN
: 552      1681 6      BEGIN
: 553      1682 6      (.POINTER)<0,16> = CURSOR ;    ! insert position command
: 554      1683 6      (POINTER = .POINTER + 2 )<0,8> = .YPOS ;    ! next Y position
: 555      1684 6      (POINTER = .POINTER + 1 )<0,8> = .XPOSCOUNT ;    ! X position for count
: 556      1685 6      POINTER = .POINTER + 1 ;    ! next buffer position
: 557      1686 6      CH$MOVE( 9 , COUNTSTR , .POINTER ) ;    ! move count directive
: 558      1687 6      (POINTER = .POINTER+9)<0,16> = CURSOR ;    ! insert control to position to
: 559      1688 6      (POINTER = .POINTER+2)<0,8> = .YPOS ;    ! stay in same row
: 560      1689 6      (POINTER = .POINTER+1)<0,8> = .XPOSBAR ;    ! column for bar field
: 561      1690 6      POINTER = .POINTER + 1 ;    ! next buffer position
: 562      1691 6      CH$MOVE( 3 , REPTSTR , .POINTER ) ;    ! move repeat control
: 563      1692 6      (POINTER = .POINTER + 3)<0,8> = .BARCHAR ;    ! insert literal character to use for graph
: 564      1693 6      (POINTER = .POINTER+1)<0,16> = ERASEEOL ;    ! delete rest of line
: 565      1694 6      POINTER = .POINTER + 2 ;    ! next buffer position
: 566      1695 6      IF .YPOS EQL FIRST DATA LINE    ! if first time thru the loop,
: 567      1696 6      THEN DCDB[CDB$B_FAOSEGLEN] = .POINTER - .DCDB[CDB$A_FAOCTR] - .DCDB[CDB$B_FAOPRELEN] ;    ! compute length of a single segment
: 568      1697 6
: 569      1698 5      END;
: 570      1699 4      END;
: 571      1700 4
: 572      1701 4      (.POINTER)<0,16> = REGSET ;    ! restore normal char set
: 573      1702 4      POINTER = .POINTER + 2 ;    ! update position
: 574      1703 3      END;
: 575      1704 3
: 576      1705 3
: 577      1706 3      ! Insert length of created string into CDB
: 578      1707 3
: 579      1708 3
: 580      1709 3      DCDB[CDB$B_FAOCTR] = .POINTER - .DCDB[CDB$A_FAOCTR] ;
: 581      1710 2      END ;
: 582      1711 2      RETURN .NORMAL ;    ! return with no errors

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: 583 1712 1 END;

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          .TITLE  TEMPLATE
          .IDENT  \V04-000\
          .PSECT  $SPLITS,NOWRT,NOEXE,2
55 37 21 20 4C 5A 32 21 2E 4C 55 37 21 20 29 00000 P.AAA: .BYTE 41
SA 32 21 2E 4C 55 37 21 20 4C 5A 32 21 2E 4C 00001 .ASCII \ !7UL.!2ZL !7UL.!2ZL !7UL.!2ZL !7UL.!2Z\
          4C 00010
          4C 0001F
          4C 00029
          2D 0002A P.AAB: .ASCII \L\
21 20 20 4C 5A 31 21 2E 4C 55 37 21 20 20 20 0002B .BYTE 45
2E 4C 55 37 21 20 20 4C 5A 31 21 2E 4C 55 37 0002B .ASCII \ !7UL.!1ZL !7UL.!1ZL !7UL.!1ZL !7UL\
          4C 0003A
          4C 00049
          4C 00053
          21 00058 P.AAC: .ASCII \.!1ZL\
          01 00061 P.AAD: .ASCII \!7<!#UL!>\
          0D 00062 .BYTE 1
          04 00063 P.AAE: .ASCII <13>
          4A 1B 48 1B 00064 .BYTE 4
          02 00068 P.AAF: .ASCII <27>\H\<27>\J\
          4A 1B 00069 .ASCII <27>\J\
          02 0006B P.AAG: .BYTE 2
          31 1B 0006C .ASCII <27>\I\
          02 0006E P.AAH: .BYTE 2
          32 1B 0006F .ASCII <27>\2\
          02 00071 P.AAI: .BYTE 2
          48 1B 00072 .ASCII <27>\H\
          01 00074 P.AAJ: .BYTE 1
          0A 00075 .ASCII <10>
          02 00076 P.AAK: .BYTE 2
          0A 0D 00077 .ASCII <13><10>
          2A 23 21 00079 P.AAL: .ASCII \!#\
          08 0007C P.AAM: .BYTE 8
          32 1B 2F 49 3F 41 31 1B 0007D .ASCII <27>\1A?I/\<27>\2\
          02 00085 P.AAN: .BYTE 2
          4B 1B 00086 .ASCII <27>\K\
          03 00088 P.AAO: .BYTE 3
          4C 55 21 00089 .ASCII \!UL\
          03 0008C P.AAQ: .BYTE 3
          44 41 42 0008D .ASCII \BAD\
          05 00090 P.AAR: .BYTE 5
          47 50 4C 4F 43 00091 .ASCII \COLPG\
          05 00096 P.AAS: .BYTE 5
          54 49 41 57 4D 00097 .ASCII \MWAIT\
          03 0009C P.AAT: .BYTE 3
          46 45 43 0009D .ASCII \CEF\
          03 000A0 P.AAU: .BYTE 3
          57 46 50 000A1 .ASCII \PFW\
          03 000A4 P.AAV: .BYTE 3
          46 45 4C 000A5 .ASCII \LEF\
          04 000A8 P.AAW: .BYTE 4
          4F 46 45 4C 000A9 .ASCII \LEFO\
          03 000AD P.AAX: .BYTE 3

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      42 49 48 000AE .ASCII \HIB\
      04 000B1 P.AAY: .BYTE 4
4F 42 49 48 000B2 .ASCII \HIB0\
      04 000B6 P.AAZ: .BYTE 4
50 53 55 53 000B7 .ASCII \SUSP\
      05 000BB P.ABA: .BYTE 5
4F 50 53 55 53 000BC .ASCII \SUSPO\
      03 000C1 P.ABB: .BYTE 3
      47 50 46 000C2 .ASCII \FPG\
      03 000C5 P.ABC: .BYTE 3
      4D 4F 43 000C6 .ASCII \COM\
      04 000C9 P.ABD: .BYTE 4
4F 4D 4F 43 000CA .ASCII \COM0\
      03 000CE P.ABE: .BYTE 3
      52 55 43 000CF .ASCII \CUR\
      000D2 .BLKB 2
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 000D4 P.AAP: .ADDRESS P.AAQ, P.AAR, P.AAS, P.AAT, P.AAU, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 000EC P.AAV, P.AAW, P.AAX, P.AAY, P.AAZ, P.ABA, -
      00000000' 00000000' 00000000' 00104 P.ABB, P.ABC, P.ABD, P.ABE
      05 00110 P.ABG: .BYTE 5
46 44 55 57 52 00111 .ASCII \RWUDF\
      05 00116 P.ABH: .BYTE 5
54 53 41 57 52 00117 .ASCII \RWAST\
      05 0011C P.ABI: .BYTE 5
58 42 4D 57 52 0011D .ASCII \RWMBX\
      05 00122 P.ABJ: .BYTE 5
47 50 4E 57 52 00123 .ASCII \RWNPG\
      05 00128 P.ABK: .BYTE 5
46 47 50 57 52 00129 .ASCII \RWPGF\
      05 0012E P.ABL: .BYTE 5
47 41 50 57 52 0012F .ASCII \RWPAG\
      05 00134 P.ABM: .BYTE 5
48 52 42 57 52 00135 .ASCII \RWBRK\
      05 0013A P.ABN: .BYTE 5
47 4D 49 57 52 0013B .ASCII \RWIMG\
      05 00140 P.ABO: .BYTE 5
4F 55 51 57 52 00141 .ASCII \RWQUO\
      05 00146 P.ABP: .BYTE 5
48 43 4C 57 52 00147 .ASCII \RWLCK\
      05 0014C P.ABQ: .BYTE 5
50 57 53 57 52 0014D .ASCII \RWSWP\
      05 00152 P.ABR: .BYTE 5
45 50 4D 57 52 00153 .ASCII \RWMPE\
      05 00158 P.ABS: .BYTE 5
42 50 4D 57 52 00159 .ASCII \RWMPB\
      05 0015E P.ABT: .BYTE 5
53 43 53 57 52 0015F .ASCII \RWSCS\
      05 00164 P.ABU: .BYTE 5
55 4C 43 57 52 00165 .ASCII \RWCLU\
      0016A .BLKB 2
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0016C P.ABF: .ADDRESS P.ABG, P.ABH, P.ABI, P.ABJ, P.ABK, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00184 P.ABL, P.ABM, P.ABN, P.ABO, P.ABP, P.ABQ, -
      00000000' 00000000' 00000000' 0019C P.ABR, P.ABS, P.ABT, P.ABU
      05 001A8 P.ABW: .BYTE 5
58 45 54 55 4D 001A9 .ASCII \MUTEX\
      001AE .BLKB 2
      00000000' 001B0 P.ABV: .ADDRESS P.ABW

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.PSECT $OWNS,NOEXE,2
2C 00000 TOPSTR10:
21 20 20 5D 57 4F 33 21 2C 57 4F 33 21 5B 20 00001 .BYTE 44
21 4C 55 23 21 3C 35 21 43 41 21 43 41 36 31 00010 .ASCII \ [!30W,!30W] !16AC!AC!5<!#UL!>!AC\
43 41 21 3E 0001F
1B 00023 .BYTE 27
61 2A 23 21 46 00024 .ASCII \F!#*a\
1B 00029 .BYTE 27
47 0002A .ASCII \G\
1B 0002B .BYTE 27
4B 0002C .ASCII \K\
0002D .BLKB 3
00004000 00030 SCR_PATTERN:
0000A000 00034 .LONG 16384
00024800 00038 .LONG 40960
0002A800 0003C .LONG 149504
00055400 00040 .LONG 174080
000A5280 00044 .LONG 349184
000AAA80 00048 .LONG 676480
002AAA80 0004C .LONG 699008
000E7380 00050 .LONG 2796160
001B6D80 00054 .LONG 947072
001BBB80 00058 .LONG 1797504
003BBB80 0005C .LONG 1817472
003DF780 00060 .LONG 3914624
003FBF80 00064 .LONG 4061056
003FFF80 00068 .LONG 4177792
00000000 0006C .LONG 4194176
00000000 00070 .LONG 0
00000000 00074 .LONG 0
00000000 00078 .LONG 0
00000000 0007C .LONG 0
00000000 00080 .LONG 0
00000000 00084 .LONG 0
00000000 00088 .LONG 0
00000000 0008C .LONG 0
00000000 00090 SCR_DATA_LINE:
.BLKB 3

REGSET== 18203
TABSTR= P.AAA
TABSTR_PC= P.AAB
COUNTSTR= P.AAC
CRSTR= P.AAD
CLRSTR= P.AAE
DELSTR= P.AAF
GRAPHICS_ON= P.AAG
GRAPHICS_OFF= P.AAH
HOMESTR= P.AAI
LFSTR= P.AAJ
NLSTR= P.AAK
REPTSTR= P.AAL
SETVT55= P.AAM

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	54	1C	A8	D0	00093	MOVL	28(R8), ITMSTR	1563	
	0C	4C	A8	E9	00097	BLBC	76(R8), 12\$	1565	
		42	A8	95	0009B	TSTB	66(R8)		
			07	12	0009E	BNEQ	12\$		
52	00000000G		00	9E	000A0	MOVAB	ITMSTR SYS_ALL, ITMSTR	1566	
	8F		01	C3	000A7	SUBL3	#1, #FIRST_DATA_LINE, YPOS	1568	
			44	11	000AF	BRB	15\$		
38	00000000'	FF	A2	9E	000B1	MOVAB	-1(R2), R0	1582	
	EF		50	E1	000B5	BBC	R0, SCR_DATA_LINE, 15\$		
	50		6544	9A	000BD	MOVZBL	(I)[ITMSTR],-NEXT	1585	
	50		11	C4	000C1	MULL2	#17, R0	1586	
	53	00000000G	0040	9E	000C4	MOVAB	PERFTABLE[R0], DIDB		
	56	04	A3	D0	000CC	MOVL	4(DIDB), NAME	1587	
	7E	00000000G	00	9A	000D0	MOVZBL	NAME_COL, -(SP)	1588	
			6B42	9F	000D7	PUSHAB	(ROW_OFFSET)[YPOS]		
00000000V	EF		02	FB	000DA	CALLS	#2, POSITION		
			56	DD	000E1	PUSHL	NAME	1589	
00000000V	EF		01	FB	000E3	CALLS	#1, OUTPUT		
	05	10	A3	E9	000EA	BLBC	16(DIDB), 14\$	1590	
	55		02	C0	000EE	ADDL2	#2, I	1591	
			02	11	000F1	BRB	15\$		
			55	D6	000F3	INCL	I	1592	
B4	52	00000000G	8F	F3	000F5	AOBLEQ	#LAST_DATA_LINE, YPOS, 13\$	1568	
	5A	04	A8	9E	000FD	MOVAB	4(R8), R10	1603	
			50	D4	00101	CLRL	R0		
			6A	D5	00103	TSTL	(R10)		
			04	12	00105	BNEQ	17\$		
			50	D6	00107	INCL	R0		
			0A	11	00109	BRB	18\$		
	03	00000000G	00	E9	0010B	BLBC	DISPLAYING, 18\$		
			014D	31	00112	BRW	32\$		
	18		50	E9	00115	BLBC	R0, 19\$	1608	
04	AE	00000000G	8F	D0	00118	MOVL	#FAOCTR_SIZE, FAOCSIZE	1611	
			5A	DD	00120	PUSHL	R10	1612	
		08	AE	9F	00122	PUSHAB	FAOCSIZE		
00000000G	00		02	FB	00125	CALLS	#2, LIB\$GET_VM		
	01		50	E8	0012C	BLBS	STATUS, 19\$	1613	
			04	0012F	RET				
	56		6A	D0	00130	MOVL	(R10), POINTER	1616	
		42	A8	95	00133	TSTB	66(R8)	1618	
			0F	13	00136	BEQL	20\$		
03	44	50	00000000G	00	D0	00138	MOVL	MRBPTR, R0	
			03	E0	0013F	BBS	#3, 68(R0), 20\$		
			0099	31	00144	BRW	28\$		
09	4C	A8	03	E1	00147	BBC	#3, 76(R8), 21\$	1624	
		50	00000000G	8F	D0	0014C	MOVL	#WIDE_NAME_SIZE, COL_OFFSET	1625
			07	11	00153	BRB	22\$		
		50	00000000G	8F	D0	00155	MOVL	#MAX_NAME_SIZE, COL_OFFSET	1626
		51	00000000G	00	9A	0015C	MOVZBL	NAME_COL, R1	1627
6E		51		50	C1	00163	ADDL3	COL_OFFSET, R1, XPOS	
			41	A8	94	00167	CLRB	65(R8)	1628
		50	00000000G	00	D0	0016A	MOVL	MRBPTR, R0	1630
09	44	A0	03	E1	00171	BBC	#3, 68(R0), 23\$		
		59	00000000G	00	9E	00176	MOVAB	MF\$UMSTR, CUR_TABSTR	1631
			14	11	0017D	BRB	25\$		
		09	45	A8	E9	0017F	BLBC	69(R8), 24\$	1632
		59	00000000'	EF	9E	00183	MOVAB	TABSTR_PC, CUR_TABSTR	1633


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                                0000 00000 POSITION:
                                00000000G 7E      04  AC 7D 00002      .WORD      Save nothing      : 1735
                                00000000G 00      02  FB 00006      MOVQ     YPOS, -(SP)      : 1754
                                00000000G 00      04  0000D      CALLS   #2, $CR$SET_CURSOR : 1755
                                00000000G 00      04  0000D      RET

```

; Routine Size: 14 bytes. Routine Base: \$CODE\$ + 027D

```

: 628      1756 1
: 629      1757 1
: 630      1758 1 END      !End of module
: 631      1759 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	147	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	436	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	651	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	5	0	1000	00:01.9

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:TEMPLATE/OBJ=OBJ\$:TEMPLATE MSRC\$:TEMPLATE/UPDATE=(ENHS:TEMPLATE)

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: Size:      651 code + 583 data bytes
: Run Time:  00:33.4
: Elapsed Time: 01:07.0
: Lines/CPU Min: 3157

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TEMPLATE
V04-000

: Lexemes/CPU-Min: 40116
: Memory Used: 351 pages
: Compilation Complete

8 6
16-Sep-1984 02:18:37

VAX-11 Bliss-32 V4.0-742

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