

```

EEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFFFFFFFFFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFFFFFFFFFF
EEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFFFFFFFFFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEE              RRR      RRR  FFF
EEEEEEEEEEEEEEEE RRR      RRR  FFF
EEEEEEEEEEEEEEEE RRR      RRR  FFF
EEEEEEEEEEEEEEEE RRR      RRR  FFF

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```
1 0001 0 MODULE RECSELECT
2 0002 0 (%TITLE 'Entry Validation'
3 0003 0 IDENT = 'V04-000') =
4 0004 0
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
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28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 **
32 0032 1 FACILITY: ERF, Error Log Report Generator
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This routine will determine if the previously read entry
37 0037 1 meets user specified selection criteria.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 VAX/VMS operating system, user mode.
42 0042 1
43 0043 1 AUTHOR: Sharon Reynolds, CREATION DATE: January 1983
44 0044 1
45 0045 1 Modified by:
46 0046 1
47 0047 1 V03-022 EAD0179 Elliott A. Drayton 6-Jul-1984
48 0048 1 Obtain LSTLUN value from SYECOM.
49 0049 1
50 0050 1 V03-023 SAR0274 Sharon A. Reynolds 19-Jun-1984
51 0051 1 - Added another check for device selection and entry
52 0052 1 selection combinations to fix a bug with
53 0053 1 /INC=(MF,VOLUME) and /INC=(TAPE,VOLUME).
54 0054 1
55 0055 1 V03-022 EAD0179 Elliott A. Drayton 23-May-1984
56 0056 1 Correct the passing of the address of device name
57 0057 1 in VERIFY_DEVICE.
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58	0058	1	
59	0059	1	
60	0060	1	V03-021 SAR0267 Sharon A. Reynolds 15-May-1984
61	0061	1	- Updated VERIFY_DEVICE to support longer device names.
62	0062	1	- Added check for unknown entry output to replace code
63	0063	1	that was previously removed.
64	0064	1	
65	0065	1	V03-020 SAR0254 Sharon A. Reynolds 23-Apr-1984
66	0066	1	Added flag to /before check to stop execution when
67	0067	1	last entry found.
68	0068	1	
69	0069	1	V03-019 EAD0151 Elliott A. Drayton 14-Apr-1984
70	0070	1	Fixed structure names in VERIFY_DEVICE.
71	0071	1	
72	0072	1	V03-018 EAD0141 Elliott A. Drayton 12-Apr-1984
73	0073	1	Removed reference to EMBETDEF.
74	0074	1	
75	0075	1	V03-017 SAR0248 Sharon A. Reynolds 10-Apr-1984
76	0076	1	Moved the unknown keyword tests to the verify entry
77	0077	1	routine so it would go through same tests as any
78	0078	1	other /include or /exclude entry selection.
79	0079	1	
80	0080	1	V03-016 SAR0245 Sharon A. Reynolds 4-Apr-1984
81	0081	1	Added EMB\$LOGMSP to device type entry table.
82	0082	1	
83	0083	1	V03-015 EAD0119 Elliott A. Drayton 23-Mar-1984
84	0084	1	Remove support for /UNKNOWN qualifier and added support
85	0085	1	for the UNKNOWN keyword.
86	0086	1	
87	0087	1	V03-014 EAD0115 Elliott A. Drayton 9-Mar-1984
88	0088	1	Removed emb_buf and syecom_buf.
89	0089	1	
90	0090	1	V03-013 SAR0189 Sharon A. Reynolds, 13-Feb-1984
91	0091	1	- Added 'CS' device name support to device table search
92	0092	1	routine.
93	0093	1	- Added additional test for entry summary update.
94	0094	1	
95	0095	1	V03-012 SAR0184 Sharon A. Reynolds, 17-Jan-1984
96	0096	1	- Fixed a bug in the output of the erf_unkentry message.
97	0097	1	- Added code to set the end value indicator when
98	0098	1	the last selected entry (/entry) is found.
99	0099	1	
100	0100	1	V03-011 SAR0181 Sharon A. Reynolds, 13-Dec-1983
101	0101	1	- Remove descriptor references.
102	0102	1	- Add device attention keyword support.
103	0103	1	- Add lm/sp entries to device errors entry list.
104	0104	1	- Add lm/sp entry check for bus class selections.
105	0105	1	- Removed logmessage keyword.
106	0106	1	- Add unsolicited_mscp keyword support.
107	0107	1	- Added incomplete entry message.
108	0108	1	
109	0109	1	V03-010 SAR0176 Sharon A. Reynolds, 21-Nov-1983
110	0110	1	- Removed un-necessary check for outputting all
111	0111	1	entries.
112	0112	1	- Changed reference to report type.
113	0113	1	
114	0114	1	V03-009 SAR0152 Sharon A. Reynolds, 7-Oct-1983
			- Added code to output informational messages when

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115 0115 1 and unknown entry is encountered.
116 0116 1 - Added the code that counts intervening logmessage
117 0117 1 logstatus entries.
118 0118 1 - Re-structured the /include and /exclude entry
119 0119 1 checks to fix a bug.
120 0120 1 - Made /includ=disks/exclude=db1 a valid command.
121 0121 1
122 0122 1 V03-008 SAR0139 Sharon A. Reynolds, 20-Sep-1983
123 0123 1 Fixed a bug in mount/dismount output. Fixed an out
124 0124 1 of range loop.
125 0125 1
126 0126 1 V03-007 SAR0122 Sharon A. Reynolds, 23-Aug-1983
127 0127 1 Re-wrote translate_class routine for use with the
128 0128 1 permanent device tables.
129 0129 1
130 0130 1 V03-006 SAR0032 Sharon A. Reynolds, 2-Jun-1983
131 0131 1 Replaced emb_stuf with emb_buf definitions. Fixed bug
132 0132 1 in dc$_bus selection.
133 0133 1
134 0134 1 V03-005 SAR0029 Sharon A. Reynolds, 11-May-1983
135 0135 1 Removed support for logstatus keyword.
136 0136 1
137 0137 1 V03-004 SAR0013 Sharon A. Reynolds, 18-Apr-1983
138 0138 1 Deleted the log message and status message entries
139 0139 1 from the 'control' table. Added call to update
140 0140 1 entry summaries.
141 0141 1
142 0142 1 V03-003 SAR0003 Sharon A. Reynolds, 5-Apr-1983
143 0143 1 Removed the volume_output flag definition. Changed
144 0144 1 any references to volume_output flag so they refer
145 0145 1 to it from SYECOM.
146 0146 1
147 0147 1 V03-002 SAR0002 Sharon A. Reynolds, 5-Apr-1983
148 0148 1 Fixed /exclude selection bug.
149 0149 1
150 0150 1 V03-001 SAR0001 Sharon A. Reynolds, 29-Mar-1983
151 0151 1 Fixed /include='device name', volume mount/dismount
152 0152 1 selection problem.
153 0153 1
154 0154 1 --
155 0155 1
156 0156 1
157 0157 1
158 0158 1 Required files
159 0159 1
160 0160 1 REQUIRE 'SRCS:ERFDEF.REQ' ; ! ERF defintions
161 0446 1 REQUIRE 'LIB$:PARSERDAT.R32' ; ! ERF parser data definitions
162 0600 1 REQUIRE 'SRCS:RECSELDEF.REQ' ; ! EMB, SYECOM, LOGMSG, LOGSTS, and
163 0731 1 ! VOLMOUNT field defintions
164 0732 1
165 0733 1
166 0734 1 Table of contents
167 0735 1
168 0736 1
169 0737 1 FORWARD ROUTINE
170 0738 1 Record_selected, ! Verify entry against selections
171 0739 1 Verify_entry, ! Verify the entry type

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: 172      0740 1      Device_type_entry,      ! Determine if it's a device type entry
: 173      0741 1      Verify_device_class,    ! Verify the device class
: 174      0742 1      Verify_device,      ! Verify the device name
: 175      0743 1      Translate_class ;      ! Translate device class to a name
: 176      0744 1
: 177      0745 1
: 178      0746 1      ! Declare external routines
: 179      0747 1
: 180      0748 1      EXTERNAL ROUTINE
: 181      0749 1      Exec_image,      ! Execute an image
: 182      0750 1      Intervene_increment,
: 183      0751 1      Intervene_output,
: 184      0752 1      Search_queue: addressing_mode (general) , ! Search queue of devices selected
: 185      0753 1      Validate_packet;      ! Is the packet validate for the cpu it was logged on.
: 186      0754 1
: 187      0755 1
: 188      0756 1      ! Declare external literals
: 189      0757 1
: 190      0758 1      EXTERNAL LITERAL
: 191      0759 1      Erf_incentry,
: 192      0760 1      Erf_unkclass,
: 193      0761 1      Erf_unkcpu,
: 194      0762 1      Erf_unkentry,
: 195      0763 1      Erf_unktype ;
: 196      0764 1
: 197      0765 1
: 198      0766 1      ! Declare external data.
: 199      0767 1
: 200      0768 1      EXTERNAL
: 201      0769 1      Class_dir:      REF $BBLOCK,
: 202      0770 1      Device_class,
: 203      0771 1      Device_type,
: 204      0772 1      Emb:      $BBLOCK PSECT (EMB),
: 205      0773 1      Exclude_flag,
: 206      0774 1      Exclude_mask:      REF $BBLOCK,
: 207      0775 1      Include_mask:      REF $BBLOCK,
: 208      0776 1      Option_flag:      REF $BBLOCK,
: 209      0777 1      Parser_data:      REF $BBLOCK,
: 210      0778 1      Processor_type,
: 211      0779 1      Summary_dispatcher_addr,
: 212      0780 1      Summary_flag:      REF $BBLOCK,
: 213      0781 1      Syecom:      $BBLOCK PSECT (SYECOM),
: 214      0782 1      Unknown_entry ;
: 215      0783 1
: 216      0784 1
: 217      0785 1      ! Declare literal definitions
: 218      0786 1
: 219      0787 1      LITERAL
: 220      0788 1      Incomplete_entry = 128 ;
: 221      0789 1
: 222      0790 1
: 223      0791 1      ! Own storage definitions
: 224      0792 1
: 225      0793 1      OWN
: 226      0794 1      Lstlun.      Long,
: 227      0795 1      Dev_selection_required: BYTE,
: 228      0796 1      Device_status:      BYTE,

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: 229 0797 1 Dev_cls_status: BYTE,
: 230 0798 1 Dev_type_entry_sts: BYTE,
: 231 0799 1 Entry_status: BYTE,
: 232 0800 1 Validate_pkt_sts: Initial (false),
: 233 0801 1 Bugchks: VECTOR [3,byte,unsigned] ! Bugcheck type entries
: 234 0802 1 Initial (byte
: 235 0803 1 (EMBSK_CR, ! Crash
: 236 0804 1 EMBSK_SBC, ! System bugchecks
: 237 0805 1 EMBSK_UBC)), ! User bugchecks
: 238 0806 1
: 239 0807 1 Control: VECTOR [7,byte,unsigned] ! Control type entries
: 240 0808 1 Initial (byte
: 241 0809 1 (EMBSK_CS, ! Cold re-start
: 242 0810 1 EMBSK_NF, ! New file created
: 243 0811 1 EMBSK_WS, ! Warm re-start
: 244 0812 1 EMBSK_TS, ! Time stamp
: 245 0813 1 EMBSK_SS, ! System service message
: 246 0814 1 EMBSK_OM, ! Operator message
: 247 0815 1 EMBSK_NM)), ! Network message
: 248 0816 1
: 249 0817 1 Cpu: VECTOR [8,byte,unsigned] ! Cpu type entries
: 250 0818 1 Initial (byte
: 251 0819 1 (EMBSK_AW, ! Asynchronous write error
: 252 0820 1 EMBSK_OBA, ! Unibus adapter error
: 253 0821 1 EMBSK_MBA, ! Massbus adapter error
: 254 0822 1 EMBSK_UI, ! Undefined interrupt
: 255 0823 1 EMBSK_BE, ! Bus error
: 256 0824 1 EMBSK_SA, ! SBI alert
: 257 0825 1 EMBSK_SI, ! 11/750 fault thru SBI vector
: 258 0826 1 EMBSK_UE)), ! 11/730 unibus error
: 259 0827 1
: 260 0828 1 Dev_errors: VECTOR [3,byte,unsigned] ! Device error entries
: 261 0829 1 Initial (byte
: 262 0830 1 (EMBSK_DE, ! Device Errors
: 263 0831 1 EMBSK_SP, ! Logstatus entries (mscp)
: 264 0832 1 EMBSK_LM)), ! Logmessage entries (mscp)
: 265 0833 1
: 266 0834 1 Memorys: VECTOR [2,byte,unsigned] ! Memory entries
: 267 0835 1 Initial (byte
: 268 0836 1 (EMBSK_SE, ! Soft ECC error
: 269 0837 1 EMBSK_RE)), ! Hard ECC error
: 270 0838 1
: 271 0839 1 Volume: VECTOR [2,byte,unsigned] ! Volume change entries
: 272 0840 1 Initial (byte
: 273 0841 1 (EMBSK_VM, ! Volume mounts
: 274 0842 1 EMBSK_VD)); ! Volume dismounts
: 275 0843 1

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277 0844 1 GLOBAL ROUTINE RECORD_SELECTED =
278 0845 2 Begin
279 0846
280 0847 2 ++
281 0848 2
282 0849 2 : Functional Description:
283 0850 2
284 0851 2 This routine will determine what selection qualifiers are
285 0852 2 specified and match the appropriate fields in the current
286 0853 2 entry against the selections. It return TRUE if the
287 0854 2 current entry matches or return FALSE if the current entry
288 0855 2 does NOT match.
289 0856 2
290 0857 2 Calling sequence:
291 0858 2
292 0859 2 RECORD_SELECTED ()
293 0860 2
294 0861 2 Input parameters:
295 0862 2
296 0863 2 None
297 0864 2
298 0865 2 Output parameters:
299 0866 2
300 0867 2 None
301 0868 2
302 0869 2 --
303 0870 2
304 0871 2 LOCAL
305 0872 2 Include_status: BYTE
306 0873 2 Initial (true),
307 0874 2 Exclude_status: BYTE
308 0875 2 Initial (true) ;
309 0876 2
310 0877 2 lstlun = .syecom [syel_lstlun];
311 0878 2
312 0879 2 :
313 0880 2 : Validate the packet for entry/cpu type and device class/type.
314 0881 2 :
315 0882 3 If NOT (VALIDATE_PACKET ())
316 0883 2 Then
317 0884 2 Unknown_entry = true
318 0885 2 Else
319 0886 2 Unknown_entry = false ;
320 0887 2
321 0888 2 :
322 0889 2 : Determine if /summary selected and update that entry summary
323 0890 2 : information.
324 0891 2 :
325 0892 3 If (.option_flag[opt$summary_qual] AND
326 0893 4 (.summary_flag[sum$entry] OR
327 0894 4 .summary_flag[sum$all_summ] OR
328 0895 3 .summary_flag[sum$histogram]))
329 0896 2 Then
330 0897 2 Exec_image (summary_dispatcher_addr,lstlun,%REF(entry_summ_upd)) ;
331 0898 2
332 0899 2 :
333 0900 2 : If incomplete entry report the error.

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334 0901 2 |
335 0902 3 | if ((NOT .syecom[sye$b_valid_entry]) AND
336 0903 3 | (.emb[emb$w_hd_entry] GEQ incomplete_entry))
337 0904 2 | Then
338 0905 3 | Begin
339 0906 3 | Signal (erf incentry, 1, .emb[emb$w_hd_entry]);
340 0907 3 | Return false;
341 0908 2 | End;
342 0909 2 |
343 0910 2 |
344 0911 2 | Determine whether the volume mounts/dismounts should be output or just
345 0912 2 | label information saved from the entry.
346 0913 2 |
347 0914 3 | if (.exclude_mask[exc$v_volume] AND
348 0915 4 | (.include_mask[inc$v_device_select] OR
349 0916 4 | .include_mask[inc$v_dev_class_select] OR
350 0917 4 | .include_mask[inc$v_dev_attentions] OR
351 0918 4 | .include_mask[inc$v_dev_errors] OR
352 0919 2 | .include_mask[inc$v_dev_timeouts])) AND
353 0920 3 | (NOT .include_mask[inc$v_volume] OR
354 0921 3 | NOT .option_flag[opt$v_output_all])
355 0922 2 | Then
356 0923 2 |
357 0924 2 | Indicate that volume mount/dismount entries
358 0925 2 | should not be output.
359 0926 2 |
360 0927 2 | Syecom[sye$b_volume_output] = false
361 0928 2 | Else
362 0929 2 | Syecom[sye$b_volume_output] = true ;
363 0930 2 |
364 0931 2 |
365 0932 2 | Determine if the /ENTRY qualifier was specified.
366 0933 2 |
367 0934 2 | if .option_flag[opt$v_entry_qual]
368 0935 2 | Then
369 0936 2 |
370 0937 2 | /Entry specified, get the address of the entry selection
371 0938 2 | data and determine if the number of this entry
372 0939 2 | is within the selected range.
373 0940 2 |
374 0941 3 | Begin
375 0942 3 | If .syecom[sye$l_recnt] LSSU .parser_data[erl$l_end_entry]
376 0943 3 | Then
377 0944 3 |
378 0945 3 | This entry should be within the selected range, ensure
379 0946 3 | the entry number is greater than the starting entry selection.
380 0947 3 |
381 0948 4 | Begin
382 0949 5 | If NOT (.syecom[sye$l_recnt] GEQU .parser_data[erl$l_start_entry])
383 0950 4 | Then
384 0951 4 |
385 0952 4 | Entry is NOT within the selected range, return to calling
386 0953 4 | routine.
387 0954 4 |
388 0955 4 | Return false ;
389 0956 4 | End
390 0957 3 | Else

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```
391 0958 3
392 0959 3
393 0960 3
394 0961 3
395 0962 4
396 0963 4
397 0964 4
398 0965 4
399 0966 4
400 0967 4
401 0968 4
402 0969 4
403 0970 4
404 0971 3
405 0972 2
406 0973 2
407 0974 2
408 0975 2
409 0976 2
410 0977 2
411 0978 2
412 0979 2
413 0980 2
414 0981 2
415 0982 2
416 0983 3
417 P 0984 3
418 0985 4
419 0986 4
420 0987 3
421 0988 3
422 0989 3
423 0990 3
424 0991 4
425 0992 4
426 0993 4
427 0994 3
428 0995 2
429 0996 2
430 0997 2
431 0998 2
432 0999 2
433 1000 2
434 1001 2
435 1002 2
436 1003 2
437 1004 2
438 1005 2
439 1006 3
440 P 1007 3
441 1008 4
442 1009 4
443 1010 4
444 1011 4
445 1012 4
446 1013 4
447 1014 3

      Entry is NOT within the selected range, return to calling
      routine.
      Begin
      If .syecom[sye$l_recnt] GEQU .parser_data[er($l_end_entry)]
      Then
          Indicate that last selected entry was found.
          Syecom[sye$b_end_value] = true ;
      Return true ;
      End ;
End ;

      Determine if the /BEFORE qualifier was specified.
      If .option_flag[opt$v_before_qual]
      Then
          Determine if the date/time that this entry was recorded falls
          within the range of selected date/times.
          Begin
          If COMPARE_QUAD(emb[emb$q_hd_time], GEQU,
              parser_data[er($q_end_date)])
          Then
              This entry is NOT within the selected date/time range,
              return to the calling routine.
          Begin
          Syecom[sye$b_end_value] = true ;
          Return true ;
          End ;
          End ;

      Determine if the /SINCE qualifier was specified.
      If .option_flag[opt$v_since_qual]
      Then
          Ensure that the entry date/time is greater than the starting
          time/date selection.
          Begin
          If NOT COMPARE_QUAD(emb[emb$q_hd_time], GEQU,
              parser_data[er($q_start_date)])
          Then
              The entry does NOT meet that selection criteria for date/time,
              return to the calling routine.
          Return false ;
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448      1015      2      End ;
449      1016      2
450      1017      2
451      1018      2      : Determine if the /SID_REGISTER qualifier was specified.
452      1019      2
453      1020      2      If .option_flag[opt$V_sid_reg_qual]
454      1021      2      Then
455      1022      2
456      1023      2      : Determine if the entry sid matches t : selected sid.
457      1024      2
458      1025      2      Begin
459      1026      2      If NOT .parser_data[erl$l_sid_selection] EQLU .emb[emb$l_hd_sid]
460      1027      2      Then
461      1028      2
462      1029      2      : Entry sid does NOT match selected sid, return to calling
463      1030      2      routine.
464      1031      2
465      1032      2      Return false ;
466      1033      2      End ;
467      1034      2
468      1035      2      Device_status = false ;
469      1036      2      Dev_cls_status = false ;
470      1037      2      Entry_status = false ;
471      1038      2
472      1039      2      Dev_type_entry_sts = DEVICE_TYPE_ENTRY ( ) ;
473      1040      2
474      1041      2      If .option_flag[opt$V_include_qual]
475      1042      2      Then
476      1043      2      Begin
477      1044      2      Exclude_flag = false ;
478      1045      2
479      1046      2      If .dev_type_entry_sts OR
480      1047      2      (.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
481      1048      2      (.emb[emb$w_hd_entry] EQLU EMB$K_VD)
482      1049      2      Then
483      1050      2      Begin
484      1051      2      If .include_mask[inc$V_device_select]
485      1052      2      Then
486      1053      2      Begin
487      1054      2      If VERIFY_DEVICE ( )
488      1055      2      Then
489      1056      2      Device_status = true
490      1057      2      Else
491      1058      2      Device_status = false ;
492      1059      2      End ;
493      1060      2
494      1061      2      If .include_mask[inc$V_dev_class_select]
495      1062      2      Then
496      1063      2      Begin
497      1064      2      If VERIFY_DEVICE_CLASS ( )
498      1065      2      Then
499      1066      2      Dev_cls_status = true
500      1067      2      Else
501      1068      2      Dev_cls_status = false ;
502      1069      2      End ;
503      1070      2      End ;
504      1071      2

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: 505      1072 3      If .include_mask[inc$V_entry_select]
: 506      1073 3      Then
: 507      1074 4      Begin
: 508      1075 4      If VERIFY_ENTRY ()
: 509      1076 4      Then
: 510      1077 4      Entry_status = true
: 511      1078 4      Else
: 512      1079 4      Entry_status = false ;
: 513      1080 3      End ;
: 514      1081 3
: 515      1082 3
: 516      1083 4      If (.include_mask[inc$V_device_select] AND
: 517      1084 3      .dev_type_entry_sts AND .device_status) OR
: 518      1085 3
: 519      1086 4      (.include_mask[inc$V_dev_class_select] AND
: 520      1087 3      .dev_type_entry_sts AND .dev_c[status]) OR
: 521      1088 3
: 522      1089 4      (.include_mask[inc$V_entry_select] AND .entry_status)
: 523      1090 3      Then
: 524      1091 3      Include_status = true
: 525      1092 3      Else
: 526      1093 3      Include_status = false ;
: 527      1094 3
: 528      1095 3
: 529      1096 3      If .include_mask[inc$V_device_select] AND
: 530      1097 3      .include_mask[inc$V_entry_select]
: 531      1098 3      Then
: 532      1099 4      Begin
: 533      1100 4      Include_status = false ;
: 534      1101 4
: 535      1102 4      If .dev_selection_required
: 536      1103 4      Then
: 537      1104 5      Begin
: 538      1105 5      If (.entry_status AND .device_status) OR
: 539      1106 6      (.dev_type_entry_sts AND .device_status)
: 540      1107 5      Then
: 541      1108 5      Include_status = true ;
: 542      1109 5      End
: 543      1110 4      Else
: 544      1111 5      Begin
: 545      1112 5      If .dev_type_entry_sts AND .device_status
: 546      1113 5      Then
: 547      1114 6      Begin
: 548      1115 6      Include_status = true ;
: 549      1116 6      End
: 550      1117 5      Else
: 551      1118 6      Begin
: 552      1119 7      If (NOT .dev_type_entry_sts AND .entry_status)
: 553      1120 6      Then
: 554      1121 6      Include_status = true ;
: 555      1122 5      End ;
: 556      1123 4      End ;
: 557      1124 3      End ;
: 558      1125 3
: 559      1126 3      If .include_mask[inc$V_dev_class_select] AND
: 560      1127 3      .include_mask[inc$V_entry_select]
: 561      1128 3      Then

```

```

562 1129 4 Begin
563 1130 4 Include_status = false ;
564 1131 4
565 1132 4 If .dev_selection_required
566 1133 4 Then
567 1134 5 Begin
568 1135 5 If (.entry_status AND .dev_cls_status) OR
569 1136 6 (.dev_type_entry_sts AND .dev_cls_status)
570 1137 5 Then
571 1138 5 Include_status = true ;
572 1139 5 End
573 1140 4 Else
574 1141 5 Begin
575 1142 5 If .dev_type_entry_sts AND .dev_cls_status
576 1143 5 Then
577 1144 6 Begin
578 1145 6 Include_status = true ;
579 1146 6 End
580 1147 5 Else
581 1148 6 Begin
582 1149 7 If (NOT .dev_type_entry_sts AND .entry_status)
583 1150 6 Then
584 1151 6 Include_status = true ;
585 1152 5 End ;
586 1153 4 End ;
587 1154 4 End ;
588 1155 4
589 1156 2 End ;
590 1157 2
591 1158 2
592 1159 2 ; If not /include option then include_status = false
593 1160 2
594 1161 2
595 1162 2 If .option_flag[opt$exclude_qual]
596 1163 2 Then
597 1164 2 Begin
598 1165 2 Exclude_flag = true ;
599 1166 2
600 1167 3 If .dev_type_entry_sts OR
601 1168 3 (.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
602 1169 4 (.emb[emb$w_hd_entry] EQLU EMB$K_VD)
603 1170 3 Then
604 1171 4 Begin
605 1172 4 If .exclude_mask[exc$v_device_select]
606 1173 4 Then
607 1174 5 Begin
608 1175 5 If VERIFY_DEVICE ( )
609 1176 5 Then
610 1177 5 Device_status = true
611 1178 5 Else
612 1179 5 Device_status = false ;
613 1180 4 End ;
614 1181 4
615 1182 4 If .exclude_mask[exc$v_dev_class_select]
616 1183 4 Then
617 1184 5 Begin
618 1185 5 If VERIFY_DEVICE_CLASS ( )

```

```
619      1186      5      Then
620      1187      5      Dev_cls_status = true
621      1188      5      Else
622      1189      5      Dev_cls_status = false ;
623      1190      5      End ;
624      1191      5      End ;
625      1192      5
626      1193      5      If .exclude_mask[exc$v_entry_select]
627      1194      5      Then
628      1195      5      Begin
629      1196      5      If VERIFY_ENTRY ()
630      1197      5      Then
631      1198      5      Entry_status = true
632      1199      5      Else
633      1200      5      Entry_status = false ;
634      1201      5      End ;
635      1202      5
636      1203      5      If (.exclude_mask[exc$v_device_select] AND
637      1204      5      .dev_type_entry_sts AND .device_status) OR
638      1205      5      (.exclude_mask[exc$v_dev_class_select] AND
639      1206      5      .dev_type_entry_sts AND .dev_c[s_status] OR
640      1207      5      (.exclude_mask[exc$v_entry_select] AND .entry_status)
641      1208      5      Then
642      1209      5      Exclude_status = false
643      1210      5      Else
644      1211      5      Exclude_status = true ;
645      1212      5
646      1213      5      If .exclude_mask[exc$v_device_select] AND
647      1214      5      .exclude_mask[exc$v_entry_select]
648      1215      5      Then
649      1216      5      Begin
650      1217      5      Exclude_status = true ;
651      1218      5
652      1219      5      If .dev_selection_required
653      1220      5      Then
654      1221      5      Begin
655      1222      5      If (.entry_status AND .device_status) OR
656      1223      5      (.dev_type_entry_sts AND .device_status)
657      1224      5      Then
658      1225      5      Exclude_status = false ;
659      1226      5      End
660      1227      5      Else
661      1228      5      Begin
662      1229      5      If .dev_type_entry_sts AND .device_status
663      1230      5      Then
664      1231      5      Begin
665      1232      5      Exclude_status = false ;
666      1233      5      End
667      1234      5      Else
668      1235      5      Begin
669      1236      5      If (NOT .dev_type_entry_sts AND .entry_status)
670      1237      5      Then
671      1238      5      Exclude_status = false ;
672      1239      5      End ;
673      1240      5
674      1241      5
675      1242      5
```

```

: 676 1243 4      End ;
: 677 1244 4      End ;
: 678 1245 4
: 679 1246 4      If .exclude_mask[exc$v_dev_class_select] AND
: 680 1247 4      .exclude_mask[exc$v_entry_select]
: 681 1248 4      Then
: 682 1249 4      Begin
: 683 1250 4      Exclude_status = true ;
: 684 1251 4
: 685 1252 4      If .dev_selection_required
: 686 1253 4      Then
: 687 1254 4      Begin
: 688 1255 4      If (.entry_status AND .dev_cls_status) OR
: 689 1256 6      (.dev_type_entry_sts AND .dev_cls_status)
: 690 1257 4      Then
: 691 1258 4      Exclude_status = false ;
: 692 1259 4      End
: 693 1260 4      Else
: 694 1261 4      Begin
: 695 1262 4      If .dev_type_entry_sts AND .dev_cls_status
: 696 1263 4      Then
: 697 1264 6      Begin
: 698 1265 6      Exclude_status = false ;
: 699 1266 6      End
: 700 1267 4      Else
: 701 1268 6      Begin
: 702 1269 7      If (NOT .dev_type_entry_sts AND .entry_status)
: 703 1270 6      Then
: 704 1271 6      Exclude_status = false ;
: 705 1272 4      End ;
: 706 1273 4      End ;
: 707 1274 4      End ;
: 708 1275 4
: 709 1276 2      End ;      ! of /exclude processing
: 710 1277 2
: 711 1278 2      IF /exclude option match, exclude_status = false.
: 712 1279 2
: 713 1280 2
: 714 1281 2
: 715 1282 2
: 716 1283 2      Determine whether to count logmessage/logstatus entries.
: 717 1284 2
: 718 1285 3      If ( (.include_status) AND (.exclude_status) AND
: 719 1286 3      (.parser_data[erl$b_rpt_type] EQL full_rep) )
: 720 1287 2      Then
: 721 1288 2
: 722 1289 2      Determine if it was a logmessage/logstatus entry.
: 723 1290 2
: 724 1291 2      Begin
: 725 1292 3      If (.emb[emb$w_hd_entry] EQLU EMB$C SP) OR
: 726 1293 3      (.emb[emb$w_hd_entry] EQLU EMB$C_LM)
: 727 1294 2      Then
: 728 1295 2
: 729 1296 2      Count the number of logmessage/logstatus entries
: 730 1297 2      that might be skipped.
: 731 1298 2
: 732 1299 3      INTERVENE_INCREMENT (lstlun)

```

```

733      1300      2 Else
734      1301      2
735      1302      2 Determine whether to output the logstatus/logmessage
736      1303      2 intervening message and if necessary output it.
737      1304      2
738      1305      2 INTERVENE_OUTPUT (lstlun) ;
739      1306      2 End ;
740      1307      2
741      1308      2
742      1309      2 Determine if the entry met the selection criteria.
743      1310      2
744      1311      2 Determine if this is an unknown entry.
745      1312      2
746      1313      2 if .unknown_entry
747      1314      2 Then
748      1315      2     Indicate that this is an unknown entry and return with a
749      1316      2     true value so that it will be output.
750      1317      2
751      1318      2     Return true ;
752      1319      2
753      1320      2 If (NOT .include_status) OR
754      1321      2     (NOT .exclude_status)
755      1322      2 Then
756      1323      2
757      1324      2     Indicate that the entry should not be output by
758      1325      2     returning to the calling routine with a false value.
759      1326      2
760      1327      2     Return false ;
761      1328      2
762      1329      2
763      1330      2     Indicate that the entry should be output by
764      1331      2     returning to the calling routine with a true value.
765      1332      2
766      1333      2     Return true ;
767      1334      2
768      1335      1 End ; ! Routine

```

.TITLE RECSELECT Entry Validation  
.IDENT \V04-000\

.PSECT \$OWNS,NOEXE, PIC,2

```

00000 LSTLUN: .BLKB 4
00004 DEV_SELECTION_REQUIRED:
      .BLKB 1
00005 DEVICE_STATUS:
      .BLKB 1
00006 DEV_CLS_STATUS:
      .BLKB 1
00007 DEV_TYPE_ENTRY_STS:
      .BLKB 1
00008 ENTRY_STATUS:
      .BLKB 1
00009
      .BLKB 3
00000000 0000C VALIDATE_PKT_STS:
      .LONG 0

```



				70	28	25	00010	BUGCHKS:	.BYTE	37, 40, 112	:	
							00013		.BLKB	1	:	
	2A	29	27	26	24	23	20	00014	CONTROL:	.BYTE	32, 35, 36, 38, 39, 41, 42	:
								0001B		.BLKB	1	:
OB	OA	05	04	61	0C	09	07	0001C	CPU:	.BYTE	7, 9, 12, 97, 4, 5, 10, 11	:
				64	63	01		00024	DEV_ERRORS:			:
									.BYTE	1, 99, 100	:	
								00027		.BLKB	1	:
					08	06		00028	MEMORYS:	.BYTE	6, 8	:
								0002A		.BLKB	2	:
				41	40			0002C	VOLUME:	.BYTE	64, 65	:

```
.EXTRN EXEC_IMAGE, INTERVENE_INCREMENT
.EXTRN INTERVENE_OUTPUT
.EXTRN SEARCH_QUEUE, VALIDATE_PACKET
.EXTRN ERF_INCENTRY, ERF_UNKCLASS
.EXTRN ERF_UNKCPU, ERF_UNKENTRY
.EXTRN ERF_UNKTYPE, CLASS_DIR
.EXTRN DEVICE_CLASS, DEVICE_TYPE
.EXTRN EMB, EXCLUDE_FLAG
.EXTRN EXCLUDE_MASK, INCLUDE_MASK
.EXTRN OPTION_FLAG, PARSER_DATA
.EXTRN PROCESSOR_TYPE, SUMMARY_DISPATCHER_ADDR
.EXTRN SUMMARY_FLAG, SYECOM
.EXTRN UNKNOWN_ENTRY
```

.PSECT \$CODE, NOWRT, PIC, 2

CFFC 00000

```
.ENTRY RECORD_SELECTED, Save R2,R3,R4,R5,R6,R7,R8,-; 0844
R9,R10,R11
MOVAB PARSER_DATA, R11
MOVAB EXCLUDE_MASK, R10
MOVAB OPTION_FLAG, R9
MOVAB SYECOM+24, R8
MOVAB INCLUDE_MASK, R7
MOVAB EMB+4, R6
MOVAB ENTRY_STATUS, R5
SUBL2 #4, SP
MOVB #1, INCLUDE_STATUS
MOVB #1, EXCLUDE_STATUS
MOVL SYECOM+39, [STLUN
CALLS #0, VALIDATE_PACKET
BLBS R0, 1$
MOVL #1, UNKNOWN_ENTRY
BRB 2$
CLRL UNKNOWN_ENTRY
MOVL OPTION_FLAG, R0
BBC #14, (R0), 4$
MOVL SUMMARY_FLAG, R0
BBS #2, (R0), 3$
BLBS (R0), 3$
BBC #5, (R0), 4$
MOVL #5, (SP)
PUSHL SP
PUSHAB STLUN
PUSHAB SUMMARY_DISPATCHER_ADDR
CALLS #3, EXEC_IMAGE
```

								00	9E	00002		
								00	9E	00009		
								00	9E	00010		
								00	9E	00017		
								00	9E	0001E		
								00	9E	00025		
								00	9E	0002C		
								04	C2	00033		
								01	90	00036		
								01	90	00039		
	F8				OF		A8	D0	0003C			
	00000000G						00	FB	00041			
								50	E8	00048		
	00000000G						00	01	D0	0004B		
								06	11	00052		
								00	D4	00054	1\$:	
								69	D0	0005A	2\$:	
27							50	0E	E1	0005D		
								00	D0	00061		
07							50	00000000G	00	D0	00061	
								60	E0	00068		
							04		E8	0006C		
15							60		E1	0006F		
							6E		D0	00073	3\$:	
								5E	DD	00076		
								F8	A5	9F	00078	
								00000000G	00	9F	0007B	
	00000000G						00	03	FB	00081		

```
0845
0877
0882
0884
0886
0892
0893
0894
0895
0897
```

	0080	1C	03	A8	E8	00088	4\$:	BLBS	SYECOM+27, 6\$	0902
		8F		66	B1	0008C		CMPW	EMB+4, #128	0903
				15	1F	00091		BLSSU	6\$	
		7E		66	3C	00093		MOVZWL	EMB+4, -(SP)	0906
				01	DD	00096		PUSHL	#1	
	00000000G	00	00000000G	8F	DD	00098		PUSHL	#ERF, INCENTRY	
				03	FB	0009E		CALLS	#3, [IBSSIGNAL	
			02	E9	31	000A5	5\$:	BRW	69\$	0907
		50		6A	DO	000A8	6\$:	MOVL	EXCLUDE MASK, R0	0914
29		60		12	E1	000AB		BBC	#18, (R0), 9\$	
		50		67	DO	000AF		MOVL	INCLUDE MASK, R0	0915
10		60		14	EO	000B2		BBS	#20, (R0), 7\$	
0C		60		15	EO	000B6		BBS	#21, (R0), 7\$	0916
08		60		09	EO	000BA		BBS	#9, (R0), 7\$	0917
04		60		0D	EO	000BE		BBS	#13, (R0), 7\$	0918
		12	02	AC	E9	000C2		BLBC	2(R0), 9\$	0919
		50		67	DO	000C6	7\$:	MOVL	INCLUDE MASK, R0	0920
07		60		12	E1	000C9		BBC	#18, (R0), 8\$	
		50		69	DO	000CD		MOVL	OPTION_FLAG, R0	0921
				60	B5	000D0		TSTW	(R0)	
				04	19	000D2		BLSS	9\$	
				68	94	000D4	8\$:	CLRB	SYECOM+24	0927
				03	11	000D6		BRB	10\$	
		68		01	90	000D8	9\$:	MOVB	#1, SYECOM+24	0929
		52		69	DO	000DB	10\$:	MOVL	OPTION_FLAG, R2	0934
13		62		03	E1	000DE		BBC	#3, (R2), 11\$	
		51	E8	A8	DO	000E2		MOVL	SYECOM, R1	0942
		50		6B	DO	000E6		MOVL	PARSER_DATA, R0	
	19	A0		51	D1	000E9		CMPL	R1, 25(R0)	
				1D	1E	000ED		BGEQU	13\$	
	15	A0		51	D1	000EF		CMPL	R1, 21(R0)	0949
				B0	1F	000F3		BLSSU	5\$	
		1B		62	E9	000F5	11\$:	BLBC	(R2), 14\$	0977
50		6B		05	C1	000F8		ADDL3	#5, PARSER_DATA, R0	0985
		51	06	A6	DO	000FC		MOVL	A+4, R1	
	04	A0		51	D1	00100		CMPL	R1, 4(R0)	
				04	12	00104		BNEQ	12\$	
		60	02	A6	D1	00106		CMPL	A, (R0)	
				07	1F	0010A	12\$:	BLSSU	14\$	
	06	A8		01	90	0010C	13\$:	MOVB	#1, SYECOM+30	0992
			02	7A	31	00110		BRW	68\$	0993
18		62		0D	E1	00113	14\$:	BBC	#13, (R2), 16\$	1000
50		6B		0D	C1	00117		ADDL3	#13, PARSER_DATA, R0	1008
		51	06	A6	DO	0011B		MOVL	A+4, R1	
	04	A0		51	D1	0011F		CMPL	R1, 4(R0)	
				08	12	00123		BNEQ	15\$	
		60	02	A6	D1	00125		CMPL	A, (R0)	
				12	1F	00129		BLSSU	17\$	
				02	11	0012B		BRB	16\$	
				0E	1F	0012D	15\$:	BLSSU	17\$	
0D		62		0C	E1	0012F	16\$:	BBC	#12, (R2), 18\$	1020
		50		6B	DO	00133		MOVL	PARSER_DATA, R0	1026
	FC	A6	01	A0	D1	00136		CMPL	1(R0), -EMB	
				03	13	0013B		BEQL	18\$	
			02	51	31	0013D	17\$:	BRW	69\$	
			FD	A5	B4	00140	18\$:	CLRW	DEVICE_STATUS	1035
				65	94	00143		CLRB	ENTRY_STATUS	1037

00000000V	00	00	FB	00145	CALLS	#0, DEVICE TYPE ENTRY	1039	
FF	A5	50	90	0014C	MOV B	R0, DEV_TYPE_ENTRY_STS		
	50	69	D0	00150	MOVL	OPTION FLAG, -R0	1041	
03	60	06	E0	00153	BBS	#6, (R0), 19\$		
		00F3	31	00157	BRW	41\$		
		00000000G	00	D4	0015A	19\$: CLRL	EXCLUDE FLAG	1044
	0E	FF	A5	E8	00160	BLBS	DEV_TYPE_ENTRY_STS, 20\$	1046
0040	8F		66	B1	00164	CMPW	EMB+4, #64	1047
			07	13	00169	BEQL	20\$	
0041	8F		66	B1	00168	CMPW	EMB+4, #65	1048
			34	12	00170	BNEQ	24\$	
	50		67	D0	00172	20\$: MOVL	INCLUDE_MASK, R0	1051
13	60		14	E1	00175	BBC	#20, (R0), 22\$	
00000000V	00		00	FB	00179	CALLS	#0, VERIFY_DEVICE	1054
	06		50	E9	00180	BLBC	R0, 21\$	
FD	A5		01	90	00183	MOV B	#1, DEVICE_STATUS	1056
			03	11	00187	BRB	22\$	
		FD	A5	94	00189	21\$: CLR B	DEVICE STATUS	1058
	50		67	D0	0018C	22\$: MOVL	INCLUDE_MASK, R0	1061
13	60		15	E1	0018F	BBC	#21, (R0), 24\$	
00000000V	00		00	FB	00193	CALLS	#0, VERIFY_DEVICE_CLASS	1064
	06		50	E9	0019A	BLBC	R0, 23\$	
FE	A5		01	90	0019D	MOV B	#1, DEV_CLS_STATUS	1066
			03	11	001A1	BRB	24\$	
		FE	A5	94	001A3	23\$: CLR B	DEV_CLS_STATUS	1068
	50		67	D0	001A6	24\$: MOVL	INCLUDE_MASK, R0	1072
11	60		16	E1	001A9	BBC	#22, (R0), 26\$	
00000000V	00		00	FB	001AD	CALLS	#0, VERIFY_ENTRY	1075
	05		50	E9	001B4	BLBC	R0, 25\$	
	65		01	90	001B7	MOV B	#1, ENTRY_STATUS	1077
			02	11	001BA	BRB	26\$	
			65	94	001BC	25\$: CLR B	ENTRY STATUS	1079
	50		67	D0	001BE	26\$: MOVL	INCLUDE_MASK, R0	1083
08	60		14	E1	001C1	BBC	#20, (R0), 27\$	
	04	FF	A5	E9	001C5	BLBC	DEV_TYPE_ENTRY_STS, 27\$	1084
	13	FD	A5	E8	001C9	BLBS	DEVICE STATUS, 29\$	
08	60		15	E1	001CD	27\$: BBC	#21, (R0), 28\$	1086
	04	FF	A5	E9	001D1	BLBC	DEV_TYPE_ENTRY_STS, 28\$	1087
	07	FE	A5	E8	001D5	BLBS	DEV_CLS_STATUS, 29\$	
08	60		16	E1	001D9	28\$: BBC	#22, (R0), 30\$	1089
	05		65	E9	001DD	BLBC	ENTRY STATUS, 30\$	
	54		01	90	001E0	29\$: MOV B	#1, INCLUDE_STATUS	1091
			02	11	001E3	BRB	31\$	
			54	94	001E5	30\$: CLR B	INCLUDE STATUS	1093
2F	60		14	E1	001E7	31\$: BBC	#20, (R0), 36\$	1096
2B	60		16	E1	001EB	BBC	#22, (R0), 36\$	1097
			54	94	001EF	CLR B	INCLUDE STATUS	1100
	11	FC	A5	E9	001F1	BLBC	DEV_SELECTION_REQUIRED, 33\$	1102
	04		65	E9	001F5	BLBC	ENTRY STATUS, 32\$	1105
	1B	FD	A5	E8	001F8	BLBS	DEVICE STATUS, 35\$	
	1A	FF	A5	E9	001FC	32\$: BLBC	DEV_TYPE_ENTRY_STS, 36\$	1106
	16	FD	A5	E9	00200	BLBC	DEVICE_STATUS, 36\$	
			11	11	00204	BRB	35\$	1108
	51	FF	A5	9A	00206	33\$: MOVZBL	DEV_TYPE_ENTRY_STS, R1	1112
	07		51	E9	0020A	BLBC	R1, 34\$	
	06	FD	A5	E8	0020D	BLBS	DEVICE STATUS, 35\$	
	06		51	E8	00211	BLBS	R1, 36\$	1119

	03		65	E9	00214	34\$:	BLBC	ENTRY STATUS, 36\$	
	54		01	90	00217	35\$:	MOVB	#1, INCLUDE STATUS	1121
2F	60		15	E1	0021A	36\$:	BBC	#21, (R0), 41\$	1126
2B	60		16	E1	0021E		BBC	#22, (R0), 41\$	1127
			54	94	00222		CLRB	INCLUDE STATUS	1130
	11	FC	A5	E9	00224		BLBC	DEV_SELECTION_REQUIRED, 38\$	1132
	04		65	E9	00228		BLBC	ENTRY STATUS, 37\$	1135
	1B	FE	A5	E8	0022B		BLBS	DEV_CLS STATUS, 40\$	
	1A	FF	A5	E9	0022F	37\$:	BLBC	DEV_TYPE_ENTRY_STS, 41\$	1136
	16	FE	A5	E9	00233		BLBC	DEV_CLS_STATUS, 41\$	
			11	11	00237		BRB	40\$	1138
	50	FF	A5	9A	00239	38\$:	MOVZBL	DEV_TYPE_ENTRY_STS, R0	1142
	07		50	E9	0023D		BLBC	R0, 39\$	
	06	FE	A5	E8	00240		BLBS	DEV_CLS_STATUS, 40\$	
	06		50	E8	00244		BLBS	R0, 41\$	1149
	03		65	E9	00247	39\$:	BLBC	ENTRY STATUS, 41\$	
	54		01	90	0024A	40\$:	MOVB	#1, INCLUDE STATUS	1151
	50		69	D0	0024D	41\$:	MOVL	OPTION FLAG, R0	1162
03	60		04	E0	00250		BBS	#4, (R0), 42\$	
			00F4	31	00254		BRW	64\$	
00000000G	00		01	D0	00257	42\$:	MOVL	#1, EXCLUDE FLAG	1165
	0E	FF	A5	E8	0025E		BLBS	DEV_TYPE_ENTRY_STS, 43\$	1167
0040	8F		66	B1	00262		CMPW	EMB+4, #64	1168
			07	13	00267		BEQL	43\$	
0041	8F		66	B1	00269		CMPW	EMB+4, #65	1169
			34	12	0026E		BNEQ	47\$	
	50		6A	D0	00270	43\$:	MOVL	EXCLUDE MASK, R0	1172
13	60		14	E1	00273		BBC	#20, (R0), 45\$	
00000000V	00		00	FB	00277		CALLS	#0, VERIFY_DEVICE	1175
	06		50	E9	0027E		BLBC	R0, 44\$	
FD	A5		01	90	00281		MOVB	#1, DEVICE_STATUS	1177
			03	11	00285		BRB	45\$	
		FD	A5	94	00287	44\$:	CLRB	DEVICE STATUS	1179
	50		6A	D0	0028A	45\$:	MOVL	EXCLUDE MASK, R0	1182
13	60		15	E1	0028D		BBC	#21, (R0), 47\$	
00000000V	00		00	FB	00291		CALLS	#0, VERIFY_DEVICE_CLASS	1185
	06		50	E9	00298		BLBC	R0, 46\$	
FE	A5		01	90	0029B		MOVB	#1, DEV_CLS_STATUS	1187
			03	11	0029F		BRB	47\$	
		FE	A5	94	002A1	46\$:	CLRB	DEV_CLS_STATUS	1189
	50		6A	D0	002A4	47\$:	MOVL	EXCLUDE_MASK, R0	1193
11	60		16	E1	002A7		BBC	#22, (R0), 49\$	
00000000V	00		00	FB	002AB		CALLS	#0, VERIFY_ENTRY	1196
	05		50	E9	002B2		BLBC	R0, 48\$	
	65		01	90	002B5		MOVB	#1, ENTRY_STATUS	1198
			02	11	002B8		BRB	49\$	
			65	94	002BA	48\$:	CLRB	ENTRY STATUS	1200
	50		6A	D0	002BC	49\$:	MOVL	EXCLUDE MASK, R0	1203
08	60		14	E1	002BF		BBC	#20, (R0), 50\$	
	04	FF	A5	E9	002C3		BLBC	DEV_TYPE_ENTRY_STS, 50\$	1204
	13	FD	A5	E8	002C7		BLBS	DEVICE STATUS, 52\$	
08	60		15	E1	002CB	50\$:	BBC	#21, (R0), 51\$	1206
	04	FF	A5	E9	002CF		BLBC	DEV_TYPE_ENTRY_STS, 51\$	1207
	07	FE	A5	E8	002D3		BLBS	DEV_CLS_STATUS, 52\$	
07	60		16	E1	002D7	51\$:	BBC	#22, (R0), 53\$	1209
	04		65	E9	002DB		BLBC	ENTRY STATUS, 53\$	
			53	94	002DE	52\$:	CLRB	EXCLUDE_STATUS	1211

		03	11	002E0	BRB	54\$		
		01	90	002E2	MOV B	#1, EXCLUDE STATUS	1213	
2F		14	E1	002E5	BBC	#20, (R0), 59\$	1216	
2B		16	E1	002E9	BBC	#22, (R0), 59\$	1217	
		G1	90	002ED	MOV B	#1, EXCLUDE STATUS	1220	
		A5	E9	002F0	BLBC	DEV_SELECTION_REQUIRED, 56\$	1222	
	FC	65	E9	002F4	BLBC	ENTRY STATUS, 55\$	1225	
		A5	E8	002F7	BLBS	DEVICE STATUS, 58\$		
	FD	A5	E9	002FB	BLBC	DEV_TYPE_ENTRY_STS, 59\$	1226	
		A5	E9	002FF	BLBC	DEVICE STATUS, 59\$		
		11	11	00303	BRB	58\$	1228	
		A5	9A	00305	MOVZBL	DEV_TYPE_ENTRY_STS, R1	1232	
		51	E9	00309	BLBC	R1, 57\$		
		A5	E8	0030C	BLBS	DEVICE STATUS, 58\$		
	FD	51	E8	00310	BLBS	R1, 59\$	1239	
		65	E9	00313	BLBC	ENTRY STATUS, 59\$		
		53	94	00316	CLRB	EXCLUDE STATUS	1241	
		15	E1	00318	BBC	#21, (R0), 64\$	1246	
		16	E1	0031C	BBC	#22, (R0), 64\$	1247	
2F		01	90	00320	MOV B	#1, EXCLUDE STATUS	1250	
2B		A5	E9	00323	BLBC	DEV_SELECTION_REQUIRED, 61\$	1252	
	FC	65	E9	00327	BLBC	ENTRY STATUS, 60\$	1255	
		A5	E8	0032A	BLBS	DEV_CLS STATUS, 63\$		
	FE	A5	E9	0032E	BLBC	DEV_TYPE_ENTRY_STS, 64\$	1256	
		A5	E9	00332	BLBC	DEV_CLS STATUS, 64\$		
		11	11	00336	BRB	63\$	1258	
		A5	9A	00338	MOVZBL	DEV_TYPE_ENTRY_STS, R0	1262	
		50	E9	0033C	BLBC	R0, 62\$		
		A5	E8	0033F	BLBS	DEV_CLS STATUS, 63\$		
	FE	50	E8	00343	BLBS	R0, 64\$	1269	
		65	E9	00346	BLBC	ENTRY STATUS, 64\$		
		53	94	00349	CLRB	EXCLUDE STATUS	1271	
		54	E9	0034B	BLBC	INCLUDE STATUS, 67\$	1285	
		53	E9	0034E	BLBC	EXCLUDE STATUS, 67\$		
		6B	D0	00351	MOVL	PARSER DATA, R0	1286	
		60	91	00354	CMPB	(R0), #2		
		27	12	00357	BNEQ	67\$		
		66	3C	00359	MOVZWL	EMB+4, R0	1292	
	0063	8F	50	B1	CMPW	R0, #99		
		07	13	00361	BEQL	65\$		
		50	B1	00363	CMPW	R0, #100	1293	
		0C	12	00368	BNEQ	66\$		
		A5	9F	0036A	PUSHAB	LSTLUN	1299	
	00000000G	00	01	FB	CALLS	#1, INTERVENE_INCREMENT		
		0A	11	00374	BRB	67\$		
		A5	9F	00376	PUSHAB	LSTLUN	1305	
		01	FB	00379	CALLS	#1, INTERVENE_OUTPUT		
		06	E8	00380	BLBS	UNKNOWN_ENTRY, 68\$	1313	
		07	54	E9	BLBC	INCLUDE STATUS, 69\$	1320	
		04	53	E9	BLBC	EXCLUDE STATUS, 69\$	1321	
		50	01	D0	MOVL	#1, R0	1333	
			04	00390	RET			
		50	D4	00391	CLRL	R0	1335	
		04	00393	RET				

; Routine Size: 916 bytes, Routine Base: \$CODE + 0000



```
772 1338 1 ROUTINE VERIFY_ENTRY =  
773 1339 2 Begin  
774 1340 2  
775 1341 2 ++  
776 1342 2  
777 1343 2 Functional Description:  
778 1344 2  
779 1345 2 This routine will determine if the current entry matches  
780 1346 2 any of the selected entry types. It return TRUE if the  
781 1347 2 current entry matches or return FALSE if the current entry  
782 1348 2 does NOT match.  
783 1349 2  
784 1350 2 Calling sequence:  
785 1351 2  
786 1352 2 VERIFY_ENTRY ()  
787 1353 2  
788 1354 2 Input parameters:  
789 1355 2  
790 1356 2 None  
791 1357 2  
792 1358 2 Output parameters:  
793 1359 2  
794 1360 2 None  
795 1361 2  
796 1362 2 --  
797 1363 2  
798 1364 2  
799 1365 2  
800 1366 2 Initialize a status indicator.  
801 1367 2  
802 1368 2 Dev_selection_required = false ;  
803 1369 2  
804 1370 2  
805 1371 2 Determine if device attention entries are selected.  
806 1372 2  
807 1373 2 If ((.exclude_mask[exc$v_dev attentions]) OR  
808 1374 2 (.include_mask[inc$v_dev attentions]))  
809 1375 2 Then  
810 1376 2  
811 1377 2 Determine if this entry is for a device attention.  
812 1378 2  
813 1379 2 Begin  
814 1380 2 Dev_selection_required = true ;  
815 1381 2 If .emb[emb$w_hd_entry] EQLU EMB$K_DA  
816 1382 2 Then  
817 1383 2  
818 1384 2 Indicate that this entry does match a selected entry  
819 1385 2 type, by returning to the calling routine with a  
820 1386 2 true value.  
821 1387 2  
822 1388 2 Return true ;  
823 1389 2 End ;  
824 1390 2  
825 1391 2  
826 1392 2 Determine if bugcheck entries are selected.  
827 1393 2  
828 1394 2 If ((.exclude_mask[exc$v_bugchks]) OR
```

```

829 1395 3 (.include_mask[inc$V_bugchk])
830 1396 2 Then
831 1397 2
832 1398 2 Determine if this entry is for a bugcheck.
833 1399 2
834 1400 3 Begin
835 1401 3   Incr I from 0 to 2 do
836 1402 4     Begin
837 1403 4       If .emb[emb$w_hd_entry] EQLU .bugchk[.I]
838 1404 4       Then
839 1405 4         Determine if this entry does match a selected
840 1406 4         entry type, by returning to the calling routine
841 1407 4         with a true value.
842 1408 4
843 1409 4         Return true ;
844 1410 4       End ;
845 1411 3     End ;
846 1412 2   End ;
847 1413 2
848 1414 2 Determine if 'control entries' are selected.
849 1415 2
850 1416 2 If ((.exclude_mask[exc$V_control_entry]) OR
851 1417 3 (.include_mask[inc$V_control_entry]))
852 1418 3 Then
853 1419 2
854 1420 2 Determine if this entry is a 'control entry'.
855 1421 2
856 1422 2
857 1423 3 Begin
858 1424 3   Incr I from 0 to 6 do
859 1425 4     Begin
860 1426 4       If .emb[emb$w_hd_entry] EQLU .control[.I]
861 1427 4       Then
862 1428 4         Determine if this entry does match a selected
863 1429 4         entry type, by returning to the calling routine
864 1430 4         with a true value.
865 1431 4
866 1432 4         Return true ;
867 1433 4       End ;
868 1434 3     End ;
869 1435 2   End ;
870 1436 2
871 1437 2 Determine if 'cpu entries' are selected.
872 1438 2
873 1439 2
874 1440 3 If ((.exclude_mask[exc$V_cpu_entry]) OR
875 1441 3 (.include_mask[inc$V_cpu_entry]))
876 1442 2 Then
877 1443 2
878 1444 2 Determine if this entry is a 'cpu entry'.
879 1445 2
880 1446 3 Begin
881 1447 3   Incr I from 0 to 7 do
882 1448 4     Begin
883 1449 4       If .emb[emb$w_hd_entry] EQLU .cpu[.I]
884 1450 4       Then
885 1451 4

```





```

: 943 1509 3 (.include_mask[inc$v_memory]))
: 944 1510 3 Then
: 945 1511 3
: 946 1512 3 Determine if this entry is a 'memory entry'.
: 947 1513 3
: 948 1514 3 Begin
: 949 1515 3   Incr I from 0 to 1 do
: 950 1516 4     Begin
: 951 1517 4       If .emb[emb$w_hd_entry] EQLU .memorys[I]
: 952 1518 4       Then
: 953 1519 4         Determine if this entry does match a selected
: 954 1520 4         entry type, by returning to the calling routine
: 955 1521 4         with a true value.
: 956 1522 4
: 957 1523 4       Return true ;
: 958 1524 4     End ;
: 959 1525 3   End ;
: 960 1526 3 End ;
: 961 1527 3
: 962 1528 3 Determine if device timeouts are selected.
: 963 1529 3
: 964 1530 3 If ((.exclude_mask[exc$v_dev_timeouts]) OR
: 965 1531 3 (.include_mask[inc$v_dev_timeouts]))
: 966 1532 3 Then
: 967 1533 3
: 968 1534 3 Determine if this entry is a device timeouts.
: 969 1535 3
: 970 1536 3 Begin
: 971 1537 3   Dev_selection_required = true ;
: 972 1538 3
: 973 1539 3   If .emb[emb$w_hd_entry] EQLU EMB$K_DT
: 974 1540 3   Then
: 975 1541 3     Determine if this entry does match a selected
: 976 1542 3     entry type, by returning to the calling routine
: 977 1543 3     with a true value.
: 978 1544 3
: 979 1545 3     Return true ;
: 980 1546 3   End ;
: 981 1547 3
: 982 1548 3 Determine if unknown entries have been selected.
: 983 1549 3
: 984 1550 3 If unknown entries have not been excluded, then see if this is an
: 985 1551 3 unknown entry. If it is set UNKNOWN_ENTRY true.
: 986 1552 3
: 987 1553 3 Initialize the unknown entry indicator (not an unknown entry).
: 988 1554 3
: 989 1555 3 If ((.exclude_mask[exc$v_unknown_entry]) OR
: 990 1556 3 (.include_mask[inc$v_unknown_entry]))
: 991 1557 3 Then
: 992 1558 3
: 993 1559 3 Determine if this is an unknown entry.
: 994 1560 3
: 995 1561 3 Begin
: 996 1562 3   If .unknown_entry
: 997 1563 3
: 998 1564 3
: 999 1565 3
```

```

: 1000      1566      3      Then Return true ;
: 1001      1567      2      End ;
: 1002      1568      2      :
: 1003      1569      2      :
: 1004      1570      2      : Determine if unsolicited mscp entries are selected.
: 1005      1571      2      :
: 1006      1572      2      If ((.exclude_mask[exc$v_unsol_mscp]) OR
: 1007      1573      2      (.include_mask[inc$v_unsol_mscp]))
: 1008      1574      2      Then
: 1009      1575      2      :
: 1010      1576      2      : Determine if this entry is an unsolicited mscp entry.
: 1011      1577      2      :
: 1012      1578      2      Begin
: 1013      1579      2      If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP
: 1014      1580      2      Then
: 1015      1581      2      :
: 1016      1582      2      : Indicate that this entry does match a selected
: 1017      1583      2      : entry type, by returning to the calling routine
: 1018      1584      2      : with a true value.
: 1019      1585      2      :
: 1020      1586      2      Return true ;
: 1021      1587      2      End ;
: 1022      1588      2      :
: 1023      1589      2      :
: 1024      1590      2      : Determine if volume changes are to be excluded.
: 1025      1591      2      :
: 1026      1592      2      If ((.exclude_mask[exc$v_volume])
: 1027      1593      2      OR (.include_mask[inc$v_volume]))
: 1028      1594      2      Then
: 1029      1595      2      :
: 1030      1596      2      : Determine if this entry is a volume entry.
: 1031      1597      2      :
: 1032      1598      2      Begin
: 1033      1599      2      Dev_selection_required = true ;
: 1034      1600      2      :
: 1035      1601      3      Incr I from 0 to 1 do
: 1036      1602      4      Begin
: 1037      1603      4      If .emb[emb$w_hd_entry] EQLU .volume[I]
: 1038      1604      4      Then
: 1039      1605      4      :
: 1040      1606      4      : Indicate that this entry does match a selected
: 1041      1607      4      : entry type, by returning to the calling routine
: 1042      1608      4      : with a true value.
: 1043      1609      4      :
: 1044      1610      4      Return true ;
: 1045      1611      3      End ;
: 1046      1612      2      End ;
: 1047      1613      2      :
: 1048      1614      2      :
: 1049      1615      2      : Indicate that this entry does not match any of the selected
: 1050      1616      2      : entry types, by returning to the calling routine with a
: 1051      1617      2      : false value.
: 1052      1618      2      :
: 1053      1619      2      Return false ;
: 1054      1620      1      End ; ! Routine

```



		60	B5	000BB	TSTW	(R0)			
		10	18	000BD	BGEQ	21\$			
		50	D4	000BF	CLRL	I	1517		
	52	24	A440	9A	000C1	19\$:			
	65			B1	000C6	MOVZBL	MEMORYS[I], R2		
				57	13	000C9	20\$:		
				01	F3	000CB	AOBLEQ		
F2				A1	E8	000CF	21\$:		
				63	D0	000D3	BLBS		
				0A	02	E9	000D6	21\$:	
				01	90	000DA	22\$:		
	0060			65	B1	000DD	MOVBL		
				3E	13	000E2	23\$:		
				13	E0	000E4	24\$:		
07				63	D0	000E8	BBS		
				13	E1	000EB	MOVBL		
07				00	E8	000EF	25\$:		
		00000000G		11	E0	000F6	26\$:		
07				63	D0	000FA	MOVBL		
				11	E1	000FD	BBC		
07				65	B1	00101	27\$:		
	0065			1A	13	00106	28\$:		
				12	E0	00108	29\$:		
07				63	D0	0010C	MOVBL		
				12	E1	0010F	BBC		
17				01	90	00113	30\$:		
				50	D4	00116	CLRL		
				51	28	A440	9A	00118	31\$:
				65	51	B1	0011D	MOVZBL	
				04	12	00120	CMPW		
				50	01	D0	00122	32\$:	
				04	00125	BNEQ	33\$		
				01	F3	00126	33\$:		
EE				50	D4	0012A	34\$:		
				04	0012C	RET			

: Routine Size: 301 bytes, Routine Base: \$CODE + 0394

: 1055 1621 1

```

: 1057 1622 1 GLOBAL ROUTINE DEVICE_TYPE_ENTRY =
: 1058 1623 2 Begin
: 1059 1624 3
: 1060 1625 4 :++
: 1061 1626 5
: 1062 1627 6 Functional Description:
: 1063 1628 7
: 1064 1629 8 This routine will determine if the current entry is a device
: 1065 1630 9 type entry; (device attention, device error, device timeout,
: 1066 1631 10 volume dismount, volume mount). It return TRUE if the current
: 1067 1632 11 entry matches any of the device type entries or return FALSE
: 1068 1633 12 if the current entry does NOT match.
: 1069 1634 13
: 1070 1635 14 Calling sequence:
: 1071 1636 15
: 1072 1637 16 DEVICE_ENTRY_TYPE ()
: 1073 1638 17
: 1074 1639 18 Input parameters:
: 1075 1640 19
: 1076 1641 20 None
: 1077 1642 21
: 1078 1643 22 Output parameters:
: 1079 1644 23
: 1080 1645 24 None
: 1081 1646 25
: 1082 1647 26 --
: 1083 1648 27
: 1084 1649 28 OWN
: 1085 1650 29 Device_entries: VECTOR [6,byte,unsigned] ; Storage for device type
: 1086 1651 30 entries.
: 1087 1652 31 Initial (BYTE
: 1088 1653 32 (EMBSK_DA, ; Device attentions
: 1089 1654 33 EMBSK_DE, ; Device errors
: 1090 1655 34 EMBSK_DT, ; Device timeouts
: 1091 1656 35 EMBSK_LM,
: 1092 1657 36 EMBSK_SP, ; Log message
: 1093 1658 37 EMBSK_LOGMSCP)) ; Unsolicited mscp msg
: 1094 1659 38
: 1095 1660 39
: 1096 1661 40 Determine if the current entry is a device type entry.
: 1097 1662 41
: 1098 1663 42 Incr I from 0 to 5 do
: 1099 1664 43 Begin
: 1100 1665 44 If .emb[emb$w_hd_entry] EQLU .device_entries[.I]
: 1101 1666 45 Then
: 1102 1667 46
: 1103 1668 47 Indicate that this is a device type entry, by
: 1104 1669 48 returning to the calling routine with a true value.
: 1105 1670 49
: 1106 1671 50 Return true ;
: 1107 1672 51 End ;
: 1108 1673 52
: 1109 1674 53
: 1110 1675 54 Indicate that this is NOT a device type entry, by returning
: 1111 1676 55 to the calling routine with a false value.
: 1112 1677 56
: 1113 1678 57 Return false ;

```

: 1114 1679 2  
: 1115 1680 1 End ; ! Routine

.PSECT \$OWNS,NOEXE, PIC,2  
65 63 64 60 01 62 0002E .BLKB 2  
00030 DEVICE\_ENTRIES: .BYTE 98, 1, 96, 100, 99, 101

.PSECT \$CODE,NOWRT, PIC,2  
0000 00000 .ENTRY DEVICE\_TYPE\_ENTRY, Save nothing : 1622  
50 D4 00002 CLRL I : 1665  
00000000G 51 00000000'0040 9A 00004 1\$: MOVZBL DEVICE\_ENTRIES[I], R1  
51 B1 0000C CMPW R1, EMB+4  
04 12 00013 BNEQ 2\$ : 1671  
50 01 D0 00015 MOVL #1, R0  
E7 50 04 00018 RET : 1663  
05 F3 00019 2\$: AOBLEQ #5, I, 1\$ : 1678  
50 D4 0001D CLRL R0 : 1680  
04 0001F RET

: Routine Size: 32 bytes, Routine Base: \$CODE + 04C1

: 1116 1681 1

```

1118 1682 1 ROUTINE VERIFY_DEVICE_CLASS =
1119 1683 2 Begin
1120 1684 2
1121 1685 2 ++
1122 1686 2
1123 1687 2 Functional Description:
1124 1688 2
1125 1689 2 This routine will determine if the device recorded by the
1126 1690 2 current entry matches any of the selected device class(es).
1127 1691 2 It return TRUE if the current entry matches or return FALSE
1128 1692 2 if the current entry does NOT match.
1129 1693 2
1130 1694 2 Calling sequence:
1131 1695 2
1132 1696 2 VERIFY_DEVICE_CLASS ( )
1133 1697 2
1134 1698 2 Input parameters:
1135 1699 2
1136 1700 2 None
1137 1701 2
1138 1702 2 Output parameters:
1139 1703 2
1140 1704 2 None
1141 1705 2
1142 1706 2 --
1143 1707 2
1144 1708 2
1145 1709 2 Determine whether this is a unsolicited mscp entry and
1146 1710 2 whether to continue.
1147 1711 2
1148 1712 2 If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP AND
1149 1713 2 NOT .include_mask[inc$v_disks] AND
1150 1714 2 NOT .include_mask[inc$v_tapes]
1151 1715 2 Then
1152 1716 2 Return false ;
1153 1717 2
1154 1718 2
1155 1719 2 Determine if 'BUS' entries are selected.
1156 1720 2
1157 1721 2 If ((.exclude_mask[exc$v_buses]) OR
1158 1722 2 (.include_mask[inc$v_buses]))
1159 1723 2 Then
1160 1724 2
1161 1725 2 Determine if the device recorded by this entry, matches the
1162 1726 2 selected device class.
1163 1727 2
1164 1728 2 Begin
1165 1729 2 If ((.emb[emb$w_hd_entry] EQLU EMB$K_LM AND
1166 1730 2 .emb[emb$b_lm_class] EQLU DC$_BUST) OR
1167 1731 2
1168 1732 2 ((.emb[emb$w_hd_entry] EQLU EMB$K_SP AND
1169 1733 2 .emb[emb$b_sp_class] EQLU DC$_BUST) OR
1170 1734 2
1171 1735 2 (.emb[emb$b_dv_class] EQLU DC$_BUS)
1172 1736 2 Then
1173 1737 2
1174 1738 2 Indicate that this entry does match a selected device

```



```
: 1175      1739      3      |      | class, by returning to the calling routine with a  
: 1176      1740      3      |      | true value.  
: 1177      1741      3      |      |  
: 1178      1742      3      |      | Return true ;  
: 1179      1743      3      |      | End ;  
: 1180      1744      3      |      |  
: 1181      1745      3      |      |  
: 1182      1746      3      |      | Determine if 'DISK' entries are selected.  
: 1183      1747      3      |      |  
: 1184      1748      3      |      | If ((.exclude_mask[exc$v_disks]) OR  
: 1185      1749      3      |      | (.include_mask[inc$v_disks]))  
: 1186      1750      3      |      | Then  
: 1187      1751      3      |      |  
: 1188      1752      3      |      | Determine if the device recorded by this entry, matches the  
: 1189      1753      3      |      | selected device class.  
: 1190      1754      3      |      |  
: 1191      1755      3      |      | Begin  
: 1192      1756      4      |      | If ((.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR  
: 1193      1757      4      |      | (.emb[emb$w_hd_entry] EQLU EMB$K_VD))  
: 1194      1758      3      |      | Then  
: 1195      1759      3      |      |  
: 1196      1760      3      |      | Determine if the device recorded by this volume  
: 1197      1761      3      |      | mount or dismount is a 'disk' type device.  
: 1198      1762      3      |      |  
: 1199      1763      4      |      | Begin  
: 1200      1764      4      |      | If NOT TRANSLATE_CLASS (emb[emb$t_vm_namtxt],DC$_DISK)  
: 1201      1765      4      |      | Then  
: 1202      1766      4      |      |  
: 1203      1767      4      |      | Indicate that the device recorded by this entry is  
: 1204      1768      4      |      | not a 'disk', by returning to the calling routine  
: 1205      1769      4      |      | with a false value.  
: 1206      1770      4      |      |  
: 1207      1771      4      |      | Return false  
: 1208      1772      4      |      | Else  
: 1209      1773      4      |      | Return true ;  
: 1210      1774      3      |      | End ;  
: 1211      1775      3      |      |  
: 1212      1776      5      |      | If ( ((.emb[emb$w_hd_entry] EQLU EMB$K_LM) AND  
: 1213      1777      4      |      | (.emb[emb$b_m_class] EQLU DC$_DISK)) OR  
: 1214      1778      4      |      |  
: 1215      1779      5      |      | ((.emb[emb$w_hd_entry] EQLU EMB$K_SP) AND  
: 1216      1780      4      |      | (.emb[emb$b_sp_class] EQLU DC$_DISK)) OR  
: 1217      1781      4      |      |  
: 1218      1782      4      |      | ! Entry type must be either a device error, timeout, or attention.  
: 1219      1783      4      |      |  
: 1220      1784      4      |      | (.emb[emb$b_ov_class] EQLU DC$_DISK) )  
: 1221      1785      3      |      | Then  
: 1222      1786      3      |      |  
: 1223      1787      3      |      | Indicate that this entry does match a selected  
: 1224      1788      3      |      | device class, by returning to the calling routine  
: 1225      1789      3      |      | with a true value.  
: 1226      1790      3      |      |  
: 1227      1791      3      |      | Return true ;  
: 1228      1792      3      |      |  
: 1229      1793      3      |      |  
: 1230      1794      3      |      | Determine whether this is disk related unsolicited mscp entry.  
: 1231      1795      3      |      |
```

```

: 1232 1796 3      If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP AND
: 1233 1797 3          CH$EQL (2,emb[driver_type],2,CH$PTR(uptit('DISK'))))
: 1234 1798 3      Then
: 1235 1799 3          : Yes, return to the calling routine with a true value.
: 1236 1800 3          :
: 1237 1801 3          Return true ;
: 1238 1802 3      End ;
: 1239 1803 2
: 1240 1804 2      :
: 1241 1805 2      : Determine if 'REALTIME' entries are selected.
: 1242 1806 2
: 1243 1807 3      If ((.exclude_mask[exc$v_realtime]) OR
: 1244 1808 3          (.include_mask[inc$v_realtime]))
: 1245 1809 3      Then
: 1246 1810 3          :
: 1247 1811 3          : Determine if the device recorded by this entry, matches the
: 1248 1812 3          : selected device class.
: 1249 1813 3          :
: 1250 1814 3          Begin
: 1251 1815 3          If .emb[emb$b_dv_class] EQLU DCS_REALTIME
: 1252 1816 3          Then
: 1253 1817 3              :
: 1254 1818 3              : Indicate that this entry does match a selected
: 1255 1819 3              : device class, by returning to the calling routine
: 1256 1820 3              : with a true value.
: 1257 1821 3              :
: 1258 1822 3              Return true ;
: 1259 1823 3          End ;
: 1260 1824 2
: 1261 1825 2      :
: 1262 1826 2      : Determine if 'SYNCHRONOUS COMMUNICATION' entries are selected.
: 1263 1827 2
: 1264 1828 3      If ((.exclude_mask[exc$v_sync_comm]) OR
: 1265 1829 3          (.include_mask[inc$v_sync_comm]))
: 1266 1830 3      Then
: 1267 1831 3          :
: 1268 1832 3          : Determine if the device recorded by this entry, matches the
: 1269 1833 3          : selected device class.
: 1270 1834 3          :
: 1271 1835 3          Begin
: 1272 1836 3          If .emb[emb$b_dv_class] EQLU DCS_SCOM
: 1273 1837 3          Then
: 1274 1838 3              :
: 1275 1839 3              : Indicate that this entry does match a selected
: 1276 1840 3              : device class, by returning to the calling routine
: 1277 1841 3              : with a true value.
: 1278 1842 3              :
: 1279 1843 3              Return true ;
: 1280 1844 3          End ;
: 1281 1845 2
: 1282 1846 2      :
: 1283 1847 2      : Determine if 'TAPE' entries are selected.
: 1284 1848 2
: 1285 1849 3      If ((.exclude_mask[exc$v_tapes]) OR
: 1286 1850 3          (.include_mask[inc$v_tapes]))
: 1287 1851 3      Then
: 1288 1852 3          !

```

```

: 1289 1853 2 ! Determine if the device recorded by this entry, matches the
: 1290 1854 2 ! selected device class.
: 1291 1855 2
: 1292 1856 3
: 1293 1857 4 Begin
: 1294 1858 4 If ((.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
: 1295 1859 3 (.emb[emb$w_hd_entry] EQLU EMB$K_VD))
: 1296 1860 3 Then
: 1297 1861 3 ! Determine if the device recorded by this volume
: 1298 1862 3 ! mount or dismount is a 'tape' type device.
: 1299 1863 3
: 1300 1864 4 Begin
: 1301 1865 4 If NOT TRANSLATE_CLASS (emb[emb$t_vm_namtxt],DC$_TAPE)
: 1302 1866 4 Then
: 1303 1867 4
: 1304 1868 4 ! Indicate that the device recorded by this entry is
: 1305 1869 4 ! not a 'tape', by returning to the calling routine
: 1306 1870 4 ! with a false value.
: 1307 1871 4
: 1308 1872 4 Return false
: 1309 1873 4 [lse
: 1310 1874 4 Return true ;
: 1311 1875 3 End ;
: 1312 1876 3
: 1313 1877 5 If ( ((.emb[emb$w_hd_entry] EQLU EMB$K_LM) AND
: 1314 1878 4 (.emb[emb$b_m_class] EQLU DC$_TAPE)) OR
: 1315 1879 4
: 1316 1880 5 ((.emb[emb$w_hd_entry] EQLU EMB$K_SP) AND
: 1317 1881 4 (.emb[emb$b_sp_class] EQLU DC$_TAPE)) OR
: 1318 1882 4
: 1319 1883 4 ! Entry type must be either a device error, timeout, or attention.
: 1320 1884 4
: 1321 1885 4 (.emb[emb$b_dv_class] EQLU DC$_TAPE) )
: 1322 1886 3 Then
: 1323 1887 3 ! Indicate that this entry does match a selected
: 1324 1888 3 ! device class, by returning to the calling routine
: 1325 1889 3 ! with a true value.
: 1326 1890 3
: 1327 1891 3
: 1328 1892 3 Return true ;
: 1329 1893 3
: 1330 1894 3
: 1331 1895 3 ! Determine whether this is tape related unsolicited mscp entry.
: 1332 1896 3
: 1333 1897 3 If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP AND
: 1334 1898 3 CH$EQL (2,emb[driver_type],2,CH$PTR(uplit('TAPE')))
: 1335 1899 3 Then
: 1336 1900 3 ! Yes, return to the calling routine with a true value.
: 1337 1901 3
: 1338 1902 3 Return true ;
: 1339 1903 2 End ;
: 1340 1904 2
: 1341 1905 2 ! Determine if 'MISC' entries are selected.
: 1342 1906 2
: 1343 1907 2
: 1344 1908 2 ! If ((.exclude_mask[exc$v_misc]) OR
: 1345 1909 2 ! (.include_mask[inc$v_misc]))
```



```

: 1403 1967 2
: 1404 1968 2
: 1405 1969 2
: 1406 1970 2
: 1407 1971 2
: 1408 1972 2
: 1409 1973 2
: 1410 1974 1

```

2 : Indicate that this entry does not match any of the selected  
 2 : device classes, by returning to the calling routine with a  
 2 : false value.  
 2 : Return false ;  
 1 : End ; ! Routine

.PSECT \$PLIT, NOWRT, NOEXE, PIC, 2

```

4B 53 49 44 00000 P.AAA: .ASCII \DISK\
45 50 41 54 00004 P.AAB: .ASCII \TAPE\

```

.PSECT \$CODE, NOWRT, PIC, 2

003C 00000 VERIFY\_DEVICE\_CLASS:

```

      55 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5 : 1682
      54 00000000G 00 9E 00009 MOVAB EXCLUDE_MASK, R5
      53 00000000G 00 9E 00010 MOVAB INCLUDE_MASK, R4
      52          F4 A3 3C 00017 MOVZWL EMB+16, R3
0065 8F          52 B1 0001B CMPW EMB+4, R2 : 1712
      11 12 00020 BNEQ R2, #101
      50          64 D0 00022 MOVL INCLUDE_MASK, R0 : 1713
0A   60          02 E0 00025 BBS #2, (R0), 1$
      50          64 D0 00029 MOVL INCLUDE_MASK, R0 : 1714
      03          01 A0 E8 0002C BLBS 1(R0), T$
      31 00030 BRW 28$
      51          65 D0 00033 1$: MOVL EXCLUDE_MASK, R1 : 1721
07   61          01 E0 00036 BBS #1, (R1), 2$
      50          64 D0 0003A MOVL INCLUDE_MASK, R0 : 1722
21   60          01 E1 0003D BBC #1, (R0), 5$
0064 8F          52 B1 00041 2$: CMPW R2, #100 : 1729
      06 12 00046 BNEQ 3$
      80 8F          63 91 00048 CMPB EMB+16, #128 : 1730
      77 13 0004C BEQL 13$
0063 8F          52 B1 0004E 3$: CMPW R2, #99 : 1732
      06 12 00053 BNEQ 4$
      80 8F          63 91 00055 CMPB EMB+16, #128 : 1733
      7B 13 00059 BEQL 16$
      80 8F          0C A3 91 0005B 4$: CMPB EMB+28, #128 : 1735
      74 13 00060 BEQL 16$
07   61          02 E0 00062 5$: BBS #2, (R1), 6$ : 1748
45   50          64 D0 00066 MOVL INCLUDE_MASK, R0 : 1749
      60          02 E1 00069 BBC #2, (R0), 11$
0040 8F          52 B1 0006D 6$: CMPW R2, #64 : 1756
      07 13 00072 BEQL 7$
0041 8F          52 B1 00074 CMPW R2, #65 : 1757
      04 12 00079 BNEQ 8$
      01 DD 0007E 7$: PUSHL #1 : 1764
      78 11 0007D BRB 20$
      50          F4 A3 3C 0007F 8$: MOVZWL EMB+4, R0 : 1776

```









```

1470 2033 4      Dev_name_length = .sp_name_length ;
1471 2034 4      Dev_unit = .emb[emb$w_sp_unit] ;
1472 2035 4      End
1473 2036 4      Else
1474 2037 4      :
1475 2038 4      : Determine if this a volume mount/dismount entry.
1476 2039 4      :
1477 2040 4      Begin
1478 2041 5      If ((.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
1479 2042 5      (.emb[emb$w_hd_entry] EQLU EMB$K_VD))
1480 2043 4      Then
1481 2044 4      :
1482 2045 4      : Entry type is a either a volume mount/dismount, get
1483 2046 4      : the device name, name length, and unit number.
1484 2047 4      :
1485 2048 5      Begin
1486 2049 5      Dev_name = emb[emb$t_vm_namtxt] ;
1487 2050 5      Dev_name_length = .emb[emb$b_vm_namlng] ;
1488 2051 5      Dev_unit = .emb[emb$w_vm_unit] ;
1489 2052 5      End
1490 2053 4      Else
1491 2054 4      :
1492 2055 4      : Entry type must be either a device error, device timeout,
1493 2056 4      : or a device attention, get the device name, name length, and
1494 2057 4      : unit number.
1495 2058 4      :
1496 2059 5      Begin
1497 2060 5      Dev_name = emb[emb$t_dv_name] + 1 ;
1498 2061 5      Dev_name_length = .dv_name_length ;
1499 2062 5      Dev_unit = .emb[emb$w_dv_unit] ;
1500 2063 4      End ;
1501 2064 4      End ;
1502 2065 4      End ;
1503 2066 2      :
1504 2067 2      :
1505 2068 2      : Call the search queue routine to determine if the device recorded by
1506 2069 2      : this entry matches any of the selected devices.
1507 2070 2      :
1508 2071 2      Status = SEARCH_QUEUE (.dev_name,dev_name_length,dev_unit) ;
1509 2072 2      :
1510 2073 2      :
1511 2074 2      : Return the status from the search queue operation to the
1512 2075 2      : calling routine.
1513 2076 2      :
1514 2077 2      Status
1515 2078 1      End ; ! Routine

```

```

0004 00000 VERIFY_DEVICE:
          52 00000000G 00 9E 00002      .WORD      Save R2
          5E          08 C2 00009      MOVAB      EMB+4, R2
          50          62 3C 0000C      SUBL2     #8, SP
0065     8F          50 B1 0000F      MOVZWL    EMB+4, R0
          50          50 B1 0000F      CMPW      R0, #101

```

: 1976  
:  
:  
: 1999  
:















