


```

RRRRRRRR      EEEEEEEEE  CCCCCCCC  SSSSSSSS  EEEEEEEEE  LL      EEEEEEEEE  CCCCCCCC  TTTTTTTTTT
RRRRRRRR      EEEEEEEEE  CCCCCCCC  SSSSSSSS  EEEEEEEEE  LL      EEEEEEEEE  CCCCCCCC  TTTTTTTTTT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RRRRRRRR      EEEEEEEEE  CCCCCCCC  SSSSSS   EEEEEEEEE  LL      EEEEEEEEE  CCCCCCCC  TT
RRRRRRRR      EEEEEEEEE  CCCCCCCC  SSSSSS   EEEEEEEEE  LL      EEEEEEEEE  CCCCCCCC  TT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RR      RR    EE          CC          SS          EE          LL      EE          CC          TT
RR      RR    EEEEEEEEE  CCCCCCCC  SSSSSSSS  EEEEEEEEE  LLLLLLLLLL  EEEEEEEEE  CCCCCCCC  TT
RR      RR    EEEEEEEEE  CCCCCCCC  SSSSSSSS  EEEEEEEEE  LLLLLLLLLL  EEEEEEEEE  CCCCCCCC  TT

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LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SSSSSS
LL      II     SSSSSS
LL      II     SS
LL      II     SS
LL      II     SS
LL      II     SS
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

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.....

55	0058	1	V03-022	EAD0179	Elliott A. Drayton	23-May-1984
56	0059	1		Correct the passing of the address of device name		
57	0060	1		in VERIFY_DEVICE.		
58	0061	1				
59	0062	1	V03-021	SAR0267	Sharon A. Reynolds	15-May-1984
60	0063	1		- Updated VERIFY_DEVICE to support longer device names.		
61	0064	1		- Added check for unknown entry output to replace code		
62	0065	1		that was previously removed.		
63	0066	1				
64	0067	1	V03-020	SAR0254	Sharon A. Reynolds	23-Apr-1984
65	0068	1		Added flag to /before check to stop execution when		
66	0069	1		last entry found.		
67	0070	1				
68	0071	1	V03-019	EAD0151	Elliott A. Drayton	14-Apr-1984
69	0072	1		Fixed structure names in VERIFY_DEVICE.		
70	0073	1				
71	0074	1	V03-018	EAD0141	Elliott A. Drayton	12-Apr-1984
72	0075	1		Removed reference to EMBETDEF.		
73	0076	1				
74	0077	1	V03-017	SAR0248	Sharon A. Reynolds	10-Apr-1984
75	0078	1		Moved the unknown keyword tests to the verify entry		
76	0079	1		routine so it would go through same tests as any		
77	0080	1		other /include or /exclude entry selection.		
78	0081	1				
79	0082	1	V03-016	SAR0245	Sharon A. Reynolds	4-Apr-1984
80	0083	1		Added EMB\$LOGMSP to device type entry table.		
81	0084	1				
82	0085	1	V03-015	EAD0119	Elliott A. Drayton	23-Mar-1984
83	0086	1		Remove support for /UNKNOWN qualifier and added support		
84	0087	1		for the UNKNOWN keyword.		
85	0088	1				
86	0089	1	V03-014	EAD0115	Elliott A. Drayton	9-Mar-1984
87	0090	1		Removed emb_buf and syecom_buf.		
88	0091	1				
89	0092	1	V03-013	SAR0189	Sharon A. Reynolds,	13-Feb-1984
90	0093	1		- Added 'CS' device name support to device table search		
91	0094	1		routine.		
92	0095	1		- Added additional test for entry summary update.		
93	0096	1				
94	0097	1	V03-012	SAR0184	Sharon A. Reynolds,	17-Jan-1984
95	0098	1		- Fixed a bug in the output of the erf_unkentry message.		
96	0099	1		- Added code to set the end value indicator when		
97	0100	1		the last selected entry (/entry) is found.		
98	0101	1				
99	0102	1	V03-011	SAR0181	Sharon A. Reynolds,	13-Dec-1983
100	0103	1		- Remove descriptor references.		
101	0104	1		- Add device attention keyword support.		
102	0105	1		- Add lm/sp entries to device errors entry list.		
103	0106	1		- Add lm/sp entry check for bus class selections.		
104	0107	1		- Removed logmessage keyword.		
105	0108	1		- Add unsolicited_mscp keyword support.		
106	0109	1		- Added incomplete entry message.		
107	0110	1				
108	0111	1	V03-010	SAR0176	Sharon A. Reynolds,	21-Nov-1983
109	0112	1		- Removed un-necessary check for outputting all		
110	0113	1		entries.		
111	0114	1		- Changed reference to report type.		

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112	0115	1	
113	0116	1	
114	0117	1	
115	0118	1	
116	0119	1	
117	0120	1	
118	0121	1	
119	0122	1	
120	0123	1	
121	0124	1	
122	0125	1	
123	0126	1	
124	0127	1	
125	0128	1	
126	0129	1	
127	0130	1	
128	0131	1	
129	0132	1	
130	0133	1	
131	0134	1	
132	0135	1	
133	0136	1	
134	0137	1	
135	0138	1	
136	0139	1	
137	0140	1	
138	0141	1	
139	0142	1	
140	0143	1	
141	0144	1	
142	0145	1	
143	0146	1	
144	0147	1	
145	0148	1	
146	0149	1	
147	0150	1	
148	0151	1	
149	0152	1	
150	0153	1	
151	0154	1	
152	0155	1	
153	0156	1	
154	0157	1	--
155	0158	1	
156	0159	1	
157	0160	1	
158	0161	1	Required files
159	0162	1	
160	0163	1	REQUIRE 'SRCS:ERFDEF.REQ' ;
161	0449	1	REQUIRE 'LIBS:PARSERDAT.R32' ;
162	0603	1	REQUIRE 'SRCS:RECSELDEF.REQ' ;
163	0734	1	ERF defintions
164	0735	1	ERF parser data definitions
165	0736	1	EMB, SYECOM, LOGMSG, LOGSTS, and
166	0737	1	VOLMOUNT field defintions
167	0738	1	
168	0739	1	Table of contents

V03-009 SAR0152 Sharon A. Reynolds, 7-Oct-1983
 - Added code to output informatinal messages when
 and unknown entry is encountered.
 - Added the code that counts intervening logmessage
 logstatus entries.
 - Re-structured the /include and /exclude entry
 checks to fix a bug.
 - Made /includ=disks/exclude=db1 a valid command.

V03-008 SAR0139 Sharon A. Reynolds, 20-Sep-1983
 Fixed a bug in mount/dismount output. Fixed an out
 of range loop.

V03-007 SAR0122 Sharon A. Reynolds, 23-Aug-1983
 Re-wrote translate_class routine for use with the
 permanent device tables.

V03-006 SAR0032 Sharon A. Reynolds, 2-Jun-1983
 Replaced emb_stuf with emb_buf definitions. Fixed bug
 in dc\$_bus selection.

V03-005 SAR0029 Sharon A. Reynolds, 11-May-1983
 Removed support for logstatus keyword.

V03-004 SAR0013 Sharon A. Reynolds, 18-Apr-1983
 Deleted the log message and status message entries
 from the 'control' table. Added call to update
 entry summaries.

V03-003 SAR0003 Sharon A. Reynolds, 5-Apr-1983
 Removed the volume_output flag definition. Changed
 any references to volume_output flag so they refer
 to it from SYECOM.

V03-002 SAR0002 Sharon A. Reynolds, 5-Apr-1983
 Fixed /exclude selection bug.

V03-001 SAR0001 Sharon A. Reynolds, 29-Mar-1983
 Fixed /include='device name', volume mount/dismount
 selection problem.

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169 0740 1 FORWARD ROUTINE
170 0741 1 Record_selected,      ! Verify entry against selections
171 0742 1 Verify_entry,          ! Verify the entry type
172 0743 1 Device_type_entry,    ! Determine if it's a device type entry
173 0744 1 Verify_device_class,  ! Verify the device class
174 0745 1 Verify_device,       ! Verify the device name
175 0746 1 Translate_class ;    ! Translate device class to a name
176 0747 1
177 0748 1
178 0749 1 ! Declare external routines
179 0750 1
180 0751 1 EXTERNAL ROUTINE
181 0752 1 Exec_image,          ! Execute an image
182 0753 1 Intervene_increment,
183 0754 1 Intervene_output,
184 0755 1 Search_queue: addressing_mode (general) , ! Search queue of devices selected
185 0756 1 Validate_packet;    ! Is the packet validate for the cpu it was logged on.
186 0757 1
187 0758 1
188 0759 1 ! Declare external literals
189 0760 1
190 0761 1 EXTERNAL LITERAL
191 0762 1 Erf_incentry,
192 0763 1 Erf_unkclass,
193 0764 1 Erf_unkcpu,
194 0765 1 Erf_unkentry,
195 0766 1 Erf_unktype ;
196 0767 1
197 0768 1
198 0769 1 ! Declare external data.
199 0770 1
200 0771 1 EXTERNAL
201 0772 1 Class_dir:          REF $BBLOCK,
202 0773 1 Device_class,
203 0774 1 Device_type,
204 0775 1 Emb:              $BBLOCK PSECT (EMB),
205 0776 1 Exclude_flag,
206 0777 1 Exclude_mask:     REF $BBLOCK,
207 0778 1 Include_mask:     REF $BBLOCK,
208 0779 1 Option_flag:      REF $BBLOCK,
209 0780 1 Parser_data:      REF $BBLOCK,
210 0781 1 Processor_type,
211 0782 1 Summary_dispatcher_addr,
212 0783 1 Summary_flag:     REF $BBLOCK,
213 0784 1 Syecom:          $BBLOCK PSECT (SYECOM),
214 0785 1 Unknown_entry ;
215 0786 1
216 0787 1
217 0788 1 ! Declare literal definitions
218 0789 1
219 0790 1 LITERAL
220 0791 1 Incomplete_entry = 128 ;
221 0792 1
222 0793 1
223 0794 1 ! Own storage definitions
224 0795 1
225 0796 1 OWN

```

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: 226 0797 1 Lstlun: Long
: 227 0798 1 Dev_selection_required: BYTE,
: 228 0799 1 Device_status: BYTE,
: 229 0800 1 Dev_cls_status: BYTE,
: 230 0801 1 Dev_type_entry_sts: BYTE,
: 231 0802 1 Entry_status: BYTE,
: 232 0803 1 Validate_pkt_sts: Initial (false),
: 233 0804 1 Bugchks: VECTOR [3,byte,unsigned] ! Bugcheck type entries
: 234 0805 1 Initial (byte
: 235 0806 1 (EMBSK_CR, ! Crash
: 236 0807 1 EMBSK_SBC, ! System bugchecks
: 237 0808 1 EMBSK_UBC)), ! User bugchecks
: 238 0809 1
: 239 0810 1 Control: VECTOR [7,byte,unsigned] ! Control type entries
: 240 0811 1 Initial (byte
: 241 0812 1 (EMBSK_CS, ! Cold re-start
: 242 0813 1 EMBSK_RF, ! New file created
: 243 0814 1 EMBSK_WS, ! Warm re-start
: 244 0815 1 EMBSK_TS, ! Time stamp
: 245 0816 1 EMBSK_SS, ! System service message
: 246 0817 1 EMBSK_OM, ! Operator message
: 247 0818 1 EMBSK_NM)), ! Network message
: 248 0819 1
: 249 0820 1 Cpu: VECTOR [8,byte,unsigned] ! Cpu type entries
: 250 0821 1 Initial (byte
: 251 0822 1 (EMBSK_AW, ! Asynchronous write error
: 252 0823 1 EMBSK_OBA, ! Unibus adapter error
: 253 0824 1 EMBSK_MBA, ! Massbus adapter error
: 254 0825 1 EMBSK_UI, ! Undefined interrupt
: 255 0826 1 EMBSK_BE, ! Bus error
: 256 0827 1 EMBSK_SA, ! SBI alert
: 257 0828 1 EMBSK_SI, ! 11/750 fault thru SBI vector
: 258 0829 1 EMBSK_UE)), ! 11/730 unibus error
: 259 0830 1
: 260 0831 1 Dev_errors: VECTOR [3,byte,unsigned] ! Device error entries
: 261 0832 1 Initial (byte
: 262 0833 1 (EMBSK_DE, ! Device Errors
: 263 0834 1 EMBSK_SP, ! Logstatus entries (mscp)
: 264 0835 1 EMBSK_LM)), ! Logmessage entries (mscp)
: 265 0836 1
: 266 0837 1 Memorys: VECTOR [2,byte,unsigned] ! Memory entries
: 267 0838 1 Initial (byte
: 268 0839 1 (EMBSK_SE, ! Soft ECC error
: 269 0840 1 EMBSK_RE)), ! Hard ECC error
: 270 0841 1
: 271 0842 1 Volume: VECTOR [2,byte,unsigned] ! Volume change entries
: 272 0843 1 Initial (byte
: 273 0844 1 (EMBSK_VM, ! Volume mounts
: 274 0845 1 EMBSK_VD)), ! Volume dismounts
: 275 0846 1

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: 277 0847 1 GLOBAL ROUTINE RECORD_SELECTED =
: 278 0848 2 Begin
: 279 0849 2
: 280 0850 2 |++
: 281 0851 2
: 282 0852 2 Functional Description:
: 283 0853 2
: 284 0854 2 This routine will determine what selection qualifiers are
: 285 0855 2 specified and match the appropriate fields in the current
: 286 0856 2 entry against the selections. It return TRUE if the
: 287 0857 2 current entry matches or return FALSE if the current entry
: 288 0858 2 does NOT match.
: 289 0859 2
: 290 0860 2 Calling sequence:
: 291 0861 2
: 292 0862 2 RECORD_SELECTED ()
: 293 0863 2
: 294 0864 2 Input parameters:
: 295 0865 2
: 296 0866 2 None
: 297 0867 2
: 298 0868 2 Output parameters:
: 299 0869 2
: 300 0870 2 None
: 301 0871 2
: 302 0872 2 --
: 303 0873 2
: 304 0874 2 LOCAL
: 305 0875 2 Include_status: BYTE
: 306 0876 2 Initial (true),
: 307 0877 2 Exclude_status: BYTE
: 308 0878 2 Initial (true) ;
: 309 0879 2
: 310 0880 2 lstlun = .syecom [syel_lstlun];
: 311 0881 2
: 312 0882 2
: 313 0883 2 Validate the packet for entry/cpu type and device class/type.
: 314 0884 2
: 315 0885 2 If NOT (VALIDATE_PACKET ())
: 316 0886 2 Then
: 317 0887 2 Unknown_entry = true
: 318 0888 2 Else
: 319 0889 2 Unknown_entry = false ;
: 320 0890 2
: 321 0891 2
: 322 0892 2 Determine if /summary selected and update that entry summary
: 323 0893 2 information.
: 324 0894 2
: 325 0895 2 If (.option_flag[opt$summary_qual] AND
: 326 0896 2 (.summary_flag[sum$entry] OR
: 327 0897 2 .summary_flag[sum$all_summ] OR
: 328 0898 2 .summary_flag[sum$histogram]))
: 329 0899 2 Then
: 330 0900 2 Exec_image (summary_dispatcher_addr,lstlun,%REF(entry_summ_upd)) ;
: 331 0901 2
: 332 0902 2
: 333 0903 2 If incomplete entry report the error.

```



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334 0904 2  |
335 0905 2  |
336 0906 2  | If ((NOT .syecom[sye$b_valid_entry]) AND
337 0907 2  | (.emb[emb$w_hd_entry] GEQ incomplete_entry))
338 0908 2  | Then
339 0909 2  | Begin
340 0910 2  |   Signal (erf_incentry, 1, .emb[emb$w_hd_entry]);
341 0911 2  |   Return false;
342 0912 2  | End;
343 0913 2  |
344 0914 2  | Determine whether the volume mounts/dismounts should be output or just
345 0915 2  | label information saved from the entry.
346 0916 2  |
347 0917 3  | If (.exclude_mask[exc$v_volume] AND
348 0918 4  |   (.include_mask[inc$v_device_select] OR
349 0919 4  |   .include_mask[inc$v_dev_class_select] OR
350 0920 4  |   .include_mask[inc$v_dev_attentions] OR
351 0921 4  |   .include_mask[inc$v_dev_errors] OR
352 0922 4  |   .include_mask[inc$v_dev_timeouts])) AND
353 0923 2  | (NOT .include_mask[inc$v_volume] OR
354 0924 2  | NOT .option_flag[opt$v_output_all])
355 0925 2  | Then
356 0926 2  |
357 0927 2  |   Indicate that volume mount/dismount entries
358 0928 2  |   should not be output.
359 0929 2  |
360 0930 2  |   Syecom[sye$b_volume_output] = false
361 0931 2  | Else
362 0932 2  |   Syecom[sye$b_volume_output] = true ;
363 0933 2  |
364 0934 2  |
365 0935 2  | Determine if the /ENTRY qualifier was specified.
366 0936 2  |
367 0937 2  | If .option_flag[opt$v_entry_qual]
368 0938 2  | Then
369 0939 2  |
370 0940 2  |   /Entry specified, get the address of the entry selection
371 0941 2  |   data and determine if the number of this entry
372 0942 2  |   is within the selected range.
373 0943 2  |
374 0944 2  | Begin
375 0945 2  | If .syecom[sye$l_recnt] LSSU .parser_data[erl$l_end_entry]
376 0946 2  | Then
377 0947 2  |
378 0948 2  |   This entry should be within the selected range, ensure
379 0949 2  |   the entry number is greater than the starting entry selection.
380 0950 3  |
381 0951 4  |   Begin
382 0952 5  |   If NOT (.syecom[sye$l_recnt] GEQU .parser_data[erl$l_start_entry])
383 0953 4  |   Then
384 0954 4  |
385 0955 4  |     Entry is NOT within the selected range, return to calling
386 0956 4  |     routine.
387 0957 4  |
388 0958 4  |   Return false ;
389 0959 4  |   End
390 0960 3  | Else

```



```

448      1018 2      End ;
449      1019 2
450      1020 2
451      1021 2      Determine if the /SID_REGISTER qualifier was specified.
452      1022 2
453      1023 2      If .option_flag[opt$sv_sid_reg_qual]
454      1024 2      Then
455      1025 2
456      1026 2      Determine if the entry sid matches the selected sid.
457      1027 2
458      1028 2      Begin
459      1029 2      If NOT .parser_data[erl$l_sid_selection] EQLU .emb[emb$l_hd_sid]
460      1030 2      Then
461      1031 2
462      1032 2      Entry sid does NOT match selected sid, return to calling
463      1033 2      routine.
464      1034 2
465      1035 2      Return false ;
466      1036 2      End ;
467      1037 2
468      1038 2      Device_status = false ;
469      1039 2      Dev_cls_status = false ;
470      1040 2      Entry_status = false ;
471      1041 2
472      1042 2      Dev_type_entry_sts = DEVICE_TYPE_ENTRY ( ) ;
473      1043 2
474      1044 2      If .option_flag[opt$sv_include_qual]
475      1045 2      Then
476      1046 2      Begin
477      1047 2      Exclude_flag = false ;
478      1048 2
479      1049 2      If .dev_type_entry_sts OR
480      1050 2      (.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
481      1051 2      (.emb[emb$w_hd_entry] EQLU EMB$K_VD)
482      1052 2      Then
483      1053 2      Begin
484      1054 2      If .include_mask[inc$sv_device_select]
485      1055 2      Then
486      1056 2      Begin
487      1057 2      If VERIFY_DEVICE ( )
488      1058 2      Then
489      1059 2      Device_status = true
490      1060 2      Else
491      1061 2      Device_status = false ;
492      1062 2      End ;
493      1063 2
494      1064 2      If .include_mask[inc$sv_dev_class_select]
495      1065 2      Then
496      1066 2      Begin
497      1067 2      If VERIFY_DEVICE_CLASS ( )
498      1068 2      Then
499      1069 2      Dev_cls_status = true
500      1070 2      Else
501      1071 2      Dev_cls_status = false ;
502      1072 2      End ;
503      1073 2      End ;
504      1074 2

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: 505      1075 3      If .include_mask[inc$v_entry_select]
: 506      1076 3      Then
: 507      1077 4          Begin
: 508      1078 4          If VERIFY_ENTRY ()
: 509      1079 4          Then
: 510      1080 4              Entry_status = true
: 511      1081 4          Else
: 512      1082 4              Entry_status = false ;
: 513      1083 3          End ;
: 514      1084 3
: 515      1085 3
: 516      1086 4      If (.include_mask[inc$v_device_select] AND
: 517      1087 3          .dev_type_entry_sts AND .device_status) OR
: 518      1088 3
: 519      1089 4          (.include_mask[inc$v_dev_class_select] AND
: 520      1090 3          .dev_type_entry_sts AND .dev_cls_status) OR
: 521      1091 3
: 522      1092 4          (.include_mask[inc$v_entry_select] AND .entry_status)
: 523      1093 3      Then
: 524      1094 3          Include_status = true
: 525      1095 3      Else
: 526      1096 3          Include_status = false ;
: 527      1097 3
: 528      1098 3
: 529      1099 3      If .include_mask[inc$v_device_select] AND
: 530      1100 3          .include_mask[inc$v_entry_select]
: 531      1101 3      Then
: 532      1102 4          Begin
: 533      1103 4          Include_status = false ;
: 534      1104 4
: 535      1105 4          If .dev_selection_required
: 536      1106 4          Then
: 537      1107 5              Begin
: 538      1108 5                  If (.entry_status AND .device_status) OR
: 539      1109 6                      (.dev_type_entry_sts AND .device_status)
: 540      1110 5                  Then
: 541      1111 5                      Include_status = true ;
: 542      1112 5                  End
: 543      1113 4          Else
: 544      1114 5              Begin
: 545      1115 5                  If .dev_type_entry_sts AND .device_status
: 546      1116 5                  Then
: 547      1117 6                      Begin
: 548      1118 6                          Include_status = true ;
: 549      1119 6                      End
: 550      1120 5                  Else
: 551      1121 6                      Begin
: 552      1122 7                          If (NOT .dev_type_entry_sts AND .entry_status)
: 553      1123 6                          Then
: 554      1124 6                              Include_status = true ;
: 555      1125 5                          End ;
: 556      1126 5                      End ;
: 557      1127 3                  End ;
: 558      1128 3
: 559      1129 3      If .include_mask[inc$v_dev_class_select] AND
: 560      1130 3          .include_mask[inc$v_entry_select]
: 561      1131 3      Then

```

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: 562      1132  4      Begin
: 563      1133  4      Include_status = false ;
: 564      1134  4
: 565      1135  4      If .dev_selection_required
: 566      1136  4      Then
: 567      1137  5          Begin
: 568      1138  5              If (.entry_status AND .dev_cls_status) OR
: 569      1139  6                  (.dev_type_entry_sts AND .dev_cls_status)
: 570      1140  5              Then
: 571      1141  5                  Include_status = true ;
: 572      1142  5              End
: 573      1143  4          Else
: 574      1144  5              Begin
: 575      1145  5                  If .dev_type_entry_sts AND .dev_cls_status
: 576      1146  5                  Then
: 577      1147  6                      Begin
: 578      1148  6                          Include_status = true ;
: 579      1149  6                      End
: 580      1150  5                  Else
: 581      1151  6                      Begin
: 582      1152  7                          If (NOT .dev_type_entry_sts AND .entry_status)
: 583      1153  6                          Then
: 584      1154  6                              Include_status = true ;
: 585      1155  5                          End ;
: 586      1156  4                      End ;
: 587      1157  3          End ;
: 588      1158  3
: 589      1159  2      End ;
: 590      1160  2
: 591      1161  2      :
: 592      1162  2      :If not /include option then include_status = false
: 593      1163  2      :
: 594      1164  2      :
: 595      1165  2      If .option_flag[opt$exclude_qual]
: 596      1166  2      Then
: 597      1167  3          Begin
: 598      1168  3              Exclude_flag = true ;
: 599      1169  3
: 600      1170  3      If .dev_type_entry_sts OR
: 601      1171  3          (.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
: 602      1172  4          (.emb[emb$w_hd_entry] EQLU EMB$K_VD)
: 603      1173  3      Then
: 604      1174  4          Begin
: 605      1175  4              If .exclude_mask[exc$device_select]
: 606      1176  4              Then
: 607      1177  5                  Begin
: 608      1178  5                      If VERIFY_DEVICE ( )
: 609      1179  5                      Then
: 610      1180  5                          Device_status = true
: 611      1181  5                      Else
: 612      1182  5                          Device_status = false ;
: 613      1183  4                      End ;
: 614      1184  4          End ;
: 615      1185  4      If .exclude_mask[exc$dev_class_select]
: 616      1186  4      Then
: 617      1187  5          Begin
: 618      1188  5              If VERIFY_DEVICE_CLASS ( )

```

```

: 619      1189  5          Then
: 620      1190  5          Dev_cls_status = true
: 621      1191  5          Else
: 622      1192  5          Dev_cls_status = false ;
: 623      1193  4          End ;
: 624      1194  3          End ;
: 625      1195  3
: 626      1196  3
: 627      1197  3      If .exclude_mask[exc$V_entry_select]
: 628      1198  4      Then
: 629      1199  4          Begin
: 630      1200  4          If VERIFY_ENTRY ()
: 631      1201  4          Then
: 632      1202  4              Entry_status = true
: 633      1203  4          Else
: 634      1204  3              Entry_status = false ;
: 635      1205  3          End ;
: 636      1206  4      If (.exclude_mask[exc$V_device_select] AND
: 637      1207  3          .dev_type_entry_sts AND .device_status) OR
: 638      1208  3          (.exclude_mask[exc$V_dev_class_select] AND
: 639      1209  4          .dev_type_entry_sts AND .dev_c[s_status] OR
: 640      1210  3          (.exclude_mask[exc$V_entry_select] AND .entry_status)
: 641      1211  3      Then
: 642      1212  4          Exclude_status = false
: 643      1213  3      Else
: 644      1214  3          Exclude_status = true ;
: 645      1215  3
: 646      1216  3
: 647      1217  3
: 648      1218  3
: 649      1219  3      If .exclude_mask[exc$V_device_select] AND
: 650      1220  3          .exclude_mask[exc$V_entry_select]
: 651      1221  3      Then
: 652      1222  4          Begin
: 653      1223  4          Exclude_status = true ;
: 654      1224  4
: 655      1225  4          If .dev_selection_required
: 656      1226  4          Then
: 657      1227  5              Begin
: 658      1228  5                  If (.entry_status AND .device_status) OR
: 659      1229  6                      (.dev_type_entry_sts AND .device_status)
: 660      1230  5                  Then
: 661      1231  5                      Exclude_status = false ;
: 662      1232  5                  End
: 663      1233  4              Else
: 664      1234  5                  Begin
: 665      1235  5                      If .dev_type_entry_sts AND .device_status
: 666      1236  5                      Then
: 667      1237  6                          Begin
: 668      1238  6                              Exclude_status = false ;
: 669      1239  6                          End
: 670      1240  5                      Else
: 671      1241  6                          Begin
: 672      1242  7                              If (NOT .dev_type_entry_sts AND .entry_status)
: 673      1243  6                              Then
: 674      1244  6                                  Exclude_status = false ;
: 675      1245  5                          End ;

```

```

: 676      1246  4      End ;
: 677      1247  3      End ;
: 678      1248  3
: 679      1249  3      If .exclude_mask[exc$v_dev_class_select] AND
: 680      1250  3      .exclude_mask[exc$v_entry_select]
: 681      1251  3      Then
: 682      1252  4      Begin
: 683      1253  4      Exclude_status = true ;
: 684      1254  4
: 685      1255  4      If .dev_selection_required
: 686      1256  4      Then
: 687      1257  5      Begin
: 688      1258  5      If (.entry_status AND .dev_cls_status) OR
: 689      1259  6      (.dev_type_entry_sts AND .dev_cls_status)
: 690      1260  5      Then
: 691      1261  5      Exclude_status = false ;
: 692      1262  5      End
: 693      1263  4      Else
: 694      1264  5      Begin
: 695      1265  5      If .dev_type_entry_sts AND .dev_cls_status
: 696      1266  5      Then
: 697      1267  6      Begin
: 698      1268  6      Exclude_status = false ;
: 699      1269  6      End
: 700      1270  5      Else
: 701      1271  6      Begin
: 702      1272  7      If (NOT .dev_type_entry_sts AND .entry_status)
: 703      1273  6      Then
: 704      1274  6      Exclude_status = false ;
: 705      1275  5      End ;
: 706      1276  4      End ;
: 707      1277  3      End ;
: 708      1278  3
: 709      1279  2      End ;      ! of /exclude processing
: 710      1280  2
: 711      1281  2      IF /exclude option match, exclude_status = false.
: 712      1282  2
: 713      1283  2
: 714      1284  2
: 715      1285  2
: 716      1286  2      Determine whether to count logmessage/logstatus entries.
: 717      1287  2
: 718      1288  3      If ( (.include_status) AND (.exclude_status) AND
: 719      1289  3      (.parser_data[erl$b_rpt_type] EQ[ full_rep) )
: 720      1290  2      Then
: 721      1291  2
: 722      1292  2      Determine if it was a logmessage/logstatus entry.
: 723      1293  2
: 724      1294  3      Begin
: 725      1295  3      If (.emb[emb$w_hd_entry] EQLU EMB$C SP) OR
: 726      1296  4      (.emb[emb$w_hd_entry] EQLU EMB$C_LM)
: 727      1297  3      Then
: 728      1298  3
: 729      1299  3      Count the number of logmessage/logstatus entries
: 730      1300  3      that might be skipped.
: 731      1301  3
: 732      1302  3      INTERVENE_INCREMENT (lstlun)

```

```

: 733      1303      3      Else
: 734      1304      3      :
: 735      1305      3      : Determine whether to output the logstatus/logmessage
: 736      1306      3      : intervening message and if necessary output it.
: 737      1307      3      :
: 738      1308      3      : INTERVENE_OUTPUT (lstlun) ;
: 739      1309      2      End ;
: 740      1310      2      :
: 741      1311      2      :
: 742      1312      2      : Determine if the entry met the selection criteria.
: 743      1313      2      :
: 744      1314      2      : Determine if this is an unknown entry.
: 745      1315      2      :
: 746      1316      2      if .unknown_entry
: 747      1317      2      then
: 001 SAR0293 1318      2      : Determine whether this entry should be output.
: 002 SAR0293 1319      2      :
: 003 SAR0293 1320      3      Begin
: 004 SAR0293 1321      3      if .exclude_mask[exc$v_unknown_entry]
: 005 SAR0293 1322      3      then
: 006 SAR0293 1323      3      : Indicate that this entry should not be output.
: 007 SAR0293 1324      3      :
: 008 SAR0293 1325      3      Return false
: 009 SAR0293 1326      3      Else
: 010 SAR0293 1327      3      : Indicate that this entry should be output.
: 011 SAR0293 1328      3      :
: 012 SAR0293 1329      3      Return true ;
: 013 SAR0293 1330      2      End ;
: 014 SAR0293 1331      2      :
: 752-4    1332      2      :
: 753      1333      2      if (NOT .include_status) OR
: 754      1334      3      (NOT .exclude_status)
: 755      1335      2      then
: 756      1336      2      :
: 757      1337      2      : Indicate that the entry should not be output by
: 758      1338      2      : returning to the calling routine with a false value.
: 759      1339      2      :
: 760      1340      2      Return false ;
: 761      1341      2      :
: 762      1342      2      :
: 763      1343      2      : Indicate that the entry should be output by
: 764      1344      2      : returning to the calling routine with a true value.
: 765      1345      2      :
: 766      1346      2      Return true ;
: 767      1347      2      :
: 768      1348      1      End ; ! Routine

```

.TITLE RECSELECT Entry Validation
.IDENT \V04-001\

.PSECT \$OWNS,NOEXE, PIC,2

0000 LSTLUN: .BLKB 4
0004 DEV_SELECTION_REQUIRED:
.BLKB 1
0005 DEVICE_STATUS:


```

00006 DEV_CLS_STATUS: .BLKB 1
00007 DEV_TYPE_ENTRY_STS: .BLKB 1
00008 ENTRY_STATUS: .BLKB 1
00009 .BLKB 3
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
0B 0A 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_INKCLASS
.EXTRN ERF_UNKCPU, ERF
.EXTRN ERF_UNKTYPE, CLAS
.EXTRN DEVICE_CLASS, DEVL
.EXTRN EMB, EXCLUDE_FLAG
.EXTRN EXCLUDE_MASK, INCLUDE_MA
.EXTRN OPTION_FLAG, PARSER_DATA
.EXTRN PROCESSOR_TYPE, SUMMARY_DIS, ADDR
.EXTRN SUMMARY_FLAG, SYECOM
.EXTRN UNKNOWN_ENTRY

.PSECT $CODE, NOWRT, PIC, 2

OFFC 00000 .ENTRY RECORD_SELECTED, Save R2,R3,R4,R5,R6,R7,R8,-; 0847
5B 00000000G 00 9E 00002 MOVAB PARSER_DATA, R11
5A 00000000G 00 9E 00009 MOVAB OPTION_FLAG, R10
59 00000000G 00 9E 00010 MOVAB SYECOM+24, R9
58 00000000G 00 9E 00017 MOVAB INCLUDE_MASK, R8
57 00000000G 00 9E 0001E MOVAB EXCLUDE_MASK, R7
56 00000000G 00 9E 00025 MOVAB EMB+4, R6
55 00000000' 00 9E 0002C MOVAB ENTRY_STATUS, R5
5E 04 C? C0033 SUBL2 #4, SP
54 01 90 00036 MOVB #1, INCLUDE_STATUS 0848
53 01 90 00039 MOVB #1, EXCLUDE_STATUS
FB A5 OF A9 D0 0003C MOVL SYECOM+39, [STLUN 0880
00000000G 00 00 FB 00041 CALLS #0, VALIDATE_PACKET 0885
09 50 E8 00048 BLBS R0, 1$
00000000G 00 01 D0 0004B MOVL #1, UNKNOWN_ENTRY 0887
06 11 00052 BRB 2$
00000000G 00 D4 00054 1$: CLRL UNKNOWN_ENTRY 0889
50 6A D0 0005A 2$: MOVL OPTION_FLAG, R0 0895

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27	60		0E	E1	0005D	BBC	#14, (R0), 4\$		
	50	00000000G	00	D0	00061	MOVL	SUMMARY_FLAG, R0	0896	
07	60		02	E0	00068	BBS	#2, (R0), 3\$		
	04		60	E8	0006C	BLBS	(R0), 3\$	0897	
15	60		05	E1	0006F	BBC	#5, (R0), 4\$	0898	
	6E		05	D0	00073	MOVL	#5, (SP)	0900	
			5E	DD	00076	PUSHL	SP		
		F8	A5	9F	00078	PUSHAB	LSTLUN		
		00000000G	00	9F	0007B	PUSHAB	SUMMARY_DISPATCHER_ADDR		
	00000000G		03	FB	00081	CALLS	#3, EXEC_IMAGE		
	0080		A9	E8	00088	BLBS	SYECOM+27, 6\$	0905	
			66	B1	0008C	CMPW	EMB+4, #128	0906	
			15	1F	00091	BLSSU	6\$		
			7E	66	3C	MOVZWL	EMB+4, -(SP)	0909	
			01	DD	00096	PUSHL	#1		
	00000000G		03	FB	0009E	CALLS	#3, IIBSSIGNAL		
			02F2	31	000A5	BRW	70\$	0910	
			67	D0	000A8	MOVL	EXCLUDE_MASK, R0	0917	
29	60		12	E1	000AB	BBC	#18, (R0), 9\$		
	50		68	D0	000AF	MOVL	INCLUDE_MASK, R0	0918	
10	60		14	E0	000B2	BBS	#20, (R0), 7\$		
0C	60		15	E0	000B6	BBS	#21, (R0), 7\$	0919	
08	60		09	E0	000BA	BBS	#9, (R0), 7\$	0920	
04	60		0D	E0	000BE	BBS	#13, (R0), 7\$	0921	
	12		02	A0	E9	000C2	BLBC	2(R0), 9\$	0922
	50		68	D0	000C6	MOVL	INCLUDE_MASK, R0	0923	
07	60		12	E1	000C9	BBC	#18, (R0), 8\$		
	50		6A	D0	000CD	MOVL	OPTION_FLAG, R0	0924	
			60	B5	000D0	TSTW	(R0)		
			04	19	000D2	BLSS	9\$		
			69	94	000D4	CLRB	SYECOM+24	0930	
			03	11	000D6	BRB	10\$		
	69		01	90	000D8	MOVB	#1, SYECOM+24	0932	
	52		6A	D0	000DB	MOVL	OPTION_FLAG, R2	0937	
13	62		03	E1	000DE	BBC	#3, (R2), 5\$		
	51	E8	A9	D0	000E2	MOVL	SYECOM, R1	0945	
	50		6B	D0	000E6	MOVL	PARSER_DATA, R0		
	19	A0	51	D1	000E9	CMP	R1, 25(R0)		
			1D	1E	000ED	BGEQU	13\$		
	15	A0	51	D1	000EF	CMP	R1, 21(R0)	0952	
			B0	1F	000F3	BLSSU	5\$		
	50		62	E9	000F5	BLBC	(R2), 14\$	0980	
	68		05	C1	000F8	ADDL3	#5, PARSER_DATA, R0	0988	
	51	06	A6	D0	000FC	MOVL	A+4, R1		
	04	A0	51	D1	00100	CMP	R1, 4(R0)		
			04	12	00104	BNEQ	12\$		
	60		02	A6	D1	00106	CMP	A, (R0)	
			07	1F	0010A	BLSSU	14\$		
	06	A9	01	90	0010C	MOVB	#1, SYECOM+30	0995	
			0283	31	00110	BRW	69\$	0996	
18	62		0D	E1	00113	BBC	#13, (R2), 16\$	1003	
50	68		0D	C1	00117	ADDL3	#13, PARSER_DATA, R0	1011	
	51	06	A6	D0	0011B	MOVL	A+4, R1		
	04	A0	51	D1	0011F	CMP	R1, 4(R0)		
			08	12	00123	BNEQ	15\$		
	60		02	A6	D1	00125	CMP	A, (R0)	

			12	iF	00129	BLSSU	17\$		
			02	11	0012B	BRB	16\$		
			0E	1F	0012D	BLSSU	17\$		
0C		62	0C	E1	0012F	BBC	#12, (R2), 18\$	1023	
		50	6B	D0	00133	MOVL	PARSER_DATA, R0	1029	
	FC	A6	01	A0	D1	00136	CMPL	1(R0), -EMB	
			03	13	0013B	BEQL	18\$		
			025A	31	0013D	BRW	70\$		
			FD	A5	B4	00140	CLRW	DEVICE STATUS	1038
			65	94	00143	CLRB	ENTRY STATUS	1040	
00000000V	00		00	FB	00145	CALLS	#0, DEVICE_TYPE_ENTRY	1042	
	FF		50	90	0014C	MOVB	R0, DEV_TYPE_ENTRY_STS		
			6A	D0	00150	MOVL	OPTION_FLAG, R0	1044	
03		60	06	E0	00153	BBS	#6, (R0), 19\$		
			00F3	31	00157	BRW	41\$		
			00000000G	00	D4	0015A	CLRL	EXCLUDE_FLAG	1047
			FF	A5	E8	00160	BLBS	DEV_TYPE_ENTRY_STS, 20\$	1049
	0040		8F	66	B1	00164	CMPW	EMB+4, #64	1050
			07	13	00169	BEQL	20\$		
	0041		8F	66	B1	0016B	CMPW	EMB+4, #65	1051
			34	12	00170	BNEQ	24\$		
		50	68	D0	00172	MOVL	INCLUDE_MASK, R0	1054	
13		60	14	E1	00175	BBC	#20, (R0), 22\$		
	00000000V	00	00	FB	00179	CALLS	#0, VERIFY_DEVICE	1057	
		06	50	E9	00180	BLBC	R0, 21\$		
		FD	A5	01	90	00183	MOVB	#1, DEVICE_STATUS	1059
			03	11	00187	BRB	22\$		
			FD	A5	94	00189	CLRB	DEVICE STATUS	1061
		50	68	D0	0018C	MOVL	INCLUDE_MASK, R0	1064	
13		60	15	E1	0018F	BBC	#21, (R0), 24\$		
	00000000V	00	00	FB	00193	CALLS	#0, VERIFY_DEVICE_CLASS	1067	
		06	50	E9	0019A	BLBC	R0, 23\$		
		FE	A5	01	90	0019D	MOVB	#1, DEV_CLS_STATUS	1069
			03	11	001A1	BRB	24\$		
			FE	A5	94	001A3	CLRB	DEV_CLS_STATUS	1071
		50	68	D0	001A6	MOVL	INCLUDE_MASK, R0	1075	
11		60	16	E1	001A9	BBC	#22, (R0), 26\$		
	00000000V	00	00	FB	001AD	CALLS	#0, VERIFY_ENTRY	1078	
		05	50	E9	001B4	BLBC	R0, 25\$		
		65	01	90	001B7	MOVB	#1, ENTRY_STATUS	1080	
			02	11	001BA	BRB	26\$		
			65	94	001BC	CLRB	ENTRY STATUS	1082	
08		50	68	D0	001BE	MOVL	INCLUDE_MASK, R0	1086	
		60	14	E1	001C1	BBC	#20, (R0), 27\$		
		04	FF	A5	E9	001C5	BLBC	DEV_TYPE_ENTRY_STS, 27\$	1087
		13	FD	A5	F4	001C7	BLBS	DEVICE STATUS, 29\$	
08		60	15	E1	001CD	BBC	#21, (R0), 28\$	1089	
		04	FF	A5	E9	001D1	BLBC	DEV_TYPE_ENTRY_STS, 28\$	1090
		07	FE	A5	E8	001D5	BLBS	DEV_CLS_STATUS, 29\$	
08		60	16	E1	001D9	BBC	#22, (R0), 30\$	1092	
		05	65	E9	001DD	BLBC	ENTRY STATUS, 30\$		
		54	01	90	001E0	MOVB	#1, INCLUDE_STATUS	1094	
			02	11	001E3	BRB	31\$		
			54	94	001E5	CLRB	INCLUDE STATUS	1096	
2F		60	14	E1	001E7	BBC	#20, (R0), 36\$	1099	
2B		60	16	E1	001EB	BBC	#22, (R0), 36\$	1100	
			54	94	001EF	CLRB	INCLUDE_STATUS	1103	

	11	FC	A5	E9	001F1	BLBC	DEV SELECTION REQUIRED, 33\$	1105
	04		65	E9	001F5	BLBC	ENTRY STATUS, 32\$	1108
	1B	FD	A5	E8	001F8	BLBS	DEVICE STATUS, 35\$	
	1A	FF	A5	E9	001FC	BLBC	DEV TYPE ENTRY_STS, 36\$	1109
	16	FD	A5	E9	00200	BLBC	DEVICE STATUS, 36\$	
			11	11	00204	BRB	35\$	1111
	51	FF	A5	9A	00206	MOVZBL	DEV_TYPE_ENTRY_STS, R1	1115
	07		51	E9	0020A	BLBC	R1, 34\$	
	06	FD	A5	E8	0020D	BLBS	DEVICE STATUS, 35\$	
	06		51	E8	00211	BLBS	R1, 36\$	1122
	03		65	E9	00214	BLBC	ENTRY STATUS, 36\$	
	54		01	90	00217	MOVZBL	#1, INCLUDE STATUS	1124
2F	60		15	E1	0021A	BBC	#21, (R0), 41\$	1129
2B	60		16	E1	0021E	BBC	#22, (R0), 41\$	1130
			54	94	00222	CLRB	INCLUDE STATUS	1133
	11	FC	A5	E9	00224	BLBC	DEV SELECTION REQUIRED, 38\$	1135
	04		65	E9	00228	BLBC	ENTRY STATUS, 37\$	1138
	1B	FE	A5	E8	0022B	BLBS	DEV_CLS STATUS, 40\$	
	1A	FF	A5	E9	0022F	BLBC	DEV_TYPE_ENTRY_STS, 41\$	1139
	16	FE	A5	E9	00233	BLBC	DEV_CLS STATUS, 41\$	
			11	11	00237	BRB	40\$	1141
	50	FF	A5	9A	00239	MOVZBL	DEV_TYPE_ENTRY_STS, R0	1145
	07		50	E9	0023D	BLBC	R0, 39\$	
	06	FE	A5	E8	00240	BLBS	DEV_CLS STATUS, 40\$	
	06		50	E8	00244	BLBS	R0, 41\$	1152
	03		65	E9	00247	BLBC	ENTRY STATUS, 41\$	
	54		01	90	0024A	MOVZBL	#1, INCLUDE STATUS	1154
	50		6A	D0	0024D	MOVL	OPTION FLAG, R0	1165
03	60		04	E0	00250	BBS	#4, (R0), 42\$	
			00F4	31	00254	BRW	64\$	
	00000000G	UG	01	D0	00257	MOVL	#1, EXCLUDE FLAG	1168
		0E	FF	A5	E8	BLBS	DEV_TYPE_ENTRY_STS, 43\$	1170
	0040	8F	66	B1	00262	CMPW	EMB+4, #64	1171
			07	13	00267	BEQL	43\$	
	0041	8F	66	B1	00269	CMPW	EMB+4, #65	1172
			34	12	0026E	BNEQ	47\$	
	50		67	D0	00270	MOVL	EXCLUDE MASK, R0	1175
13	60		14	E1	00273	BBC	#20, (R0), 45\$	
	00C00000V	00	00	FB	00277	CALLS	#0, VERIFY_DEVICE	1178
		06	50	E9	0027E	BLBC	R0, 44\$	
		FD	A5	01	90	MOVZBL	#1, DEVICE STATUS	1180
			03	11	00285	BRB	45\$	
			FD	A5	94	CLRB	DEVICE STATUS	1182
	50		67	D0	0028A	MOVL	EXCLUDE MASK, R0	1185
13	60		15	E1	0028D	BBC	#21, (R0), 47\$	
	00000000V	00	00	FB	00291	CALLS	#0, VERIFY_DEVICE_CLASS	1188
		06	50	E9	00298	BLBC	R0, 46\$	
		FE	A5	01	90	MOVZBL	#1, DEV_CLS STATUS	1190
			03	11	0029F	BRB	47\$	
			FE	A5	94	CLRB	DEV_CLS STATUS	1192
	50		67	D0	002A4	MOVL	EXCLUDE MASK, R0	1196
11	60		16	E1	002A7	BBC	#22, (R0), 49\$	
	000G0000V	00	00	FB	002AB	CALLS	#0, VERIFY_ENTRY	1199
		05	50	E9	002B2	BLBC	R0, 48\$	
		65	01	90	002B5	MOVZBL	#1, ENTRY STATUS	1201
			02	11	002B8	BRB	49\$	
			65	94	002BA	CLRB	ENTRY STATUS	1203

08	50	67	D0	002BC	49\$:	MOVL	EXCLUDE_MASK, R0	1206
	60	14	E1	002BF		BBC	#20, (R0), 50\$	
	04	FF	A5	E9	002C3	BLBC	DEV_TYPE_ENTRY_STS, 50\$	1207
	13	FD	A5	E8	002C7	BLBS	DEVICE_STATUS, 52\$	
08	60	15	E1	002CB	50\$:	BBC	#21, (R0), 51\$	1209
	04	FF	A5	E9	002CF	BLBC	DEV_TYPE_ENTRY_STS, 51\$	1210
	07	FE	A5	E8	002D3	BLBS	DEV_CLS_STATUS, 52\$	
	60	16	E1	002D7	51\$:	BBC	#22, (R0), 53\$	1212
	04	65	E9	002DB		BLBC	ENTRY_STATUS, 53\$	
		53	94	002DE	52\$:	CLRB	EXCLUDE_STATUS	1214
		03	11	002E0		BRB	54\$	
	53	01	90	002E2	53\$:	MOVBL	#1, EXCLUDE_STATUS	1216
2F	60	14	E1	002E5	54\$:	BBC	#20, (R0), 59\$	1219
2B	60	16	E1	002E9		BBC	#22, (R0), 59\$	1220
	53	01	90	002ED		MOVBL	#1, EXCLUDE_STATUS	1223
	11	FC	A5	E9	002F0	BLBC	DEV_SELECTION_REQUIRED, 56\$	1225
	04	65	E9	002F4		BLBC	ENTRY_STATUS, 55\$	1228
	1B	FD	A5	E8	002F7	BLBS	DEVICE_STATUS, 58\$	
	19	FF	A5	E9	002F6	BLBC	DEV_TYPE_ENTRY_STS, 59\$	1229
	15	FD	A5	E9	002FF	BLBC	DEVICE_STATUS, 59\$	
		11	11	00303		BRB	58\$	1231
	51	FF	A5	9A	00305	MOVZBL	DEV_TYPE_ENTRY_STS, R1	1235
	07	51	E9	0C309		BLBC	R1, 57\$	
	06	FD	A5	E8	0030C	BLBS	DEVICE_STATUS, 58\$	
	05	51	E8	00310		BLBS	R1, 59\$	1242
	02	65	E9	00313	57\$:	BLBC	ENTRY_STATUS, 59\$	
		53	94	00316	58\$:	CLRB	EXCLUDE_STATUS	1244
2F	60	15	E1	00318	59\$:	BBC	#21, (R0), 64\$	1249
2B	60	16	E1	0031C		BBC	#22, (R0), 64\$	1250
	53	01	90	00320		MOVBL	#1, EXCLUDE_STATUS	1253
	11	FC	A5	E9	00323	BLBC	DEV_SELECTION_REQUIRED, 61\$	1255
	04	65	E9	00327		BLBC	ENTRY_STATUS, 60\$	1258
	1B	FE	A5	E8	0032A	BLBS	DEV_CLS_STATUS, 63\$	
	19	FF	A5	E9	0032E	BLBC	DEV_TYPE_ENTRY_STS, 64\$	1259
	15	FE	A5	E9	00332	BLBC	DEV_CLS_STATUS, 64\$	
		11	11	00336		BRB	63\$	1261
	50	FF	A5	9A	00338	MOVZBL	DEV_TYPE_ENTRY_STS, R0	1265
	07	50	E9	0033C		BLBC	R0, 62\$	
	06	FE	A5	E8	0033F	BLBS	DEV_CLS_STATUS, 63\$	
	05	50	E8	00343		BLBS	R0, 64\$	1272
	02	65	E9	00346	62\$:	BLBC	ENTRY_STATUS, 64\$	
		53	94	00349	63\$:	CLRB	EXCLUDE_STATUS	1274
	32	54	E9	0034B	64\$:	BLBC	INCLUDE_STATUS, 67\$	1288
	2F	53	E9	0034E		BLBC	EXCLUDE_STATUS, 67\$	
	50	6B	D0	00351		MOVL	PARSER_DATA, R0	1280
	02	60	91	00354		CMPB	(R0), #2	
		27	12	00357		BNEQ	67\$	
	50	66	3C	00359		MOVZWL	EMB+4, R0	1295
0063	8F	50	B1	0035C		CMPW	R0, #99	
		07	13	00361		BEQL	65\$	
0064	8F	50	B1	00363		CMPW	R0, #100	1296
		0C	12	00368		BNEQ	66\$	
		FB	A5	9F	0036A	PUSHAB	LSTLUN	1302
00000000G	00	01	FB	0036D		CALLS	#1, INTERVENE_INCREMENT	
		0A	11	00374		BRB	67\$	
		FB	A5	9F	00376	PUSHAB	LSTLUN	1308
00000000G	00	01	FB	00379		CALLS	#1, INTERVENE_OUTPUT	

RECSELECT
V04-001

Entry Validation

G 1
9-Jan-1985 15:58:31
2-Oct-1984 12:42:25

VAX-11 Bliss-32 V4.0-742
\$255\$DUA42:[ERF.BUGSRC]RECSELECT.B32;1

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(2)

08

09	00000000G	00	E9	00380	67\$:	BLBC	UNKNOWN_ENTRY, 68\$:	1316
50		67	D0	00387		MOVL	EXCLUDE_MASK, R0	:	1321
60		13	E1	0038A		BBC	#19, (R0), 69\$:	
		0A	11	0038E		BRB	70\$:	1329
U7		54	E9	00390	68\$:	BLBC	INCLUDE_STATUS, 70\$:	1333
04		53	E9	00393		BLBC	EXCLUDE_STATUS, 70\$:	1334
50		01	D0	00396	69\$:	MOVL	#1, R0	:	1346
		04	04	00399		RET		:	
		50	D4	0039A	70\$:	CLRL	R0	:	1348
		04	04	0039C		RET		:	

: Routine Size: 925 bytes, Routine Base: \$CODE + 0000

: 769 1349 1
: 770 1350 1

RE
VO

```

: 772 1351 1 ROUTINE VERIFY_ENTRY =
: 773 1352 2 Begin
: 774 1353 2
: 775 1354 2 ++
: 776 1355 2
: 777 1356 2 Functional Description:
: 778 1357 2
: 779 1358 2 This routine will determine if the current entry matches
: 780 1359 2 any of the selected entry types. It return TRUE if the
: 781 1360 2 current entry matches or return FALSE if the current entry
: 782 1361 2 does NOT match.
: 783 1362 2
: 784 1363 2 Calling sequence:
: 785 1364 2
: 786 1365 2 VERIFY_ENTRY ()
: 787 1366 2
: 788 1367 2 Input parameters:
: 789 1368 2
: 790 1369 2 None
: 791 1370 2
: 792 1371 2 Output parameters:
: 793 1372 2
: 794 1373 2 None
: 795 1374 2
: 796 1375 2 --
: 797 1376 2
: 798 1377 2
: 799 1378 2
: 800 1379 2 Initialize a status indicator.
: 801 1380 2
: 802 1381 2 Dev_selection_required = false ;
: 803 1382 2
: 804 1383 2
: 805 1384 2 Determine if device attention entries are selected.
: 806 1385 2
: 807 1386 2 If ((.exclude_mask[exc$v_dev attentions]) OR
: 808 1387 2 (.include_mask[inc$v_dev attentions]))
: 809 1388 2 Then
: 810 1389 2
: 811 1390 2 Determine if this entry is for a device attention.
: 812 1391 2
: 813 1392 2 Begin
: 814 1393 2 Dev_selection_required = true ;
: 815 1394 2 If .emb[emb$w_hd_entry] EQLU EMBSK_DA
: 816 1395 2 Then
: 817 1396 2
: 818 1397 2 Indicate that this entry does match a selected entry
: 819 1398 2 type, by returning to the calling routine with a
: 820 1399 2 true value.
: 821 1400 2
: 822 1401 2 Return true ;
: 823 1402 2 End ;
: 824 1403 2
: 825 1404 2
: 826 1405 2 Determine if bugcheck entries are selected.
: 827 1406 2
: 828 1407 2 If ((.exclude_mask[exc$v_bugchks]) OR

```

```

829 1408 3 (.include_mask[inc$w_bugchks]))
830 1409 2 Then
831 1410 2
832 1411 2 Determine if this entry is for a bugcheck.
833 1412 2
834 1413 3 Begin
835 1414 3   Incr I from 0 to 2 do
836 1415 4     Begin
837 1416 4       If .emb[emb$w_hd_entry] EQLU .bugchks[.I]
838 1417 4       Then
839 1418 4         Determine if this entry does match a selected
840 1419 4         entry type, by returning to the calling routine
841 1420 4         with a true value.
842 1421 4
843 1422 4         Return true ;
844 1423 4       End ;
845 1424 3     End ;
846 1425 2   End ;
847 1426 2
848 1427 2 Determine if 'control entries' are selected.
849 1428 2
850 1429 2
851 1430 3 If ((.exclude_mask[exc$w_control_entry]) OR
852 1431 3 (.include_mask[inc$w_control_entry]))
853 1432 2 Then
854 1433 2
855 1434 2 Determine if this entry is a 'control entry'.
856 1435 2
857 1436 3 Begin
858 1437 3   Incr I from 0 to 6 do
859 1438 4     Begin
860 1439 4       If .emb[emb$w_hd_entry] EQLU .control[.I]
861 1440 4       Then
862 1441 4         Determine if this entry does match a selected
863 1442 4         entry type, by returning to the calling routine
864 1443 4         with a true value.
865 1444 4
866 1445 4         Return true ;
867 1446 4       End ;
868 1447 3     End ;
869 1448 2   End ;
870 1449 2
871 1450 2 Determine if 'cpu entries' are selected.
872 1451 2
873 1452 2
874 1453 3 If ((.exclude_mask[exc$w_cpu_entry]) OR
875 1454 3 (.include_mask[inc$w_cpu_entry]))
876 1455 2 Then
877 1456 2
878 1457 2 Determine if this entry is a 'cpu entry'.
879 1458 2
880 1459 3 Begin
881 1460 3   incr I from 0 to 7 do
882 1461 4     Begin
883 1462 4       If .emb[emb$w_hd_entry] EQLU .cpu[.I]
884 1463 4       Then
885 1464 4

```



```

: 886      1465 4      | Indicate that this entry does match a selected
: 887      1466 4      | entry type, by returning to the calling routine
: 888      1467 4      | with a true value.
: 889      1468 4      |
: 890      1469 4      | Return true ;
: 891      1470 3      | End ;
: 892      1471 2      | End ;
: 893      1472 2      |
: 894      1473 2      |
: 895      1474 2      | Determine if device errors are selected.
: 896      1475 2      |
: 897      1476 2      | If ((.exclude_mask[exc$v_dev_errors]) OR
: 898      1477 2      | (.include_mask[inc$v_dev_errors]))
: 899      1478 2      | Then
: 900      1479 2      |
: 901      1480 2      | Determine if this entry is a device error.
: 902      1481 2      |
: 903      1482 2      | Begin
: 904      1483 2      | Dev_selection_required = true ;
: 905      1484 2      |
: 906      1485 2      | Incr I from 0 to 2 do
: 907      1486 4      | Begin
: 908      1487 4      | If .emb[emb$w_hd_entry] EQLU .dev_errors[.I]
: 909      1488 4      | Then
: 910      1489 4      |
: 911      1490 4      | Indicate that this entry does match a selected
: 912      1491 4      | entry type, by returning to the calling routine
: 913      1492 4      | with a true value.
: 914      1493 4      |
: 915      1494 4      | Return true ;
: 916      1495 4      | End ;
: 917      1496 3      | End ;
: 918      1497 2      |
: 919      1498 2      |
: 920      1499 2      | Determine if machine checks are selected.
: 921      1500 2      |
: 922      1501 2      | If ((.exclude_mask[exc$v_machine_chks]) OR
: 923      1502 2      | (.include_mask[inc$v_machine_chks]))
: 924      1503 2      | Then
: 925      1504 2      |
: 926      1505 2      | Determine if this entry is a machine check.
: 927      1506 2      |
: 928      1507 2      | Begin
: 929      1508 2      | If .emb[emb$w_hd_entry] EQLU EMB$K_MC
: 930      1509 2      | Then
: 931      1510 2      |
: 932      1511 2      | Indicate that this entry does match a selected
: 933      1512 2      | entry type, by returning to the calling routine
: 934      1513 2      | with a true value.
: 935      1514 2      |
: 936      1515 2      | Return true ;
: 937      1516 2      | End ;
: 938      1517 2      |
: 939      1518 2      |
: 940      1519 2      | Determine if memory entries are selected.
: 941      1520 2      |
: 942      1521 2      | If ((.exclude_mask[exc$v_memory]) OR

```

```

: 943 1522 3 (.include_mask[inc$V_memory]))
: 944 1523 3 Then
: 945 1524 3
: 946 1525 3 Determine if this entry is a 'memory entry'.
: 947 1526 3
: 948 1527 3 Begin
: 949 1528 3 Incr I from 0 to 1 do
: 950 1529 4 Begin
: 951 1530 4 If .emb[emb$w_hd_entry] EQLU .memorys[.]
: 952 1531 4 Then
: 953 1532 4
: 954 1533 4 Determine if this entry does match a selected
: 955 1534 4 entry type, by returning to the calling routine
: 956 1535 4 with a true value.
: 957 1536 4
: 958 1537 4 Return true ;
: 959 1538 4 End ;
: 960 1539 3 End ;
: 961 1540 3
: 962 1541 3 Determine if device timeouts are selected.
: 963 1542 3
: 964 1543 3
: 965 1544 3 If ((.exclude_mask[exc$V_dev_timeouts]) OR
: 966 1545 3 (.include_mask[inc$V_dev_timeouts]))
: 967 1546 3 Then
: 968 1547 3
: 969 1548 3 Determine if this entry is a device timeouts.
: 970 1549 3
: 971 1550 3 Begin
: 972 1551 3 Dev_selection_required = true ;
: 973 1552 3
: 974 1553 3 If .emb[emb$w_hd_entry] EQLU EMB$K_DT
: 975 1554 3 Then
: 976 1555 3
: 977 1556 3 Determine if this entry does match a selected
: 978 1557 3 entry type, by returning to the calling routine
: 979 1558 3 with a true value.
: 980 1559 3
: 981 1560 3 Return true ;
: 982 1561 3 End ;
: 983 1562 3
: 984 1563 3
: 985 1564 3 Determine if unknown entries have been selected.
: 986 1565 3
: 987 1566 3 If unknown entries have not been excluded, then see if this is an
: 988 1567 3 unknown entry. If it is set UNKNOWN_ENTRY true.
: 989 1568 3
: 990 1569 3 Initialize the unknown entry indicator (not an unknown entry).
: 991 1570 3
: 992 1571 3 If ((.exclude_mask[exc$V_unknown_entry]) OR
: 993 1572 3 (.include_mask[inc$V_unknown_entry]))
: 994 1573 3 Then
: 995 1574 3
: 996 1575 3 Determine if this is an unknown entry.
: 997 1576 3
: 998 1577 3 Begin
: 999 1578 3 If .unknown_entry
```

```

1000 1579 3 Then Return true ;
1001 1580 2 End ;
1002 1581 2
1003 1582 2
1004 1583 2 Determine if unsolicited mscp entries are selected.
1005 1584 2
1006 1585 2 If ((.exclude_mask[exc$v_unsol_mscp]) OR
1007 1586 2 (.include_mask[inc$v_unsol_mscp]))
1008 1587 2 Then
1009 1588 2
1010 1589 2 Determine if this entry is an unsolicited mscp entry.
1011 1590 2
1012 1591 2 Begin
1013 1592 2 If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP
1014 1593 2 Then
1015 1594 2
1016 1595 2 Indicate that this entry does match a selected
1017 1596 2 entry type, by returning to the calling routine
1018 1597 2 with a true value.
1019 1598 2
1020 1599 2 Return true ;
1021 1600 2 End ;
1022 1601 2
1023 1602 2 Determine if volume changes are to be excluded.
1024 1603 2
1025 1604 2
1026 1605 2 If ((.exclude_mask[exc$v_volume])
1027 1606 2 OR (.include_mask[inc$v_volume]))
1028 1607 2 Then
1029 1608 2
1030 1609 2 Determine if this entry is a volume entry.
1031 1610 2
1032 1611 2 Begin
1033 1612 2 Dev_selection_required = true ;
1034 1613 2
1035 1614 2 Incr I from 0 to 1 do
1036 1615 2 Begin
1037 1616 2 If .emb[emb$w_hd_entry] EQLU .volume[.I]
1038 1617 2 Then
1039 1618 2
1040 1619 2 Indicate that this entry does match a selected
1041 1620 2 entry type, by returning to the calling routine
1042 1621 2 with a true value.
1043 1622 2
1044 1623 2 Return true ;
1045 1624 2 End
1046 1625 2 End ;
1047 1626 2
1048 1627 2
1049 1628 2 Indicate that this entry does not match any of the selected
1050 1629 2 entry types, by returning to the calling routine with a
1051 1630 2 false value.
1052 1631 2
1053 1632 2 Return false ;
1054 1633 1 End ; ! Routine

```

		003C 00000		VERIFY_ENTRY:			
		55	00000000G	00 9E 00002	.WORD	Save R2,R3,R4,R5	1351
		54	00000000'	00 9E 00009	MOVAB	EMB+4, R5	
		53	00000000G	00 9E 00010	MOVAB	DEV_SELECTION_REQUIRED, R4	
				64 94 00017	MOVAB	INCLUDE_MASK, R3	
		51	00000000G	00 D0 00019	CLRB	DEV_SELECTION_REQUIRED	1381
07		61		09 E0 00020	MOVL	EXCLUDE_MASK, R1	1386
		50		63 D0 00024	BBS	#9, (R1), 1\$	
0A		60		09 E1 00027	MOVL	INCLUDE_MASK, R0	1387
		64		01 90 0002B	BBC	#9, (R0), 2\$	
	0062	8F		65 B1 0002E	MOVB	#1, DEV_SELECTION_REQUIRED	1393
				7D 13 00033	CMPW	EMB+4, #98	1394
07		61		0A E0 00035	BEQL	16\$	
		50		63 D0 00039	BBS	#10, (R1), 3\$	1407
10		60		0A E1 0003C	MOVL	INCLUDE_MASK, R0	1408
				50 D4 00040	BBC	#10, (R0), 5\$	
		52	0C A440	9A 00042	CLRL	I	1416
		65		52 B1 00047	MOVZBL	BUGCHKSC[I], R2	
				7D 13 0004A	CMPW	R2, EMB+4	
F2		50		02 F3 0004C	BEQL	20\$	
07		61		0B E0 00050	AOBLEQ	#2, I, 4\$	1414
		50		63 D0 00054	BBS	#11, (R1), 6\$	1430
10		60		0B E1 00057	MOVL	INCLUDE_MASK, R0	1431
				50 D4 0005B	BBC	#11, (R0), 8\$	
		52	10 A440	9A 0005D	CLRL	I	1439
		65		52 B1 00062	MOVZBL	CONTROL[I], R2	
				7B 13 00065	CMPW	R2, EMB+4	
F2		50		06 F3 00067	BEQL	23\$	
07		61		0C E0 0006B	AOBLEQ	#6, I, 7\$	1437
		50		63 D0 0006F	BBS	#12, (R1), 9\$	1453
10		60		0C E1 00072	MOVL	INCLUDE_MASK, R0	1454
				50 D4 00076	BBC	#12, (R0), 11\$	
		52	18 A440	9A 00078	CLRL	I	1462
		65		52 B1 0007D	MOVZBL	CPU[I], R2	
				60 13 00080	CMPW	R2, EMB+4	
F2		50		07 F3 00082	BEQL	23\$	
07		61		0D E0 00086	AOBLEQ	#7, I, 10\$	1460
		50		63 D0 0008A	BBS	#13, (R1), 12\$	1476
13		60		0D E1 0008D	MOVL	INCLUDE_MASK, R0	1477
		64		01 90 00091	BBC	#13, (R0), 14\$	
				50 D4 00094	MOVB	#1, DEV_SELECTION_REQUIRED	1483
		52	20 A440	9A 00096	CLRL	I	1487
		65		52 B1 0009B	MOVZBL	DEV_ERRORS[I], R2	
				66 13 0009E	CMPW	R2, EMB+4	
F2		50		02 F3 000A0	BEQL	28\$	
07		61		0E E0 000A4	AOBLEQ	#2, I, 13\$	1485
		50		63 D0 000A8	BBS	#14, (R1), 15\$	1501
05		60		0E E1 000AB	MOVL	INCLUDE_MASK, R0	1502
		02		65 B1 000AF	BBC	#14, (R0), 17\$	
				6E 13 000B2	CMPW	EMB+4, #2	1508
				61 B5 000B4	BEQL	32\$	
				07 19 000B6	TSTW	(R1)	1521
		50		63 D0 000B8	BLSS	18\$	
					MOVL	INCLUDE_MASK, R0	1522

		60	B5	000BB	TSTW	(R0)		
		10	18	000BD	BGEC	21\$		
		50	D4	000BF	CLRL	I		1530
	52	24	A440	9A 000C1	MOVZBL	MEMORYSI], R2		
	65			52 B1 000C6	CMPW	R2, EMB+4		
				57 13 000C9	BEQL	32\$		
F2	50			01 F3 000CB	AOBLEQ	#1, I, 19\$		1528
	07	02		A1 E8 000CF	BLBS	2(R1), 22\$		1544
	50			63 D0 000D3	MOVL	INCLUDE MASK, R0		1545
	0A	02		A0 E9 000D6	BLBC	2(R0), 24\$		
	64			01 90 000DA	MOVB	#1, DEV_SELECTION_REQUIRED		1551
	0060			65 B1 000DD	CMPW	EMB+4, #96		1553
				3E 13 000E2	BEQL	32\$		
07	61			13 E0 000E4	BBS	#19, (R1), 25\$		1571
	50			63 D0 000E8	MOVL	INCLUDE MASK, R0		1572
07	60			13 E1 000EB	BBC	#19, (R0), 26\$		
	2C	00000000G		00 E8 000EF	BLBS	UNKNOWN ENTRY, 32\$		1578
07	61			11 E0 000F6	BBS	#17, (R1), 27\$		1585
	50			63 D0 000FA	MOVL	INCLUDE MASK, R0		1586
07	60			11 E1 000FD	BBC	#17, (R0), 29\$		
	0065			65 B1 00101	CMPW	EMB+4, #101		1592
				1A 13 00106	BEQL	32\$		
07	61			12 E0 00108	BBS	#18, (R1), 30\$		1605
	50			63 D0 0010C	MOVL	INCLUDE MASK, R0		1606
17	60			12 E1 0010F	BBC	#18, (R0), 34\$		
	64			01 90 00113	MOVB	#1, DEV_SELECTION_REQUIRED		1612
				50 D4 00116	CLRL	I		1616
	51	28	A440	9A 00118	MOVZBL	VOLUMEI], R1		
	65			51 B1 0011D	CMPW	R1, EMB+4		
				04 12 00120	BNEQ	33\$		
	50			01 D0 00122	MOVL	#1, R0		1623
				04 00125	RET			
EE	50			01 F3 00126	AOBLEQ	#1, I, 31\$		1614
				50 D4 0012A	CLRL	R0		1632
				04 0012C	RET			1633

: Routine Size: 301 bytes, Routine Base: \$CODE + 039D

: 1055 1634 1

```

: 1057      1635 1 GLOBAL ROUTINE DEVICE_TYPE_ENTRY =
: 1058      1636 2 Begin
: 1059      1637 2
: 1060      1638 2 ++
: 1061      1639 2
: 1062      1640 2 Functional Description:
: 1063      1641 2
: 1064      1642 2 This routine will determine if the current entry is a device
: 1065      1643 2 type entry; (device attention, device error, device timeout,
: 1066      1644 2 volume dismount, volume mount). It return TRUE if the current
: 1067      1645 2 entry matches any of the device type entries or return FALSE
: 1068      1646 2 if the current entry does NOT match.
: 1069      1647 2
: 1070      1648 2 Calling sequence:
: 1071      1649 2
: 1072      1650 2 DEVICE_ENTRY_TYPE ( )
: 1073      1651 2
: 1074      1652 2 Input parameters:
: 1075      1653 2
: 1076      1654 2 None
: 1077      1655 2
: 1078      1656 2 Output parameters:
: 1079      1657 2
: 1080      1658 2 None
: 1081      1659 2
: 1082      1660 2 --
: 1083      1661 2
: 1084      1662 2 OWN
: 1085      1663 2 Device_entries: VECTOR [6,byte,unsigned] ! Storage for device type
: 1086      1664 2 ! entries.
: 1087      1665 2 Initial (BYTE
: 1088      1666 2 (EMBSK_DA, ! Device attentions
: 1089      1667 2 EMBSK_DE, ! Device errors
: 1090      1668 2 EMBSK_DT, ! Device timeouts
: 1091      1669 2 EMBSK_LM,
: 1092      1670 2 EMBSK_SP, ! Log message
: 1093      1671 2 EMBSK_LOGMSCP) ! Unsolicited mscp msg
: 1094      1672 2
: 1095      1673 2
: 1096      1674 2 Determine if the current entry is a device type entry.
: 1097      1675 2
: 1098      1676 2 Incr I from 0 to 5 do
: 1099      1677 2 Begin
: 1100      1678 2 If .emb[emb$w_hd_entry] EQLU .device_entries[.I]
: 1101      1679 2 Then
: 1102      1680 2
: 1103      1681 2 Indicate that this is a device type entry, by
: 1104      1682 2 returning to the calling routine with a true value.
: 1105      1683 2
: 1106      1684 2 Return true ;
: 1107      1685 2 End ;
: 1108      1686 2
: 1109      1687 2
: 1110      1688 2 Indicate that this is NOT a device type entry, by returning
: 1111      1689 2 to the calling routine with a false value.
: 1112      1690 2
: 1113      1691 2 Return false ;

```

: 1114 1692 2
: 1115 1693 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 : 1635
50 D4 00002 CLR I : 1678
00000000G 51 00000000'0040 9A 00004 1\$: MOVZBL DEVICE_ENTRIES[I], R1
51 B1 0000C CMPW R1, EMB+4
04 12 00013 BNEQ 2\$
50 01 D0 00015 MOVL #1, R0 : 1684
E7 50 04 00018 RET
05 F3 00019 2\$: AOBLEQ #5, I, 1\$: 1676
50 D4 0001D CLR R0 : 1691
04 0001F RET : 1693

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

: 1116 1694 1

```

: 1118 1695 1 ROUTINE VERIFY_DEVICE_CLASS =
: 1119 1696 2 Begin
: 1120 1697 2
: 1121 1698 2 ++
: 1122 1699 2
: 1123 1700 2 Functional Description:
: 1124 1701 2
: 1125 1702 2 This routine will determine if the device recorded by the
: 1126 1703 2 current entry matches any of the selected device class(es).
: 1127 1704 2 It return TRUE if the current entry matches or return FALSE
: 1128 1705 2 if the current entry does NOT match.
: 1129 1706 2
: 1130 1707 2 Calling sequence:
: 1131 1708 2
: 1132 1709 2 VERIFY_DEVICE_CLASS ( )
: 1133 1710 2
: 1134 1711 2 Input parameters:
: 1135 1712 2
: 1136 1713 2 None
: 1137 1714 2
: 1138 1715 2 Output parameters:
: 1139 1716 2
: 1140 1717 2 None
: 1141 1718 2
: 1142 1719 2 --
: 1143 1720 2
: 1144 1721 2
: 1145 1722 2 Determine whether this is a unsolicited mscp entry and
: 1146 1723 2 whether to continue.
: 1147 1724 2
: 1148 1725 2 If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP AND
: 1149 1726 2 NOT .include_mask[inc$v_disks] AND
: 1150 1727 2 NOT .include_mask[inc$v_tapes]
: 1151 1728 2 Then
: 1152 1729 2 Return false ;
: 1153 1730 2
: 1154 1731 2
: 1155 1732 2 Determine if 'BUS' entries are selected.
: 1156 1733 2
: 1157 1734 2 If ((.exclude_mask[exc$v_buses]) OR
: 1158 1735 2 (.include_mask[inc$v_buses]))
: 1159 1736 2 Then
: 1160 1737 2
: 1161 1738 2 Determine if the device recorded by this entry, matches the
: 1162 1739 2 selected device class.
: 1163 1740 2
: 1164 1741 2 Begin
: 1165 1742 2 If ((.emb[emb$w_hd_entry] EQLU EMB$K_LM AND
: 1166 1743 2 .emb[emb$b_lm_c[ass] EQLU DC$_BUS)) OR
: 1167 1744 2
: 1168 1745 2 ((.emb[emb$w_hd_entry] EQLU EMB$K_SP AND
: 1169 1746 2 .emb[emb$b_sp_c[ass] EQLU DC$_BUS)) OR
: 1170 1747 2
: 1171 1748 2 (.emb[emb$b_dv_class] EQLU DC$_BUS)
: 1172 1749 2 Then
: 1173 1750 2
: 1174 1751 2 Indicate that this entry goes match a selected device

```



```

: 1175      1752      S      : class, by returning to the calling routine with a
: 1176      1753      S      : true value.
: 1177      1754      S      :
: 1178      1755      S      : Return true ;
: 1179      1756      S      : End ;
: 1180      1757      S      :
: 1181      1758      S      :
: 1182      1759      S      : Determine if 'DISK' entries are selected.
: 1183      1760      S      :
: 1184      1761      S      : If ((.exclude_mask[exc$v_disks]) OR
: 1185      1762      S      : (.include_mask[inc$v_disks]))
: 1186      1763      S      : Then
: 1187      1764      S      :
: 1188      1765      S      : Determine if the device recorded by this entry, matches the
: 1189      1766      S      : selected device class.
: 1190      1767      S      :
: 1191      1768      S      : Begin
: 1192      1769      S      : If ((.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
: 1193      1770      S      : (.emb[emb$w_hd_entry] EQLU EMB$K_VD))
: 1194      1771      S      : Then
: 1195      1772      S      :
: 1196      1773      S      : Determine if the device recorded by this volume
: 1197      1774      S      : mount or dismount is a 'disk' type device.
: 1198      1775      S      :
: 1199      1776      S      : Begin
: 1200      1777      S      : If NOT TRANSLATE_CLASS (emb[emb$t_vm_namtxt],DC$_DISK)
: 1201      1778      S      : Then
: 1202      1779      S      :
: 1203      1780      S      : Indicate that the device recorded by this entry is
: 1204      1781      S      : not a 'disk', by returning to the calling routine
: 1205      1782      S      : with a false value.
: 1206      1783      S      :
: 1207      1784      S      : Return false
: 1208      1785      S      : Else
: 1209      1786      S      : Return true ;
: 1210      1787      S      : End ;
: 1211      1788      S      :
: 1212      1789      S      : If ( ((.emb[emb$w_hd_entry] EQLU EMB$K_LM) AND
: 1213      1790      S      : (.emb[emb$b_lm_class] EQLU DC$_DISK)) OR
: 1214      1791      S      :
: 1215      1792      S      : ((.emb[emb$w_hd_entry] EQLU EMB$K_SP) AND
: 1216      1793      S      : (.emb[emb$b_sp_class] EQLU DC$_DISK)) OR
: 1217      1794      S      :
: 1218      1795      S      : ! Entry type must be either a device error, timeout, or attention.
: 1219      1796      S      :
: 1220      1797      S      : (.emb[emb$b_dv_class] EQLU DC$_DISK) )
: 1221      1798      S      : Then
: 1222      1799      S      :
: 1223      1800      S      : Indicate that this entry does match a selected
: 1224      1801      S      : device class, by returning to the calling routine
: 1225      1802      S      : with a true value.
: 1226      1803      S      :
: 1227      1804      S      : Return true ;
: 1228      1805      S      :
: 1229      1806      S      :
: 1230      1807      S      : Determine whether this is disk related unsolicited mscp entry.
: 1231      1808      S      :

```

```

: 1232 1809      If .emb[emb$w_hd_entry] EQLU EMB$K LOGMSCP AND
: 1233 1810      CH$EQL (2,emb[d_iver_type],2,CR$PTR(uptit('DISK')))
: 1234 1811      Then
: 1235 1812      | Yes, return to the calling routine with a true value.
: 1236 1813      |
: 1237 1814      | Return true ;
: 1238 1815      |
: 1239 1816      | End ;
: 1240 1817      |
: 1241 1818      | Determine if 'REALTIME' entries are selected.
: 1242 1819      |
: 1243 1820      | If ((.exclude_mask[exc$v_realtime]) OR
: 1244 1821      | (.include_mask[inc$v_realtime]))
: 1245 1822      | Then
: 1246 1823      | |
: 1247 1824      | | Determine if the device recorded by this entry, matches the
: 1248 1825      | | selected device class.
: 1249 1826      | |
: 1250 1827      | | Begin
: 1251 1828      | | If .emb[emb$b_dv_class] EQLU DC$_REALTIME
: 1252 1829      | | Then
: 1253 1830      | | |
: 1254 1831      | | | Indicate that this entry does match a selected
: 1255 1832      | | | device class, by returning to the calling routine
: 1256 1833      | | | with a true value.
: 1257 1834      | | |
: 1258 1835      | | | Return true ;
: 1259 1836      | | | End ;
: 1260 1837      | |
: 1261 1838      | | Determine if 'SYNCHRONOUS COMMUNICATION' entries are selected.
: 1262 1839      | |
: 1263 1840      | | If ((.exclude_mask[exc$v_sync_comm]) OR
: 1264 1841      | | (.include_mask[inc$v_sync_comm]))
: 1265 1842      | | Then
: 1266 1843      | | |
: 1267 1844      | | | Determine if the device recorded by this entry, matches the
: 1268 1845      | | | selected device class.
: 1269 1846      | | |
: 1270 1847      | | | Begin
: 1271 1848      | | | If .emb[emb$b_dv_class] EQLU DC$_SCOM
: 1272 1849      | | | Then
: 1273 1850      | | | |
: 1274 1851      | | | | Indicate that this entry does match a selected
: 1275 1852      | | | | device class, by returning to the calling routine
: 1276 1853      | | | | with a true value.
: 1277 1854      | | | |
: 1278 1855      | | | | Return true ;
: 1279 1856      | | | | End ;
: 1280 1857      | | |
: 1281 1858      | | | Determine if 'TAPE' entries are selected.
: 1282 1859      | | |
: 1283 1860      | | | If ((.exclude_mask[exc$v_tapes]) OR
: 1284 1861      | | | (.include_mask[inc$v_tapes]))
: 1285 1862      | | | Then
: 1286 1863      | | | |
: 1287 1864      | | | |
: 1288 1865      | | | |

```

```

: 1289 1866 2 | Determine if the device recorded by this entry, matches the
: 1290 1867 2 | selected device class.
: 1291 1868 2 |
: 1292 1869 2 | Begin
: 1293 1870 4 | If ((.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
: 1294 1871 4 | (.emb[emb$w_hd_entry] EQLU EMB$K_VD))
: 1295 1872 3 | Then
: 1296 1873 3 | | Determine if the device recorded by this volume
: 1297 1874 3 | | mount or dismount is a 'tape' type device.
: 1298 1875 3 | |
: 1299 1876 3 | | Begin
: 1300 1877 4 | | If NOT TRANSLATE_CLASS (emb[emb$t_vm_namtxt],DC$_TAPE)
: 1301 1878 4 | | Then
: 1302 1879 4 | | | Indicate that the device recorded by this entry is
: 1303 1880 4 | | | not a 'tape', by returning to the calling routine
: 1304 1881 4 | | | with a false value.
: 1305 1882 4 | | | Return false
: 1306 1883 4 | | | Else
: 1307 1884 4 | | | Return true ;
: 1308 1885 4 | | | End ;
: 1309 1886 4 | |
: 1310 1887 4 | | If ( ((.emb[emb$w_hd_entry] EQLU EMB$K_LM) AND
: 1311 1888 5 | | (.emb[emb$b_m_class] EQLU DC$_TAPE)) OR
: 1312 1889 4 | | ((.emb[emb$w_hd_entry] EQLU EMB$K_SP) AND
: 1313 1890 5 | | (.emb[emb$b_sp_class] EQLU DC$_TAPE)) OR
: 1314 1891 4 | | | Entry type must be either a device error, timeout, or attention.
: 1315 1892 4 | | | (.emb[emb$b_dv_class] EQLU DC$_TAPE) )
: 1316 1893 5 | | Then
: 1317 1894 4 | | | Indicate that this entry does match a selected
: 1318 1895 4 | | | device class, by returning to the calling routine
: 1319 1896 4 | | | with a true value.
: 1320 1897 4 | | | Return true ;
: 1321 1898 4 | | |
: 1322 1899 4 | | | Determine whether this is tape related unsolicited mscp entry.
: 1323 1900 3 | | | If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP AND
: 1324 1901 3 | | | CH$EQL (2,emb[driver_type],2,CR$PTR(uptit('TAPE'))))
: 1325 1902 3 | | | Then
: 1326 1903 3 | | | | Yes, return to the calling routine with a true value.
: 1327 1904 3 | | | | Return true ;
: 1328 1905 3 | | | |
: 1329 1906 3 | | | | Determine if 'MISC' entries are selected.
: 1330 1907 2 | | | | If ((.exclude_mask[exc$v_misc]) OR
: 1331 1908 2 | | | | (.include_mask[inc$v_misc]))
: 1332 1909 2 | | | |
: 1333 1910 2 | | | |
: 1334 1911 2 | | | |
: 1335 1912 2 | | | |
: 1336 1913 2 | | | |
: 1337 1914 2 | | | |
: 1338 1915 2 | | | |
: 1339 1916 2 | | | |
: 1340 1917 2 | | | |
: 1341 1918 2 | | | |
: 1342 1919 2 | | | |
: 1343 1920 2 | | | |
: 1344 1921 2 | | | |
: 1345 1922 2 | | | |

```

```

: 1346 1923 2 :Then
: 1347 1924 2 :
: 1348 1925 2 :   Der' mine if the device recorded by this entry, matches the
: 1349 1926 2 :   selected device class.
: 1350 1927 2 :
: 1351 1928 2 :   Begin
: 1352 1929 2 :   If .emb[emb$b_dv_class] EQLU DCS_MISC
: 1353 1930 2 :   Then
: 1354 1931 2 :
: 1355 1932 2 :       Indicate that this entry does match a selected
: 1356 1933 2 :       device class, by returning to the calling routine
: 1357 1934 2 :       with a true value.
: 1358 1935 2 :
: 1359 1936 2 :       Return true ;
: 1360 1937 2 :   End ;
: 1361 1938 2 :
: 1362 1939 2 :   Determine if 'LP' entries are selected.
: 1363 1940 2 :
: 1364 1941 2 :   If ((.exclude_mask[exc$v_line_printr]) OR
: 1365 1942 2 :   (.include_mask[inc$v_line_printr]))
: 1366 1943 2 :   Then
: 1367 1944 2 :
: 1368 1945 2 :       Determine if the device recorded by this entry, matches the
: 1369 1946 2 :       selected device class.
: 1370 1947 2 :
: 1371 1948 2 :       Begin
: 1372 1949 2 :       If .emb[emb$b_dv_class] EQLU DCS_LP
: 1373 1950 2 :       Then
: 1374 1951 2 :
: 1375 1952 2 :           Indicate that this entry does match a selected
: 1376 1953 2 :           device class, by returning to the calling routine
: 1377 1954 2 :           with a true value.
: 1378 1955 2 :
: 1379 1956 2 :           Return true ;
: 1380 1957 2 :       End ;
: 1381 1958 2 :
: 1382 1959 2 :   Determine if 'JOURNAL' entries are selected.
: 1383 1960 2 :
: 1384 1961 2 :   If ((.exclude_mask[exc$v_journal]) OR
: 1385 1962 2 :   (.include_mask[inc$v_journal]))
: 1386 1963 2 :   Then
: 1387 1964 2 :
: 1388 1965 2 :       Determine if the device recorded by this entry, matches the
: 1389 1966 2 :       selected device class.
: 1390 1967 2 :
: 1391 1968 2 :       Begin
: 1392 1969 2 :       If .emb[emb$b_dv_class] EQLU DCS_JOURNAL
: 1393 1970 2 :       Then
: 1394 1971 2 :
: 1395 1972 2 :           Indicate that this entry does match a selected
: 1396 1973 2 :           device class, by returning to the calling routine
: 1397 1974 2 :           with a true value.
: 1398 1975 2 :
: 1399 1976 2 :           Return true ;
: 1400 1977 2 :       End ;
: 1401 1978 2 :
: 1402 1979 2 :

```

: 1403
: 1404
: 1405
: 1406
: 1407
: 1408
: 1409
: 1410

1980 2
1981 2
1982 2
1983 2
1984 2
1985 2
1986 2
1987 1
Indicate that this entry does not match any of the selected
device classes, by returning to the calling routine with a
false value.
Return false ;
End ; Routine

.PSECT SPLIT,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	: 1695	
	54	00000000G	00	9E	00009	MOVAB	EXCLUDE_MASK, R5		
	53	00000C00G	00	9E	00C10	MOVAB	INCLUDE_MASK, R4		
	52	F4	A3	3C	00017	MOVZWL	EMB+16, R3		
0065	8F		52	B1	0001B	CMPL	EMB+4, R2	: 1725	
			11	12	00020	BNEQ	R2, #101		
	50		64	D0	00022	MOVL	1\$		
0A	60		02	E0	00025	MOVL	INCLUDE_MASK, R0	: 1726	
	50		64	D0	00029	BBS	#2, (R0), 1\$		
	03	01	A0	E8	0002C	MOVL	INCLUDE_MASK, R0	: 1727	
			010A	31	00030	BLBS	1(R0), T\$		
	51		65	D0	00033	BRW	28\$		
07	61		01	E0	00036	MOVL	EXCLUDE_MASK, R1	: 1734	
	50		64	D0	0003A	BBS	#1, (R1), 2\$		
21	60		01	E1	0003D	MOVL	INCLUDE_MASK, R0	: 1735	
	0064	8F	52	B1	00041	BBC	#1, (R0), 5\$		
			06	12	00046	CMPL	R2, #100	: 1742	
	80	8F	63	91	00048	BNEQ	3\$		
			77	13	0004C	CMPL	EMB+16, #128	: 1743	
0063	8F		52	B1	0004E	BEQL	13\$		
			06	12	00053	CMPL	R2, #99	: 1745	
	80	8F	63	91	00055	BNEQ	4\$		
			7B	13	00059	CMPL	EMB+16, #128	: 1746	
	80	8F	0C	A3	91	0005B	BEQL	16\$	
			74	13	00060	CMPL	EMB+28, #128	: 1748	
07	61		02	E0	00062	BEQL	16\$		
	50		64	D0	00066	BBS	#2, (R1), 6\$: 1761	
45	60		02	E1	00069	MOVL	INCLUDE_MASK, R0	: 1762	
	0040	8F	52	B1	0006D	BBC	#2, (R0), 11\$		
			07	13	00072	CMPL	R2, #64	: 1769	
	0041	8F	52	B1	00074	BEQL	7\$		
			04	12	00079	CMPL	R2, #65	: 1770	
			01	D0	0007B	BNEQ	8\$		
			78	11	0007D	PUSHL	#1	: 1777	
	50	F4	A3	3C	0007F	BRB	20\$		
						MOVZWL	EMB+4, R0	: 1789	

0064	8F	50	B1	00083	CMPW	R0, #100	
	01	05	12	00088	BNEQ	9\$	1790
		63	91	0008A	CMPB	EMB+16, #1	
0063	8F	47	13	0008D	BEQL	16\$	1792
		50	B1	0008F	CMPW	R0, #99	
	01	05	12	00094	BNEQ	10\$	1793
		63	91	00096	CMPB	EMB+16, #1	
	01	79	13	00099	BEQL	22\$	1797
		A3	91	0009B	CMPB	EMB+28, #1	
0065	8F	7F	13	0009F	BEQL	24\$	1809
		50	B1	000A1	CMPW	R0, #101	
00000000'	00	0A	12	000A6	BNEQ	11\$	1810
		A3	B1	000A8	CMPW	EMB+18, P.AAA	
		74	13	000B0	BEQL	26\$	1820
07	51	65	D0	000B2	MOVL	EXCLUDE_MASK, R1	1820
	61	06	E0	000B5	BBS	#6, (R1), 12\$	
	50	64	D0	000B9	MOVL	INCLUDE_MASK, R0	1821
07	60	06	E1	000BC	BBC	#6, (R0), 14\$	
	8F	A3	91	000C0	CMPB	EMB+28, #96	1828
		72	13	000C5	BEQL	27\$	
		61	95	000C7	TSTB	(R1)	1841
		07	19	000C9	BLSS	15\$	
	50	64	D0	000C3	MOVL	INCLUDE_MASK, R0	1842
		60	95	000CE	TSTB	(R0)	
		06	18	000D0	BGEQ	17\$	
	20	A3	91	000D2	CMPB	EMB+28, #32	1849
		61	13	000D6	BEQL	27\$	
	07	A1	E8	000D8	BLBS	1(R1), 18\$	1862
	50	64	D0	000DC	MOVL	INCLUDE_MASK, R0	1863
	5A	A0	E9	000DF	BLBC	1(R0), 28\$	
	50	A3	3C	000E3	MOVZWL	EMB+4, R0	1870
0040	8F	50	B1	000E7	CMPW	R0, #64	
		07	13	000EC	BEQL	19\$	
0041	8F	50	B1	000EE	CMPW	R0, #65	1871
		11	12	000F3	BNEQ	21\$	
		02	DD	000F5	PUSHL	#2	1878
		A3	9F	000F7	PUSHAE	EMB+3,	
00000000V	00	02	FB	000FA	CALLS	#2, TRANSLATE_CLASS	
	35	50	E8	00101	BLBS	R0, 27\$	
		57	11	00104	BRB	28\$	1887
	50	A3	3C	00106	MOVZWL	EMB+4, R0	1890
0064	8F	50	B1	0010A	CMPW	R0, #100	
		05	12	0010F	BNEQ	23\$	
	02	63	91	00111	CMPB	EMB+16, #2	1891
		23	13	00114	BEQL	27\$	
0063	8F	50	B1	00116	CMPW	R0, #99	1893
		05	12	0011B	BNEQ	25\$	
	02	63	91	0011D	CMPB	EMB+16, #2	1894
		17	13	00120	BEQL	27\$	
	02	A3	91	00122	CMPB	EMB+28, #2	1898
		11	13	00126	BEQL	27\$	
0065	8F	50	B1	00128	CMPW	R0, #101	1910
00000000'	00	0E	12	0012D	BNEQ	28\$	
		A3	B1	0012F	CMPW	EMB+18, P.AAB	1911
		04	12	00137	BNEQ	28\$	
	50	01	D0	00139	MOVL	#1, R0	1915
		04	00	0013C	RET		

RECSELECT
V04-001

Entry Validation

K 2
9-Jan-1985 15:58:31
2-Oct-1984 12:42:25

VAX-11 Bliss-32 V4.0-742
\$255\$DUA42:[ERF.BUGSRC]RECSELECT.B32;1 Page 37
(5)

50 D4 0013D 288: CLRL R0
04 0013F RET

; 1987
;

; Routine Size: 320 bytes, Routine Base: \$CODE + 04EA

; 1411 1988 1

TAL
V04

.....

RECSELECT
V04-001

Entry Validation

L 2
9-Jan-1985 15:58:31
2-Oct-1984 12:42:25

VAX-11 Bliss-32 V4.0-742
\$255\$DUA42:[ERF.BUGSRC]RECSELECT.F3

```
1413 1989 1 Routine VERIFY_DEVICE =
1414 1990 2 Begin
1415 1991 2
1416 1992 2 ++
1417 1993 2
1418 1994 2 --
1419 1995 2
1420 1996 2 Local
1421 1997 2   Dev_name,
1422 1998 2   Dev_name_length,
1423 1999 2   Dev_unit,
1424 2000 2   Status ;
1425 2001 2
1426 2002 2 Bind
1427 2003 2   lm_name_length = emb[emb$t_lm_devnam] : BYTE,
1428 2004 2   sp_name_length = emb[emb$t_sp_devnam] : BYTE,
1429 2005 2   dv_name_length = emb[emb$t_dv_name] : BYTE ;
1430 2006 2
1431 2007 2
1432 2008 2   Determine whether this is an unsolicited mscp entry and
1433 2009 2   return with a false value if so (logmscp entries are not
1434 2010 2   applicable to a specific device).
1435 2011 2
1436 2012 2   If .emb[emb$w_hd_entry] EQLU EMB$K_LOGMSCP
1437 2013 2   Then
1438 2014 2     Return false ;
1439 2015 2
1440 2016 2
1441 2017 2   Determine the type of entry so that the comparison for the
1442 2018 2   device class is made against the appropriate field in the entry.
1443 2019 2
1444 2020 2   Determine if this a log message entry.
1445 2021 2
1446 2022 2   If .emb[emb$w_hd_entry] EQLU EMB$K_LM
1447 2023 2   Then
1448 2024 2
1449 2025 2     Entry type is a log message, get the device name,
1450 2026 2     name length, and unit number.
1451 2027 2
1452 2028 2     Begin
1453 2029 2     Dev_name = emb[emb$t_lm_devnam] + 1 ;
1454 2030 2     Dev_name_length = .lm_name_length ;
1455 2031 2     Dev_unit = .emb[emb$w_lm_unit] ;
1456 2032 2     End
1457 2033 2   Else
1458 2034 2
1459 2035 2     Determine if this is a log status entry.
1460 2036 2
1461 2037 2     Begin
1462 2038 2     If .emb[emb$w_hd_entry] EQLU EMB$K_SP
1463 2039 2     Then
1464 2040 2
1465 2041 2       Entry type is a log status, get the device name,
1466 2042 2       name length, and unit number.
1467 2043 2
1468 2044 2     Begin
1469 2045 2     Dev_name = emb[emb$t_sp_devnam] + 1 ;
```



```

: 1470      2046  4      Dev_name_length = .sp_name_length ;
: 1471      2047  4      Dev_unit = .emb[emb$w_sp_unit] ;
: 1472      2048  4      End
: 1473      2049  3      Else
: 1474      2050  3      : Determine if this a volume mount/dismount entry.
: 1475      2051  3      :
: 1476      2052  3      :
: 1477      2053  4      Begin
: 1478      2054  5      If ((.emb[emb$w_hd_entry] EQLU EMB$K_VM) OR
: 1479      2055  5      (.emb[emb$w_hd_entry] EQLU EMB$K_VD))
: 1480      2056  4      Then
: 1481      2057  4      :
: 1482      2058  4      : Entry type is a either a volume mount/dismount, get
: 1483      2059  4      : the device name, name length, and unit number.
: 1484      2060  4      :
: 1485      2061  5      Begin
: 1486      2062  5      Dev_name = emb[emb$t_vm_namtxt] ;
: 1487      2063  5      Dev_name_length = .emb[emb$b_vm_namlng] ;
: 1488      2064  5      Dev_unit = .emb[emb$w_vm_unit] ;
: 1489      2065  5      End
: 1490      2066  4      Else
: 1491      2067  4      :
: 1492      2068  4      : Entry type must be either a device error, device timeout,
: 1493      2069  4      : or a device attention, get the device name, name length, and
: 1494      2070  4      : unit number.
: 1495      2071  4      :
: 1496      2072  5      Begin
: 1497      2073  5      Dev_name = emb[emb$t_dv_name] + 1 ;
: 1498      2074  5      Dev_name_length = .dv_name_length ;
: 1499      2075  5      Dev_unit = .emb[emb$w_dv_unit] ;
: 1500      2076  4      End ;
: 1501      2077  3      End ;
: 1502      2078  2      End ;
: 1503      2079  2      :
: 1504      2080  2      :
: 1505      2081  2      : Call the search queue routine to determine if the device recorded by
: 1506      2082  2      : this entry matches any of the selected devices.
: 1507      2083  2      :
: 1508      2084  2      Status = SEARCH_QUEUE (.dev_name,dev_name_length,dev_unit) ;
: 1509      2085  2      :
: 1510      2086  2      :
: 1511      2087  2      : Return the status from the search queue operation to the
: 1512      2088  2      : calling routine.
: 1513      2089  2      :
: 1514      2090  2      .Status
: 1515      2091  1      End ; ! Routine

```

```

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

```

: 1989
: 2012

			03	12	00014		BNEQ	1\$			
			50	04	00016		CLRL	R0		2014	
				04	00018		RET				
0064	8F		50	B1	00019	1\$:	CMPW	R0, #100		2022	
			0F	12	0001E		BNEQ	2\$			
	51	11	A2	9E	00020		MOVAB	EMB+21, DEV_NAME		2029	
04	AE	10	A2	9A	00024		MOVZBL	LM_NAME_LENGTH, DEV_NAME_LENGTH		2030	
	6E	0E	A2	3C	00029		MOVZWL	EMB+18, DEV_UNIT		2031	
			3C	11	0002D		BRB	7\$		2022	
0063	8F		50	B1	0002F	2\$:	CMPW	R0, #99		2038	
			0B	12	00034		BNEQ	3\$			
	51	3D	A2	9E	00036		MOVAB	EMB+65, DEV_NAME		2045	
04	AE	3C	A2	9A	0003A		MOVZBL	SP_NAME_LENGTH, DEV_NAME_LENGTH		2046	
			26	11	0003F		BRB	6\$		2047	
0040	8F		50	B1	00041	3\$:	CMPW	R0, #64		2054	
			07	13	00046		BEQL	4\$			
0041	8F		50	B1	00048		CMPW	R0, #65		2055	
			0F	12	0004D		BNEQ	5\$			
	51	1B	A2	9E	0004F	4\$:	MOVAB	EMB+31, DEV_NAME		2062	
04	AE	1A	A2	9A	00053		MOVZBL	EMB+30, DEV_NAME_LENGTH		2063	
	6E	18	A2	3C	00058		MOVZWL	EMB+28, DEV_UNIT		2064	
			0D	11	0005C		BRB	7\$		2054	
	51	3B	A2	9E	0005E	5\$:	MOVAB	EMB+63, DEV_NAME		2073	
04	AE	3A	A2	9A	00062		MOVZBL	DEV_NAME_LENGTH, DEV_NAME_LENGTH		2074	
	6E	26	A2	3C	00067	6\$:	MOVZWL	EMB+42, DEV_UNIT		2075	
			5E	DD	0006B	7\$:	PUSHL	SP		2084	
		08	AE	9F	0006D		PUSHAB	DEV_NAME_LENGTH			
			51	DD	00070		PUSHL	DEV_NAME			
00000000G	00		03	FB	00072		CALLS	#3, SEARCH_QUEUE			
			04	00079			RET			2091	

; Routine Size: 122 bytes, Routine Base: \$CODE + 062A

; 1516 2092 1

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V04
44
20
00
00
00
00
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20
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00
4E
4E
4E
4F
49
52
52
44
4C
4F

```

: 1518 2093 1 GLOBAL ROUTINE TRANSLATE_CLASS (search_name,dev_class) =
: 1519 2094 2 Begin
: 1520 2095 2
: 1521 2096 2 :++
: 1522 2097 2
: 1523 2098 2 Functional Description:
: 1524 2099 2
: 1525 2100 2 This routine searches the device tables to verify the device
: 1526 2101 2 class and device name.
: 1527 2102 2
: 1528 2103 2 Calling Sequence:
: 1529 2104 2
: 1530 2105 2 TRANSLATE_CLASS (search_name,dev_class)
: 1531 2106 2
: 1532 2107 2 Input Parameters:
: 1533 2108 2
: 1534 2109 2 Search name = First two characters of device name
: 1535 2110 2
: 1536 2111 2 Dev_class = Device class to search for.
: 1537 2112 2
: 1538 2113 2
: 1539 2114 2 If the device class is found, then the specified device name
: 1540 2115 2 is compared against the device names in the device specific table.
: 1541 2116 2 Returns true if both match.
: 1542 2117 2
: 1543 2118 2 Returns false if device class and/or device name doesn't match.
: 1544 2119 2 (This should eventually be caught and handled by the parse_devname
: 1545 2120 2 routine.)
: 1546 2121 2
: 1547 2122 2 :--
: 1548 2123 2
: 1549 2124 2 EXTERNAL
: 1550 2125 2 Dev_addrs_ptr: REF VECTOR [,long],
: 1551 2126 2 Dev_class_ptr: REF VECTOR [,word],
: 1552 2127 2 Max_classes: REF VECTOR [,byte]:
: 1553 2128 2
: 1554 2129 2 OWN
: 1555 2130 2 I: BYTE Initial (1), ! Device address pointer index
: 1556 2131 2 Max_classes_value: BYTE ;
: 1557 2132 2
: 1558 2133 2 LOCAL
: 1559 2134 2 Dev_specific_tbl: REF VECTOR [,word], ! Device specific table address
: 1560 2135 2 K: Initial (0) ; ! Device specific table index
: 1561 2136 2
: 1562 2137 2 BIND
: 1563 2138 2 (s_name = CH$PTR (uplit('CS')) ;
: 1564 2139 2
: 1565 2140 2
: 1566 2141 2 Device class ptr is the address of a table that contains supported device
: 1567 2142 2 classes and pointers to the device class specific information tables.
: 1568 2143 2
: 1569 2144 2 The device class specific table contains the supported device names,
: 1570 2145 2 image name pointers (image that needs to get activated), and transfer
: 1571 2146 2 address pointers.
: 1572 2147 2
: 1573 2148 2 This routine locates the matching device class retrieves the device
: 1574 2149 2 specific pointer and matches the specified device name against those

```

```

1575      2150 2  : in the device specific table.
1576      2151 2  :
1577      2152 2  : Loop through all of the device class entries.
1578      2153 2  :
1579      2154 2  Max_classes_value = max_classes[0] ;
1580      2155 2  :
1581      2156 2  Incr I from 1 to .max_classes_value do
1582      2157 2  Begin
1583      2158 2  If .dev_class_ptr[.I] EQL .dev_class
1584      2159 2  Then
1585      2160 2  Begin
1586      2161 2  :
1587      2162 2  : Get the address of a device class specific table.
1588      2163 2  :
1589      2164 2  Dev_specific_tbl = .dev_addrs_ptr[.I] ;
1590      2165 2  :
1591      2166 2  :
1592      2167 2  : Initialize another index for the device class specific table so don't
1593      2168 2  : lose the current position. Determine if the contents of the device
1594      2169 2  : name field is valid OR whether the end of the device name entries
1595      2170 2  : in the table has been reached.
1596      2171 2  :
1597      2172 2  K = 1 ;
1598      2173 2  Until (.K EQL .dev_specific_tbl[0]) do
1599      2174 2  Begin
1600      2175 2  :
1601      2176 2  : Determine if the selected device name matches any of the
1602      2177 2  : device names recorded in this table.
1603      2178 2  :
1604      2179 2  If CHSEQ (2, CHSPTR(.search_name), 2, CHSPTR(dev_specific_tbl[.K]))
1605      2180 2  Then
1606      2181 2  :
1607      2182 2  : The device names match. Using the class dir table index,
1608      2183 2  : get the corresponding device class.
1609      2184 2  :
1610      2185 2  Return true ;
1611      2186 2  :
1612      2187 2  :
1613      2188 2  : Update the device name pointer indices.
1614      2189 2  :
1615      2190 2  K = .K + 1 ;
1616      2191 2  End ;
1617      2192 2  End ;
1618      2193 2  :
1619      2194 2  :
1620      2195 2  :
1621      2196 2  :
1622      2197 2  : The name for the console device 'CSA' is not included in the device name
1623      2198 2  : tables contained in ERFLIB.TLB. It really is a second device name for
1624      2199 2  : the RX device which is included in the device tables. There should be
1625      2200 2  : a table that includes devices like these, however because there is only
1626      2201 2  : one at this time, it is checked for explicitly.
1627      2202 2  :
1628      2203 2  If CHSEQ (2, CHSPTR(.search_name), 2, cs_name)
1629      2204 2  Then
1630      2205 2  :
1631      2206 2  : This is a 'CS' entry, determine whether the 'CS' device class

```

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: 1632      2207 2      | matches the device class being searched for.
: 1633      2208      |
: 1634      2209      | Begin
: 1635      2210      | If .dev_class EQL DCS_DISK
: 1636      2211      | Then
: 1637      2212      |     | Indicate that the device class matches by returning with
: 1638      2213      |     | a true value.
: 1639      2214      |     |
: 1640      2215      |     | Return true ;
: 1641      2216      | End ;
: 1642      2217      |
: 1643      2218      |
: 1644      2219      |
: 1645      2220      |     | Could not locate a class for this device name.
: 1646      2221      |     |
: 1647      2222      | Return false ;
: 1648      2223      |
: 1649      2224      | End ;           ! Routine

```

```

.PSECT $PLIT,NOWRT,NOEXE, PIC,2
00 00 53 43 00008 P.AAC: .ASCII \CS\<0><0>
.PSECT $OWNS,NOEXE, PIC,2
01 00036 I: .BYTE 1
00037 MAX_CLASSES_VALUE. .BLRB 1

```

```

CS_NAME= P.AAC
.EXTRN DEV_ADDRS_PTR, DEV_CLASS_PTR
.EXTRN MAX_CLASSES

```

```

.PSECT $CODE,NOWRT, PIC,2
55 00070000' 00 003C 00000 .ENTRY TRANSLATE_CLASS, Save R2,R3,R4,R5 : 2093
MOVAB MAX_CLASSES_VALUE, R5
52 04 00009 CLRL K : 2094
65 0000\000G 00 90 0000B MOVB MAX_CLASSES, MAX_CLASSES_VALUE : 2154
54 65 9A 00012 MOVZBL MAX_CLASSES_VALUE, R4 : 2156
50 D4 00015 CLRL I : 2158
32 11 00017 BRB 3$
51 00000000G 00 D0 00019 1$: MOVL DEV_CLASS_PTR, R1
6140 3F 00020 PUSHAW (R1)[I]
08 AC 9E 10 00 ED 00023 CMPZV #0, #16, @(SP)+, DEV_CLASS
20 12 00029 BNEQ 3$
51 00000000G 00 D0 0002B MOVL DEV_ADDRS_PTR, R1 : 2164
53 6140 D0 00032 MOVL (R1)[I], DEV_SPECIFIC_TBL
52 01 D0 00036 MOVL #1, K : 2172
52 00 ED 00039 2$: CMPZV #0, #16, (DEV_SPECIFIC_TBL), K : 2173
6342 04 0B 13 0003E BEQL 3$
BC B1 00040 CMPW @SEARCH_NAME, (DEV_SPECIFIC_TBL)[K] : 2179
18 13 00045 BEQL 4$
52 D6 00047 INCL K : 2190
EE 11 00049 BRB 2$ : 2173

```

RECSELECT
V04-001

Entry Validation

E 3
9-Jan-1985 15:58:31
2-Oct-1984 12:42:25

VAX-11 Bliss-32 V4.0-742
\$255\$DUA42:[FRF.BUGSRC]RECSELECT.B32;1 Page 44
(7)

CA	00000000'	50	04	54	F3	0004B	3\$:	AOBLEQ	R4, 1, 1\$:	2156
		00		BC	B1	0004F		CMPW	@SEARCH_NAME, CS_NAME	:	2203
		01	08	0A	12	00057		BNEQ	5\$:	
				AC	D1	00059		CMPL	DEV_CLASS, #1	:	2210
		50		04	12	0005D		BNEQ	5\$:	
				01	D0	0005F	4\$:	MOVL	#1, R0	:	2215
					04	00062		RET		:	
				50	D4	00063	5\$:	CLRL	R0	:	2222
					04	00065		RET		:	2224

: Routine Size: 102 bytes, Routine Base: \$CODE + 06A4

```

: 1650      2225  1
: 1651      2226  1
: 1652      2227  1 End
: 1653      2228  0 ELUDOM

```

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	56	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
\$CODE	180	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
\$PLIT	12	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA18:[SYSLIB]LIB.L32;1	18619	72	0	1000	00:01.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RECSELECT/OBJ=OBJ\$:RECSELECT MSRC\$:RECSELECT/UPDATE=(BUG\$:RECSELECT)

```

: Size:      1802 code + 68 data bytes
: Run Time:   00:29.4
: Elapsed Time: 01:07.2
: Lines/CPU Min: 4551
: Lexemes/CPU-Min: 27826
: Memory Used: 352 pages

```

RECSELECT
V04-001

Entry Validation

F 3
9-Jan-1985 15:58:31

VAX-11 Bliss-32 V4.0-742

Page 45

; Compilation Complete

TAI
V04



0441 AH-EF71A-SE
VAX/VMS V4.1 SRC LST MCRF UPD

A dense grid of source code listings for various VAX/VMS components. The grid is organized into several major sections, each containing multiple columns of code. The sections are labeled as follows:

- VAXARITH LIS**: Located in the upper-middle section, containing arithmetic-related source code.
- EMULAT**: Located in the middle section, containing emulation-related source code.
- VAXEMUL MAP**: Located in the middle section, containing mapping-related source code.
- ERFPROC1 MAP**: Located in the middle-right section, containing mapping-related source code.
- ERF**: Located in the lower-middle section, containing error reporting related source code.
- ERF MAP**: Located in the lower-middle section, containing mapping-related source code.
- RESELECT LIS**: Located in the lower-right section, containing selection-related source code.

The source code within each cell is presented in a standard listing format, with line numbers on the left and code on the right. The overall layout is a structured grid of these code listings.

0442 AH-EF71A-SE
VAX/VMS V4.1 SRC LST MCRF UPD

The image displays a grid of 150 small terminal window screenshots, arranged in 10 rows and 15 columns. Each window shows a different view of system logs, error messages, or diagnostic data. Several windows feature large, prominent text overlays:

- F11BXOP MAP**: Located in the top row, 11th column.
- ACCESS LIS**: Located in the 3rd row, 14th column.
- TAZ80UDEP LIS**: Located in the 5th row, 3rd column.
- CLEANUP LIS**: Located in the 5th row, 15th column.
- CHARGED LIS**: Located in the 7th row, 14th column.
- F11X**: Located in the bottom row, 11th column.

The individual screenshots contain various data formats, including lists of system components, error codes, and status indicators. The overall appearance is that of a comprehensive system diagnostic or configuration report.