

```

LLL          00000000  AAAAAAAAAA  DDDDDDDDDDD  SSSSSSSSSSS  SSSSSSSSSSS
LLL          00000000  AAAAAAAAAA  DDDDDDDDDDD  SSSSSSSSSSS  SSSSSSSSSSS
LLL          00000000  AAAAAAAAAA  DDDDDDDDDDD  SSSSSSSSSSS  SSSSSSSSSSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAAAAAAAAA  DDD          DDD  SSS          SSS
LLL          000      000  AAAAAAAAAA  DDD          DDD  SSS          SSS
LLL          000      000  AAAAAAAAAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLL          000      000  AAA          AAA  DDD          DDD  SSS          SSS
LLLLLLLLLLLLLLLL  00000000  AAA          AAA  DDDDDDDDDDD  SSSSSSSSSSS  SSSSSSSSSSS
LLLLL.LLLLLLLLLL  00000000  AAA          AAA  DDDDDDDDDDD  SSSSSSSSSSS  SSSSSSSSSSS
LLLLLLLLLLLLLLLL  00000000  AAA          AAA  DDDDDDDDDDD  SSSSSSSSSSS  SSSSSSSSSSS

```

```

RRRRRRRR  DDDDDDDD  BBBB8888  SSSSSSSS  HH      HH  RRRRRRRR
RRRRRRRR  DDDDDDDD  BBBB8888  SSSSSSSS  HH      HH  RRRRRRRR
RR      RR  DD      DD  BB      BB  SS      SS  HH      HH  RR      RR
RR      RR  DD      DD  BB      BB  SS      SS  HH      HH  RR      RR
RR      RR  DD      DD  BB      BB  SS      SS  HH      HH  RR      RR
RRRRRRRR  DD      DD  BBBB8888  SSSSSS  HH      HH  RRRRRRRR
RRRRRRRR  DD      DD  BBBB8888  SSSSSS  HH      HH  RRRRRRRR
RR  RR    DD      DD  BB      BB          SS  HH      HH  RR  RR
RR  RR    DD      DD  BB      BB          SS  HH      HH  RR  RR
RR      RR  DD      DD  BB      BB          SS  HH      HH  RR      RR
RR      RR  DD      DD  BB      BB          SS  HH      HH  RR      RR
RR      RR  DDDDDDDD  BBBB8888  SSSSSSSS  HH      HH  RR      RR
RR      RR  DDDDDDDD  BBBB8888  SSSSSSSS  HH      HH  RR      RR

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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

```



```
1 0001 0 %TITLE 'RDBSHR - Rights database loadable system services'  
2 0002 0 MODULE RDBSHR (IDENT = 'V04-000') =  
3 0003 1 BEGIN  
4 0004 1  
5 0005 1  
6 0006 1 *****  
7 0007 1 *  
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
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25 0025 1 * *  
26 0026 1 * *  
27 0027 1 *****  
28 0028 1  
29 0029 1  
30 0030 1 **  
31 0031 1 FACILITY: EXECUTIVE, SYSTEM SERVICES  
32 0032 1  
33 0033 1 ABSTRACT:  
34 0034 1  
35 0035 1 This module contains system services that maintain the rights  
36 0036 1 database. It is built as a privileged shareable image. The  
37 0037 1 remaining rights database system services are in the exec.  
38 0038 1 The system services in this module are:  
39 0039 1  
40 0040 1 $ADD_HOLDER $ADD_IDENT $CREATE_RDB  
41 0041 1 $FIND_HOLD $FIND_HOLDER $MOD_HOLDER  
42 0042 1 $MOD_IDENT $REM_HOLDER $REM_IDENT  
43 0043 1  
44 0044 1 ENVIRONMENT:  
45 0045 1  
46 0046 1 VAX/VMS native mode, user, supervisor, or exec modes.  
47 0047 1  
48 0048 1 --  
49 0049 1  
50 0050 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 16-Nov-1982 18:51  
51 0051 1  
52 0052 1 MODIFIED BY:  
53 0053 1  
54 0054 1 V03-013 ACG047 Andrew C. Goldstein, 23-Aug-1984 16:35  
55 0055 1 Ucase all input identifier names  
56 0056 1  
57 0057 1 V03-012 JRL0009 John R. Lawson, Jr. 29-Jun-1984 11:28
```

```
58 0058 1 Check for existence of current Rights Data Base.
59 0059 1 Do not allow $CREATE if present.
60 0060 1
61 0061 1 V03-011 LY0469 Larry Yetto 22-MAR-1984 14:13
62 0062 1 Add two new parameters to the MOD_IDENT service to
63 0063 1 allow the identifier name or value to be modified. This
64 0064 1 change also requires the CHG attribut to be associated
65 0065 1 with the secondary and tertiary keys therefore the create service
66 0066 1 was also modified.
67 0067 1
68 0068 1 V03-010 RSH0100 R. Scott Hanna 03-Feb-1984
69 0069 1 Update comments to indicate that the ATTRIB parameter is
70 0070 1 optional for $ADD_HOLDER AND $ADD_IDENT.
71 0071 1
72 0072 1 V03-009 RSH0088 R. Scott Hanna 05-Jan-1984
73 0073 1 Change $ADD_HOLDER, $ADD_IDENT, $MOD_HOLDER, $MOD_IDENT,
74 0074 1 $REM_HOLDER, and $REM_IDENT to return $$$_NORMAL instead
75 0075 1 of $$$_NORMAL.
76 0076 1
77 0077 1 V03-008 TMK0001 Todd M. Katz 22-Oct-1983
78 0078 1 The name of the real system service entry point for
79 0079 1 $FINISH_RDB has been changed from EX$FINISH_RDB to
80 0080 1 EX$$$FINISH_RDB. This change was required because the
81 0081 1 system service could no longer be reached directly from the
82 0082 1 executive mode system service dispatcher.
83 0083 1
84 0084 1 V03-007 RSH0062 R. Scott Hanna 12-Sep-1983
85 0085 1 Modify ID value validation to return $$$_IDENT for
86 0086 1 an ID of 0. (All services except $ADD_IDENT)
87 0087 1
88 0088 1 V03-006 RSH0050 R. Scott Hanna 28-Jul-1983
89 0089 1 Changed SY$$CREATE_RDB to use the new FAB bits
90 0090 1 FAB$$_LNM_MODE instead of FAB$$_DSBMSK.
91 0091 1
92 0092 1 V03-005 RSH0046 R. Scott Hanna 24-Jul-1983
93 0093 1 Modified SY$$CREATE_RDB to create records for the
94 0094 1 environmental rights.
95 0095 1
96 0096 1 V03-004 RSH0041 R. Scott Hanna 21-Jun-1983
97 0097 1 Provide additional ID name validation. Open the rights
98 0098 1 database as a process permanent file when there is no
99 0099 1 active image.
100 0100 1
101 0101 1 V03-003 RSH0033 R. Scott Hanna 26-May-1983
102 0102 1 Modify FAB in EX$OPEN_RDB so that a logical name
103 0103 1 can be used for the Rights Database.
104 0104 1
105 0105 1 V03-002 GAS0126 Gerry Smith 26-May-1983
106 0106 1 Put SY$$FIND_HELD into its own module. This is
107 0107 1 necessary so that LOGINOUT can reference it before
108 0108 1 the loadable system services are loaded, at boot time.
109 0109 1
110 0110 1 V03-001 RSH0008 R. Scott Hanna 01-Mar-1983
111 0111 1 Changed SY$$CREATE_RDB to call EX$SET_RDIPTR.
112 0112 1
113 0113 1 **
114 0114 1
```

```

0115 1
0116 1 LIBRARY 'SYS$LIBRARY:LIB.L32';
0117 1
0118 1 FORWARD ROUTINE
0119 1 SYSSADD_HOLDER,
0120 1 SYSSADD_IDENT,
0121 1 SYSSCREATE_RDB,
0122 1 SYSSFIND_HOLDER,
0123 1 SYSSMOD_HOLDER,
0124 1 SYSSMOD_IDENT,
0125 1 SYSSMOD_IDENT_ATTRIB,
0126 1 SYSSMOD_IDENT_ID,
0127 1 SYSSMOD_IDENT_NAME,
0128 1 SYSSREM_HOLDER,
0129 1 SYSSREM_IDENT;
0130 1
0131 1 LINKAGE
0132 1 EXE_VAL_IDNAME = JSB (REGISTER=1; REGISTER=1, REGISTER=2) :
0133 1 NOPRESERVE (3)
0134 1 NOTUSED (4,5,6,7,8,9,10,11),
0135 1 EXE_ALOP1MAG = JSB (REGISTER=1; REGISTER=1, REGISTER=2) :
0136 1 NOPRESERVE (3);
0137 1
0138 1 EXTERNAL ROUTINE
0139 1 EXESOPEN_RDB : ADDRESSING_MODE (ABSOLUTE),
0140 1 EXESCLOSE_RDB : NOVALUE ADDRESSING_MODE (ABSOLUTE),
0141 1 EXESSFINISH_RDB : ADDRESSING_MODE (ABSOLUTE),
0142 1 EXESALOP1MAG : EXE_ALOP1MAG ADDRESSING_MODE (ABSOLUTE),
0143 1 EXESVAL_IDNAME : EXE_VAL_IDNAME ADDRESSING_MODE (ABSOLUTE),
0144 1 EXESSET_RDIPTR : ADDRESSING_MODE (ABSOLUTE),
0145 1 SYSSCMKRNL : ADDRESSING_MODE (ABSOLUTE);
0146 1
0147 1 EXTERNAL
0148 1 CTL$GL_RDIPTR : REF $BLOCK ADDRESSING_MODE (ABSOLUTE),
0149 1 CTL$GL_IMGHDRBF : LONG ADDRESSING_MODE (ABSOLUTE),
0150 1 EXEST_ID_UPCASE : VECTOR [,BYTE] ADDRESSING_MODE (GENERAL);
0151 1
0152 1 BUILTIN
0153 1 PROBER,
0154 1 PROBEW;
0155 1
0156 1
0157 1 LITERAL
0158 1 UIC$M_ID_FORM_FLAG = 1*31, ! mask for id form of identifier
0159 1 KGB$M_VACID_ATTRIB = KGB$M_RESOURCE; ! mask of valid attributes

```

```

161 0160 1 %SBTTL ' SYSSADD HOLDER - add holder to RDB'
162 0161 1 GLOBAL ROUTINE SYSSADD_HOLDER (ID, HOLDER, ATTRIB) =
163 0162 1
164 0163 1 |++
165 0164 1
166 0165 1 | FUNCTIONAL DESCRIPTION:
167 0166 1
168 0167 1 | This routine adds the specified holder record to the rights
169 0168 1 | database.
170 0169 1
171 0170 1 | CALLING SEQUENCE:
172 0171 1 | SYSSADD_HOLDER (ID, HOLDER, ATTRIB)
173 0172 1
174 0173 1 | INPUT PARAMETERS:
175 0174 1 | ID: identifier longword to associate the
176 0175 1 | holder record with
177 0176 1 | HOLDER: address of the holder identifier quadword
178 0177 1 | ATTRIB: (optional) attributes longword to grant to the holder
179 0178 1
180 0179 1 | IMPLICIT INPUTS:
181 0180 1 | NONE
182 0181 1
183 0182 1 | OUTPUT PARAMETERS:
184 0183 1 | NONE
185 0184 1
186 0185 1 | IMPLICIT OUTPUTS:
187 0186 1 | NONE
188 0187 1
189 0188 1 | ROUTINE VALUE:
190 0189 1 | Status of operation
191 0190 1
192 0191 1 | SIDE EFFECTS:
193 0192 1 | Holder record created
194 0193 1
195 0194 1 | --
196 0195 1
197 0196 2 BEGIN
198 0197 2
199 0198 2 LOCAL
200 0199 2 LOC_ID : LONG, ! local copy of ID
201 0200 2 LOC_HOLDER : REF VECTOR, ! local copy of HOLDER
202 0201 2 HOLDER_ID : VECTOR [2], ! local copy of holder id quadword
203 0202 2 LOC_ATTRIB : LONG, ! local copy of ATTRIB
204 0203 2 ID_ATTRIB : LONG, ! attributes of identifier
205 0204 2 STATUS : LONG, ! general status value
206 0205 2 CLOSE : LONG, ! call to EXE$CLOSE_RDB required flag
207 0206 2 RAB : $RAB DECL, ! RAB for file operations
208 0207 2 REC_BUFFER : $BBLOCK [KGB$K, IDENT_RECORD]; ! general purpose record buffer
209 0208 2
210 0209 2
211 0210 2 LABEL
212 0211 2 RDB_OPEN; ! rights database is open in this block
213 0212 2
214 0213 2 ! Validate parameters
215 0214 2
216 0215 2
217 0216 2 LOC_ID = .ID;

```

```
218 0217 2 IF (.LOC_ID AND UIC$M_ID_FORM_FLAG) NEQU 0
219 0218 2 THEN
220 0219 2 (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN S$$_IVIDENT)
221 0220 2 ELSE
222 0221 2 (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN S$$_IVIDENT);
223 0222 2
224 0223 2 LOC HOLDER = .HOLDER;
225 0224 2 IF NOT PROBER (%REF(0), %REF(8), .LOC_HOLDER) THEN RETURN S$$_ACCVIO;
226 0225 2 HOLDER_ID[0] = .LOC_HOLDER[0];
227 0226 2 HOLDER_ID[1] = .LOC_HOLDER[1];
228 0227 2 IF .HOLDER_ID[0] GTRU UIC$K_MAX_UIC OR
229 0228 2 .HOLDER_ID[0] EQLU .LOC_ID OR
230 0229 2 .HOLDER_ID[1] NEQU 0
231 0230 2 THEN
232 0231 2 RETURN S$$_IVIDENT;
233 0232 2
234 0233 2 LOC ATTRIB = .ATTRIB;
235 0234 2 IF T.LOC_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU 0 THEN RETURN S$$_BADPARAM;
236 0235 2
237 0236 2 ! Get the rights database open for write.
238 0237 2 !
239 0238 2
P 0239 2 $RAB_INIT (RAB = RAB,
P 0240 2 RAC = KEY,
P 0241 2 KRF = 0,
P 0242 2 KBF = HOLDER_ID[0],
P 0243 2 K SZ = 4,
P 0244 2 ROP = (NLK, RRL),
P 0245 2 UBF = REC_BUFFER,
P 0246 2 USZ = KGB$K_IDENT_RECORD
247 0247 2 );
248 0248 2 STATUS = EXE$OPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
249 0249 2 IF NOT .STATUS THEN RETURN .STATUS;
250 0250 2
251 0251 2 RDB_OPEN:
252 0252 2 BEGIN
253 0253 2
254 0254 2 ! Check to make sure that the holder ID exists.
255 0255 2 !
256 0256 2
257 0257 2
258 0258 2 STATUS = $FIND (RAB = RAB);
259 0259 2 IF .STATUS EQLU RMSS$RNF THEN STATUS = S$$_NOSUCHID;
260 0260 2 IF NOT .STATUS THEN LEAVE RDB_OPEN;
261 0261 2
262 0262 2 ! Read and lock the ident record and save away its attributes.
263 0263 2 !
264 0264 2
265 0265 2 RAB[RAB$V_RRL] = 0;
266 0266 2 RAB[RAB$V_NLK] = 0;
267 0267 2 RAB[RAB$V_RLK] = 1;
268 0268 2 RAB[RAB$V_ULK] = 1;
269 0269 2 RAB[RAB$V_WAT] = 1;
270 0270 2 RAB[RAB$V_KBF] = LOC_ID;
271 0271 2 STATUS = $GET (RAB = RAB);
272 0272 2 IF .STATUS EQLU RMSS$RNF THEN STATUS = S$$_NOSUCHID;
273 0273 2 IF NOT .STATUS
274 0274 2 THEN
```

```

275 0274 4 BEGIN
276 0275 4 $FREE (RAB = RAB);
277 0276 4 LEAVE RDB_OPEN;
278 0277 3 END;
279 0278 3 ID_ATTRIB = .REC_BUFFER[KGB$$_ATTRIBUTES];
280 0279 3
281 0280 3 ! Now read all holder records to make sure that the specified holder
282 0281 3 ! doesn't already exist.
283 0282 3
284 0283 3
285 0284 3 RAB[RAB$_RLK] = 0;
286 0285 3 RAB[RAB$_ULK] = 0;
287 0286 3 RAB[RAB$_WAT] = 0;
288 0287 3 RAB[RAB$_RRL] = 1;
289 0288 3 RAB[RAB$_NLK] = 1;
290 0289 3 RAB[RAB$_LIM] = 1;
291 0290 3 RAB[RAB$_RAC] = RAB$_SEQ;
292 0291 3 WHILE 1 DO
293 0292 4 BEGIN
294 0293 4 STATUS = $GET (RAB = RAB);
295 0294 4 IF .STATUS EQLU RMS$_EOF OR .STATUS EQLU RMS$_OK_LIM THEN EXITLOOP;
296 0295 4 IF NOT .STATUS
297 0296 4 THEN
298 0297 5 BEGIN
299 0298 5 $FREE (RAB = RAB);
300 0299 5 LEAVE RDB_OPEN;
301 0300 4 END;
302 0301 4 IF CH$EQL (KGB$$_HOLDER, HOLDER_ID[0], KGB$$_HOLDER, REC_BUFFER[KGB$_HOLDER])
303 0302 4 THEN
304 0303 5 BEGIN
305 0304 5 STATUS = S$$_DUPIDENT;
306 0305 5 $FREE (RAB = RAB);
307 0306 5 LEAVE RDB_OPEN;
308 0307 4 END;
309 0308 3 END;
310 0309 3
311 0310 3 ! Finally build and write the new holder record.
312 0311 3 !
313 0312 3
314 0313 3 RAB[RAB$_RAC] = RAB$_KEY;
315 0314 3 RAB[RAB$_RSZ] = KGB$_HOLD_RECORD;
316 0315 3 RAB[RAB$_RBF] = REC_BUFFER;
317 0316 3 REC_BUFFER[KGB$_IDENTIFIER] = .LOC_ID;
318 0317 3 REC_BUFFER[KGB$_ATTRIBUTES] = .LOC_ATTRIB AND .ID_ATTRIB;
319 0318 3 CH$MOVE (KGB$$_HOLDER, HOLDER_ID[0], REC_BUFFER[KGB$_HOLDER]);
320 0319 3 STATUS = $PUT (RAB = RAB);
321 0320 3 $FREE (RAB = RAB);
322 0321 2 END;
323 0322 2
324 0323 2 ! Close the rights database if there is no image
325 0324 2 !
326 0325 2
327 0326 2 IF .CLOSE THEN EXE$CLOSE_RDB();
328 0327 2 IF .STATUS
329 0328 2 THEN
330 0329 2 RETURN S$$_NORMAL
331 0330 2 ELSE

```


: 332
: 333
: 334
0331 2 RETURN .STATUS;
0332 2
0333 1 END;

. End of routine SYS\$ADD HOLDER

.TITLE RDBSHR RDBSHR - Rights database loadable system
service
.IDENT \V04-000\

.EXTRN EXE\$OPEN RDB, EXE\$CLOSE_RDB
.EXTRN EXE\$\$FINISH RDB
.EXTRN EXE\$ALOP1IMAG, EXE\$VAL IDNAME
.EXTRN EXE\$SET RDIPTA, SYS\$CMRNL
.EXTRN CTLSGL RDIPTA, CTLSGL_IMGHDRBF
.EXTRN EXEST ID_UPCASE
.EXTRN SYS\$FIND, SYS\$GET
.EXTRN SYS\$FREE, SYS\$PUT

.PSECT \$CODE\$,NOWRT,2

.ENTRY SYS\$ADD HOLDER, Save R2,R3,R4,R5,R6,R7,R8,- : 0161
R9

MOVAB SYS\$GET, R9
MOVAB -132(SP), SP
MOVL ID, LOC_ID : 0215
MOVL LOC_ID, -R7 : 0217
BGEQ 1\$
CMPL R7, #-1879048193 : 0219
BLEQU 2\$
BRB 4\$
CMPL R7, #1073741823 : 0221
BGTRU 4\$
TSTL R7
BEQL 4\$
MOVL HOLDER, LOC HOLDER : 0223
PROBER #0, #8, (LOC HOLDER) : 0224
BNEQ 3\$
MOVL #12, R0
RET
MOVL (LOC HOLDER), HOLDER ID : 0225
MOVL 4(LOC HOLDER), HOLDER ID+4 : 0226
CMPL HOLDER_ID, #1073741823 : 0227
BGTRU 4\$
CMPL HOLDER_ID, R7 : 0228
BEQL 4\$
TSTL HOLDER_ID+4 : 0229
BEQL 5\$
MOVZWL #8740, R0 : 0231
RET
MOVL ATTRIB, LOC_ATTRIB : 0233
BITL LOC_ATTRIB, #-2 : 0234
BEQL 6\$
MOVL #20, R0
RET
MOVC5 #0, (SP), #0, #68, \$RMS_PTR : 0247
MOVW #17409, \$RMS_PTR

03FC 00000
59 00000000G 00 9E 00002
5E FF7C CE 9E 00009
04 AE 04 AC D0 0000E
57 04 AE D0 00013
OB 18 00017
8FFFFFFF 8F 57 D1 00019
OF 1B 00020
3FFFFFFF 8F 39 11 00022
57 D1 00024 1\$:
30 1A 0002B
57 D5 0002D
2C 13 0002F
60 50 0B AC D0 00031 2\$:
08 00 0C 00035
04 12 00039
50 0C D0 0003B
04 0003E
7C AE 60 D0 0003F 3\$:
FC AD 04 A0 D0 00043
3FFFFFFF 8F 7C AE D1 00048
OB 1A 00050
57 7C AE D1 00052
05 13 00056
FC AD D5 00058
06 13 0005B
50 2224 8F 3C 0005D 4\$:
04 00062
58 0C AC D0 00063 5\$:
FFFFFFFE 8F 58 D3 00067
04 13 0006E
50 14 D0 00070
04 00073
0044 8F 00 6E 00 2C 00074 6\$:
38 AE 38 AE 0007B
38 AE 4401 8F B0 0007D

3C	AE	00100008	8F	DO	00083	MOVL	#1048584, \$RMS_PTR+4		
56	AE		01	90	0008B	MOVB	#1, \$RMS_PTR+30		
58	AF		30	B0	0008F	MOVW	#48, \$RMS_PTR+32		
5C	AE	08	AE	9E	00093	MOVAB	REC_BUFFER, \$RMS_PTR+36		
68	AE	7C	AE	9E	00098	MOVAB	HOLDER_ID, \$RMS_PTR+48		
6C	AE		04	90	0009D	MOVB	#4, \$RMS_PTR+52		
			5E	DD	000A1	PUSHL	SP	0248	
		3E	AE	9F	000A3	PUSHAB	RAB+2		
			01	DD	000A6	PUSHL	#1		
			7E	D4	000A8	CLRL	-(SP)		
0000000G	9F		04	FB	000AA	CALLS	#4, @#EXESOPEN_RDB		
	56		50	DO	000B1	MOVL	R0, STATUS		
	03		56	EB	000B4	BLBS	STATUS, 7\$	0249	
		00D3	31	000B7	BRW	16\$			
		38	AE	9F	000BA	7\$: PUSHAB	RAB	0257	
0000000G	00		01	FB	000BD	CALLS	#1, SYSS\$FIND		
	56		50	DO	000C4	MOVL	R0, STATUS		
000182B2	8F		56	D1	000C7	CMPL	STATUS, #98994	0258	
			05	12	000CE	BNEQ	8\$		
	56	21EC	8F	3C	000D0	MOVZWL	#8684, STATUS		
	03		56	EB	000D5	8\$: BLBS	STATUS, 9\$	0259	
			30A1	31	000D8	BRW	14\$		
	3C	AE	00100008	8F	CA	000DB	9\$: BICL2	#1048584, RAB+6	0265
	3E	AE		0E	88	000E3	BISB2	#14, RAB+6	0268
	68	AE	04	AE	9E	000E7	MOVAB	LOC_ID, RAB+48	0269
			38	AE	9F	000EC	PUSHAB	RAB	0270
			69	01	FB	000EF	CALLS	#1, SYSS\$GET	
	56		50	DO	000F2	MOVL	R0, STATUS		
000182B2	8F		56	D1	000F5	CMPL	STATUS, #98994	0271	
			05	12	000FC	BNEQ	10\$		
	56	21EC	8F	3C	000FE	MOVZWL	#8684, STATUS		
	6C		56	E9	00103	10\$: BLBC	STATUS, 13\$	0272	
	54	0C	AE	DO	00106	MOVL	REC_BUFFER+4, ID_ATTRIB	0278	
	3E	AE	0E	8A	0010A	BICB2	#14, RAB+6	0286	
	3C	AE	00104008	8F	C8	0010E	BISL2	#1064968, RAB+5	0289
			56	AE	94	00116	CLRB	RAB+30	0290
			38	AE	9F	00119	11\$: PUSHAB	RAB	0293
			69	01	FB	0011C	CALLS	#1, SYSS\$GET	20
	56		50	DO	0011F	MOVL	R0, STATUS	20	
0001827A	8F		56	D1	00122	CMPL	STATUS, #98938	0294	
			1B	13	00129	BEQL	12\$	52	
00018051	8F		56	D1	0012B	CMPL	STATUS, #98385	20	
			12	13	00132	BEQL	12\$		
			56	E9	00134	BLBC	STATUS, 13\$	0295	
10	AE	7C	AE	08	29	00137	CMPC3	#8, HOLDER_ID, REC_BUFFER+8	20
				DA	12	0013D	BNEQ	11\$	0301
			56	8F	3C	0013F	MOVZWL	#8748, STATUS	20
				2C	11	00144	BRB	13\$	0304
				01	90	00146	12\$: MOVB	#1, RAB+30	0305
	5A	AE		10	B0	0014A	MOVW	#16, RAB+34	0313
	60	AE	08	AE	9E	0014E	MOVAB	REC_BUFFER, RAB+40	0314
	08	AE		57	DO	00153	MOVL	R7, REC_BUFFER	0315
				54	D2	00157	MCOML	ID_ATTRIB, R0	0316
				50	CB	0015A	BICL3	R0, LOC_ATTRIB, REC_BUFFER+4	0317
0C	AE		58	50	CB	0015A	BICL3	R0, LOC_ATTRIB, REC_BUFFER+4	20
10	AE	7C	AE	08	28	0015F	MOV3	#8, HOLDER_ID, REC_BUFFER+8	0318
			38	AE	9F	00165	PUSHAB	RAB	0319
0000000G	00		01	FB	00168	CALLS	#1, SYSS\$PUT	20	

RD
VO

RDBSHR
V04-000

RDBSHR - Rights database loadable system servic
SYSSADD_HOLDER - add holder to RDB

E 8
16-Sep-1984 01:48:50
14-Sep-1984 12:40:52

VAX-11 Bliss-32 V4.0-742
[LOADSS.SRC]RDBSHR.B32;1

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RD
V0

	56		50	D0	0016F		MOVL	R0,	STATUS		
		38	AE	9F	00172	13\$:	PUSHAB	RAB			: 0320
00000000G	00		01	FB	00175		CALLS	#1,	SYSSFREE		
	07		6E	E9	0017C	14\$:	BLBC	CLOSE,	15\$: 0326
00000000G	9F		00	FB	0017F		CALLS	#0,	@#EXESCLOSE_RDB		
	04		56	E9	00186	15\$:	BLBC	STATUS,	16\$: 0327
	50		01	D0	00189		MOVL	#1,	R0		: 0331
				04	0018C		RET				
	50		56	D0	0018D	16\$:	MOVL	STATUS,	R0		: 0333
				04	00190		RET				

; Routine Size: 401 bytes, Routine Base: \$CODE\$ + 0000

20
20

```

336 0334 1 %SBTTL ' SYSSADD_IDENT - add identifier to RDB'
337 0335 1 GLOBAL ROUTINE SYSSADD_IDENT (NAME, ID, ATTRIB, RESID) =
338 0336 1
339 0337 1 :++
340 0338 1
341 0339 1 FUNCTIONAL DESCRIPTION:
342 0340 1
343 0341 1     This routine creates the identifier of the specified name.
344 0342 1     If an explicit identifier code is given, it is used; otherwise
345 0343 1     the next available general code is used.
346 0344 1
347 0345 1 CALLING SEQUENCE:
348 0346 1     SYSSADD_IDENT (NAME, ID, ATTRIB, RESID)
349 0347 1
350 0348 1 INPUT PARAMETERS:
351 0349 1     NAME:   address of the identifier name character
352 0350 1           string descriptor
353 0351 1     ID:    (optional) identifier longword to associate with 'name'
354 0352 1     ATTRIB: (optional) attributes longword to grant to the identifier
355 0353 1
356 0354 1 IMPLICIT INPUTS:
357 0355 1     NONE
358 0356 1
359 0357 1 OUTPUT PARAMETERS:
360 0358 1     RESID: (optional) address of a longword to return the assigned
361 0359 1           identifier
362 0360 1
363 0361 1 IMPLICIT OUTPUTS:
364 0362 1     NONE
365 0363 1
366 0364 1 ROUTINE VALUE:
367 0365 1     success or failure status
368 0366 1
369 0367 1 SIDE EFFECTS:
370 0368 1     identifier record created
371 0369 1
372 0370 1 :--
373 0371 1
374 0372 2 BEGIN
375 0373 2
376 0374 2 LOCAL
377 0375 2     LOC_NAME       : REF VECTOR,      ! local copy of NAME
378 0376 2     LENGTH        : LONG,            ! output from EXESVAL_IDNAME
379 0377 2     ADDRESS       : LONG,            ! output from EXESVAL_IDNAME
380 0378 2     LOC_ID        : LONG,            ! local copy of ID
381 0379 2     IDENTIFIER    : LONG,            ! identifier code to use
382 0380 2     LOC_ATTRIB    : LONG,            ! local copy of ATTRIB
383 0381 2     LOC_RESID     : LONG,            ! local copy of RESID
384 0382 2     STATUS       : LONG,            ! general status value
385 0383 2     CLOSE        : LONG,            ! call to EXE$CLOSE_RDB required flag
386 0384 2     RAB          : $RAB_DECL,        ! RAB for record operations
387 0385 2     MAINT_RFA    : $BBLOCK [RAB$S RFA], ! RFA of maintenance record
388 0386 2
389 0387 2     REC_BUFFER   : $BBLOCK [KGB$K MAINT_RECORD], ! general record buffer
390 0388 2
391 0389 2     NAME_BUFFER  : $BBLOCK [KGB$S NAME], ! name key buffer
392 0390 2

```

```
393 0391 2
394 0392 2 LABEL
395 0393 2 RDB_OPEN; . rights database is open in this block
396 0394 2
397 0395 2 ! Validate parameters
398 0396 2 !
399 0397 2
400 0398 2 LOC_NAME = .NAME;
401 0399 2 STATUS = EXESVAL IDNAME( .LOC_NAME; LENGTH, ADDRESS);
402 0400 2 IF NOT .STATUS THEN RETURN .STATUS;
403 0401 2 CH$TRANSLATE (EXEST_ID_UPCASE, .LENGTH, .ADDRESS, ' ', KGB$S_NAME, NAME_BUFFER);
404 0402 2
405 0403 2 LOC_ID = .ID;
406 0404 2 IF (.LOC_ID AND UIC$M_ID_FORM_FLAG) NEQU 0
407 0405 2 THEN
408 0406 2 (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SSS_'VIDENT)
409 0407 2 ELSE
410 0408 2 (IF (.LOC_ID GTRU UIC$K_MAX_UIC) THEN RETURN SSS_'VIDENT);
411 0409 2
412 0410 2 LOC_ATTRIB = .ATTRIB;
413 0411 2 IF (.LOC_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU 0 THEN RETURN SSS_BADPARAM;
414 0412 2
415 0413 2 LOC_RESID = .RESID;
416 0414 2 IF .LOC_RESID NEQU 0 AND NOT PROBEW (%REF(0), %REF(4), .LOC_RESID)
417 0415 2 THEN
418 0416 2 RETURN SSS_ACCVIO;
419 0417 2
420 0418 2 ! Get the rights database open for write.
421 0419 2 !
422 0420 2
423 P 0421 2 $RAB_INIT (RAB = RAB,
424 P 0422 2 RAC = KEY,
425 P 0423 2 KRF = 0,
426 P 0424 2 KSZ = 4,
427 P 0425 2 KBF = UPLIT (0),
428 P 0426 2 ROP = (WAT, RLK, ULK),
429 P 0427 2 USZ = KGB$K_MAINT_RECORD,
430 P 0428 2 UBF = REC_BUFFER
431 0429 2 );
432 0430 2 STATUS = EXES$OPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
433 0431 2 IF NOT .STATUS THEN RETURN .STATUS;
434 0432 2
435 0433 2 RDB_OPEN:
436 0434 2 BEGIN
437 0435 2
438 0436 2 ! First read the maintenance record to interlock the entire operation.
439 0437 2 !
440 0438 2
441 0439 2 STATUS = $GET (RAB = RAB);
442 0440 2 IF NOT .STATUS
443 0441 2 THEN
444 0442 2 BEGIN
445 0443 2 $FREE (RAB = RAB);
446 0444 2 LEAVE RDB_OPEN;
447 0445 2 END;
448 0446 2 CH$MOVE (RAB$S_RFA, RAB[RAB$W_RFA], MAINT_RFA);
449 0447 2
```

```
450 0448 3 ! Now see if the specified name is already in use.
451 0449 3 !
452 0450 3
453 0451 3 RAB[RABSV_WAT] = 0;
454 0452 3 RAB[RABSV_ULK] = 0;
455 0453 3 RAB[RABSV_RLK] = 0;
456 0454 3 RAB[RABSV_NLK] = 1;
457 0455 3 RAB[RABSV_RRL] = 1;
458 0456 3 RAB[RABSB_KRF] = 2;
459 0457 3 RAB[RABSB_KSZ] = KGBSS NAME;
460 0458 3 RAB[RABSL_KBF] = NAME_BUFFER;
461 0459 3 STATUS = $FIND (RAB = RAB);
462 0460 3 IF .STATUS THEN STATUS = SSS_DUPLNAM;
463 0461 3 IF .STATUS NEQU RMSS_RNF
464 0462 3 THEN
465 0463 4 BEGIN
466 0464 4 $FREE (RAB = RAB);
467 0465 4 LEAVE RDB_OPEN;
468 0466 4 END;
469 0467 3
470 0468 3 ! If an explicit identifier is given, see if it is in use.
471 0469 3 !
472 0470 3
473 0471 3 RAB[RABSB_KRF] = 0;
474 0472 3 RAB[RABSB_KSZ] = 4;
475 0473 3
476 0474 3 IF .LOC_ID NEQU 0
477 0475 3 THEN
478 0476 4 BEGIN
479 0477 4 RAB[RABSL_KBF] = LOC_ID;
480 0478 4 STATUS = $FIND (RAB = RAB);
481 0479 4 IF .STATUS THEN STATUS = SSS_DUPIDENT;
482 0480 4 IF .STATUS NEQU RMSS_RNF
483 0481 4 THEN
484 0482 5 BEGIN
485 0483 5 $FREE (RAB = RAB);
486 0484 5 LEAVE RDB_OPEN;
487 0485 4 END;
488 0486 4 IDENTIFIER = .LOC_ID;
489 0487 4 END
490 0488 3
491 0489 3 ! Otherwise we have to select an identifier.
492 0490 3 !
493 0491 3
494 0492 3 ELSE
495 0493 4 BEGIN
496 0494 4 IDENTIFIER = .REC_BUFFER[KGBSL_NEXT_ID];
497 0495 4
498 0496 4 ! Attempt to get the record pointed to by the new identifier. If it
499 0497 4 ! exists, keep incrementing until a free identifier is found. Wrap
500 0498 4 ! the identifier value when it overflows.
501 0499 4 !
502 0500 4
503 0501 4 RAB[RABSL_KBF] = IDENTIFIER;
504 0502 4 WHILE 1 DO
505 0503 5 BEGIN
506 0504 5 IF .IDENTIFIER GTRU UIC&K_LAST_ID
```

```
507 0505 5 THEN
508 0506 5 IDENTIFIER = UIC$K FIRST_ID;
509 0507 5 STATUS = $FIND (RAB = RAB);
510 0508 5 IF NOT .STATUS
511 0509 5 THEN
512 0510 6 BEGIN
513 0511 6 IF .STATUS EQLU RMSS_RNF
514 0512 6 THEN
515 0513 6 EXITLOOP
516 0514 6 ELSE
517 0515 7 BEGIN
518 0516 7 $FREE (RAB = RAB);
519 0517 7 LEAVE RDB_OPEN;
520 0518 6 END;
521 0519 5 END;
522 0520 5 IDENTIFIER = .IDENTIFIER + 1;
523 0521 4 END;
524 0522 4
525 0523 4 ! Write back the maintenance record with an updated next identifier
526 0524 4 ! value. Note that while we increment the identifier here, it is
527 0525 4 ! not necessary to wrap it, since that is done in the check above.
528 0526 4
529 0527 4
530 0528 4 REC_BUFFER[KGB$S_NEXT_ID] = .IDENTIFIER + 1;
531 0529 4 RAB[RAB$B_RAC] = RAB$C_RFA;
532 0530 4 CH$MOVE (RAB$S_RFA, MAINT_RFA, RAB[RAB$W_RFA]);
533 0531 4 STATUS = $FIND (RAB = RAB);
534 0532 4 IF NOT .STATUS
535 0533 4 THEN
536 0534 5 BEGIN
537 0535 5 $FREE (RAB = RAB);
538 0536 5 LEAVE RDB_OPEN;
539 0537 4 END;
540 0538 4
541 0539 4 STATUS = $UPDATE (RAB = RAB);
542 0540 4 IF NOT .STATUS
543 0541 4 THEN
544 0542 5 BEGIN
545 0543 5 $FREE (RAB = RAB);
546 0544 5 LEAVE RDB_OPEN;
547 0545 4 END;
548 0546 3 END;
549 0547 3
550 0548 3 IF .LOC_RESID NEQU 0 THEN .LOC_RESID = .IDENTIFIER;
551 0549 3
552 0550 3 ! Finally create the new identifier record and write it.
553 0551 3 !
554 0552 3
555 0553 3 REC_BUFFER[KGB$S_IDENTIFIER] = .IDENTIFIER;
556 0554 3 REC_BUFFER[KGB$S_ATTRIBUTES] = .LOC_ATTRIB;
557 0555 3 CH$FILL (0, KGB$S_HOLDER, REC_BUFFER[KGB$S_HOLDER]);
558 0556 3 CH$MOVE (KGB$S_NAME, NAME_BUFFER, REC_BUFFER[KGB$S_NAME]);
559 0557 3 RAB[RAB$B_RAC] = RAB$C_KEY;
560 0558 3 RAB[RAB$W_RSZ] = KGB$K_IDENT_RECORD;
561 0559 3 RAB[RAB$S_RBF] = REC_BUFFER;
562 0560 3 STATUS = $PUT (RAB = RAB);
563 0561 3 $FREE (RAB = RAB);
```

```

564 0562 2      END;
565 0563 ~~~~~
566 0564 ~~~~~ ! Close the rights database if there is no image
567 0565 ~~~~~
568 0566 ~~~~~
569 0567 ~~~~~ IF .CLOSE THEN EXE$CLOSE_RDB();
570 0568 ~~~~~ IF .STATUS
571 0569 ~~~~~ THEN
572 0570 ~~~~~ RETURN SSS_NORMAL
573 0571 ~~~~~ ELSE
574 0572 ~~~~~ RETURN .STATUS;
575 0573 ~~~~~
576 0574 ~~~~~ 1 END;

```

! End of routine SYSSADD_IDENT

						.PSECT	\$SPLITS,NOWRT,NOEXE,2					
		00000000	00000	P.AAA:		.LONG	0		:			
						.EXTRN	SYSSUPDATE					
						.PSECT	\$CODE\$,NOWRT,2					
			OFFC	00000		.ENTRY	SYSSADD_IDENT, Save R2,R3,R4,R5,R6,R7,R8,-		0335			
							R9,R10,R11					
		5B	00000000G	00	9E	00002	MOVAB	SYSS\$FIND, R11				
		5E	FF48	CE	9E	00009	MOVAB	-184(SP), SP				
		51	04	AC	D0	0000E	MOVL	NAME, LOC_NAME	0398			
			00000000G	9F	16	00012	JSB	@#EXE\$VAL_IDNAME	0399			
		56		50	D0	00018	MOVL	R0, STATUS				
		03		56	EB	0001B	BLBS	STATUS, 1\$	0400			
				01CA	31	0001E	BRW	21\$				
00000000G	00			51	2E	00021	1\$:	MOVTC	LENGTH, (ADDRESS), #32, EXEST_ID_UPCASE, -	0401		
				20		0002A			#32, NAME BUFFER			
				0C								
				AE	08	AC	D0	0002D	MOVLC	ID, LOC_ID	0403	
				57	04	AE	D0	00032	MOVL	LOC_ID, R7	0404	
						09	18	00036	BGEQ	2\$		
		8FFFFFFF	8F	57	D1	00038	CMPL	R7, #-1879048193		0406		
				07	11	0003F	BRB	3\$				
		3FFFFFFF	8F	57	D1	00041	2\$:	CMPL	R7, #1073741823	0408		
				06	1B	00048	3\$:	BLEQU	4\$			
				50	2224	8F	3C	0004A	MOVZWL	#8740, R0		
						04	0004F	RET				
				59	0C	AC	D0	00050	4\$:	MOVLC	ATTRIB, LOC_ATTRIB	0410
				8F		59	D3	00054	BITL	LOC_ATTRIB, #-2	0411	
		FFFFFFFFE	8F	04	13	0005B	BEQL	5\$				
				50	14	D0	0005D	MOVL	#20, R0			
						04	00060	RET				
				58	10	AC	D0	00061	5\$:	MOVLC	RESID, LOC_RESID	0413
						5A	D4	00065	CLRL	R10	0414	
						58	D5	00067	TSTL	LOC_RESID		
						0C	13	00069	BEQL	6\$		
						5A	D6	0006B	INCL	R10		
		68	04	00	0D	0006D	PROBEW	#0, #4, (LOC_RESID)				
				04	12	00071	BNEQ	6\$				
				50	0C	D0	00073	MOVL	#12, R0	0416		

0044	8F	00	6E	00	04	00076	RET					
				74	2C	00077	6\$:	MOVCS	#0, (SP), #0, #68, \$RMS_PTR			0429
				74	AE	0007E						
			74	AE	4401	8F	B0	00080	MOVW	#17409, \$RMS_PTR		
			78	AE	000E0000	8F	D0	00086	MOVL	#917504, \$RMS_PTR+4		
			DA	AD		01	90	0008E	MOVW	#1, \$RMS_PTR+30		
			DC	AD	40	8F	9B	00092	MOVZBW	#64, \$RMS_PTR+32		
			EO	AD	2C	AE	9E	00097	MOVAB	REC_BUFFER, \$RMS_PTR+36		
			EC	AD	0000	CF	9E	0009C	MOVAB	P.AXA, \$RMS_PTR+48		
			FO	AD		04	90	000A2	MOVW	#4, \$RMS_PTR+52		
					7A	5E	DD	000A6	PUSHL	SP		0430
						AE	9F	000A8	PUSHAB	RAB+2		
						01	DD	000AB	PUSHL	#1		
						7E	D4	000AD	CLRL	-(SP)		
		00000000G				04	FB	000AF	CALLS	#4, @NEX\$OPEN_RDB		
						50	D0	000B6	MOVL	R0, STATUS		
						56	E8	000B9	BLBS	STATUS, 7\$		0431
						012C	31	000BC	BRW	21\$		
						74	AE	9F	000BF	7\$:		0439
		00000000G				01	FB	000C2	CALLS	#1, SYSS\$GET		
						50	D0	000C9	MOVL	R0, STATUS		
						56	E8	000CC	BLBS	STATUS, 9\$		0440
						00FE	31	000CF	8\$:			
6C	AE		CC	AD	06	28	000D2	9\$:	MOVCS	#6, RAB+16, MAINT_RFA		0446
			7A	AE	0E	8A	000D8		BICB2	#14, RAB+6		0453
			78	AE	00100008	8F	C8	000DC	BISL2	#1048584, RAB+6		0454
			FO	AD	0220	8F	B0	000E4	MOVW	#544, RAB+52		0457
			EC	AD	0C	AE	9E	000EA	MOVAB	NAME_BUFFER, RAB+48		0458
					74	AE	9F	000EF	PUSHAB	RAB		0459
						01	FB	000F2	CALLS	#1, SYSS\$FIND		
			6B			50	D0	000F5	MOVL	R0, STATUS		
			56			56	E9	000F8	BLBC	STATUS, 10\$		0460
			04			8F	9A	000FB	MOVZBL	#148, STATUS		
		000182B2				56	D1	000FF	10\$:	CPL	STATUS, #98994	0461
						C7	12	00106	BNEQ	8\$		
			FO	AD		04	B0	00108	MOVW	#4, RAB+52		0472
						57	D5	0010C	TSTL	R7		0474
						25	13	0010E	BEQL	12\$		
						AE	9E	00110	MOVAB	LOC_ID, RAB+48		0477
			EC	AD	74	AE	9F	00115	PUSHAB	RAB		0478
						01	FB	00118	CALLS	#1, SYSS\$FIND		
			6B			50	D0	0011B	MOVL	R0, STATUS		
			56			56	E9	0011E	BLBC	STATUS, 11\$		0479
			05			8F	3C	00121	MOVZWL	#8748, STATUS		
		000182B2			222C	56	D1	00126	11\$:	CPL	STATUS, #98994	0480
						A0	12	0012D	BNEQ	8\$		
			08	AE		57	D0	0012F	MOVL	R7, IDENTIFIER		0486
						64	11	00133	BRB	17\$		0474
			08	AE	68	AE	D0	00135	12\$:	MOVL	REC_BUFFER+60, IDENTIFIER	0494
			EC	AD	08	AE	9E	0013A	MOVAB	IDENTIFIER, RAB+48		0501
		8FFFFFFF			08	AE	D1	0013F	13\$:	CPL	IDENTIFIER, #-1879048193	0504
						08	1B	00147	BLEQU	14\$		
			08	AE	80010000	8F	D0	00149	14\$:	MOVL	#-2147418112, IDENTIFIER	0506
					74	AE	9F	00151	PUSHAB	RAB		0507
			6B			01	FB	00154	CALLS	#1, SYSS\$FIND		
			56			50	D0	00157	MOVL	R0, STATUS		
			0B			56	E8	0015A	BLBS	STATUS, 15\$		0508

		000182B2	8F		56	D1	0015D		CMPL	STATUS, #98994	:	0511	
					07	13	00164		BEQL	16\$:		
					68	11	00166		BRB	19\$:	0516	
				08	AE	D6	00168	15\$:	INCL	IDENTIFIER	:	0520	
					D2	11	0016B		BRB	13\$:	0502	
	68	AE	08	AE	01	C1	0016D	16\$:	ADDL3	#1, IDENTIFIER, REC_BUFFER+60	:	0528	
			DA	AD	02	90	00173		MOVB	#2, RAB+30	:	0529	
	CC	AD	6C	AE	06	28	00177		MOV3	#6, MAINT_RFA, RAB+16	:	0530	
					74	AE	9F	0017D	PUSHAB	RAB	:	0531	
			6B		01	FB	00180		CALLS	#1, SYSS\$FIND	:		
			56		50	D0	00183		MOVL	R0, STATUS	:		
			47		56	E9	00186		BLBC	STATUS, 19\$:	0532	
					74	AE	9F	00189	PUSHAB	RAB	:	0539	
		00000000G	00		01	FB	0018C		CALLS	#1, SYSS\$UPDATE	:		
			56		50	D0	00193		MOVL	R0, STATUS	:		
			37		56	E9	00196		BLBC	STATUS, 19\$:	0540	
			04		5A	E9	00199	17\$:	BLBC	R10, 18\$:	0548	
			68		08	AE	D0	0019C	MOVL	IDENTIFIER, (LOC_RESID)	:		
			2C		08	AE	D0	001A0	18\$:	MOVL	IDENTIFIER, REC_BUFFER	:	0553
			30		59	D0	001A5		MOVL	LOC_ATTRIB, REC_BUFFER+4	:	0554	
08		00	6E		00	2C	001A9		MOV3	#0, -(SP), #0, #8, REC_BUFFER+8	:	0555	
					34	AE	001AE				:		
	3C	AE	0C	AE	20	28	001B0		MOV3	#32, NAME_BUFFER, REC_BUFFER+16	:	0556	
			DA	AD	01	90	001B6		MOVB	#1, RAB+30	:	0557	
			DE	AD	30	B0	001BA		MOVW	#48, RAB+34	:	0558	
			E4	AD	2C	AE	9E	001BE	MOVAB	REC_BUFFER, RAB+40	:	0559	
					74	AE	9F	001C3	PUSHAB	RAB	:	0560	
		00000000G	00		01	FB	001C6		CALLS	#1, SYSS\$PUT	:		
			56		50	D0	001CD		MOVL	R0, STATUS	:		
					74	AE	9F	001D0	19\$:	PUSHAB	RAB	:	0561
		00000000G	00		01	FB	001D3		CALLS	#1, SYSS\$FREE	:		
			07		6E	E9	001DA		BLBC	CLOSE, 20\$:	0567	
		00000000G	9F		00	FB	001DD		CALLS	#0, @#EXE\$CLOSE_RDB	:		
			04		56	E9	001E4	20\$:	BLBC	STATUS, 21\$:	0568	
			50		01	D0	001E7		MOVL	#1, R0	:	0572	
						04	001EA		RET		:		
			50		56	D0	001EB	21\$:	MOVL	STATUS, R0	:		
					04	001EE			RET		:	0574	

: Routine Size: 495 bytes, Routine Base: \$CODE\$ + 0191

```

578 0575 1 %SBTTL ' SYSS$CREATE_RDB - create rights data base'
579 0576 1 GLOBAL ROUTINE SYSS$CREATE_RDB (SYSID) =
580 0577 1
581 0578 1 !++
582 0579 1
583 0580 1 FUNCTIONAL DESCRIPTION:
584 0581 1
585 0582 1 This routine creates a new rights database. After creation the
586 0583 1 database contains the maintenance record and records for the
587 0584 1 environmental rights.
588 0585 1
589 0586 1 CALLING SEQUENCE:
590 0587 1 SYSS$CREATE_RDB (SYSID)
591 0588 1
592 0589 1 INPUT PARAMETERS:
593 0590 1 SYSID: (optional) address of the quadword system identifier
594 0591 1 to store in the maintenance record
595 0592 1
596 0593 1 IMPLICIT INPUTS:
597 0594 1 NONE
598 0595 1
599 0596 1 OUTPUT PARAMETERS:
600 0597 1 NONE
601 0598 1
602 0599 1 IMPLICIT OUTPUTS:
603 0600 1 NONE
604 0601 1
605 0602 1 ROUTINE VALUE:
606 0603 1 Status value of operation
607 0604 1
608 0605 1 SIDE EFFECTS:
609 0606 1 All active streams terminated, rights cache flushed,
610 0607 1 rights database created and opened
611 0608 1
612 0609 1 --
613 0610 1
614 0611 2 BEGIN
615 0612 2
616 0613 2 REGISTER
617 0614 2 SIZE = 1; ! size returned from EXESALOP1IMAG
618 0615 2 ADDRESS = 2; ! address returned from EXESALOP1IMAG
619 0616 2
620 0617 2 LOCAL
621 0618 2 LOC_SYSID : REF VECTOR, ! local copy of SYSID
622 0619 2 STATUS : LONG, ! general status value
623 0620 2 CLOSE : BYTE, ! close rights database flag
624 0621 2 MAINT_RECORD : $BBLOCK [KGB$K MAINT_RECORD],
625 0622 2 ! buffer to build maintenance record
626 0623 2 FAB : $FAB_DECL, ! FAB to create rights database
627 0624 2 RAB : $RAB_DECL, ! RAB for rights database
628 0625 2 KEY0 : $XABKEY_DECL, ! XAB for primary key (identifier)
629 0626 2 KEY1 : $XABKEY_DECL, ! XAB for holder key
630 0627 2 KEY2 : $XABKEY_DECL, ! XAB for name key
631 0628 2 PROTECT : $XABPRO_DECL, ! XAB for file protection
632 0629 2 ARGLIST : VECTOR [2] ! argument list for EXESSET_RDIPT
633 0630 2
634 0631 2 INITIAL (1,0);

```

```

635 0632 2 LABEL
636 0633 2 RDB_OPEN; ! rights database is open in this block
637 0634 2
638 0635 2 ! Validate parameters
639 0636 2 !
640 0637 2
641 0638 2 LOC_SYSID = .SYSID;
642 0639 2 IF .LOC_SYSID NEQU 0 AND NOT PROBER (%REF(0), %REF(8), .LOC_SYSID)
643 0640 2 THEN
644 0641 2 RETURN SS$_ACCVIO;
645 0642 2
646 0643 2 ! Do not open if file already exists
647 0644 2 !
648 0645 2
649 P 0646 2 $FAB_INIT (FAB = FAB,
650 P 0647 2 FNM = 'RIGHTSLIST',
651 P 0648 2 DNM = 'SYSS$SYSTEM:.DAT',
652 P 0649 2 FAC = GET,
653 0650 2 SHR = (GET, PUT, DEL, UPD) );
654 0651 2
655 0652 2 STATUS = $OPEN(FAB=FAB);
656 0653 2 IF .STATUS THEN
657 0654 2 RETURN RMS$_FEX;
658 0655 2
659 0656 2 ! Allocate RDI if it has not been allocated already
660 0657 2 !
661 0658 2
662 0659 2 IF .CTL$GL_RDIPTR EQLU 0
663 0660 2 THEN
664 0661 2 BEGIN
665 0662 2 STATUS = EXE$ALOP1IMAG (RDI$$ RDIDEF; SIZE, ADDRESS);
666 0663 2 IF NOT .STATUS THEN RETURN SS$_INSFMEM;
667 0664 2 .ADDRESS = .SIZE;
668 0665 2 ARGUMENT[1] = .ADDRESS;
669 0666 2 STATUS = SYSS$CMKRNL(EXE$SET_RDIPTR, ARGUMENT);
670 0667 2 IF NOT .STATUS THEN RETURN .STATUS;
671 0668 2 CH$FILL (0, RDI$$ RDIDEF-4, .CTL$GL_RDIPTR+4);
672 0669 2 END
673 0670 2
674 0671 2 ! Else Close out all active streams to the rights database
675 0672 2 !
676 0673 2
677 0674 2 ELSE
678 0675 2 EXE$CLOSE_RDB();
679 0676 2
680 0677 2 ! Now set up the FAB and XAB's and create the file.
681 0678 2 !
682 0679 2
683 P 0680 2 $FAB_INIT (FAB = FAB,
684 P 0681 2 FNM = 'RIGHTSLIST',
685 P 0682 2 DNM = 'SYSS$SYSTEM:.DAT',
686 P 0683 2 ORG = IDX,
687 P 0684 2 RFM = VAR,
688 P 0685 2 MRS = KGB$K_MAINT_RECORD,
689 P 0686 2 BKS = 2048,
690 P 0687 2 XAB = KEY0,
691 P 0688 2 FOP = (CBT, DFW),

```

```

692 P 0689 2 FAC = (GET, PUT, DEL, UPD),
693 P 0690 2 SHR = (GET, PUT, DEL, UPD),
694 0691 2 );
695 0692 2 FAB[FAB$V_LNM_MODE] = PSL$C_EXEC;
696 0693 2
697 P 0694 2 $XABKEY_INIT (
698 P 0695 2 XAB = KEY0,
699 P 0696 2 KREF = 0,
700 P 0697 2 KNM = UPLIT BYTE ('IDENTIFIER '),
701 P 0698 2 POS = $BYTEOFFSET (KGB$L_IDENTIFIER),
702 P 0699 2 SIZ = 4,
703 P 0700 2 DTP = BN4,
704 P 0701 2 FLG = DUP,
705 P 0702 2 NXT = KEY1
706 0703 2 );
707 0704 2
708 P 0705 2 $XABKEY_INIT (
709 P 0706 2 XAB = KEY1,
710 P 0707 2 KREF = 1,
711 P 0708 2 KNM = UPLIT BYTE ('HOLDER '),
712 P 0709 2 POS = $BYTEOFFSET (KGB$Q HOLDER),
713 P 0710 2 SIZ = 8,
714 P 0711 2 DTP = STG,
715 P 0712 2 FLG = (DUP, NUL, CHG),
716 P 0713 2 NUL = 0,
717 P 0714 2 NXT = KEY2
718 0715 2 );
719 0716 2
720 P 0717 2 $XABKEY_INIT (
721 P 0718 2 XAB = KEY2,
722 P 0719 2 KREF = 2,
723 P 0720 2 KNM = UPLIT BYTE ('NAME '),
724 P 0721 2 POS = $BYTEOFFSET (KGB$T_NAME),
725 P 0722 2 SIZ = KGB$S_NAME,
726 P 0723 2 DTP = STG,
727 P 0724 2 FLG = (NUL, CHG),
728 P 0725 2 NUL = 0,
729 P 0726 2 NXT = PROTECT
730 0727 2 );
731 0728 2
732 P 0729 2 $XABPRO_INIT (
733 P 0730 2 XAB = PROTECT,
734 P 0731 2 PRO = (RWED, RWED, R, R),
735 P 0732 2 UIC = (1,4)
736 0733 2 );
737 0734 2
738 0735 2 IF .CTL$GL_IMGHDRBF EQLU 0
739 0736 2 THEN
740 0737 2 BEGIN
741 0738 2 CLOSE = 1;
742 0739 2 FAB[FAB$V_PPF] = 1;
743 0740 2 END
744 0741 2 ELSE
745 0742 2 CLOSE = 0;
746 0743 2 STATUS = $CREATE (FAB = FAB);
747 0744 2 IF NOT .STATUS THEN RETURN .STATUS;
748 0745 2
```

```
0746 2 RDB_OPEN:
0747   BEGIN
0748   CTL$GL_RDIPTR[RDISL_IFI_WRITE] = .FAB[FAB$W_IFI];
0749
0750   ! Now set up and connect a RAB, and write the maintenance record.
0751   !
0752
0753   $RAB_INIT (RAB = RAB,
0754             FAB = FAB,
0755             RAC = KEY,
0756             RBF = MAINT_RECORD,
0757             RSZ = KGB$K_MAINT_RECORD
0758             );
0759
0760   STATUS = $CONNECT (RAB = RAB);
0761   IF NOT .STATUS THEN LEAVE RDB_OPEN;
0762   VECTOR [CTL$GL_RDIPTR[RDISL_ISI_VEC], 0] = .RAB[RAB$W_ISI];
0763
0764   CH$FILL (0, KGB$K_MAINT_RECORD, MAINT_RECORD);
0765   CH$MOVE (KGB$S_NAME, UPLIT BYTE ('$MAINTENANCE_RECORD'),
0766           MAINT_RECORD[KGB$T_NAME]);
0767   IF .LOC_SYSID NEQU 0
0768   THEN
0769     CH$MOVE (KGB$S_SYS_ID, .LOC_SYSID, MAINT_RECORD[KGB$Q_SYS_ID])
0770   ELSE
0771     $GETTIM (TIMADR = MAINT_RECORD[KGB$Q_SYS_ID]);
0772   MAINT_RECORD[KGB$W_LEVEL] = KGB$K_LEVEL1;
0773   MAINT_RECORD[KGB$L_NEXT_ID] = UIC$K_FIRST_ID;
0774
0775   STATUS = $PUT (RAB = RAB);
0776   IF NOT .STATUS THEN LEAVE RDB_OPEN;
0777
0778   ! Create records for the environmental rights
0779   !
0780
0781   RAB[RAB$W_RSZ] = KGB$K_IDENT_RECORD;
0782
0783   MAINT_RECORD[KGB$L_IDENTIFIER] = KGB$K_BATCH_ID;
0784   CH$MOVE (KGB$S_NAME, UPLIT BYTE ('BATCH'),
0785           MAINT_RECORD[KGB$T_NAME]);
0786   STATUS = $PUT (RAB = RAB);
0787   IF NOT .STATUS THEN LEAVE RDB_OPEN;
0788
0789   MAINT_RECORD[KGB$L_IDENTIFIER] = KGB$K_DIALUP_ID;
0790   CH$MOVE (KGB$S_NAME, UPLIT BYTE ('DIALUP'),
0791           MAINT_RECORD[KGB$T_NAME]);
0792   STATUS = $PUT (RAB = RAB);
0793   IF NOT .STATUS THEN LEAVE RDB_OPEN;
0794
0795   MAINT_RECORD[KGB$L_IDENTIFIER] = KGB$K_INTERACTIVE_ID;
0796   CH$MOVE (KGB$S_NAME, UPLIT BYTE ('INTERACTIVE'),
0797           MAINT_RECORD[KGB$T_NAME]);
0798   STATUS = $PUT (RAB = RAB);
0799   IF NOT .STATUS THEN LEAVE RDB_OPEN;
0800
0801   MAINT_RECORD[KGB$L_IDENTIFIER] = KGB$K_LOCAL_ID;
0802   CH$MOVE (KGB$S_NAME, UPLIT BYTE ('LOCAL'),
```

```

806 0803 3      MAINT_RECORD[KGB$T_NAME]);
807 0804 3      STATUS = $PUT (RAB = RAB);
808 0805 3      IF NOT .STATUS THEN LEAVE RDB_OPEN;
809 0806 3
810 0807 3      MAINT_RECORD[KGB$L IDENTIFIER] = KGB$K NETWORK_ID;
811 0808 3      CH$MOVE (KGB$S_NAME, UPLIT BYTE ('NETWORK           '),
812 0809 3      MAINT_RECORD[KGB$T_NAME]);
813 0810 3      STATUS = $PUT (RAB = RAB);
814 0811 3      IF NOT .STATUS THEN LEAVE RDB_OPEN;
815 0812 3
816 0813 3      MAINT_RECORD[KGB$L IDENTIFIER] = KGB$K REMOTE_ID;
817 0814 3      CH$MOVE (KGB$S_NAME, UPLIT BYTE ('REMOTE           '),
818 0815 3      MAINT_RECORD[KGB$T_NAME]);
819 0816 3      STATUS = $PUT (RAB = RAB);
820 0817 3      IF NOT .STATUS THEN LEAVE RDB_OPEN;
821 0818 3
822 0819 3      STATUS = SSS_NORMAL;
823 0820 3      END;
824 0821 3
825 0822 2      IF .CLOSE THEN EXE$CLOSE_RDB();
826 0823 2      RETURN .STATUS;
827 0824 1      END;

```

! End of routine SYSS\$CREATE_RDB

														.PSECT		\$SPLITS, NOWRT, NOEXE, 2				
54	41	44	2E	3A	54	53	49	4C	53	54	48	47	49	52	00004	P.AAB:	.ASCII	\RIGHTSLIST\		
20	20	20	20	20	4D	45	54	53	59	53	24	53	59	53	0000E	P.AAC:	.ASCII	\SYSS\$SYSTEM:.DAT\		
54	41	44	2E	3A	54	53	49	4C	53	54	48	47	49	52	0001D	P.AAD:	.ASCII	\RIGHTSLIST\		
20	20	20	20	20	54	53	49	4C	53	54	48	47	49	52	00027	P.AAE:	.ASCII	\SYSS\$SYSTEM:.DAT\		
20	20	20	20	20	52	45	49	46	49	54	4E	45	44	49	00036	P.AAF:	.ASCII	\IDENTIFIER	\	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00045					
20	20	20	20	20	20	20	20	20	20	52	45	44	4C	4F	48	00056	P.AAG:	.ASCII	\HOLDER	\
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00065					
20	20	20	20	20	20	20	20	20	20	20	20	45	4D	41	4E	00076	P.AAH:	.ASCII	\NAME	\
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00085					
52	5F	45	43	4E	41	4E	45	54	4E	49	41	4D	24	24	00096	P.AAI:	.ASCII	\\$\$MAINTENANCE_RECORD	\	
20	20	20	20	20	20	20	20	20	20	44	52	4F	43	45	000A5					
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	000B4					
20	20	20	20	20	20	20	20	20	20	48	43	54	41	42	000B6	P.AAJ:	.ASCII	\BATCH	\	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	000C5					
20	20	20	20	20	20	20	20	20	20	50	55	4C	41	49	44	000D6	P.AAK:	.ASCII	\DIALUP	\
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	000E5					
20	20	20	20	20	45	56	49	54	43	41	52	45	54	4E	49	000F6	P.AAL:	.ASCII	\INTERACTIVE	\
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00105					
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00114					
20	20	20	20	20	20	20	20	20	20	4C	41	43	4F	4C	00116	P.AAM:	.ASCII	\LOCAL	\	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00125					
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00134					
20	20	20	20	20	20	20	20	48	52	4F	57	54	45	4E	00136	P.AAN:	.ASCII	\NETWORK	\	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	00145					

20	20	20	20	20	20	20	20	20	45	54	4F	4D	20	20	00154
20	20	20	20	20	20	20	20	20	20	20	20	20	45	52	00156
													20	20	00165
													20	20	00174

P.AAO: .ASCII \REMOTE

.EXTRN SYSS\$OPEN, SYSS\$CREATE
.EXTRN SYSS\$CONNECT, SYSS\$GETTIM

.PSECT \$CODES, NOWRT, 2

OFFC 00000

.ENTRY SYSS\$CREATE_RDB, Save R2,R3,R4,R5,R6,R7,R8,- ; 0576
R9,R10,R11

5B 0000' CF 9E 00002
 5A 00000000G 00 9E 00007
 5E FDEC CE 9E 0000E
 01 DD 00013

MOVAB P.AAB, R11
 MOVAB SYSS\$PUT, R10
 MOVAB -532(SP), SP
 PUSHL #1

0611

04 AE D4 00015
 58 04 AC D0 00018
 59 D4 0001C
 58 D5 0001E

CLRL ARGLIST+4
 MOVL SYSID, LOC_SYSID
 CLRL R9
 TSTL LOC_SYSID

0638
0639

68

08 00 OC 00024
 04 12 00028
 50 0C D0 0002A

BEQL 1\$
 INCL R9
 PROBER #0, #8, (LOC_SYSID)
 BNEQ 1\$

0641

0050 8F

00

6E 00 2C 0002E 1\$:
 CD 00035

MOVC5 #0, (SP), #0, #80, \$RMS_PTR

0650

FF70

CD 5003 8F B0 00038
 86 AD 0F02 8F B0 0003F
 8F AD 02 90 00045
 9C AD 6B 9E 00049
 A0 AD 0A AB 9E 0004D

MOVW #20483, \$RMS_PTR
 MOVW #3842, \$RMS_PTR+22
 MOVB #2, \$RMS_PTR+31
 MOVAB P.AAB, \$RMS_PTR+44
 MOVAB P.AAC, \$RMS_PTR+48

0652

00000000G

AD 0FOA 8F B0 00052
 AD FF70 CD 9F 00058
 00 01 FB 0005C
 56 50 D0 00063

MOVW #3850, \$RMS_PTR+52
 PUSHAB FAB
 CALLS #1, SYSS\$OPEN
 MOVL R0, STATUS

0653
0654

08 56 E9 00066
 50 00018282 8F D0 00069
 04 00070

BLBC STATUS, 2\$
 MOVL #98946, R0
 RET

0659

00000000G

9F D5 00071 2\$:
 44 12 00077
 51 38 D0 00079
 00000000G 9F 16 0007C

TSTL @#CTL\$GL_RDIPT
 5\$
 BNEQ #56, R1
 MOVL #EXESALOP1IMAG

0662

56 50 D0 00082
 06 56 E8 00085
 50 0124 8F 3C 00088
 04 0008D

MOVL R0, STATUS
 BLBS STATUS, 3\$
 MOVZWL #292, R0
 RET

0663

04

62 51 D0 0008E 3\$:
 AE 52 D0 00091
 00000000G 5E DD 00095

MOVL SIZE, (ADDRESS)
 MOVL ADDRESS, ARGLIST+4
 PUSHL SP

0664
0665
0666

00000000G

9F 02 FB 0009D
 56 50 D0 000A4
 03 56 E8 000A7
 0278 31 000AA

PUSHL #EXESSET_RDIPT
 CALLS #2, @#SYSS\$CMKRN
 MOVL R0, STATUS
 BLBS STATUS, 4\$

0667

50 00000000G 9F D0 000AD 4\$:

MOVL @#CTL\$GL_RDIPT, R0

0668

34	00	6E	00	2C	000B4	MOVCS	#0, (SP), #0, #52, 4(R0)	
			04	A0	000B9			
				07	11 000BB	BRB	6\$	0659
0050	8F	00	00000000G	9F	00 FB 000BD	CALLS	#0, @#EXE\$CLOSE RDB	0675
				6E	00 2C 000C4	MOVCS	#0, (SP), #0, #80, \$RMS_PTR	0691
					CD	000CB		
				FF70	CD	5003	MOVW	#20483, \$RMS_PTR
				FF74	CD	00200020	MOVL	#2097184, \$RMS_PTR+4
				86	AD	0F0F	MOVW	#3855, \$RMS_PTR+22
				8D	AD		MOVW	#32, \$RMS_PTR+29
				8F	AD		MOVW	#2, \$RMS_PTR+31
				94	AD	00FB	MOVAB	KEY0, \$RMS_PTR+36
				9C	AD	19	MOVAB	P.AAD, \$RMS_PTR+44
				A0	AD	23	MOVAB	P.AAE, \$RMS_PTR+48
				A4	AD	00400FOA	MOVL	#4198154, \$RMS_PTR+52
					AE		CLRB	\$RMS_PTR+62
BA	AD	02		00	01	FO 00107	INSV	#1, #0, #2, FAB+74
004C	8F	00		6E	00	2C 0010D	MOVCS	#0, (SP), #0, #76, \$RMS_PTR
					CE	00114		
				00FB	CE	4C15	MOVW	#19477, \$RMS_PTR
				00FC	CE	00AC	MOVAB	KEY1, \$RMS_PTR+4
				010A	CE	0401	MOVW	#1025, \$RMS_PTR+18
				FF0E	CD		MOVW	#4, \$RMS_PTR+46
004C	8F	00		FF18	CD	32	MOVAB	P.AAF, \$RMS_PTR+56
					6E		MOVCS	#0, (SP), #0, #76, \$RMS_PTR
					CE	0013E		
				00AC	CE	4C15	MOVW	#19477, \$RMS_PTR
				00B0	CE	60	MOVAB	KEY2, \$RMS_PTR+4
				00BE	CE		MOVW	#7, \$RMS_PTR+18
				00C3	CE		MOVW	#1, \$RMS_PTR+23
				00CA	CE		MOVW	#8, \$RMS_PTR+30
				00DA	CE		MOVW	#8, \$RMS_PTR+46
004C	8F	00		00E4	CE	52	MOVAB	P.AAG, \$RMS_PTR+56
					6E		MOVCS	#0, (SP), #0, #76, \$RMS_PTR
					AE	0016F		
				60	AE	4C15	MOVW	#19477, \$RMS_PTR
				64	AE	08	MOVAB	PROTECT, \$RMS_PTR+4
				72	AE		MOVW	#6, \$RMS_PTR+18
				77	AE		MOVW	#2, \$RMS_PTR+23
				7E	AE		MOVW	#16, \$RMS_PTR+30
				008E	CE		MOVW	#32, \$RMS_PTR+46
0058	8F	00		0098	CE	72	MOVAB	P.AAH, \$RMS_PTR+56
					6E		MOVCS	#0, (SP), #0, #88, \$RMS_PTR
					AE	0019A		
				08	AE	5813	MOVW	#22547, \$RMS_PTR
				10	AE	EE00	MOVW	#-4608, \$RMS_PTR+8
				14	AE	00010004	MOVL	#65540, \$RMS_PTR+12
					AE	00000000G	TSTL	@#CTL\$GL_IMGDRBF
					57		BNEQ	7\$
				FF76	CD		MOVW	#1, CLOSE
							BISB2	#4, FAB+6
							BRB	8\$
							CLRB	CLOSE
							PUSHAB	FAB
				00000000G	00	01 FB 001C8	CALLS	#1, SYSSCREATE
					56	50 D0 001CF	MOVL	R0, STATUS
					03	56 E8 001D2	BLBS	STATUS, 9\$

0683
0703

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0044	8F	00	08	50	00000000G	014D	31	0010D5	BRW	16\$			
				AO	FF72	9F	DO	0010D8	MOVL	@#CTLSGL_RDIPT, R0		0748	
				6E		CD	3C	0010DF	MOVZWL	FAB+2, 8(R0)			
					FF2C	00	2C	001E5	MOVCS	#0, (\$P), #0, #68, \$RMS_PTR		0758	
					FF2C	CD		001EC					
					4401	8F	BO	001EF	MOVW	#17409, \$RMS_PTR			
					FF4A	01	90	001F6	MOVVB	#1, \$RMS_PTR+30			
					FF4E	8F	9B	001FB	MOVZBW	#64, \$RMS_PTR+34			
					FF54	AD	9E	00201	MOVAB	MAINT_RECORD, \$RMS_PTR+40			
					FF68	CD	9E	00207	MOVAB	FAB, \$RMS_PTR+60			
					FF2C	CD	9F	0020E	PUSHAB	RAB		0760	
					00000000G	00	01	FB	CALLS	#1, SYSSCONNECT			
						56	50	DO	MOVL	R0, STATUS			
						6A	56	E9	BLBC	STATUS, 12\$		0761	
						50	9F	DO	MOVL	@#CTLSGL_RDIPT, R0		0762	
0040	8F	00	0C	AO	FF2E	CD	3C	00220	MOVZWL	RAB+2, 12(R0)			
				6E		00	2C	0022C	MOVCS	#0, (\$P), #0, #64, MAINT_RECORD		0764	
					C0	AD		00233					
						20	28	00235	MOVCS	#32, P.AAI, MAINT_RECORD+16		0766	
						07	59	E9	BLBC	R9, 10\$		0767	
						F4	08	28	MOVCS	#8, (LOC_SYSID), MAINT_RECORD+52		0769	
							0A	11	BRB	11\$			
							9F	00246	PUSHAB	MAINT_RECORD+52		0771	
					00000000G	00	01	FB	CALLS	#1, SYSSGETTIM			
						FO	8F	BO	MOVW	#257, MAINT_RECORD+48		0772	
						FC	8F	DO	MOVL	#-2147418112, MAINT_RECORD+60		0773	
							CD	9F	PUSHAB	RAB		0775	
							01	FB	CALLS	#1, SYSSPUT			
							50	DO	MOVL	R0, STATUS			
							56	E9	BLBC	STATUS, 13\$		0776	
							30	BO	MOVW	#48, RAB+34		0781	
							8F	DO	MOVL	#-2147483647, MAINT_RECORD		0783	
							20	28	MOVCS	#32, P.AAJ, MAINT_RECORD+16		0785	
							CD	9F	PUSHAB	RAB		0786	
							01	FB	CALLS	#1, SYSSPUT			
							50	DO	MOVL	R0, STATUS			
							56	E9	BLBC	STATUS, 14\$		0787	
							8F	DO	MOVL	#-2147483646, MAINT_RECORD		0789	
							20	28	MOVCS	#32, P.AAK, MAINT_RECORD+16		0791	
							CD	9F	PUSHAB	RAB		0792	
							01	FB	CALLS	#1, SYSSPUT			
							50	DO	MOVL	R0, STATUS			
							56	E9	BLBC	STATUS, 15\$		0793	
							8F	DO	MOVL	#-2147483645, MAINT_RECORD		0795	
							20	28	MOVCS	#32, P.AAL, MAINT_RECORD+16		0797	
							CD	9F	PUSHAB	RAB		0798	
							01	FB	CALLS	#1, SYSSPUT			
							50	DO	MOVL	R0, STATUS			
							56	E9	BLBC	STATUS, 15\$		0799	
							8F	DO	MOVL	#-2147483644, MAINT_RECORD		0801	
							20	28	MOVCS	#32, P.AAM, MAINT_RECORD+16		0803	
							CD	9F	PUSHAB	RAB		0804	
							01	FB	CALLS	#1, SYSSPUT			
							50	DO	MOVL	R0, STATUS			
							56	E9	BLBC	STATUS, 15\$		0805	
							8F	DO	MOVL	#-2147483643, MAINT_RECORD		0807	
							20	28	MOVCS	#32, P.AAN, MAINT_RECORD+16		0809	

RDBSHR
V04-000

RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50
SYSS\$CREATE_RDB - create rights data base 14-Sep-1984 12:40:52

H 9

VAX-11 Bliss-32 V4.0-742
[LOADSS.SRC]RDBSHR.B32;1

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RDE
V04

				FF2C	CD	9F	002EF		PUSHAB	RAB		0810
			6A		01	FB	002F3		CALLS	#1, SYSS\$PUT		
			56		50	D0	002F6		MOVL	R0, STATUS		
			1F		56	E9	002F9	14\$:	BLBC	STATUS, 15\$		0811
			AD	80000006	8F	D0	002FC		MOVL	#-2147483642, MAINT_RECORD		0813
DO	AD	CO	CB		20	28	00304		MOVCS	#32, P.AAO, MAINT_RECORD+16		0815
		0152			CD	9F	0030B		PUSHAB	RAB		0816
				FF2C	01	FB	0030F		CALLS	#1, SYSS\$PUT		
			6A		50	D0	00312		MOVL	R0, STATUS		
			56		56	E9	00315		BLBC	STATUS, 15\$		0817
			03		01	D0	00318		MOVL	#1, STATUS		0819
			56		57	E9	0031B	15\$:	BLBC	CLOSE, 16\$		0822
			07		00	FB	0031E		CALLS	#0, @#EXE\$CLOSE_RDB		
		00000000G	9F		56	D0	00325	16\$:	MOVL	STATUS, R0		0823
			50		04	00328			RET			0824

; Routine Size: 809 bytes. Routine Base: \$CODE\$ + 0380

```

: 829 0825 1 %SBTTL ' SYSS$FIND_HOLDER - search RDB for ident holders'
: 830 0826 1 GLOBAL ROUTINE SYSS$FIND_HOLDER (ID, HOLDER, ATTRIB, CONTXT) =
: 831 0827 1
: 832 0828 1 !++
: 833 0829 1
: 834 0830 1 FUNCTIONAL DESCRIPTION:
: 835 0831 1
: 836 0832 1 This routine searches the rights database for all holders
: 837 0833 1 of the specified identifier, and returns their identifier and
: 838 0834 1 attributes.
: 839 0835 1
: 840 0836 1 CALLING SEQUENCE:
: 841 0837 1 SYSS$FIND_HOLDER (ID, HOLDER, ATTRIB, CONTXT)
: 842 0838 1
: 843 0839 1 INPUT PARAMETERS:
: 844 0840 1 ID: identifier longword whose holder records
: 845 0841 1 are to be found
: 846 0842 1 CONTXT: (optional) address of a longword containing the
: 847 0843 1 record stream context. initially should be zero,
: 848 0844 1 value output on first call, value input on
: 849 0845 1 subsequent calls.
: 850 0846 1
: 851 0847 1 IMPLICIT INPUTS:
: 852 0848 1 NONE
: 853 0849 1
: 854 0850 1 OUTPUT PARAMETERS:
: 855 0851 1 HOLDER: (optional) address to return the holder id quadword
: 856 0852 1 ATTRIB: (optional) address to return the attributes longword
: 857 0853 1
: 858 0854 1 IMPLICIT OUTPUTS:
: 859 0855 1 NONE
: 860 0856 1
: 861 0857 1 ROUTINE VALUE:
: 862 0858 1 Status of operation
: 863 0859 1
: 864 0860 1 SIDE EFFECTS:
: 865 0861 1 NONE
: 866 0862 1
: 867 0863 1 --
: 868 0864 1
: 869 0865 2 BEGIN
: 870 0866 2
: 871 0867 2 LOCAL
: 872 0868 2 LOC_ID : LONG, ! local copy of ID
: 873 0869 2 LOC_HOLDER : LONG, ! local copy of HOLDER
: 874 0870 2 LOC_ATTRIB : LONG, ! local copy of ATTRIB
: 875 0871 2 LOC_CONTXT : LONG, ! local copy of CONTXT
: 876 0872 2 STATUS : LONG, ! general status value
: 877 0873 2 CONTINUE : LONG, ! flag indicating continuation
: 878 0874 2 CLOSE : LONG, ! call to EXE$CLOSE_RDB required flag
: 879 0875 2 RAB : $RAB DECL, ! RAB for file I/O
: 880 0876 2 REC_BUFFER : $BBLOCK [KGB$K_IDENT_RECORD];
: 881 0877 2 ! record buffer to read records
: 882 0878 2
: 883 0879 2
: 884 0880 2 LABEL
: 885 0881 2 RDB_OPEN; ! rights database is open in this block

```

```

: 886 0882 2
: 887 0883 2 ! Validate parameters
: 888 0884 2 !
: 889 0885 2 !
: 890 0886 2 LOC_ID = .ID;
: 891 0887 2 IF (.LOC_ID AND UIC$M_ID_FORM_FLAG) NEQU 0
: 892 0888 2 THEN
: 893 0889 2 (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SSS_IVIDENT)
: 894 0890 2 ELSE
: 895 0891 2 (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN SSS_IVIDENT);
: 896 0892 2
: 897 0893 2 LOC_HOLDER = .HOLDER;
: 898 0894 2 IF .LOC_HOLDER NEQU 0 AND NOT PROBEW (%REF(0), %REF(8), .LOC_HOLDER)
: 899 0895 2 THEN
: 900 0896 2 RETURN SSS_ACCVIO;
: 901 0897 2
: 902 0898 2 LOC_ATTRIB = .ATTRIB;
: 903 0899 2 IF .LOC_ATTRIB NEQU 0 AND NOT PROBEW (%REF(0), %REF(4), .LOC_ATTRIB)
: 904 0900 2 THEN
: 905 0901 2 RETURN SSS_ACCVIO;
: 906 0902 2
: 907 0903 2 LOC_CONTXT = .CONTXT;
: 908 0904 2 IF .LOC_CONTXT NEQU 0 AND NOT PROBEW (%REF(0), %REF(4), .LOC_CONTXT)
: 909 0905 2 THEN
: 910 0906 2 RETURN SSS_ACCVIO;
: 911 0907 2
: 912 0908 2 ! Open the rights database for reading. Record whether this is an initial
: 913 0909 2 ! call or a continuation by checking if the context is zero or not.
: 914 0910 2 !
: 915 0911 2
: 916 0912 2 CONTINUE = (IF .LOC_CONTXT NEQU 0 THEN ..LOC_CONTXT NEQU 0 ELSE 0);
: 917 0913 2
: 918 P 0914 2 $RAB_INIT (RAB = RAB,
: 919 PP 0915 2 RAC = KEY,
: 920 PP 0916 2 KRF = 0,
: 921 PP 0917 2 KSZ = 4,
: 922 PP 0918 2 KBF = LOC_ID,
: 923 PP 0919 2 ROP = (WAT, NLK, LIM),
: 924 PP 0920 2 USZ = KGB$K_IDENT_RECORD,
: 925 P 0921 2 UBF = REC_BUFFER
: 926 0922 2 );
: 927 0923 2 STATUS = EXE$OPEN RDB (.LOC_CONTXT, 0, RAB[RAB$W_ISI], CLOSE);
: 928 0924 2 IF NOT .STATUS THEN RETURN .STATUS;
: 929 0925 2
: 930 0926 2 RDB_OPEN:
: 931 0927 2 BEGIN
: 932 0928 2
: 933 0929 2 ! On an initial call, do an indexed $GET to position to the identifier
: 934 0930 2 ! record.
: 935 0931 2 !
: 936 0932 2
: 937 0933 2 IF NOT .CONTINUE
: 938 0934 2 THEN
: 939 0935 2 4 BEGIN
: 940 0936 2 4 STATUS = $GET (RAB = RAB);
: 941 0937 2 4 IF .STATUS EQLU RMS$_RNF THEN STATUS = SSS_NOSUCHID;
: 942 0938 2 4 IF NOT .STATUS

```

: R

: 1

```

: 943 0939 4 THEN
: 944 0940 5 BEGIN
: 945 0941 5 EXE$$FINISH_RDB (.LOC_CONXT);
: 946 0942 5 LEAVE RDB_OPEN;
: 947 0943 5 END;
: 948 0944 5 END;
: 949 0945 5
: 950 0946 5 ! Switch to sequential mode and read the next holder record, and
: 951 0947 5 ! return the data items.
: 952 0948 5
: 953 0949 5
: 954 0950 5 RAB[RAB$B RAC] = RAB$C_SEQ;
: 955 0951 5 STATUS = $GET (RAB = RAB);
: 956 0952 5 IF .STATUS EQLU RMSS_ECF OR .STATUS EQLU RMSS_OK_LIM
: 957 0953 5 THEN
: 958 0954 5 STATUS = SSS_NOSUCHID;
: 959 0955 5 IF NOT .STATUS
: 960 0956 5 THEN
: 961 0957 5 BEGIN
: 962 0958 5 EXE$$FINISH_RDB (.LOC_CONXT);
: 963 0959 5 LEAVE RDB_OPEN;
: 964 0960 5 END;
: 965 0961 5
: 966 0962 5 IF .LOC_HOLDER NEQU 0
: 967 0963 5 THEN
: 968 0964 5 CH$MOVE (KGB$$ HOLDER, REC_BUFFER[KGB$$Q HOLDER], .LOC_HOLDER);
: 969 0965 5 IF .LOC_ATTRIB NEQU 0
: 970 0966 5 THEN
: 971 0967 5 .LOC_ATTRIB = .REC_BUFFER[KGB$$L_ATTRIBUTES];
: 972 0968 5
: 973 0969 5 STATUS = SSS_NORMAL;
: 974 0970 5 END;
: 975 0971 5
: 976 0972 5 ! Close the rights database if there is no image
: 977 0973 5 !
: 978 0974 5
: 979 0975 5 IF .CLOSE THEN EXE$CLOSE_RDB();
: 980 0976 5 RETURN .STATUS
: 981 0977 5 END;
! End of routine SYSS$FIND_HOLDER

```

			OFFC 0000		.ENTRY	SYSS\$FIND_HOLDER, Save R2,R3,R4,R5,R6,R7,R8,-;	0826
						R9,R10,RT1	
	04	5E	80	AE	9E	00002	
		AE	04	AC	D0	00006	
				OC	18	0000B	
	8FFFFFFF	8F	04	AE	D1	0000D	
				17	1B	00015	
				0F	11	00017	
	3FFFFFFF	8F	04	AE	D1	00019 1\$:	
				05	1A	00021	
			04	AE	D5	00023	
				06	12	00026	
		50	2224	8F	3C	00028 2\$:	
						MOVAB	
						MOVL	
						BGEQ	0886
						1\$	0887
						CML	0889
						LOC_ID, #-1879048193	
						BLEQU	
						3\$	
						BRB	
						2\$	
						CML	0891
						LOC_ID, #1073741823	
						BGTRU	
						2\$	
						TSTL	
						LOC_ID	
						3\$	
						BNEQ	
						3\$	
						MOVZWL	
						#8740, R0	


```

: 983 0978 1 %SBTTL ' SYSSMOD_HOLDER - modify holder record'
: 984 0979 1 GLOBAL ROUTINE SYSSMOD_HOLDER (ID, HOLDER, SET_ATTRIB, CLR_ATTRIB) =
: 985 0980 1
: 986 0981 1 :++
: 987 0982 1
: 988 0983 1 : FUNCTIONAL DESCRIPTION:
: 989 0984 1
: 990 0985 1 : This routine modifies the specified holder record.
: 991 0986 1
: 992 0987 1 : CALLING SEQUENCE:
: 993 0988 1 : SYSSMOD_HOLDER (ID, HOLDER, SET_ATTRIB, CLR_ATTRIB)
: 994 0989 1
: 995 0990 1 : INPUT PARAMETERS:
: 996 0991 1 : ID: identifier longword
: 997 0992 1 : HOLDER: address of the holder identifier quadword
: 998 0993 1 : SET_ATTRIB: (optional) longword containing the attributes to set
: 999 0994 1 : into the holder record
1000 0995 1 : CLR_ATTRIB: (optional) longword containing the attributes to clear
1001 0996 1 : in the holder record
1002 0997 1
1003 0998 1 : IMPLICIT INPUTS:
1004 0999 1 : NONE
1005 1000 1
1006 1001 1 : OUTPUT PARAMETERS:
1007 1002 1 : NONE
1008 1003 1
1009 1004 1 : IMPLICIT OUTPUTS:
1010 1005 1 : NONE
1011 1006 1
1012 1007 1 : ROUTINE VALUE:
1013 1008 1 : Status of operation
1014 1009 1
1015 1010 1 : SIDE EFFECTS:
1016 1011 1 : Holder record modified
1017 1012 1
1018 1013 1 :--
1019 1014 1
1020 1015 2 BEGIN
1021 1016 2
1022 1017 2 LOCAL
1023 1018 2 : LOC_ID : LONG, : local copy of ID
1024 1019 2 : LOC_HOLDER : REF VECTOR, : local copy of HOLDER
1025 1020 2 : HOLDER_ID : VECTOR [2], : local copy of holder id quadword
1026 1021 2 : LOC_SET_ATTRIB : LONG, : local copy of SET_ATTRIB
1027 1022 2 : LOC_CLR_ATTRIB : LONG, : local copy of CLR_ATTRIB
1028 1023 2 : ID_ATTRIB : LONG, : attributes of identifier
1029 1024 2 : STATUS : LONG, : general status value
1030 1025 2 : CLOSE : LONG, : call to EXECLOSE_RDB required flag
1031 1026 2 : RAB : $RAB DECL, : RAB for file operations
1032 1027 2 : REC_BUFFER : $BLOCK [KGB$K_IDENT_RECORD];
1033 1028 2 : general purpose record buffer
1034 1029 2
1035 1030 2
1036 1031 2 LABEL
1037 1032 2 : RDB_OPEN; : rights database is open in this block
1038 1033 2
1039 1034 2 : Validate parameters

```

```
1040 1035 2 !
1041 1036 2
1042 1037 2 LOC_ID = .ID;
1043 1038 2 IF (.LOC_ID AND UIC$M_ID_FORM_FLAG) NEQU 0
1044 1039 2 THEN
1045 1040 2 (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN S$$_IVIDENT)
1046 1041 2 ELSE
1047 1042 2 (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN S$$_IVIDENT);
1048 1043 2
1049 1044 2 LOC HOLDER = .HOLDER;
1050 1045 2 IF NOT PROBER (%REF(0), %REF(8), .LOC_HOLDER) THEN RETURN S$$_ACCVIO;
1051 1046 2 HOLDER_ID[0] = .LOC_HOLDER[0];
1052 1047 2 HOLDER_ID[1] = .LOC_HOLDER[1];
1053 1048 2 IF .HOLDER_ID[0] GTRU UIC$K_MAX_UIC OR .HOLDER_ID[1] NEQU 0
1054 1049 2 THEN
1055 1050 2 RETURN S$$_IVIDENT;
1056 1051 2
1057 1052 2 LOC SET ATTRIB = .SET ATTRIB;
1058 1053 2 IF (.LOC_SET_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU 0 THEN RETURN S$$_BADPARAM;
1059 1054 2
1060 1055 2 LOC CLR ATTRIB = .CLR ATTRIB;
1061 1056 2 IF (.LOC_CLR_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU 0 THEN RETURN S$$_BADPARAM;
1062 1057 2
1063 1058 2 ! Get the rights database open for write.
1064 1059 2 !
1065 1060 2
1066 1061 2 P $RAB_INIT (RAB = RAB,
1067 1062 2 P RAC = KEY,
1068 1063 2 P KRF = 0,
1069 1064 2 P KBF = LOC_ID,
1070 1065 2 P KSZ = 4,
1071 1066 2 P ROP = (LIM, WAT, RLK, ULK),
1072 1067 2 P UBF = REC_BUFFER,
1073 1068 2 P USZ = KGB$K_IDENT_RECORD
1074 1069 2 );
1075 1070 2 STATUS = EXE$OPEN_RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
1076 1071 2 IF NOT .STATUS THEN RETURN .STATUS;
1077 1072 2
1078 1073 2 RDB_OPEN:
1079 1074 2 BEGIN
1080 1075 2
1081 1076 2 ! Read and lock the ident record and save away its attributes.
1082 1077 2 !
1083 1078 2
1084 1079 2 STATUS = $GET (RAB = RAB);
1085 1080 2 IF .STATUS EQLU RMSS_P THEN STATUS = S$$_NOSUCHID;
1086 1081 2 IF NOT .STATUS
1087 1082 2 THEN
1088 1083 2 4 BEGIN
1089 1084 2 4 $FREE (RAB = RAB);
1090 1085 2 4 LEAVE RDB_OPEN;
1091 1086 2 3 END;
1092 1087 2 ID_ATTRIB = .REC_BUFFER[KGB$L_ATTRIBUTES];
1093 1088 2
1094 1089 2 ! Read the holder records looking for the specified one.
1095 1090 2 !
1096 1091 2
```

```

1097 1092 3 RAB[RABSV_ULK] = 0;
1098 1093 3 RAB[RABSB_RAC] = RAB$C_SEQ;
1099 1094 3 WHILE 1 DO
1100 1095 4 BEGIN
1101 1096 4 STATUS = $GET (RAB = RAB);
1102 1097 4 IF .STATUS EQLU RMSS_EOF OR .STATUS EQLU RMSS_OK_LIM
1103 1098 4 THEN
1104 1099 5 BEGIN
1105 1100 5 $FREE (RAB = RAB);
1106 1101 5 STATUS = SS$ NOSUCHID;
1107 1102 5 LEAVE RDB_OPEN;
1108 1103 4 END;
1109 1104 4
1110 1105 4 IF CH$EQL (KGB$$_HOLDER, HOLDER_ID[0], KGB$$_HOLDER, REC_BUFFER[KGB$$Q_HOLDER])
1111 1106 4 THEN
1112 1107 4 EXITLOOP;
1113 1108 4 END;
1114 1109 4
1115 1110 4 ! Now set and clear attributes as specified, but limited by the ident
1116 1111 4 ! record attributes.
1117 1112 4 !
1118 1113 4
1119 1114 4 IF .LOC_CLR_ATTRIB NEQU 0
1120 1115 4 THEN
1121 1116 4 REC_BUFFER[KGB$$L_ATTRIBUTES] =
1122 1117 4 .REC_BUFFER[KGB$$C_ATTRIBUTES] AND NOT .LOC_CLR_ATTRIB;
1123 1118 4 IF .LOC_SET_ATTRIB NEQU 0
1124 1119 4 THEN
1125 1120 4 REC_BUFFER[KGB$$L_ATTRIBUTES] =
1126 1121 4 (.REC_BUFFER[KGB$$L_ATTRIBUTES] OR .LOC_SET_ATTRIB) AND .ID_ATTRIB;
1127 1122 4
1128 1123 4 STATUS = $UPDATE (RAB = RAB);
1129 1124 4 $FREE (RAB = RAB);
1130 1125 4 END;
1131 1126 4
1132 1127 4 ! Close the rights database if there is no image
1133 1128 4 !
1134 1129 4
1135 1130 2 IF .CLOSE THEN EXE$CLOSE_RDB();
1136 1131 2 IF .STATUS
1137 1132 2 THEN
1138 1133 2 RETURN SS$_NORMAL
1139 1134 2 ELSE
1140 1135 2 RETURN .STATUS;
1141 1136 2
1142 1137 1 END;

```

! End of routine SYSSMOD_HOLDER

	03FC 0000	.ENTRY	SYSSMOD_HOLDER, Save R2,R3,R4,R5,R6,R7,R8,- ; 0979
			R9
59	00000000G 00 9E 00002	MOVAB	SYSSFREE, R9
58	00000000G 00 9E 00009	MOVAB	SYSSGET, R8
5E	80 AE 9E 00010	MOVAB	-128(SP), SP
	04 AC DD 00014	PUSHL	ID
			: 1037

				0B 18 00017	BGEQ	1\$		1038
	8FFFFFFF	8F		6E D1 00019	CMPL	LOC_ID, #-1879048193		1040
				0F 1B 00020	BLEQU	2\$		
				33 11 00022	BRB	4\$		
	3FFFFFFF	8F		6E D1 00024 1\$:	CMPL	LOC_ID, #1073741823		1042
				2A 1A 0002B	BGTRU	4\$		
				6E D5 0002D	TSTL	LOC_ID		
				26 13 0002F	BEQL	4\$		
		50	08	AC D0 00031 2\$:	MOVL	HOLDER, LOC HOLDER		1044
60		08		00 0C 00035	PROBER	#0, #8, (LOC_HOLDER)		1045
				04 12 00039	BNEQ	3\$		
		50		0C D0 0003B	MOVL	#12, R0		
				04 0003E	RET			
	7C AE			60 D0 0003F 3\$:	MOVL	(LOC_HOLDER), HOLDER ID		1046
	FC AD	04		A0 D0 00043	MOVL	4(LOC_HOLDER), HOLDER ID+4		1047
	3FFFFFFF	8F	7C	AE D1 00048	CMPL	HOLDER_ID, #1073741823		1048
				05 1A 00050	BGTRU	4\$		
			FC	AD D5 00052	TSTL	HOLDER_ID+4		
				06 13 00055	BEQL	5\$		
		50	2224	8F 3C 00057 4\$:	MOVZWL	#8740, R0		1050
				04 0005C	RET			
		57	0C	AC D0 0005D 5\$:	MOVL	SET_ATTRIB, LOC_SET_ATTRIB		1052
	FFFFFFFE	8F		57 D3 00061	BITL	LOC_SET_ATTRIB, #-2		1053
				0D 12 00068	BNEQ	6\$		
		56	10	AC D0 0006A	MOVL	CLR_ATTRIB, LOC_CLR_ATTRIB		1055
	FFFFFFFE	8F		56 D3 0006E	BITL	LOC_CLR_ATTRIB, #-2		1056
				04 13 00075	BEQL	7\$		
		50		14 D0 00077 6\$:	MOVL	#20, R0		
				04 0007A	RET			
0044	8F	00		00 2C 0007B 7\$:	MOVCS	#0, (SP), #0, #68, \$RMS_PTR		1069
			38	AE 00082				
	38 AE	4401		8F B0 00084	MOVW	#17409, \$RMS_PTR		
	3C AE	000E4000		8F D0 0008A	MOVL	#933888, \$RMS_PTR+4		
	56 AE			01 90 00092	MOVW	#1, \$RMS_PTR+30		
	58 AE			30 B0 00096	MOVW	#48, \$RMS_PTR+32		
	5C AE	08		AE 9E 0009A	MOVAB	REC_BUFFER, \$RMS_PTR+36		
	68 AE			6E 9E 0009F	MOVAB	LOC_ID, \$RMS_PTR+48		
	6C AE			04 90 000A3	MOVW	#4, \$RMS_PTR+52		
			04	AE 9F 000A7	PUSHAB	CLOSE		1070
			3E	AE 9F 000AA	PUSHAB	RAB+2		
				01 DD 000AD	PUSHL	#1		
				7E D4 000AF	CLRL	-(SP)		
	00000000G	9F		04 FB 000B1	CALLS	#4, @#EXE\$OPEN_RDB		
		54		50 D0 000B8	MOVL	R0, STATUS		
		03		54 E8 000BB	BLBS	STATUS, 8\$		1071
			0093	31 000BE	BRW	18\$		
			38	AE 9F 000C1 8\$:	PUSHAB	RAB		1079
		68		01 FB 000C4	CALLS	#1, SYSSGET		
		54		50 D0 000C7	MOVL	R0, STATUS		
	000182B2	8F		54 D1 000CA	CMPL	STATUS, #98994		1080
				05 12 000D1	BNEQ	9\$		
		54	21EC	8F 3C 000D3 9\$:	MOVZWL	#8684, STATUS		1081
		61		54 E9 000D8	BLBC	STATUS, 15\$		1087
		55	0C	AE D0 000DB	MOVL	REC_BUFFER+4, ID_ATTRIB		1092
	3E	AE		04 8A 000DF	BICB2	#4, -RAB+6		1093
			56	AE 94 000E3	CLRB	RAB+30		1096
			38	AE 9F 000E6 10\$:	PUSHAB	RAB		

		68		01	FB	000E9		CALLS	#1, SYSSGET		
		54		50	D0	000EC		MOVL	R0, STATUS		
	0001827A	8F		54	D1	000EF		CMPL	STATUS, #98938	1097	
				09	13	000F6		BEQL	11\$		
	00018051	8F		54	D1	000F8		CMPL	STATUS, #98385		
				0D	12	000FF		BNEQ	12\$		
			38	AE	9F	00101	11\$:	PUSHAB	RAB	1100	
		69		01	FB	00104		CALLS	#1, SYSSFREE		
		54	21EC	8F	3C	00107		MOVZWL	#8684, STATUS	1101	
				34	11	0010C		BRB	16\$	1102	
10	AE	7C	AE	08	29	0010E	12\$:	CMPC3	#8, HOLDER_ID, REC_BUFFER+8	1105	
				D0	12	00114		BNEQ	10\$		
				56	D5	00116		TSTL	LOC_CLR_ATTRIB	1114	
				04	13	00118		BEQL	13\$		
		OC	AE	56	CA	0011A		BICL2	LOC_CLR_ATTRIB, REC_BUFFER+4	1117	
				57	D5	0011E	13\$:	TSTL	LOC_SET_ATTRIB	1118	
				0D	13	00120		BEQL	14\$		
	50	OC	AE	57	C9	00122		BISL3	LOC_SET_ATTRIB, REC_BUFFER+4, R0	1121	
				55	D2	00127		MCOML	ID_ATTRIB, R1		
OC	AE			51	CB	0012A		BICL3	R1, R0, REC_BUFFER+4		
				AE	9F	0012F	14\$:	PUSHAB	RAB	1123	
	00000000G	00		01	FB	00132		CALLS	#1, SYSSUPDATE		
		54		50	D0	00139		MOVL	R0, STATUS		
				AE	9F	0013C	15\$:	PUSHAB	RAB	1124	
		69		01	FB	0013F		CALLS	#1, SYSSFREE		
		07	04	AE	E9	00142	16\$:	BLBC	CLOSE, 17\$	1130	
	00000000G	9F		00	FB	00146		CALLS	#0, @#EXESCLOSE_RDB		
		04		54	E9	0014D	17\$:	BLBC	STATUS, 18\$	1131	
		50		01	D0	00150		MOVL	#1, R0	1135	
					04	00153		RET			
		50		54	D0	00154	18\$:	MOVL	STATUS, R0		
				04	00157			RET		1137	

; Routine Size: 344 bytes, Routine Base: \$CODE\$ + 07DE

; 1143 1138 1

```

: 1145      1139 1 %SBTTL ' SYSSMOD_IDENT - Modify identifier record'
: 1146      1140 1 GLOBAL ROUTINE SYSSMOD_IDENT (ID, SET_ATTRIB, CLR_ATTRIB, NEW_NAME, NEW_ID) =
: 1147      1141 1
: 1148      1142 1 |++
: 1149      1143 1
: 1150      1144 1 | FUNCTIONAL DESCRIPTION:
: 1151      1145 1 |
: 1152      1146 1 |     This routine modifies the attributes of the specified
: 1153      1147 1 |     identifier.
: 1154      1148 1 |
: 1155      1149 1 | CALLING SEQUENCE:
: 1156      1150 1 |     SYSSMOD_IDENT (ID, SET_ATTRIB, CLR_ATTRIB, NEW_NAME, NEW_ID )
: 1157      1151 1 |
: 1158      1152 1 | INPUT PARAMETERS:
: 1159      1153 1 |     ID:          identifier longword
: 1160      1154 1 |     SET_ATTRIB: (optional) longword containing the attributes
: 1161      1155 1 |                 to set into the identifier record
: 1162      1156 1 |     CLR_ATTRIB: (optional) longword containing the attributes
: 1163      1157 1 |                 to clear in the identifier record
: 1164      1158 1 |     NEW_NAME:   address of a character string descriptor for
: 1165      1159 1 |                 the new name
: 1166      1160 1 |     NEW_ID:    new identifier value
: 1167      1161 1 |
: 1168      1162 1 | IMPLICIT INPUTS:
: 1169      1163 1 |     NONE
: 1170      1164 1 |
: 1171      1165 1 | OUTPUT PARAMETERS:
: 1172      1166 1 |     NONE
: 1173      1167 1 |
: 1174      1168 1 | IMPLICIT OUTPUTS:
: 1175      1169 1 |     NONE
: 1176      1170 1 |
: 1177      1171 1 | ROUTINE VALUE:
: 1178      1172 1 |     Status of operation
: 1179      1173 1 |
: 1180      1174 1 | SIDE EFFECTS:
: 1181      1175 1 |     Identifier record modified
: 1182      1176 1 |
: 1183      1177 1 | --
: 1184      1178 1 |
: 1185      1179 2 BEGIN
: 1186      1180 2 LITERAL
: 1187      1181 2     BUFFER_LENGTH = MAX ( KGB$K_HOLD_RECORD,
: 1188      1182 2     KGB$K_IDENT_RECORD,
: 1189      1183 2     KGB$K_MAINT_RECORD ) ;
: 1190      1184 2
: 1191      1185 2 LOCAL
: 1192      1186 2     LOC_ID          : $BBLOCK[4],      | local copy of ID
: 1193      1187 2     LOC_SET_ATTRIB  : LONG,              | local copy of SET_ATTRIB
: 1194      1188 2     LOC_CLR_ATTRIB  : LONG,              | local copy of CLR_ATTRIB
: 1195      1189 2     LOC_NEW_NAME   : LONG,              | local copy of NEW_NAME
: 1196      1190 2     LOC_NEW_ID    : $BBLOCK[4],      | local copy of NEW_ID
: 1197      1191 2     NEW_NAMELEN   : LONG,              | Length of new name
: 1198      1192 2     NEW_NAMEADR  : LONG,              | address of new name
: 1199      1193 2     STATUS       : LONG,              | general status value
: 1200      1194 2     CLOSE        : LONG,              | call to EXEC$CLOSE_RDB required flag
: 1201      1195 2     RAB          : $RAB_DECL,      | RAB for file I/O

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```

: 1202      1196 2          REC_BUFFER      : $BBLOCK [BUFFER_LENGTH];
: 1203      1197 2          ! record buffer for records
: 1204      1198 2
: 1205      1199 2 LABEL
: 1206      1200 2          RDB_OPEN;          ! rights database is open in this block
: 1207      1201 2
: 1208      1202 2          ! Validate parameters
: 1209      1203 2          !
: 1210      1204 2
: 1211      1205 2          LOC_ID = .ID;
: 1212      1206 2          IF .LOC_ID[UICSV_FORMAT] EQL UICSK_ID_FORMAT
: 1213      1207 2          THEN
: 1214      1208 2          (IF (.LOC_ID GTRU UICSK_LAST_ID) THEN RETURN SSS_IVIDENT)
: 1215      1209 2          ELSE
: 1216      1210 2          (IF (.LOC_ID GTRU UICSK_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN SSS_IVIDENT);
: 1217      1211 2
: 1218      1212 2          LOC_SET_ATTRIB = .SET_ATTRIB;
: 1219      1213 2          IF T.LOC_SET_ATTRIB AND NOT KGBSM_VALID_ATTRIB) NEQU 0 THEN RETURN SSS_BADPARAM;
: 1220      1214 2
: 1221      1215 2          LOC_CLR_ATTRIB = .CLR_ATTRIB;
: 1222      1216 2          IF T.LOC_CLR_ATTRIB AND NOT KGBSM_VALID_ATTRIB) NEQU 0 THEN RETURN SSS_BADPARAM;
: 1223      1217 2
: 1224      1218 2          LOC_NEW_NAME = .NEW_NAME ;
: 1225      1219 2          IF .LOC_NEW_NAME NEQ 0
: 1226      1220 2          THEN
: 1227      1221 2          BEGIN
: 1228      1222 2          STATUS = EXESVAL IDNAME ( .LOC_NEW_NAME ; NEW_NAMLEN, NEW_NAMADR ) ;
: 1229      1223 2          IF NOT .STATUS THEN RETURN .STATUS ;
: 1230      1224 2          END ;
: 1231      1225 2
: 1232      1226 2          LOC_NEW_ID = .NEW_ID;
: 1233      1227 2          IF .LOC_NEW_ID NEQ 0
: 1234      1228 2          THEN
: 1235      1229 2          BEGIN
: 1236      1230 2          IF .LOC_NEW_ID[UICSV_FORMAT] EQL UICSK_ID_FORMAT
: 1237      1231 2          THEN
: 1238      1232 2          (IF (.LOC_NEW_ID GTRU UICSK_LAST_ID) THEN RETURN SSS_IVIDENT)
: 1239      1233 2          ELSE
: 1240      1234 2          (IF (.LOC_NEW_ID GTRU UICSK_MAX_UIC) THEN RETURN SSS_IVIDENT);
: 1241      1235 2
: 1242      1236 2          ! Do not allow a format switch
: 1243      1237 2          !
: 1244      1238 2          IF .LOC_ID[UICSV_FORMAT] NEQ .LOC_NEW_ID[UICSV_FORMAT]
: 1245      1239 2          THEN RETURN SSS_IVIDENT;
: 1246      1240 2          END ;
: 1247      1241 2
: 1248      1242 2          ! Open .he rights database for writing.
: 1249      1243 2          !
: 1250      1244 2          $RAB_INIT (RAB = RAB,
: 1251      1245 2          P RAC = KEY,
: 1252      1246 2          P KRF = 0,
: 1253      1247 2          P KSZ = 4,
: 1254      1248 2          P KBF = LOC_ID,
: 1255      1249 2          P ROP = (LIM, WAT, RLK, ULK),
: 1256      1250 2          P USZ = BUFFER_LENGTH,
: 1257      1251 2          P UBF = REC_BUFFER
: 1258      1252 2          );

```

```

1259 1253 2 STATUS = EXESOPEN_RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
1260 1254 2 IF NOT .STATUS THEN RETURN .STATUS;
1261 1255 2
1262 1256 2 RDB_OPEN:
1263 1257 2 _BEGIN
1264 1258 2
1265 1259 2 |
1266 1260 2 | Modify the identifier name
1267 1261 2 |
1268 1262 2 | IF .LOC_NEW_NAME NEQ 0
1269 1263 2 | THEN
1270 1264 2 | BEGIN
1271 1265 2 | STATUS = SYSSMOD_IDENT_NAME ( RAB, .LOC_ID, .NEW_NAMLEN, .NEW_NAMADR ) ;
1272 1266 2 | IF NOT .STATUS THEN LEAVE RDB_OPEN ;
1273 1267 2 | END ;
1274 1268 2 |
1275 1269 2 |
1276 1270 2 | Modify the identifier attributes
1277 1271 2 |
1278 1272 2 | IF ( .LOC_CLR_ATTRIB NEQ 0 ) OR
1279 1273 2 | ( .LOC_SET_ATTRIB NEQ 0 )
1280 1274 2 | THEN
1281 1275 2 | BEGIN
1282 1276 2 | STATUS = SYSSMOD_IDENT_ATTRIB ( RAB, .LOC_ID,
1283 1277 2 | .LOC_SET_ATTRIB, .LOC_CLR_ATTRIB ) ;
1284 1278 2 | IF NOT .STATUS THEN LEAVE RDB_OPEN ;
1285 1279 2 | END ;
1286 1280 2 |
1287 1281 2 |
1288 1282 2 |
1289 1283 2 | Modify the identifier value
1290 1284 2 |
1291 1285 2 | IF .LOC_NEW_ID NEQ 0
1292 1286 2 | THEN
1293 1287 2 | BEGIN
1294 1288 2 | STATUS = SYSSMOD_IDENT_ID ( RAB, .LOC_ID, .LOC_NEW_ID ) ;
1295 1289 2 | IF NOT .STATUS THEN LEAVE RDB_OPEN ;
1296 1290 2 | END ;
1297 1291 2 |
1298 1292 2 | END; | End of RDB_OPEN
1299 1293 2 |
1300 1294 2 | Close the rights database if there is no image
1301 1295 2 |
1302 1296 2 |
1303 1297 2 | IF .CLOSE THEN EXESCLOSE_RDB();
1304 1298 2 | IF .STATUS
1305 1299 2 | THEN
1306 1300 2 | RETURN SSS_NORMAL
1307 1301 2 | ELSE
1308 1302 2 | RETURN .STATUS;
1309 1303 2 |
1310 1304 1 | END; | End of routine SYSSMOD_IDENT

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		10	AE	9F	000D4	PUSHAB	CLOSE		
		5A	AE	9F	000D7	PUSHAB	RAB+2		1253
			01	DD	000DA	PUSHL	#1		
			7E	D4	000DC	CLRL	-(SP)		
00000000G	9F		04	FB	000DE	CALLS	#4, @#EXESOPEN_RDB		
	56		50	DD	000E5	MOVL	R0, STATUS		
	58		56	E9	000E8	BLBC	STATUS, 16\$		1254
	16		6E	E9	000EB	BLBC	(SP), 11\$		1262
		04	AE	DD	000EE	PUSHL	NEW_NAMADR		1265
		0C	AE	DD	000F1	PUSHL	NEW_NAMLEN		
			57	DD	000F4	PUSHL	R7		
		60	AE	9F	000F6	PUSHAB	RAB		
0000V	CF		04	FB	000F9	CALLS	#4, SYSSMOD_IDENT_NAME		
	56		50	DD	000FE	MOVL	R0, STATUS		
	2D		56	E9	00101	BLBC	STATUS, 14\$		1266
			59	D5	0C104	TSTL	LOC_CLR_ATTRIB		1272
			04	12	00106	BNEQ	12\$		
			5A	D5	00108	TSTL	LOC_SET_ATTRIB		1273
			14	13	0010A	BEQL	13\$		
			59	DD	0010C	PUSHL	LOC CLR ATTRIB		1277
		0480	8F	BB	0010E	PUSHR	#*MZR7,R10>		1276
		60	AE	9F	00112	PUSHAB	RAB		
0000V	CF		04	FB	00115	CALLS	#4, SYSSMOD_IDENT_ATTRIB		
	56		50	DD	0011A	MOVL	R0, STATUS		
	11		56	E9	0011D	BLBC	STATUS, 14\$		1278
	0E		5B	E9	00120	BLBC	R11, 14\$		1285
	7E		57	7D	00123	MOVQ	R7, -(SP)		1288
		5C	AE	9F	00126	PUSHAB	RAB		
0000V	CF		03	FB	00129	CALLS	#3, SYSSMOD_IDENT_ID		
	56		50	DD	0012E	MOVL	R0, STATUS		
	07		AE	E9	00131	BLBC	CLOSE, 15\$		1297
00000000G	9F	10	00	FB	00135	CALLS	#0, @#EXESCLOSE_RDB		
	04		56	E9	0013C	BLBC	STATUS, 16\$		1298
	50		01	DD	0013F	MOVL	#1, R0		1302
				04	00142	RET			
	50		56	DD	00143	MOVL	STATUS, R0		
			04	00146	RET				1304

: Routine Size: 327 bytes, Routine Base: \$CODE\$ + 0935

: 1311 1305 1

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1313 1306 1 %SBTTL ' SYS$MOD_IDENT_ATTRIB - Modify identifier attributes'
1314 1307 1 ROUTINE SYS$MOD_IDENT_ATTRIB ( RAB_PTR, ID, SET_ATTRIB, CLR_ATTRIB) =
1315 1308 1
1316 1309 1 ++
1317 1310 1
1318 1311 1 FUNCTIONAL DESCRIPTION:
1319 1312 1
1320 1313 1 This routine modifies the attributes of the specified
1321 1314 1 identifier.
1322 1315 1
1323 1316 1 CALLING SEQUENCE:
1324 1317 1 SYS$MOD_IDENT_ATTRIB ( RAB_PTR, ID, SET_ATTRIB, CLR_ATTRIB)
1325 1318 1
1326 1319 1 INPUT PARAMETERS:
1327 1320 1 RAB_PTR: address of RAB for open rights data base file
1328 1321 1 ID: identifier longword
1329 1322 1 SET_ATTRIB: (optional) longword containing the attributes
1330 1323 1 to set into the identifier record
1331 1324 1 CLR_ATTRIB: (optional) longword containing the attributes
1332 1325 1 to clear in the identifier record
1333 1326 1
1334 1327 1 IMPLICIT INPUTS:
1335 1328 1 NONE
1336 1329 1
1337 1330 1 OUTPUT PARAMETERS:
1338 1331 1 NONE
1339 1332 1
1340 1333 1 IMPLICIT OUTPUTS:
1341 1334 1 NONE
1342 1335 1
1343 1336 1 ROUTINE VALUE:
1344 1337 1 Status of operation
1345 1338 1
1346 1339 1 SIDE EFFECTS:
1347 1340 1 Identifier record modified
1348 1341 1
1349 1342 1 --
1350 1343 1
1351 1344 2 BEGIN
1352 1345 2
1353 1346 2 LABEL
1354 1347 2 MOD_ATTRIB ;
1355 1348 2
1356 1349 2 BIND
1357 1350 2 RAB = .RAB_PTR : $RAB_DECL ,
1358 1351 2 REC_BUFFER = .RAB[RAB$$_UBF] : $BBLOCK ;
1359 1352 2
1360 1353 2 LOCAL
1361 1354 2 KRFSAV : BYTE ,
1362 1355 2 KSZSAV : BYTE ,
1363 1356 2 KBFSAV : LONG ,
1364 1357 2 RACSAV : BYTE ,
1365 1358 2 ROPSAV : LONG ,
1366 1359 2 USZSAV : WORD ,
1367 1360 2 IDENT_RFA : $BLOCK [RAB$$_RFA], ! RFA of ident record
1368 1361 2 STATUS : LONG ;
1369 1362 2

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: R

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1370 1363 2 |
1371 1364 2 | Save the state of the RAB
1372 1365 2 |
1373 1366 2 KRFSAV = .RAB[RAB$B_KRF] ;
1374 1367 2 KSZSAV = .RAB[RAB$B_KSZ] ;
1375 1368 2 KBFSAV = .RAB[RAB$L_KBF] ;
1376 1369 2 RACSAV = .RAB[RAB$B_RAC] ;
1377 1370 2 ROPSAV = .RAB[RAB$L_ROP] ;
1378 1371 2 USZSAV = .RAB[RAB$W_USZ] ;
1379 1372 2 |
1380 1373 2 |
1381 1374 2 | Set up the RAB for key record access using the id key (primary)
1382 1375 2 |
1383 1376 2 RAB[RAB$B_RAC] = RAB$C_KEY ;
1384 1377 2 RAB[RAB$L_KBF] = ID ;
1385 1378 2 RAB[RAB$B_KSZ] = 4 ;
1386 1379 2 RAB[RAB$B_KRF] = 0 ;
1387 1380 2 RAB[RAB$L_ROP] = RAB$M_LIM OR
1388 1381 2 RAB$M_WAT OR
1389 1382 2 RAB$M_RLK OR
1390 1383 2 RAB$M_ULK ;
1391 1384 2 RAB[RAB$W_USZ] = KGB$K_IDENT_RECORD ;
1392 1385 2 |
1393 1386 2 MOD_ATTRIB:
1394 1387 2 BEGIN
1395 1388 2 |
1396 1389 2 | If we are clearing attributes, we have to fix up the holder records
1397 1390 2 | first. Locate the identifier record.
1398 1391 2 |
1399 1392 2 IF .CLR_ATTRIB NEQU 0
1400 1393 2 THEN
1401 1394 2 BEGIN
1402 1395 2 STATUS = $GET (RAB = RAB);
1403 1396 2 IF .STATUS EQLU RMSS_RNF THEN STATUS = SSS_NOSUCHID;
1404 1397 2 IF NOT .STATUS THEN LEAVE MOD_ATTRIB ;
1405 1398 2 CHSMOVE (RAB$S_RFA, RAB[RAB$W_RFA], IDENT_RFA);
1406 1399 2 |
1407 1400 2 | Now sequentially locate all the holder records and modify them.
1408 1401 2 |
1409 1402 2 |
1410 1403 2 RAB[RAB$B_RAC] = RAB$C_SEQ;
1411 1404 2 RAB[RAB$V_ULK] = 0;
1412 1405 2 WHILE 1 DO
1413 1406 2 BEGIN
1414 1407 2 STATUS = $GET (RAB = RAB);
1415 1408 2 IF .STATUS EQLU RMSS_EOF OR .STATUS EQLU RMSS_OK_LIM THEN EXITLOOP;
1416 1409 2 IF NOT .STATUS THEN LEAVE MOD_ATTRIB ;
1417 1410 2 |
1418 1411 2 REC BUFFER[KGB$L_ATTRIBUTES] =
1419 1412 2 .REC BUFFER[KGB$C_ATTRIBUTES] AND NOT .CLR_ATTRIB;
1420 1413 2 STATUS = $UPDATE (RAB = RAB);
1421 1414 2 IF NOT .STATUS THEN LEAVE MOD_ATTRIB ;
1422 1415 2 END;
1423 1416 2 |
1424 1417 2 RAB[RAB$B_RAC] = RAB$C_RFA;
1425 1418 2 CHSMOVE (RAB$S_RFA, IDENT_RFA, RAB[RAB$W_RFA]);
1426 1419 2 END;

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: Read the ident record, set and clear attributes as directed, and write
: it back.

STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMSS RNF THEN STATUS = SSS_NOSUCHID;
IF NOT .STATUS THEN LEAVE MOD_ATTRIB ;

IF .CLR_ATTRIB NEQU 0
THEN
REC_BUFFER[KGB$L_ATTRIBUTES] =
.REC_BUFFER[KGB$[_ATTRIBUTES] AND NOT .CLR_ATTRIB;
IF .SET_ATTRIB NEQU 0
THEN
REC_BUFFER[KGB$L_ATTRIBUTES] =
.REC_BUFFER[KGB$[_ATTRIBUTES] OR .SET_ATTRIB;
STATUS = $UPDATE (RAB = RAB);
END;

: Clean up locks.
$FREE ( RAB = RAB ) ;

: Restore RAB
RAB[RAB$B_KRF] = .KRFSAV ;
RAB[RAB$B_KSZ] = .KSZSAV ;
RAB[RAB$L_KBF] = .KBFSAV ;
RAB[RAB$B_RAC] = .RACSAV ;
RAB[RAB$L_ROP] = .ROPSAV ;
RAB[RAB$W_USZ] = .USZSAV ;

: Get back to the beginning
IF .STATUS
THEN STATUS = $REWIND ( RAB = RAB ) ;

RETURN .STATUS;

END;

```

! End of routine SYSSMOD_IDENT_ATTRIB

```

.EXTRN SYSSREWIND

OFFC 0000 SYSSMOD_IDENT_ATTRIB:
          SE      20 C2 00002      .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11      : 1307
          56      04 AC D0 00005      SUBL2 #32, SP
          57      24 A6 D0 00009      MOVL  RAB PTR, R6      : 1350
          14 AE    35 A6 90 0000D      MOVL  36(R6), R7      : 1351
          10 AE    34 A6 90 00012      MOVB  53(R6), KRFSAV   : 1366
                                 MOVB  52(R6), KSZSAV      : 1367

```


RDBSHR
V04-000

RDBSHR - Rights database loadable system servic B 11
SYSSMOD_IDENT_ATTRIB - Modify identifier att 14-Sep-1984 12:40:52

VAX-11 Bliss-32 V4.0-742
[LOADSS.SRC]RDBSHR.B32;1

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(8)

RDI
VOI

00000000G	00		01	FB	000F5	CALLS	#1, SYSS\$FREE	:	
	35	A6	14	AE	90 000FC	MOVB	KRFSAV, 53(R6)	:	1448
	34	A6	10	AE	90 00101	MOVB	KSZSAV, 52(R6)	:	1449
	30	A6	0C	AE	D0 00106	MOVL	KBFSAV, 48(R6)	:	1450
		6A	08	AE	90 0010B	MOVB	RACSAV, (R10)	:	1451
	04	A6	04	AE	D0 0010F	MOVL	ROPSAV, 4(R6)	:	1452
	20	A6		6E	B0 00114	MOVW	USZSAV, 32(R6)	:	1453
		0C		58	E9 00118	BLBC	STATUS, 9\$:	1458
				56	DD 0011B	PUSHL	R6	:	1459
00000000G	00		01	FB	0011D	CALLS	#1, SYSS\$REWIND	:	
	58		50	D0	00124	MOVL	RO, STATUS	:	
	50		58	D0	00127 9\$:	MOVL	STATUS, RO	:	1462
			04	0012A		RET		:	1464

; Routine Size: 299 bytes, Routine Base: \$CODE\$ + 0A7D

; 1472 1465 1

```

1474 1466 1 %SBTTL ' SYSSMOD_IDENT_ID - Modify identifier value'
1475 1467 1 ROUTINE SYSSMOD_IDENT_ID ( RAB_PTR, ID, NEW_ID ) =
1476 1468 1
1477 1469 1 |++
1478 1470 1 |
1479 1471 1 | FUNCTIONAL DESCRIPTION:
1480 1472 1 |
1481 1473 1 |     This routine modifies the name of the specified
1482 1474 1 |     identifier.
1483 1475 1 |
1484 1476 1 | CALLING SEQUENCE:
1485 1477 1 |     SYSSMOD_IDENT_ID ( RAB_PTR, ID, .NEW_ID )
1486 1478 1 |
1487 1479 1 | INPUT PARAMETERS:
1488 1480 1 |     RAB_PTR:      Address of RAB for the open rights data base file
1489 1481 1 |     ID:           identifier longword
1490 1482 1 |     NEW_ID:      new value for identifier
1491 1483 1 |
1492 1484 1 | IMPLICIT INPUTS:
1493 1485 1 |     NONE
1494 1486 1 |
1495 1487 1 | OUTPUT PARAMETERS:
1496 1488 1 |     NONE
1497 1489 1 |
1498 1490 1 | IMPLICIT OUTPUTS:
1499 1491 1 |     NONE
1500 1492 1 |
1501 1493 1 | ROUTINE VALUE:
1502 1494 1 |     Status of operation
1503 1495 1 |
1504 1496 1 | SIDE EFFECTS:
1505 1497 1 |     Identifier record modified
1506 1498 1 |
1507 1499 1 | --
1508 1500 1 |
1509 1501 2 BEGIN
1510 1502 2 |
1511 1503 2 | :
1512 1504 2 | : If the size of the holder ever changes then the OLD HOLDER and NEW HOLDER
1513 1505 2 | : vectors will have to be adjusted.
1514 1506 2 | :
1515 1507 2 $ASSUME ( KGBSS HOLDER, EQL, 8 ) ;
1516 1508 2
1517 1509 2 LABEL
1518 1510 2     MOD_ID ;
1519 1511 2
1520 1512 2 BIND
1521 1513 2     RAB           = .RAB_PTR           : $RAB_DECL ,
1522 1514 2     REC_BUFF      = .RAB[RAB$ _UBF]    : $BBLOCK ;
1523 1515 2
1524 1516 2 LOCAL
1525 1517 2     KRFSAV        : BYTE ,
1526 1518 2     KSZSAV        : BYTE ,
1527 1519 2     KBFSAV        : LONG ,
1528 1520 2     RACSAV        : BYTE ,
1529 1521 2     ROPSAV        : LONG ,
1530 1522 2     USZSAV        : WORD .

```



```
1531 1523 2 OLD_HOLDER : VECTOR [2, LONG],
1532 1524 2 NEW_HOLDER : VECTOR [2, LONG],
1533 1525 2 STATUS : LONG ;
1534 1526 2
1535 1527 2 KRFSAV = .RAB[RAB$B_KRF] ;
1536 1528 2 KSZSAV = .RAB[RAB$B_KSZ] ;
1537 1529 2 KBFSAV = .RAB[RAB$L_KBF] ;
1538 1530 2 RACSAV = .RAB[RAB$B_RAC] ;
1539 1531 2 OPSAV = .RAB[RAB$L_ROP] ;
1540 1532 2 USZSAV = .RAB[RAB$W_USZ] ;
1541 1533 2
1542 1534 2 MOD_ID:
1543 1535 2 BEGIN
1544 1536 2
1545 1537 2
1546 1538 2 : Make sure that the new value is not in use.
1547 1539 2
1548 1540 2 RAB[RAB$B_RAC] = RAB$C_KEY ;
1549 1541 2 RAB[RAB$B_KRF] = 0 ;
1550 1542 2 RAB[RAB$B_KSZ] = 4 ;
1551 1543 2 RAB[RAB$L_KBF] = NEW_ID ;
1552 1544 2 RAB[RAB$W_USZ] = KGB$K_IDENT RECORD ;
1553 1545 2 RAB[RAB$L_ROP] = RAB$M_NLK OR RAB$M_RRL ; ! No lock, read regardless
1554 1546 2 STATUS = $FIND ( RAB = RAB ) ;
1555 1547 2 IF .STATUS THEN STATUS = $$$_DUPLNAM ;
1556 1548 2 IF .STATUS NEQ RMSS_RNF THEN LEAVE MOD_ID ;
1557 1549 2
1558 1550 2
1559 1551 2 : Read the maintenance record to interlock the whole
1560 1552 2 operation.
1561 1553 2
1562 1554 2 RAB[RAB$L_KBF] = UPLIT (0) ;
1563 1555 2 RAB[RAB$W_USZ] = KGB$K_MAINT RECORD ;
1564 1556 2 RAB[RAB$L_ROP] = RAB$M_WAT OR RAB$M_RLK OR RAB$M_ULK ;
1565 1557 2 STATUS = $GET ( RAB = RAB ) ;
1566 1558 2 IF NOT .STATUS THEN LEAVE MOD_ID ;
1567 1559 2
1568 1560 2
1569 1561 2 : We will now loop through all the holder records and modify them
1570 1562 2 by reading in the ident record, change the value, delete the old record
1571 1563 2 record and write out the new one. The old one must be deleted
1572 1564 2 not updated because we are modifying the primary key.
1573 1565 2
1574 1566 2 RAB[RAB$L_KBF] = ID ;
1575 1567 2 RAB[RAB$W_USZ] = KGB$K_IDENT RECORD ;
1576 1568 2 RAB[RAB$L_ROP] = RAB$M_LIM OR RAB$M_WAT OR RAB$M_RLK OR RAB$M_ULK ;
1577 1569 2
1578 1570 2 WHILE 1 DO
1579 1571 2 BEGIN
1580 1572 2 STATUS = $GET ( RAB = RAB ) ;
1581 1573 2 IF ( .STATUS EQLU RMSS_EOF ) OR ( .STATUS EQLU RMSS_RNF ) THEN EXITLOOP ;
1582 1574 2 IF NOT .STATUS THEN LEAVE MOD_ID ;
1583 1575 2
1584 1576 2 REC_BUFF[KGB$L_IDENTIFIER] = .NEW_ID ;
1585 1577 2
1586 1578 2 STATUS = $DELETE ( RAB = RAB ) ;
1587 1579 2 IF NOT .STATUS THEN LEAVE MOD_ID ;
```

```

1588 1580 4
1589 1581 4 STATUS = $PUT ( RAB = RAB ) ;
1590 1582 4 IF NOT .STATUS THEN LEAVE MOD_ID ;
1591 1583 4
1592 1584 4 END ;
1593 1585 4
1594 1586 4
1595 1587 4
1596 1588 4
1597 1589 4
1598 1590 4
1599 1591 4
1600 1592 4
1601 1593 4
1602 1594 4
1603 1595 4
1604 1596 4
1605 1597 4
1606 1598 4
1607 1599 4
1608 1600 4
1609 1601 4
1610 1602 4
1611 1603 4
1612 1604 4
1613 1605 4
1614 1606 4
1615 1607 4
1616 1608 4
1617 1609 4
1618 1610 4
1619 1611 4
1620 1612 4
1621 1613 4
1622 1614 4
1623 1615 4
1624 1616 4
1625 1617 4
1626 1618 4
1627 1619 4
1628 1620 4
1629 1621 4
1630 1622 4
1631 1623 4
1632 1624 4
1633 1625 4
1634 1626 4
1635 1627 4
1636 1628 4
1637 1629 4
1638 1630 4
1639 1631 4
1640 1632 4
1641 1633 4
1642 1634 4
1643 1635 4
1644 1636 4
  
```

```

      STATUS = $PUT ( RAB = RAB ) ;
      IF NOT .STATUS THEN LEAVE MOD_ID ;

      END ;

      :
      : Now fix all the holder records
      :
      $REWIND ( RAB = RAB ) ;
      OLD_HOLDER[0] = .ID ;
      OLD_HOLDER[1] = 0 ;
      NEW_HOLDER[0] = .NEW_ID ;
      NEW_HOLDER[1] = 0 ;
      RAB[RAB$B_KRF] = 1 ;
      RAB[RAB$L_KBF] = OLD_HOLDER ;
      RAB[RAB$B_KSZ] = KGB$$_HOLDER ;
      RAB[RAB$W_USZ] = KGB$K_HOLD_RECORD ;
      WHILE 1 DO
      BEGIN
      STATUS = $GET ( RAB = RAB ) ;
      IF ( .STATUS EQLU RMSS_EOF ) OR ( .STATUS EQLU RMSS_RNF ) THEN EXITLOOP ;
      IF NOT .STATUS THEN LEAVE MOD_ID ;

      CH$MOVE ( KGB$$_HOLDER, NEW_HOLDER, REC_BUFF[KGB$Q_HOLDER] ) ;

      STATUS = $UPDATE ( RAB = RAB ) ;
      IF NOT .STATUS THEN LEAVE MOD_ID ;

      END ;

      STATUS = SSS_NORMAL ;

      END ;          ! End of MOD_ID

      :
      : Clean up locks.
      :
      $FREE ( RAB = RAB ) ;

      :
      : Restore RAB
      :
      RAB[RAB$B_KRF] = .KRFSAV ;
      RAB[RAB$B_KSZ] = .KSZSAV ;
      RAB[RAB$L_KBF] = .KBFSAV ;
      RAB[RAB$B_RAC] = .RACSAV ;
      RAB[RAB$L_ROP] = .ROPSAV ;
      RAB[RAB$W_USZ] = .USZSAV ;

      :
      : Get back to the beginning
      :
      IF .STATUS
      THEN STATUS = $REWIND ( RAB = RAB ) ;
  
```

: 1645
 : 1646
 : 1647

1637 2 RETURN .STATUS ;
 1638 2
 1639 1 END ;

! End of SYSSMOD_IDENT_ID

Address	Operation	Operand 1	Operand 2	Operation	Operand 1	Address
	.PSECT	\$SPLITS	,NOWRT,NOEXE,2			
		00000000	00176 P.AAP:	.BLKB	2	
		00000000	00178	.LONG	0	
	.EXTRN	SYSSDELETE				
	.PSECT	\$CODES	,NOWRT,2			
	OFFC	00000	SYSSMOD_IDENT_ID:			
	.WORD			Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11		1467
	SUBL2			#40, SP		
	MOVL			RAB PTR, R6		1513
	MOVL			36(R6), R11		1514
14	MOVB	AE	35	53(R6), KRFSAV		1527
10	MOVB	AE	34	52(R6), KSZSAV		1528
	MOVAB	S7	30	48(R6), R7		1529
0C	MOVL	AE	67	(R7), KBFSAV		
08	MOVB	AE	1E	30(R6), RACSAV		1530
	MOVAB	5A	04	4(R6), R10		1531
04	MOVL	AE	6A	(R10), ROPSAV		
	MOVAB	S9	20	32(R6), R9		1532
	MOVW	6E	69	(R9), USZSAV		
1E	MOVB	A6	01	#1, 30(R6)		1540
34	MOVW	A6	04	#4, 52(R6)		1542
	MOVAB	67	0C	NEW_ID, (R7)		1543
	MOVW	69	30	#48, (R9)		1544
	MOVL	6A	00100008	#1048584, (R10)		1545
	PUSHL		56	R6		1546
00000000G	CALLS	00	01	#1, SYSSFIND		
	MOVL	S8	50	R0, STATUS		
	BLBC	04	58	STATUS, 1\$		1547
000182B2	MOVZBL	S8	94	#148, STATUS		
	CPL	8F	58	STATUS, #98994	1\$:	1548
	BNEQ		70	3\$		
	MOVAB	67	0000	P.AAP, (R7)		1554
	MOVZBW	69	40	#64, (R9)		1555
	MOVL	6A	000E0000	#917504, (R10)		1556
	PUSHL		56	R6		1557
00000000G	CALLS	00	01	#1, SYSSGET		
	MOVL	S8	50	R0, STATUS		
	BLBC	51	58	STATUS, 3\$		1558
	MOVAB	67	08	ID, (R7)		1566
	MOVW	69	30	#48, (R9)		1567
	MOVL	6A	000E4000	#933888, (R10)		1568
	PUSHL		56	R6	2\$:	1572
00000000G	CALLS	00	01	#1, SYSSGET		
	MOVL	S8	50	R0, STATUS		
0001827A	CPL	8F	58	STATUS, #98938		1573
	BEQL		30	4\$		
000182B2	CPL	8F	58	STATUS, #98994		

			27	13	000AE	REQL	4\$		
	68		58	E9	000B0	BLBC	STATUS, 6\$	1574	
	6B	0C	AC	D0	000B3	MOVL	NEW_ID, (R11)	1576	
			56	DD	000B7	PUSHL	R6	1578	
00000000G	00		01	FB	000B9	CALLS	#1, SYSS\$DELETE		
	58		50	D0	000C0	MOVL	R0, STATUS		
	72		58	E9	000C3	BLBC	STATUS, 8\$	1579	
			56	DD	000C6	PUSHL	R6	1581	
00000000G	00		01	FB	000C8	CALLS	#1, SYSS\$PUT		
	58		50	D0	000CF	MOVL	R0, STATUS		
	BD		58	E8	000D2	BLBS	STATUS, 2\$	1582	
			61	11	000D5	BRB	8\$		
			56	DD	000D7	PUSHL	R6	1590	
00000000G	00		01	FB	000D9	CALLS	#1, SYSS\$REWIND		
	20	08	AC	D0	000E0	MOVL	ID, OLD HOLDER	1591	
		24	AE	D4	000E5	CLRL	OLD HOLDER+4	1592	
	18	AE	AC	D0	000E8	MOVL	NEW_ID, NEW HOLDER	1593	
		1C	AE	D4	000ED	CLRL	NEW HOLDER+4	1594	
	67	20	AE	9E	000F0	MOVAB	OLD HOLDER, (R7)	1596	
	34	A6	8F	B0	000F4	MOVW	#264, 52(R6)	1597	
	69	0108	10	B0	000FA	MOVW	#16, (R9)	1598	
			56	DD	000FD	PUSHL	R6	1601	
00000000G	00		01	FB	000FF	CALLS	#1, SYSS\$GET		
	58		50	D0	00106	MOVL	R0, STATUS		
0001827A	8F		58	D1	00109	CMPL	STATUS, #98938	1602	
			23	13	00110	BEQL	7\$		
000182B2	8F		58	D1	00112	CMPL	STATUS, #98994		
			1A	13	00119	BEQL	7\$		
	08	AB	18	AE	58	E9	0011B	6\$:	1603
			08	28	0011E	MOVC3	#8, NEW HOLDER, 8(R11)	1605	
			56	DD	00124	PUSHL	R6	1607	
00000000G	00		01	FB	00126	CALLS	#1, SYSS\$UPDATE		
	58		50	D0	0012D	MOVL	R0, STATUS		
	CA		58	E8	00130	BLBS	STATUS, 5\$	1608	
			03	11	00133	BRB	8\$		
	58		01	D0	00135	MOVL	#1, STATUS	1612	
			56	DD	00138	PUSHL	R6	1619	
00000000G	00		01	FB	0013A	CALLS	#1, SYSS\$FREE		
	35	A6	14	AE	90	00141	MOVB	KRFS AV, 53(R6)	1624
	34	A6	10	AE	90	00146	MOVB	KSZSAV, 52(R6)	1625
	67	0C	AE	D0	0014B	MOVL	KBFS AV, (R7)	1626	
	1E	A6	08	AE	90	0014F	MOVB	RACSAV, 30(R6)	1627
	6A	04	AE	D0	00154	MOVL	ROPSAV, (R10)	1628	
	69		6E	B0	00158	MOVW	USZSAV, (R9)	1629	
	0C		58	E9	0015B	BLBC	STATUS, 9\$	1634	
			56	DD	0015E	PUSHL	R6	1635	
00000000G	00		01	FB	00160	CALLS	#1, SYSS\$REWIND		
	58		50	D0	00167	MOVL	R0, STATUS		
	50		58	D0	0016A	MOVL	STATUS, R0	1637	
			04	0016D	RET			1639	

: Routine Size: 366 bytes, Routine Base: \$CODE\$ + 0BA8

: 1648 1640 1

```
1650 1641 1 %SBTTL ' SYSSMOD_IDENT_NAME - Modify identifier name'
1651 1642 1 ROUTINE SYSSMOD_IDENT_NAME ( RAB_PTR, ID, NEW_NAMLEN, NEW_NAMADR) =
1652 1643 1
1653 1644 1 ++
1654 1645 1
1655 1646 1 FUNCTIONAL DESCRIPTION:
1656 1647 1
1657 1648 1 This routine modifies the name of the specified
1658 1649 1 identifier.
1659 1650 1
1660 1651 1 CALLING SEQUENCE:
1661 1652 1 SYSSMOD_IDENT_NAME ( RAB_PTR, ID, .NEW_NAMLEN, .NEW_NAMADR)
1662 1653 1
1663 1654 1 INPUT PARAMETERS:
1664 1655 1 RAB_PTR: Address of RAB for the open rights data base file
1665 1656 1 ID: identifier longword
1666 1657 1 NEW_NAMLEN: Length of new name string
1667 1658 1 NEW_NAMADR: Address of new name string
1668 1659 1
1669 1660 1 IMPLICIT INPUTS:
1670 1661 1 NONE
1671 1662 1
1672 1663 1 OUTPUT PARAMETERS:
1673 1664 1 NONE
1674 1665 1
1675 1666 1 IMPLICIT OUTPUTS:
1676 1667 1 NONE
1677 1668 1
1678 1669 1 ROUTINE VALUE:
1679 1670 1 Status of operation
1680 1671 1
1681 1672 1 SIDE EFFECTS:
1682 1673 1 Identifier record modified
1683 1674 1
1684 1675 1 --
1685 1676 1
1686 1677 2 BEGIN
1687 1678 2
1688 1679 2 LABEL
1689 1680 2 MOD_NAME ;
1690 1681 2
1691 1682 2 BIND
1692 1683 2 RAB = .RAB_PTR : $RAB_DECL
1693 1684 2 REC_BUFF = .RAB[RAB$L_UBF] : $BBLOCK ;
1694 1685 2
1695 1686 2 LOCAL
1696 1687 2 KRFSAV : BYTE
1697 1688 2 KSZSAV : BYTE
1698 1689 2 KBFSAV : LONG
1699 1690 2 RACSAV : BYTE
1700 1691 2 ROPSAV : LONG
1701 1692 2 USZSAV : WORD
1702 1693 2 NAME_BUFFER : $BBLOCK [KGB$$_NAME],
1703 1694 2 STATUS : LONG
1704 1695 2
1705 1696 2 KRFSAV = .RAB[RAB$$_KRF] ;
1706 1697 2 KSZSAV = .RAB[RAB$$_KSZ] ;
```

```

1707 1698 2 KBFSAV = .RAB[RAB$$_KBF] ;
1708 1699 2 RACSAV = .RAB[RAB$_RAC] ;
1709 1700 2 ROPSAV = .RAB[RAB$_ROP] ;
1710 1701 2 USZSAV = .RAB[RAB$_USZ] ;
1711 1702
1712 1703 MOD_NAME:
1713 1704   BEGIN
1714 1705
1715 1706   |
1716 1707   | First find out if there is a record with the new name already
1717 1708   |
1718 1709   | CHSTRANSULATE (EXIST_ID_UPCASE, .NEW_NAMLEN, .NEW_NAMADR,
1719 1710   |   | KGB$$_NAME, NAME_BUFFER);
1720 1711   | RAB[RAB$_KRF] = 2 ; | Id name key
1721 1712   | RAB[RAB$_KSZ] = KGB$$_NAME ; | Key size
1722 1713   | RAB[RAB$_KBF] = NAME_BUFFER ; | Name string address
1723 1714   | RAB[RAB$_ROP] = RAB$_NLK OR RAB$_RRL ; | No lock, read regardless
1724 1715   | STATUS = $FIND ( RAB = RAB ) ;
1725 1716   | IF .STATUS THEN STATUS = $$$_DUPLNAM ;
1726 1717   | IF .STATUS NEQ RMSS$_RNF THEN LEAVE MOD_NAME ;
1727 1718
1728 1719   |
1729 1720   | The name doesn't exist. Now we will get back to the beginning
1730 1721   | of the file and find the record that needs modification.
1731 1722   |
1732 1723   | STATUS = $REWIND ( RAB = RAB ) ;
1733 1724   | IF NOT .STATUS THEN LEAVE MOD_NAME ;
1734 1725   | RAB[RAB$_KRF] = 0 ; | Id value key
1735 1726   | RAB[RAB$_KSZ] = 4 ; | Key size
1736 1727   | RAB[RAB$_KBF] = ID ; | ID value address
1737 1728   | RAB[RAB$_ROP] = RAB$_WAT OR | Wait if locked
1738 1729   |   | RAB$_RLK OR | Lock record
1739 1730   |   | RAB$_ULK ; | manual unlock
1740 1731   | RAB[RAB$_USZ] = KGB$_IDENT_RECORD ; | Ident record size
1741 1732   | STATUS = $GET ( RAB = RAB ) ;
1742 1733   | IF .STATUS EQL RMSS$_RNF THEN STATUS = $$$_NOSUCHID ;
1743 1734   | IF NOT .STATUS THEN LEAVE MOD_NAME ;
1744 1735
1745 1736   |
1746 1737   | Move the new name into the record and update the file.
1747 1738   |
1748 1739   | CH$MOVE ( KGB$$_NAME, NAME_BUFFER, REC_BUFF[KGB$_NAME] ) ;
1749 1740   | STATUS = $UPDATE ( RAB = RAB ) ;
1750 1741
1751 1742   END ; | End of MOD_NAME
1752 1743
1753 1744   |
1754 1745   | Clean up locks.
1755 1746   |
1756 1747   | $FREE ( RAB = RAB ) ;
1757 1748
1758 1749   |
1759 1750   | Restore RAB
1760 1751   |
1761 1752   | RAB[RAB$_KRF] = .KRFSAV ;
1762 1753   | RAB[RAB$_KSZ] = .KSZSAV ;
1763 1754   | RAB[RAB$_KBF] = .KBFSAV ;

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: 1764 1755 2 RAB[RAB$B_RAC] = .RACSAV ;
: 1765 1756 2 RAB[RAB$L_ROP] = .ROPSAV ;
: 1766 1757 2 RAB[RAB$W_USZ] = .USZSAV ;
: 1767 1758 2
: 1768 1759 2
: 1769 1760 2 : Get back to the beginning
: 1770 1761 2
: 1771 1762 2 IF .STATUS
: 1772 1763 2 THEN STATUS = $REWIND ( RAB = RAB ) ;
: 1773 1764 2
: 1774 1765 2 RETURN .STATUS ;
: 1775 1766 2
: 1776 1767 1 END ;

```

! End of SYSSMOD_IDENT_NAME

OFFC 00000 SYSSMOD_IDENT_NAME:												
										.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	1642
										SUBL2	#40, SP	1683
										MOVL	RAB PTR, R6	1684
										MOVL	36(R6), R8	1696
		04								MOVB	53(R6), KRFSAV	1697
										MOVB	52(R6), KSZSAV	1698
										PUSHL	48(R6)	1699
										MOVB	30(R6), RACSAV	1700
										MOVL	4(R6), ROPSAV	1701
										MOVW	32(R6), USZSAV	1709
00000000G	00									MOVTC	NEW NAMLEN, @NEW_NAMADR, #32, -	1712
											EXEST_ID UPCASE, #32, NAME_BUFFER	1713
										MOVW	#544, 52(R6)	1714
										MOVAB	NAME_BUFFER, 48(R6)	1715
										MOVL	#1048584, 4(R6)	
										PUSHL	R6	
										CALLS	#1, SYSS\$FIND	
										MOVL	R0, STATUS	
										BLBC	STATUS, 1\$	1716
										MOVZBL	#148, STATUS	
										CMPL	STATUS, #98994	1717
										BNEQ	3\$	
										PUSHL	R6	1723
										CALLS	#1, SYSS\$REWIND	
										MOVL	R0, STATUS	
										BLBC	STATUS, 3\$	1724
										MOVW	#4, 52(R6)	1726
										MOVAB	ID, 48(R6)	1727
										MOVL	#917504, 4(R6)	1729
										MOVW	#48, 32(R6)	1731
										PUSHL	R6	1732
										CALLS	#1, SYSS\$GET	
										MOVL	R0, STATUS	
										CMPL	STATUS, #98994	1733
										BNEQ	2\$	
										MOVZWL	#8684, STATUS	
										BLBC	STATUS, 3\$	1734
										MOVW	#32, NAME_BUFFER, 16(R8)	1739

RDBSHR
V04-000

RDBSHR - Rights database loadable system servic K 11
SYSSMOD_IDENT_NAME - Modify identifier ame 16-Sep-1984 01:48:50
14-Sep-1984 12:40:52 VAX-11 Bliss-32 V4.0-742
[LOADSS.SRC]RDBSHR.B32;1

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(10)

SYS
V04

00000000G	00		56	DD	000A9	PUSHL	R6	:	1740
	57		01	FB	000AB	CALLS	#1, SYSSUPDATE	:	
			50	DO	000B2	MOVL	R0, STATUS	:	
			56	DD	000B5	PUSHL	R6	:	1747
00000000G	00		01	FB	000B7	CALLS	#1, SYSSFREE	:	
35	A6	08	AE	90	000BE	MOVB	KRFSAV, 53(R6)	:	1752
34	A6	04	AE	90	000C3	MOVB	KSZSAV, 52(R6)	:	1753
30	A6		6E	DO	000C8	MOVL	KBFSAV, 48(R6)	:	1754
1E	A6		5B	90	000CC	MOVB	RACSAV, 30(R6)	:	1755
04	A6		5A	DO	000D0	MOVL	ROPSAV, 4(R6)	:	1756
20	A6		59	B0	000D4	MOVW	USZSAV, 32(R6)	:	1757
	0C		57	E9	000D8	BLBC	STATUS, 4\$:	1762
			56	DD	000DB	PUSHL	R6	:	1763
00000000G	00		01	FB	000DD	CALLS	#1, SYSSREWIND	:	
	57		50	DO	000E4	MOVL	R0, STATUS	:	
	50		57	DO	000E7	MOVL	STATUS, R0	:	1765
			04	000EA	RET			:	1767

; Routine Size: 235 bytes, Routine Base: \$CODE\$ + 0D16

; 1777 1768 1


```

: 1779 1769 1 %SBTTL ' SYSSREM_HOLDER - remove holder record'
: 1780 1770 1 GLOBAL ROUTINE SYSSREM_HOLDER (ID, HOLDER) =
: 1781 1771 1
: 1782 1772 1 ++
: 1783 1773 1
: 1784 1774 1 FUNCTIONAL DESCRIPTION:
: 1785 1775 1
: 1786 1776 1 This routine removes the specified holder record.
: 1787 1777 1
: 1788 1778 1 CALLING SEQUENCE:
: 1789 1779 1 SYSSREM_HOLDER (ID, HOLDER)
: 1790 1780 1
: 1791 1781 1 INPUT PARAMETERS:
: 1792 1782 1 ID: identifier longword
: 1793 1783 1 HOLDER: address of the holder identifier quadword
: 1794 1784 1
: 1795 1785 1 IMPLICIT INPUTS:
: 1796 1786 1 NONE
: 1797 1787 1
: 1798 1788 1 OUTPUT PARAMETERS
: 1799 1789 1 NONE
: 1800 1790 1
: 1801 1791 1 IMPLICIT OUTPUTS:
: 1802 1792 1 NONE
: 1803 1793 1
: 1804 1794 1 ROUTINE VALUE:
: 1805 1795 1 Status of operation
: 1806 1796 1
: 1807 1797 1 SIDE EFFECTS:
: 1808 1798 1 Holder record removed
: 1809 1799 1
: 1810 1800 1 --
: 1811 1801 1
: 1812 1802 2 BEGIN
: 1813 1803 2
: 1814 1804 2 LOCAL
: 1815 1805 2 LOC_ID : LONG, : local copy of ID
: 1816 1806 2 LOC_HOLDER : REF VECTOR, : local copy of HOLDER
: 1817 1807 2 HOLDER_ID : VECTOR [2], : local copy of holder id quadword
: 1818 1808 2 STATUS : LONG, : general status value
: 1819 1809 2 CLOSE : LONG, : call to EXECLOSE_RDB required flag
: 1820 1810 2 RAB : $RAB DECL, : RAB for file operations
: 1821 1811 2 REC_BUFFER : $BLOCK [KGB$K_IDENT_RECORD];
: 1822 1812 2 : buffer to read records
: 1823 1813 2
: 1824 1814 2
: 1825 1815 2 LABEL
: 1826 1816 2 RDB_OPEN; : rights database , open in this block
: 1827 1817 2
: 1828 1818 2 : Validate parameters
: 1829 1819 2 :
: 1830 1820 2
: 1831 1821 2 LOC_ID = .ID;
: 1832 1822 2 IF (.LOC_ID AND UIC$M_ID_FORM_FLAG) NEQU 0
: 1833 1823 2 THEN
: 1834 1824 3 (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SSS_IVIDENT)
: 1835 1825 2 ELSE

```

```

1836      2      (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN SSS_IVIDENT);
1837
1838      2      LOC HOLDER = .HOLDER;
1839      2      IF NOT PROBER (%REF(0), %REF(8), .LOC_HOLDER) THEN RETURN SSS_ACCVIO;
1840      2      HOLDER_ID[0] = .LOC_HOLDER[0];
1841      2      HOLDER_ID[1] = .LOC_HOLDER[1];
1842      2      IF .HOLDER_ID[0] GTRU UIC$K_MAX_UIC OR .HOLDER_ID[1] NEQU 0
1843      2      THEN
1844      2      RETURN SSS_IVIDENT;
1845
1846      2      ! Get the rights database open for write.
1847      2      !
1848
1849      P      2      $RAB_INIT (RAB = RAB,
1850      P      2      RAC = KEY,
1851      P      2      KRF = 0,
1852      P      2      KBF = LOC_ID,
1853      P      2      KSZ = 4,
1854      P      2      ROP = (LIM, WAT, RLK, ULK),
1855      P      2      UBF = REC_BUFFER,
1856      P      2      USZ = KGB$K_IDENT_RECORD
1857      2      );
1858      2      STATUS = EXE$OPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
1859      2      IF NOT .STATUS THEN RETURN .STATUS;
1860
1861      2      RDB_OPEN:
1862      2      BEGIN
1863      2      ! Read and lock the ident record.
1864      2      !
1865      2      !
1866      2      STATUS = $GET (RAB = RAB);
1867      2      IF .STATUS EQLU RMSS_RNF THEN STATUS = SSS_NOSUCHID;
1868      2      IF NOT .STATUS
1869      2      THEN
1870      2      BEGIN
1871      2      $FREE (RAB = RAB);
1872      2      LEAVE RDB_OPEN;
1873      2      END;
1874
1875      2      ! Read the holder records looking for the specified one.
1876      2      !
1877      2      !
1878      2      RAB[RAB$V_ULK] = 0;
1879      2      RAB[RAB$B_RAC] = RAB$C_SEQ;
1880      2      WHILE 1 DO
1881      2      BEGIN
1882      2      STATUS = $GET (RAB = RAB);
1883      2      IF .STATUS EQLU RMSS_EOF OR .STATUS EQLU RMSS_OK_LIM
1884      2      THEN
1885      2      BEGIN
1886      2      $FREE (RAB = RAB);
1887      2      STATUS = SSS_NOSUCHID;
1888      2      LEAVE RDB_OPEN;
1889      2      END;
1890
1891      2      IF CH$EQL (KGB$S_HOLDER, HOLDER_ID[0], KGB$S_HOLDER, REC_BUFFER[KGB$Q_HOLDER])
1892      2      
```

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1893 1883 4 THEN
1894 1884 4 EXITLOOP;
1895 1885 4 END;
1896 1886 4
1897 1887 4 ! Delete the located record.
1898 1888 4 !
1899 1889 4
1900 1890 4 STATUS = $DELETE (RAB = RAB);
1901 1891 4 $FREE (RAB = RAB);
1902 1892 4 END;
1903 1893 4
1904 1894 4 ! Close the rights database if there is no image
1905 1895 4 !
1906 1896 4
1907 1897 2 IF .CLOSE THEN EXE$CLOSE_RDB();
1908 1898 2 IF .STATUS
1909 1899 2 THEN
1910 1900 2 RETURN SSS_NORMAL
1911 1901 2 ELSE
1912 1902 2 RETURN .STATUS;
1913 1903 2
1914 1904 1 END;
! End of routine SYSSREM HOLDER

```

				00FC 00000	.ENTRY	SYSSREM HOLDER, Save R2,R3,R4,R5,R6,R7	1770
	57	00000000G	00	9E 00002	MOVAB	SYSSFREE, R7	
	56	00000000G	00	9E 00009	MOVAB	SYSSGET, R6	
	5E	80	AE	9E 00010	MOVAB	-128(SP), SP	
		04	AC	DD 00014	PUSHL	ID	1821
			0B	1B 00017	BGEQ	1\$	1822
	8FFFFFFF	8F	6E	D1 00019	CMPL	LOC_ID, #-1879048193	1824
			0F	1B 00020	BLEQU	2\$	
			33	11 00022	BRB	4\$	
	3FFFFFFF	8F	6E	D1 00024	CMPL	LOC_ID, #1073741823	1826
			2A	1A 0002B	BGTRU	4\$	
			6E	D5 0002D	TSTL	LOC_ID	
			26	13 0002F	BEQL	4\$	
		50	08	AC D0 00031	MOVL	HOLDER, LOC HOLDER	1828
	60	08	00	0C 00035	PROBER	#0, #8, (LOC HOLDER)	1829
			04	12 00039	BNEQ	3\$	
		50	0C	D0 0003B	MOVL	#12, R0	
			04	0003E	RET		
	7C	AE	60	D0 0003F	MOVL	(LOC HOLDER), HOLDER ID	1830
	FC	AD	04	A0 D0 00043	MOVL	4(LOC HOLDER), HOLDER ID+4	1831
	3FFFFFFF	8F	7C	AE D1 00048	CMPL	HOLDER_ID, #1073741823	1832
			05	1A 00050	BGTRU	4\$	
			FC	AD D5 00052	TSTL	HOLDER_ID+4	
			06	13 00055	BEQL	5\$	
		50	2224	8F 3C 00057	MOVZWL	#8740, R0	1834
				04 0005C	RET		
	0044	8F	00	6E 2C 0005D	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	1847
				38 AE 4401	MOVW	#17409, \$RMS_PTR	
				3C AE 000E4000	MOVL	#933888, \$RMS_PTR+4	
				8F B0 00066			
				8F D0 0006C			

56	AE		01	90	00074	MOVB	#1, \$RMS_PTR+30	:	
58	AE		30	B0	00078	MOVW	#48, \$RMS_PTR+32	:	
5C	AE	08	AE	9E	0007C	MOVAB	REC_BUFFER, \$RMS_PTR+36	:	
68	AE		6E	9E	00081	MOVAB	LOC_ID, \$RMS_PTR+48	:	
6C	AE		04	90	00085	MOVB	#4, \$RMS_PTR+52	:	
			04	AE	9F	00089	PUSHAB	CLOSE	1848
			3E	AE	9F	0008C	PUSHAB	RAB+2	
				01	DD	0008F	PUSHL	#1	
				7E	D4	00091	CLRL	-(SP)	
00000000G	9F		04	FB	00093	CALLS	#4, @#EXE\$OPEN_RDB	:	
	54		50	D0	0009A	MOVI	R0, STATUS	:	
	76		54	E9	0009D	BLBC	STATUS, 13\$:	1849
			38	AE	9F	000A0	PUSHAB	RAB	1857
	66		01	FB	000A3	CALLS	#1, SYSS\$GET	:	
000182B2	54		50	D0	000A6	MOVL	R0, STATUS	:	
	8F		54	D1	000A9	CML	STATUS, #98994	:	1858
			05	12	000B0	BNEQ	6\$:	
	54	21EC	8F	3C	000B2	MOVZWL	#8684, STATUS	:	
	44		54	E9	000B7	BLBC	STATUS, 10\$:	1859
3E	AE		04	8A	000BA	BICB2	#4, RAB+6	:	1869
			56	AE	94	000BE	CLRB	RAB+30	1870
			38	AE	9F	000C1	PUSHAB	RAB	1873
	66		01	FB	000C4	CALLS	#1, SYSS\$GET	:	
0001827A	54		50	D0	000C7	MOVL	R0, STATUS	:	
	8F		54	D1	000CA	CML	STATUS, #98938	:	1874
00018051	8F		09	13	000D1	BEQL	8\$:	
			54	D1	000D3	CML	STATUS, #98385	:	
			0D	12	000DA	BNEQ	9\$:	
			38	AE	9F	000DC	PUSHAB	RAB	1877
	67		01	FB	000DF	CALLS	#1, SYSS\$FREE	:	
	54	21EC	8F	3C	000E2	MOVZWL	#8684, STATUS	:	1878
			1B	11	000E7	BRB	11\$:	1879
10	AE	7C	AE	08	29	000E9	CMPC3	#8, HOLDER_ID, REC_BUFFER+8	1882
				D0	12	000EF	BNEQ	7\$	
			38	AE	9F	000F1	PUSHAB	RAB	1890
00000000G	00		01	FB	000F4	CALLS	#1, SYSS\$DELETE	:	
	54		50	D0	000FB	MOVL	R0, STATUS	:	
			38	AE	9F	000FE	PUSHAB	RAB	1891
	67		01	FB	00101	CALLS	#1, SYSS\$FREE	:	
00000000G	07	04	AE	E9	00104	BLBC	CLOSE, 12\$:	1897
	9F		00	FB	00108	CALLS	#0, @#EXE\$CLOSE_RDB	:	
	04		54	E9	0010F	BLBC	STATUS, 13\$:	1898
	50		01	D0	00112	MOVL	#1, R0	:	1902
				04	00115	RET		:	
	50		54	D0	00116	MOVL	STATUS, R0	:	
			04	00119	RET			:	1904

: Routine Size: 282 bytes, Routine Base: \$CODE\$ + 0E01

```

1916 1905 1 %SBTTL ' SYSSREM_IDENT - remove identifier from RDB'
1917 1906 1 GLOBAL ROUTINE SYSSREM_IDENT (ID) =
1918 1907 1
1919 1908 1 |++
1920 1909 1
1921 1910 1 | FUNCTIONAL DESCRIPTION:
1922 1911 1 |
1923 1912 1 |     This routine removes the specified identifier from the rights
1924 1913 1 |     database.
1925 1914 1 |
1926 1915 1 | CALLING SEQUENCE:
1927 1916 1 |     SYSSREM_IDENT (ID)
1928 1917 1 |
1929 1918 1 | INPUT PARAMETERS:
1930 1919 1 |     ID:     identifier longword
1931 1920 1 |
1932 1921 1 | IMPLICIT INPUTS:
1933 1922 1 |     NONE
1934 1923 1 |
1935 1924 1 | OUTPUT PARAMETERS:
1936 1925 1 |     NONE
1937 1926 1 |
1938 1927 1 | IMPLICIT OUTPUTS:
1939 1928 1 |     NONE
1940 1929 1 |
1941 1930 1 | ROUTINE VALUE:
1942 1931 1 |     Status of operation
1943 1932 1 |
1944 1933 1 | SIDE EFFECTS:
1945 1934 1 |     Identifier record removed
1946 1935 1 |
1947 1936 1 | --
1948 1937 1 |
1949 1938 2 BEGIN
1950 1939 2
1951 1940 2 LOCAL
1952 1941 2     LOC_ID          : VECTOR [2] INITIAL (0,0),
1953 1942 2     |                               | local copy of ID
1954 1943 2     STATUS          : LONG,          | general status value
1955 1944 2     CLOSE          : LONG,          | call to EXE$CLOSE_RDB required flag
1956 1945 2     RAB            : $RAB DECL,     | RAB for file I/O
1957 1946 2     IDENT_RFA      : $BBLOCK [RAB$S RFA],
1958 1947 2     |                               | RFA of ident record
1959 1948 2     REC_BUFFER     : $BBLOCK [KGB$K IDENT_RECORD];
1960 1949 2     |                               | Record buffer
1961 1950 2
1962 1951 2 LABEL
1963 1952 2     RDB_OPEN;          ! rights database is open in this block
1964 1953 2
1965 1954 2     ! Validate ID
1966 1955 2     !
1967 1956 2
1968 1957 2     LOC_ID[0] = .ID;
1969 1958 2     IF (.LOC_ID[0] AND UIC$M_ID_FORM_FLAG) NEQU 0
1970 1959 2     THEN
1971 1960 2         (IF (.LOC_ID[0] GTRU UIC$K_LAST_ID) THEN RETURN SSS_IVIDENT)
1972 1961 2     ELSE

```

```

: 1973      1962      2      (IF (.LOC_ID[0] GTRU UIC$K_MAX_UIC) OR (.LOC_ID[0] EQL 0) THEN RETURN SSS_IVIDENT);
: 1974      1963      2
: 1975      1964      2      ! Open the rights database for writing.
: 1976      1965      2      !
: 1977      1966      2
: 1978      P 1967      2      $RAB_INIT (RAB = RAB,
: 1979      P 1968      2          RAC = KEY,
: 1980      P 1969      2          KRF = 1,
: 1981      P 1970      2          KSZ = KGB$$ HOLDER,
: 1982      P 1971      2          KBF = LOC_ID[0],
: 1983      P 1972      2          USZ = KGB$K_IDENT_RECORD,
: 1984      P 1973      2          UBF = REC_BUFFER,
: 1985      P 1974      2          ROP = (LIM, WAT, RLK, ULK)
: 1986      1975      2          );
: 1987      1976      2      STATUS = EXE$OPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
: 1988      1977      2      IF NOT .STATUS THEN RETURN .STATUS;
: 1989      1978      2
: 1990      1979      2      RDB_OPEN:
: 1991      1980      2      BEGIN
: 1992      1981      2
: 1993      1982      2          ! Delete holder records held by this id
: 1994      1983      2          !
: 1995      1984      2
: 1996      1985      2          STATUS = $GET (RAB = RAB);
: 1997      1986      2          IF NOT .STATUS AND .STATUS NEQU RMSS_RNF THEN LEAVE RDB_OPEN;
: 1998      1987      2          IF .STATUS
: 1999      1988      2          THEN
: 2000      1989      2              BEGIN
: 2001      1990      2                  RAB[RAB$B_RAC] = RAB$C_SEQ;
: 2002      1991      2                  WHILE 1 DO
: 2003      1992      2                      BEGIN
: 2004      1993      2                          STATUS = $DELETE (RAB = RAB);
: 2005      1994      2                          IF NOT .STATUS
: 2006      1995      2                          THEN
: 2007      1996      2                              BEGIN
: 2008      1997      2                                  $FREE (RAB = RAB);
: 2009      1998      2                                  LEAVE RDB_OPEN;
: 2010      1999      2                                  END;
: 2011      2000      2                          STATUS = $FIND (RAB = RAB);
: 2012      2001      2                          IF .STATUS EQLU RMSS_EOF OR .STATUS EQLU RMSS_OK_LIM
: 2013      2002      2                          THEN
: 2014      2003      2                              EXITLOOP;
: 2015      2004      2                          IF NOT .STATUS
: 2016      2005      2                          THEN
: 2017      2006      2                              BEGIN
: 2018      2007      2                                  $FREE (RAB = RAB);
: 2019      2008      2                                  LEAVE RDB_OPEN;
: 2020      2009      2                                  END;
: 2021      2010      2                          END;
: 2022      2011      2                  END;
: 2023      2012      2
: 2024      2013      2          ! Now delete all holders of this identifier
: 2025      2014      2          !
: 2026      2015      2
: 2027      2016      2          RAB[RAB$B_RAC] = RAB$C_KEY;
: 2028      2017      2          RAB[RAB$B_KRF] = 0;
: 2029      2018      2          RAB[RAB$B_KSZ] = 4;

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```
! First locate and lock the identifier record.
!
STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMSS_RNF THEN STATUS = SSS_NOSUCHID;
IF NOT .STATUS
THEN
  BEGIN
    $FREE (RAB = RAB);
    LEAVE RDB_OPEN;
  END;
CH$MOVE (RAB$S_RFA, RAB[RAB$W_RFA], IDENT_RFA);
! Now sequentially locate all the holder records and delete them.
!
RAB[RAB$B_RAC] = RAB$C_SEQ;
RAB[RAB$V_ULK] = 0;
WHILE 1 DO
  BEGIN
    STATUS = $FIND (RAB = RAB);
    IF .STATUS EQLU RMSS_EOF OR .STATUS EQLU RMSS_OK_LIM
    THEN
      EXITLOOP;
    IF NOT .STATUS
    THEN
      BEGIN
        $FREE (RAB = RAB);
        LEAVE RDB_OPEN;
      END;
    STATUS = $DELETE (RAB = RAB);
    IF NOT .STATUS
    THEN
      BEGIN
        $FREE (RAB = RAB);
        LEAVE RDB_OPEN;
      END;
    END;
! Finally, re-locate and delete the identifier record.
!
RAB[RAB$B_RAC] = RAB$C_RFA;
CH$MOVE (RAB$S_RFA, IDENT_RFA, RAB[RAB$W_RFA]);
STATUS = $FIND (RAB = RAB);
IF NOT .STATUS
THEN
  BEGIN
    $FREE (RAB = RAB);
    LEAVE RDB_OPEN;
  END;
STATUS = $DELETE (RAB = RAB);
$FREE (RAB = RAB);
END;
```

```

2087
2088
2089
2090
2091
2092
2093
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2095
2096
2097
2098
2076 2
2077 2
2078 2
2079 2
2080 2 IF .CLOSE THEN EXE$CLOSE_RDB();
2081 2 IF .STATUS
2082 2 THEN
2083 2 RETURN SSS_NORMAL
2084 2 ELSE
2085 2 RETURN .STATUS;
2086 2
2087 1 END;

```

! End of routine SYSSREM_IDENT

				03FC 00000	.ENTRY	SYSSREM_IDENT, Save R2,R3,R4,R5,R6,R7,R8,R9	1906
		59	00000000C	00 9E 00002	MOVAB	SYSSGET, R9	
		58	00000000G	00 9E 00009	MOVAB	SYSS\$FIND, R8	
		57	00000000G	00 9E 00010	MOVAB	SYSS\$DELETE, R7	
		5E	FF78	CE 9E 00017	MOVAB	-136(SP), SP	
			F8	AD 7C 0001C	CLRQ	LOC_ID	1938
	F8	AD	04	AC D0 0001F	MOVL	ID, LOC_ID	1957
				OC 18 00024	BGEQ	1\$	1958
	8FFFFFFF	8F	F8	AD D1 00026	C MPL	LOC_ID, #-1879048193	1960
				17 1B 0002E	BLEQU	3\$	
				OF 11 00030	BRB	2\$	
	3FFFFFFF	8F	F8	AD D1 00032 1\$:	C MPL	LOC_ID, #1073741823	1962
				05 1A 0003A	BGTRU	2\$	
				F8 AD D5 0003C	TSTL	LOC_ID	
				06 12 0003F	BNEQ	3\$	
		50	2224	8F 3C 00041 2\$:	MOVZWL	#8740, R0	
				04 00046	RET		
0044	8F	00	6E	00 2C 00047 3\$:	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	1975
			3C	AE 0004E			
		3C	AE 4401	8F B0 00050	MOVW	#17409, \$RMS_PTR	
		40	AE 000E4000	8F D0 00056	MOVL	#933888, \$RMS_PTR+4	
		5A	AE	01 90 0005E	MOVW	#1, \$RMS_PTR+30	
		5C	AE	30 B0 00062	MOVW	#48, \$RMS_PTR+32	
		60	AE 04	AE 9E 00066	MOVAB	REC_BUFFER, \$RMS_PTR+36	
		6C	AE F8	AD 9E 0006B	MOVAB	LOC_ID, \$RMS_PTR+48	
		70	AE 0108	8F B0 00070	MOVW	#264, \$RMS_PTR+52	
				5E DD 00076	PUSHL	SP	1976
				42 AE 9F 00078	PUSHAB	RAB+2	
				01 DD 0007B	PUSHL	#1	
				7E D4 0007D	CLRL	-(SP)	
		00000000G	9F	04 FB 0007F	CALLS	#4, @EXE\$OPEN_RDB	
		56		50 D0 00086	MOVL	R0, STATUS	
		03		56 E8 00089	BLBS	STATUS, 4\$	1977
				00DF 31 0008C	BRW	16\$	
			3C	AE 9F 0008F 4\$:	PUSHAB	RAB	1985
		69		01 FB 00092	CALLS	#1, SYSSGET	
		56		50 D0 00095	MOVL	R0, STATUS	
		0F		56 E8 00098	BLBS	STATUS, 6\$	1986
	000182B2	8F		56 D1 0009B	C MPL	STATUS, #98994	
				03 13 000A2	BEQL	5\$	

				00B6	31	000A4		BRW	14\$			
		2F		56	E9	000A7	5\$:	BLBC	STATUS, 8\$			1987
			SA	AE	94	000AA	6\$:	CLRB	RAB+30			1990
			3C	AE	9F	000AD	7\$:	PUSHAB	RAB			1993
		67		01	FB	000B0		CALLS	#1, SYSSDELETE			
		56		50	D0	000B3		MOVL	RO, STATUS			
		79		56	E9	000B6		BLBC	STATUS, 11\$			1994
				AE	9F	000B9		PUSHAB	RAB			2000
		68		01	FB	000BC		CALLS	#1, SYSSFIND			
		56		50	D0	000BF		MOVL	RO, STATUS			
		8F		56	D1	000C2		CMPL	STATUS, #98938			2001
				0E	13	000C9		BEQL	8\$			
				56	D1	000CB		CMPL	STATUS, #98385			
				05	13	000D2		BEQL	8\$			
				56	E8	000D4		BLBS	STATUS, 7\$			2004
				7A	11	000D7		BRB	13\$			2007
			5A	AE	01	90	8\$:	MOVB	#1, RAB+30			2016
			70	AE	04	B0		MOVW	#4, RAB+52			2018
				AE	9F	000E1		PUSHAB	RAB			2023
				01	FB	000E4		CALLS	#1, SYSSGET			
				50	D0	000E7		MOVL	RO, STATUS			
				56	D1	000EA		CMPL	STATUS, #98994			2024
				05	12	000F1		BNEQ	9\$			
				8F	3C	000F3		MOVZWL	#8684, STATUS			
				56	E9	000F8	9\$:	BLBC	STATUS, 13\$			2025
			34	AE	06	28		MOV3	#6, RAB+16, IDENT_RFA			2031
				AE	94	00101		CLRB	RAB+30			2036
				AE	04	8A		BICB2	#4, RAB+6			2037
				AE	9F	00108	10\$:	PUSHAB	RAB			2040
				01	FB	0010B		CALLS	#1, SYSSFIND			
				50	D0	0010E		MOVL	RO, STATUS			
				56	D1	00111		CMPL	STATUS, #98938			2041
				1A	13	00118		BEQL	12\$			
				56	D1	0011A		CMPL	STATUS, #98385			
				11	13	00121		BEQL	12\$			
				56	E9	00123		BLBC	STATUS, 13\$			2044
				AE	9F	00126		PUSHAB	RAB			2051
				01	FB	00129		CALLS	#1, SYSSDELETE			
				50	D0	0012C		MOVL	RO, STATUS			
				56	E8	0012F		BLBS	STATUS, 10\$			2052
				1F	11	00132	11\$:	BRB	13\$			2055
				AE	90	00134	12\$:	MOVB	#2, RAB+30			2063
				AE	06	28		MOV3	#6, IDENT_RFA, RAB+16			2064
				AE	9F	0013E		PUSHAB	RAB			2065
				01	FB	00141		CALLS	#1, SYSSFIND			
				50	D0	00144		MOVL	RO, STATUS			
				56	E9	00147		BLBC	STATUS, 13\$			2066
				AE	9F	0014A		PUSHAB	RAB			2073
				01	FB	0014D		CALLS	#1, SYSSDELETE			
				50	D0	00150		MOVL	RO, STATUS			
				AE	9F	00153	13\$:	PUSHAB	RAB			2074
				01	FB	00156		CALLS	#1, SYSSFREE			
				6E	E9	0015D	14\$:	BLBC	CLOSE, 15\$			2080
				00	FB	00160		CALLS	#0, @#EXE\$CLOSE_RDB			
				56	E9	00167	15\$:	BLBC	STATUS, 16\$			2081
				01	D0	0016A		MOVL	#1, RO			2085
				04	00	'6D		RET				

RDBSHR
V04-000

RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 H 12 VAX-11 Bliss-32 V4.0-742
SYSSREM_IDENT - remove identifier from RDB 14-Sep-1984 12:40:52 [LOADSS.SRC]RDBSHR.B32;1

SY
VO

50 56 D0 0016E 16\$: MOVl STATUS, R0
04 00171 RET

: 2087

: Routine Size: 370 bytes, Routine Base: \$CODE\$ + 0F1B

: 2099 2088 1
: 2100 2089 1 END
: 2101 2090 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	4237	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$SPLITS	380	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	195 1	1000	00:01.9

COMMAND QUALIFIERS

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

: Size: 4237 code + 380 data bytes
: Run Time: 01:33.8
: Elapsed Time: 02:52.5
: Lines/CPU Min: 1337
: Lexemes/CPU-Min: 30273
: Memory Used: 308 pages
: Compilation Complete

0220 AH-BT13A-SE
VAX/VMS V4.0

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LNKUMCTR LIS

RDBSHR LIS

RDBDISP LIS

SYSACSRU LIS

LOADSS

SECRESHR MAP

FTNDHELD LIS