



```

UU      UU      AAAAAA  FFFFFFFF  MM      MM      AAAAAA  IIIIII  NN      NN
UU      UU      AAAAAA  FFFFFFFF  MM      MM      AAAAAA  IIIIII  NN      NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NN      NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NN      NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NNNN   NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NNNN   NN
UU      UU      AA        AA  FFFFFFFF  MM      MM      AA        AA  II      NN      NN
UU      UU      AA        AA  FFFFFFFF  MM      MM      AA        AA  II      NN      NN
UU      UU      AAAAAAAAAA  FF        MM      MM      AAAAAAAAAA  II      NN      NN
UU      UU      AAAAAAAAAA  FF        MM      MM      AAAAAAAAAA  II      NN      NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NN      NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NN      NN
UUUUUUUUUU  AA        AA  FF        MM      MM      AA        AA  IIIIII  NN      NN
UUUUUUUUUU  AA        AA  FF        MM      MM      AA        AA  IIIIII  NN      NN

```

```

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
LLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLL  IIIIII  SSSSSSSS

```

.....<

```

1 0001 0 module uafmain (main = start,
2 0002 0     language (bliss32),
3 0003 0     ident = 'V04-000',
4 0004 0     addressing_mode (external=general, nonexternal=general)
5 0005 0 ) =
6 0006 1 begin
7 0007 1
8 0008 1
9 0009 1
10 0010 1
11 0011 1 *
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29 0029 1 *
30 0030 1
31 0031 1
32 0032 1
33 0033 1 **
34 0034 1 FACILITY:      System Management Utility Program
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1
38 0038 1     This program allows the system manager to maintain the user
39 0039 1     authorization file which contains usernames, passwords, quotas,
40 0040 1     and defaults. The following functions are provided:
41 0041 1
42 0042 1     ADD - add a new user record to the authorization file (UAF)
43 0043 1     COPY - copy a user record, give copied record a new name
44 0044 1     DEFAULT - change a default value
45 0045 1     EXIT - exit program and update file
46 0046 1     HELP - ask for explanation
47 0047 1     LIST - complete list of records to file
48 0048 1     MODIFY - change one or more values for a user
49 0049 1     REMOVE - remove a user record
50 0050 1     RENAME - rename a user record (COPY; REMOVE)
51 0051 1     SHOW - display the values from a user record
52 0052 1
53 0053 1 ENVIRONMENT:
54 0054 1
55 0055 1 AUTHOR:      Henry M. Levy, CREATION DATE: 1-June-1977
56 0056 1
57 0057 1 MODIFIED BY:

```

58	0058	1	V03-024	JRL0036	John R. Lawson, Jr.	07-Aug-1984 17:08
59	0059	1				
60	0060	1				
61	0061	1				
62	0062	1				
63	0063	1	V03-023	JRL0027	John R. Lawson, Jr.	25-Jul-1984 11:01
64	0064	1				
65	0065	1				
66	0066	1				
67	0067	1	V03-022	JRL0029	John R. Lawson, Jr.	25-Jul-1984 10:47
68	0068	1				
69	0069	1				
70	0070	1	V03-021	JRL0020	John R. Lawson, Jr.	09-Jul-1984 15:51
71	0071	1				
72	0072	1				
73	0073	1	V03-020	JRL0017	John R. Lawson, Jr.	02-Jul-1984 22:13
74	0074	1				
75	0075	1				
76	0076	1				
77	0077	1	V03-029	JRL0013	John R. Lawson, Jr.	02-Jul-1984 12:28
78	0078	1				
79	0079	1				
80	0080	1				
81	0081	1	V03-028	JRL0010	John R. Lawson, Jr.	25-Jun-1984 15:56
82	0082	1				
83	0083	1				
84	0084	1				
85	0085	1	V03-027	JRL0008	John R. Lawson, Jr.	21-Jun-1984 14:00
86	0086	1				
87	0087	1				
88	0088	1				
89	0089	1	V03-026	JRL0006	John R. Lawson, Jr.	20-Jun-1984 12:28
90	0090	1				
91	0091	1				
92	0092	1	V03-025	JRL0002	John R. Lawson, Jr.	15-Jun-1984 09:55
93	0093	1				
94	0094	1				
95	0095	1				
96	0096	1	V03-024	LY0494	Larry Yetto	11-JUN-1984 12:59
97	0097	1				
98	0098	1				
99	0099	1				
100	0100	1	V03-023	MHB0150	Mark Bramhall	2-May-1984
101	0101	1				
102	0102	1				
103	0103	1				
104	0104	1				
105	0105	1	V03-022	LY0474	Larry Yetto	9-APR-1984 08:32
106	0106	1				
107	0107	1				
108	0108	1				
109	0109	1	V03-021	LY0466	Larry Yetto	22-MAR-1984 13:52
110	0110	1				
111	0111	1				
112	0112	1	V03-020	ACG0397	Andrew C. Goldstein,	24-Feb-1984 23:21
113	0113	1				
114	0114	1				

115 0115 1  
116 0116 1  
117 0117 1  
118 0118 1  
119 0119 1  
120 0120 1  
121 0121 1  
122 0122 1  
123 0123 1  
124 0124 1  
125 0125 1  
126 0126 1  
127 0127 1  
128 0128 1  
129 0129 1  
130 0130 1  
131 0131 1  
132 0132 1  
133 0133 1  
134 0134 1  
135 0135 1  
136 0136 1  
137 0137 1  
138 0138 1  
139 0139 1  
140 0140 1  
141 0141 1  
142 0142 1  
143 0143 1  
144 0144 1  
145 0145 1  
146 0146 1  
147 0147 1  
148 0148 1  
149 0149 1  
150 0150 1  
151 0151 1  
152 0152 1  
153 0153 1  
154 0154 1  
155 0155 1  
156 0156 1  
157 0157 1  
158 0158 1  
159 0159 1  
160 0160 1  
161 0161 1  
162 0162 1  
163 0163 1  
164 0164 1  
165 0165 1  
166 0166 1  
167 0167 1  
168 0168 1  
169 0169 1  
170 0170 1  
171 0171 1

V03-019 ACG0397 Andrew C. Goldstein, 6-Feb-1984 16:27  
Add DISREPORT to flags, clean up record locking

V03-018 ACG0388 Andrew C. Goldstein, 12-Jan-1984 19:21  
Add command input to handle new UAF features;  
general code cleanup

V03-017 ACG0385 Andrew C. Goldstein, 6-Jan-1984 18:28  
V4 UAF format change; remove read-only under installed  
SYSPRV feature; misc. code cleanups

V03-016 TMK0001 Todd M. Katz 10-Oct-1983  
Add JTQUOTA (job-wide logical name table creation quota)  
qualifier.

V03-015 LMP0153 L. Mark Pilant, 13-Sep-1983 11:57  
Add minimal support for alphanumeric UICs.

014 JWT0105 Jim Teague 30-Mar-1983  
Small changes to CLITABLES implementation.

013 JWT0104 Jim Teague 29-Mar-1983  
Add CLITABLES qualifier.

012 WMC0001 Wayne Cardoza 15-Mar-1983  
Add MAXDETACH qualifier.

011 JWT0097 Jim Teague 23-Feb-1983  
Fix RENAME problem with proxy entries.

010 JWT0096 Jim Teague 08-Feb-1983  
Log NETUAF changes to console, too.

009 JWT0087 Jim Teague 11-Jan-1983  
Change SYSWSQUOTA for created UAFs to 350

008 JWT0082 Jim Teague 05-Jan-1983  
Fix problem with LIST/PROXY.

007 JWT0079 Jim Teague 15-Dec-1982  
Enlarge output field for BYTLM; reset pending  
mail count for COPY operations.

006 JWT0072 Jim Teague 03-Dec-1982  
Add global longword which can be patched to  
enable/disable console logging of SYSUAF mods.

005 JWT0069 Jim Teague 24-Nov-1982  
Allow redefinition of sys\$output.

004 JWT0057 Jim Teague 21-Sep-1982  
Add a message to tell whether or not NETUAF was  
modified.

003 JWT0042 Jim Teague 15-Jul-1982  
Make SYSUAF.LIS and NETUAF.LIS world noread.

UAFMAIN  
V04-000

K 4  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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(1)

: 172 0172 1 |  
: 173 0173 1 |  
: 174 0174 1 |  
: 175 0175 1 |  
: 176 0176 1 |  
: 177 0177 1 |  
: 178 0178 1 |  
: 179 0179 1 |  
: 180 0180 1 |--

002 JWT0036 Jim Teague 08-Jun-1982  
Add full wildcarding to show/proxy

001 JWT0022 Jim Teague 17-Mar-1982  
Fix bug that caused failure to reparse command line for  
wildcard modifications. List default device on its own  
line for show/full.

U  
V

182	0181	1	:	:
183	0182	1	:	Require files
184	0183	1	:	:
185	0184	1	:	require
186	0185	1	:	'lib\$:uafreq':
187	0281	1	:	:
188	0282	1	:	:
189	0283	1	:	INCLUDE FILES:
190	0284	1	:	:
191	0285	1	:	library 'SYSSLIBRARY:LIB.L32':
192	0286	1	:	:
193	0287	1	:	:
194	0288	1	:	TABLE OF CONTENTS:
195	0289	1	:	:
196	0290	1	:	:
197	0291	1	:	forward routine
198	0292	1	:	start,
199	0293	1	:	setup                : novalue, controlling code
200	0294	1	:	add_uaf              : novalue, open initial files
201	0295	1	:	add_proxy           : novalue, insert new user record
202	0296	1	:	remote_parse,       : novalue, insert new proxy record
203	0297	1	:	copy_uaf,           : novalue, parses 'node: : remoteuser'
204	0298	1	:	create_proxy       : novalue, copy user record
205	0299	1	:	modify_uaf          : novalue, create NETUAF.DAT proxy file
206	0300	1	:	modify_rec,        : novalue, update user record(s)
207	0301	1	:	remove_uaf          : novalue, update a user record action routine
208	0302	1	:	remove_proxy       : novalue, remove username from file
209	0303	1	:	rename_uaf          : novalue, remove a proxy record
210	0304	1	:	adjust_proxy       : novalue, rename user record
211	0305	1	:	default_uaf        : novalue, implicitly remove/update proxy record
212	0306	1	:	list_proxy          : novalue, change default record
213	0307	1	:	list_uaf           : novalue, list proxy entries in NETUAF.LIS
214	0308	1	:	show_user_uaf      : novalue, list file routine
215	0309	1	:	show_proxy          : novalue, display user record
216	0310	1	:	locate_proxy       : novalue, display proxy record at terminal
217	0311	1	:	get_proxy_record,  : novalue, access given proxy record(s)
218	0312	1	:	display_proxy      : novalue, read single proxy record
219	0313	1	:	wild_user,          : novalue, format and output a proxy entry
220	0314	1	:	display_brief,     : novalue, user wild card routine
221	0315	1	:	classify_priv,     : novalue, writes a brief user display
222	0316	1	:	display_full,      : novalue, classifies contents of priv vector
223	0317	1	:	display_hours      : novalue, writes the full user display
224	0318	1	:	convert_time       : novalue, display hourly restrictions
225	0319	1	:	print_priv         : novalue, convert time value to string
226	0320	1	:	build_ini_recs    : novalue, print privilege bits
227	0321	1	:	get_user_record,  : novalue, build initial file records for default and system manager
228	0322	1	:	locate_user,       : novalue, get username and lookup record
229	0323	1	:	get_uaf_record,   : novalue, lookup user record in UAF
230	0324	1	:	get_cmd_line,     : novalue, routine to deal with record locking
231	0325	1	:	ask                 : novalue, input user command line
232	0326	1	:	fmt_sys_msg       : novalue, prompt terminal for input
233	0327	1	:	faout,             : novalue, output system message file message
234	0328	1	:	help_uaf           : novalue, output formatted message
235	0329	1	:	exit_uaf           : novalue, help routine
236	0330	1	:	SIGNAL_SYNTAX     : novalue, normal exit routine
237	0331	1	:	acc\$exit           : novalue, missing qualifier
238	0332	1	:	:

```

: 239      0333 1      uaf$mod_sys_pwd : novalue,      . modify the system password
: 240      0334 1      security_audit : novalue;      . Perform a security audit
: 241      0335 1
: 242      0336 1      linkage
: 243      0337 1      fmg_match = jsb (register = 2, register = 3, register = 4,
: 244      0338 1      register = 5) : notused (10, 11);
: 245      0339 1
: 246      0340 1      !
: 247      0341 1      ! EXTERNAL REFERENCES:
: 248      0342 1      !
: 249      0343 1
: 250      0344 1      external literal
: 251      0345 1      cli$_bufovf,
: 252      0346 1      cli$_noclint;
: 253      0347 1
: 254      0348 1
: 255      0349 1      external routine
: 256      0350 1      lbr$output_help,
: 257      0351 1      lib$get_foreign,
: 258      0352 1      lib$get_input,
: 259      0353 1      lib$put_output,
: 260      0354 1      fmg$match_name : fmg_match,
: 261      0355 1      cli$dcl_parse,
: 262      0356 1      cli$dispatch,
: 263      0357 1      cli$present,
: 264      0358 1      cli$get_value,
: 265      0359 1      update_record,      ! modify all specified fields
: 266      0360 1      parse_wild,      ! parses a wildcarded user specification
: 267      0361 1      lgi$hpwd,      ! hash password routine
: 268      0362 1      uaf$add_ident_recbuf,
: 269      0363 1      uaf$build_holder,
: 270      0364 1      uaf$find_uic,
: 271      0365 1      uaf$remove_ident_recbuf,
: 272      0366 1      uaf$write_rights;
: 273      0367 1
: 274      0368 1      external
: 275      0369 1      EXESGL_SYSUIC : long,
: 276      0370 1      rdb_header_flag : byte,
: 277      0371 1      rdb_list_flag : byte,
: 278      0372 1      attributes : long,
: 279      0373 1      holder : $bblock[8],
: 280      0374 1      ident : $bblock[4],
: 281      0375 1      authorize_commands,      ! AUTHORIZE command parse tables
: 282      0376 1      prv$ab_names;      ! address of privilege name table
: 283      0377 1
: 284      0378 1
: 285      0379 1      !
: 286      0380 1      ! MACROS:
: 287      0381 1      !
: 288      0382 1      macro
: 289      0383 1
: 290      M 0384 1      namelen (x, y) =
: 291      M 0385 1      begin
: 292      M 0386 1      builtin
: 293      M 0387 1      locc;
: 294      M 0388 1      register
: 295      M 0389 1      r0 = 0;

```



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296      M 0390 1      locc (%ref(' '), %ref(x), y; r0);
297      M 0391 1      x = .r0
298      M 0392 1      end%,
299      M 0393 1
300      M 0394 1      cstring[] = (uplit byte (%charcount (%string (%remaining)),
301      M 0395 1      %string (%remaining)))%,
302      M 0396 1
303      M 0397 1      fatal[] = (fmt_sys_msg (%remaining); acc$exit ())%,
304      M 0398 1
305      M 0399 1      : Macros to check for success or failure from RMS
306      M 0400 1
307      M 0401 1      rmsbad (string) = (not (rmserr = string)) %,
308      M 0402 1      rmsok (string) = (rmserr = string) %,
309      M 0403 1
310      M 0404 1      : Macros to set up and write an FAO string.
311      M 0405 1
312      M 0406 1      faomac (faomsg)[] =
313      M 0407 1      begin
314      M 0408 1      faodsc[dsc$w_length] = . (faomsg)<0,8>;
315      M 0409 1      faodsc[dsc$a_pointer] = (faomsg) + 1;
316      M 0410 1      $fao (faodsc, rabptr[rab$w_rsz], disdsc $comma (%remaining)
317      M 0411 1      %remaining);
318      M 0412 1      $put (rab = .rabptr);
319      M 0413 1      end %,
320      M 0414 1
321      M 0415 1      $comma[] = . %,
322      M 0416 1
323      M 0417 1      output_null =
324      M 0418 1      begin
325      M 0419 1      rabptr[rab$w_rsz] = 0;
326      M 0420 1      $put (rab = .rabptr);
327      M 0421 1      end %,
328      M 0422 1
329      M 0423 1
330      M 0424 1      : Macro to create string descriptor for command parameters and
331      M 0425 1      qualifiers
332      M 0426 1
333      M 0427 1      sd[a] =
334      M 0428 1      bind %name ('SD_',a) = $descriptor (a)%;
335      M 0429 1
336      P 0430 1      sd (
337      P 0431 1      'token1',          'token2',          'brief',          'full',
338      P 0432 1      'add_identifier',      'remove_identifier',
339      P 0433 1      'modify_identifier'
340      M 0434 1      );
341      M 0435 1
342      M 0436 1      field
343      M 0437 1      descr_fields =          ! Define the fields for a DESCRIPTOR
344      M 0438 1      set
345      M 0439 1      length = [dsc$w_length],
346      M 0440 1      dtype   = [dsc$b_dtype],
347      M 0441 1      class  = [dsc$b_class],
348      M 0442 1      pointer = [dsc$a_pointer]
349      M 0443 1      tes;
350      M 0444 1
351      M 0445 1      macro
352      M 0446 1      statdesc =

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353      M 0447 1      $bblock [dsc$k_s_bln] field (descr_fields)
354      M 0448 1          preset ( [length] = 0,
355      M 0449 1          [dtype]   = dsc$k_dtype_t,
356      M 0450 1          [class]  = dsc$k_class_s,
357      M 0451 1          [pointer] = 0)%;
358      M 0452 1
359      M 0453 1 macro
360      M 0454 1     qualstr_desc (string) =
361      M 0455 1     $bblock [dsc$k_s_bln] field (descr_fields)
362      M 0456 1     preset ( [length] = (%charcount(string)),
363      M 0457 1     [dtype]   = dsc$k_dtype_t,
364      M 0458 1     [class]  = dsc$k_class_s,
365      M 0459 1     [pointer] = (uplit byte (%string(string))))%;
366      M 0460 1 own
367      M 0461 1     sd_attribresource : qualstr_desc ('attributes.resource') ;
368      M 0462 1
369      M 0463 1 |
370      M 0464 1 | EQUATED SYMBOLS:
371      M 0465 1 |
372      M 0466 1 | literal
373      M 0467 1     cmdbufmax      = 508,          | maximum command length
374      M 0468 1     false          = 0,          | logical false
375      M 0469 1     true          = 1,          | logical true
376      M 0470 1     update_records = 0,          | flag for proxy file adjustment
377      M 0471 1     remove_records = 1,          |
378      M 0472 1     copy_flag     = 1,          | used in routine copy_uaf
379      M 0473 1     rename_flag   = 1,          | used in routine rename_uaf
380      M 0474 1     byte_length   = 8,          | bits per byte
381      M 0475 1     word_length   = 16,         | bits per word
382      M 0476 1     long_length   = 32,         | bits per longword
383      M 0477 1     retry_rlk     = 8,          | number of retries for a locked record
384      M 0478 1     sleep_rlk    = 500,        | ms to sleep before retrying
385      M 0479 1     cr           = 13,
386      M 0480 1     lf           = 10,
387      M 0481 1     zero         = 0,
388      M 0482 1     cmdbuflen    = 1024;        | size of user command buffer
389      M 0483 1
390      M 0484 1 | global literal
391      M 0485 1     encrypt      = uaf$c_purdy_v, | encryption algorithm to use
392      M 0486 1     disbuflen   = 132;         | size of display file output buffer
393      M 0487 1
394      M 0488 1 | bind
395      M 0489 1     sysuaf_string = uplit byte ('SYSUAF'),
396      M 0490 1     netuaf_string = uplit byte ('NETUAF'),
397      M 0491 1     mod_act_desc = $descriptor ('modified'),
398      M 0492 1     add_act_desc = $descriptor ('added'),
399      M 0493 1     rem_act_desc = $descriptor ('removed'),
400      M 0494 1     fao_lin_desc = $descriptor ('PID=!XL !AS !AS !AS record !AS on !XD'),
401      M 0495 1     dbl_colon   = $descriptor ('::'),
402      M 0496 1 |
403      M 0497 1 | Define the system delta time to sleep before retrying to GET a locked record.
404      M 0498 1 |
405      M 0499 1     wakedelta    = uplit long (-10*1000*sleep_rlk,-1),
406      M 0500 1 |
407      M 0501 1 | Default values for authorization file record. These values are
408      M 0502 1 | only used when a new authorization file is created. If the file
409      M 0503 1 | already exists, the default values are read from the first file

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```

410 0504 1 | record.
411 0505 1 |
412 0506 1 |
413 0507 1 | defuser = cstring ('DEFAULT'), | default username
414 0508 1 | defpass = cstring ('USER'), | default password
415 0509 1 | defcli-abl = cstring ('DCLTABLES'), | default CLI tables
416 0510 1 | defact = cstring (''), | default account name
417 0511 1 | defcli = cstring ('DCL'), | default command interpreter
418 0512 1 | defowner = cstring (''), | owner's name
419 0513 1 | deflgicmd = cstring (''), | default login command file
420 0514 1 | defgrp = '%200', | default group
421 0515 1 | defmem = '%200', | default member
422 0516 1 | defdir = cstring ('[USER]'), | default directory name
423 0517 1 | defdev = cstring (''), | default device name
424 0518 1 | defbiolm = 6, | default buffered I/O limit
425 0519 1 | defdiolm = 4096, | default buffered I/O buffer space
426 0520 1 | deffillm = 6, | default direct I/O limit
427 0521 1 | defflags = 20, | default open file limit
428 0522 1 | deftcnt = 0, | default flag bits
429 0523 1 | defprcnt = 10, | default time queue entries
430 0524 1 | defpri = 2, | default subprocess count
431 0525 1 | defquepri = 4, | default process priority
432 0526 1 | defwsquota = 4, | default queue priority
433 0527 1 | defdwsent = 200, | default working set limit
434 0528 1 | defwscnt = 150, | "default" working set default size
435 0529 1 | defwsextent = 500, | default working set extent
436 0530 1 | defcpulim = 0, | default (PU time quota
437 0531 1 | defpgflquota = 10, | default AST queue limit
438 0532 1 | defenqlm = 10000, | default paging file limit in pages
439 0533 1 | defpbylm = 0, | default enqueue limit
440 0534 1 | defshrfillm = 0, | default paged buffer I/O limit
441 0535 1 | defmaxjobs = 0, | default shared file limit
442 0536 1 | defmaxacctjobs = 0, | default maximum concurrent jobs
443 0537 1 | defmaxdetach = 0, | default maximum concurrent group jobs
444 0538 1 | defjtquota = 0, | default maximum detached processes
445 0539 2 | defprimedays = 1024, | default job-wide logical table quota
446 0540 2 | | Sat, Sun are default non-prime days
447 0541 3 | (1 ^ $bitposition (uaf$sv_saturday)) or
448 0542 1 | (1 ^ $bitposition (uaf$sv_sunday))
449 0543 1 | ),
450 0544 1 | defhours = 0, | default all hours to allow access
451 0545 2 | defpriv = uplit ( | default privilege vector
452 0546 2 | ( |
453 0547 3 | (1 ^ $bitposition (prv$sv_netmbx)) or
454 0548 1 | (1 ^ $bitposition (prv$sv_tmplibx))
455 0549 1 | ), 0),
456 0550 1 | defpwdlength = 6, | default min password length
457 0551 1 | defpwdlife = uplit (0,0), | default password lifetime
458 0552 1 |
459 0553 1 | The following are the default values for the SYSTEM user. When
460 0554 1 | a new file is created, a system manager record is created.
461 0555 1 |
462 0556 1 | sysuser = cstring ('SYSTEM'),
463 0557 1 | syspass = cstring ('MANAGER'),
464 0558 1 | sysclitabl = cstring ('DCLTABLES'),
465 0559 1 | sysact = cstring ('SYSTEM'),
466 0560 1 | syscli = cstring ('DCL'),

```

```

: 467      0561 1      sysowner      = cstring ('SYSTEM MANAGER'),
: 468      0562 1      syslgicmd     = cstring (''),
: 469      0563 1      sysgrp       = %0'1',
: 470      0564 1      system      = %0'4',
: 471      0565 1      sysdir      = cstring ('[SYSMGR]'),
: 472      0566 1      sysdev      = cstring (''),
: 473      0567 1      sysbiolm    = 12,
: 474      0568 1      sysbytlm    = 20480,
: 475      0569 1      sysdiolm    = 12,
: 476      0570 1      sysfillm    = 20,
: 477      0571 1      sysflags    = 0,
: 478      0572 1      systqcnt    = 20,
: 479      0573 1      sysprcnt    = 10,
: 480      0574 1      syspri      = 4,
: 481      0575 1      sysquepri    = 4,
: 482      0576 1      syswsquota  = 350,
: 483      0577 1      syswsextent = 1024,
: 484      0578 1      sysdfwscnt = 150,
: 485      0579 1      syscputim   = 0,
: 486      0580 1      sysastlm    = 20,
: 487      0581 1      syspgflquota = 10000,
: 488      0582 1      sysenqlm    = 20,
: 489      0583 1      syspbytlm   = 0,
: 490      0584 1      sysshrfillm = 0,
: 491      0585 1      sysmaxjobs  = 0,
: 492      0586 1      sysmaxdetach = 0,
: 493      0587 1      sysjtquota  = 1024,
: 494      0588 1      sysmaxacctjobs = 0,
: 495      0589 2      sysprimedays = (
: 496      0590 2          ! Sat, Sun are default non-prime days
: 497      0591 3          (1 ^ $bitposition (uaf$v_saturday)) or
: 498      0592 1          (1 ^ $bitposition (uaf$v_sunday))
: 499      0593 1          ),
: 500      0594 1      syshours    = 0,
: 501      0595 1      syspriv     = uplit (rep 2 of (%x'FFFFFFFF')),
: 502      0596 1      syspwdlength = 8,          ! default min password length
: 503      0597 1      syspwdlife  = uplit (0,0);    ! default password lifetime
: 504      0598 1
: 505      0599 1      ! GLOBAL STORAGE - must be before OWN for initialization purposes
: 506      0600 1
: 507      0601 1      global
: 508      0602 1      disbuf      : vector [disbuflen, byte], ! display buffer
: 509      0603 1      disdsc     : block [8, byte] initial (disbuflen, disbuflen) ;
: 510      0604 1
: 511      0605 1
: 512      0606 1      ! OWN STORAGE:
: 513      0607 1
: 514      0608 1      ! own
: 515      0609 1      username_buf : block [uaf$s_username, byte],
: 516      0610 1      pcb_sts     : bitvector [32],
: 517      0611 1      pid,
: 518      0612 1      username_dsc : vector [2] initial (0, username_buf),
: 519      0613 1      recname_dsc  : vector [2],
: 520      0614 1      file_dsc    : vector [2] initial (6),
: 521      0615 1      mod_default, ! DEFAULT record being modified by MODIFY command
: 522      0616 1      modify_flag, : long,          ! SYSUAF modified
: 523      0617 1      netuaf_modified, ! NETUAF modified

```

```

: 524      0618 1      rename_ph2      : byte initial (false),
: 525      0619 1      olduserlen     : long,
: 526      0620 1      oldusername    : vector [uaf$s_username,byte],
: 527      0621 1      newuserlen     : long,
: 528      0622 1      newusername    : vector [uaf$s_username,byte],
: 529      0623 1      cmdbuf         : vector [cmdbuf$len, byte], ! command buffer
: 530      0624 1      default_size   : word,
: 531      0625 1      default_record  : block [uaf$c_length, byte], ! default record held here
: 532      0626 1      pwddsc        : block [8, byte],           ! password descriptor
: 533      0627 1      insize         : long,                     ! number of input chars
: 534      0628 1      brief_flag     : long,                     ! display option
: 535      0629 1      full_flag      : long,                     ! display option
: 536      0630 1      header_flag    : long,                     ! output header or not?
: 537      0631 1
: 538      0632 1
: 539      P 0633 1      infab       : $fab (                   ! FAB for terminal I/O
: 540      P 0634 1      fac = (get, put),
: 541      P 0635 1      rat = :r,
: 542      P 0636 1      fnm = 'SYS$INPUT'
: 543      0637 1      ),
: 544      0638 1
: 545      P 0639 1      inrab       : $rab (                   ! RAB for terminal I/O
: 546      P 0640 1      rac = seq,
: 547      P 0641 1      rop = pmt,
: 548      P 0642 1      fab = infab
: 549      0643 1      ),
: 550      0644 1
: 551      P 0645 1      outfab      : $fab (
: 552      P 0646 1      fac = (put),
: 553      P 0647 1      rat = cr,
: 554      P 0648 1      fnm = 'SYS$OUTPUT'
: 555      0649 1      ),
: 556      0650 1
: 557      0651 1      lstnam       : $nam (,                   ! needed for the DLT option
: 558      0652 1
: 559      P 0653 1      lstpro      : $xabpro (
: 560      P 0654 1      pro = (rwd,rwd,rw)
: 561      0655 1      ),
: 562      0656 1
: 563      P 0657 1      lstfab      : $fab (                   ! FAB for UAF listing file
: 564      P 0658 1      fac = put,
: 565      P 0659 1      rat = cr,
: 566      P 0660 1      fnm = 'SYSUAF.LIS',
: 567      P 0661 1      shr = nil,
: 568      P 0662 1      org = seq,
: 569      P 0663 1      rfm = var,
: 570      P 0664 1      mrs = disbuf$len,
: 571      P 0665 1      nam = lstnam,
: 572      P 0666 1      xab = lstpro
: 573      0667 1      ),
: 574      0668 1
: 575      P 0669 1      lstrab     : $rab (                   ! RAB for UAF listing file
: 576      P 0670 1      rac = seq,
: 577      P 0671 1      rbf = disbuf,
: 578      P 0672 1      fab = lstfab
: 579      0673 1      ),
: 580      0674 1

```

```

: 581      0675  1
: 582      0676  1
: 583      P 0677  1
: 584      P 0678  1
: 585      0679  1
: 586      0680  1
: 587      P 0681  1
: 588      P 0682  1
: 589      P 0683  1
: 590      P 0684  1
: 591      P 0685  1
: 592      P 0686  1
: 593      P 0687  1
: 594      P 0688  1
: 595      P 0689  1
: 596      P 0690  1
: 597      0691  1
: 598      0692  1
: 599      P 0693  1
: 600      P 0694  1
: 601      P 0695  1
: 602      P 0696  1
: 603      0697  1
: 604      0698  1
: 605      P 0699  1
: 606      P 0700  1
: 607      P 0701  1
: 608      P 0702  1
: 609      P 0703  1
: 610      P 0704  1
: 611      0705  1
: 612      0706  1
: 613      P 0707  1
: 614      P 0708  1
: 615      P 0709  1
: 616      P 0710  1
: 617      P 0711  1
: 618      P 0712  1
: 619      P 0713  1
: 620      0714  1
: 621      0715  1
: 622      P 0716  1
: 623      P 0717  1
: 624      P 0718  1
: 625      P 0719  1
: 626      P 0720  1
: 627      0721  1
: 628      0722  1
: 629      P 0723  1
: 630      P 0724  1
: 631      P 0725  1
: 632      0726  1
: 633      0727  1
: 634      P 0728  1
: 635      P 0729  1
: 636      P 0730  1
: 637      P 0731  1

```

```

nlstnam : $nam (,
nlstpro : $xabpro (
    pro = (rwd,rwd,rw)
),
nlstfab : $fab (
    ! FAB for NETUAF Listing file
    fac = put,
    rat = cr,
    fnm = 'NETUAF.LIS',
    shr = nil,
    org = seq,
    rfm = var,
    mrs = disbufen,
    nam = nlstnam,
    xab = nlstpro
),
nlstrab : $rab (
    ! RAB for NETUAF Listing file
    rac = seq,
    rbf = disbuf,
    fab = nlstfab
),
uafkey2 : $xabkey (
    ! XAB for User number key
    ! alternate key
    kref = 2,
    pos0 = $byteoffset (uaf$w_mem),
    siz0 = 2,
    dtp = bn2,
    flg = (chg,dup)
),
uafkey1 : $xabkey (
    ! XAB for Group number key
    ! alternate key
    kref = 1,
    pos0 = $byteoffset (uaf$l_uic),
    siz0 = 4,
    dtp = bn4,
    flg = (chg,dup),
    nxt = uafkey2
),
uafkey0 : $xabkey (
    ! XAB for USERNAME key
    ! primary key
    kref = 0,
    pos0 = $byteoffset (uaf$t_username),
    siz0 = uaf$s_username,
    nxt = uafkey1
),
uafpro : $xabpro (
    ! XAB for file protection
    ! deny world access
    pro = (rwd, rwd),
    nxt = uafkey0
),
uaffab : $fab (
    ! FAB for work file
    fop = cif,
    fac = (get, put, del, upd),
    fnm = 'SYSUAF',

```

```

638 P 0732 1 dnm = '.DAT',
639 P 0733 1 shr = (get, put, del, upd),
640 P 0734 1 org = idx,
641 P 0735 1 rfm = var,
642 P 0736 1 mrs = uaf$c_length,
643 P 0737 1 alq = 10,
644 P 0738 1 deq = 10,
645 P 0739 1 xab = uafpro
646 0740 1 ),
647 0741 1
648 0742 1 ! FAB for NETUAF Proxy Login File
649 0743 1
650 0744 1
651 P 0745 1 nafkey1 : $xabkey (
652 P 0746 1 kref = 1,
653 P 0747 1 pos0 = $byteoffset (naf$t_localuser),
654 P 0748 1 siz0 = naf$s_localuser,
655 P 0749 1 flg = (chg,dup)
656 0750 1 ),
657 0751 1
658 P 0752 1 nafkey0 : $xabkey (
659 P 0753 1 kref = 0,
660 P 0754 1 pos0 = $byteoffset (naf$t_remname),
661 P 0755 1 siz0 = naf$s_remname,
662 P 0756 1 nxt = nafkey1
663 0757 1 ),
664 0758 1
665 P 0759 1 nafpro : $xabpro (
666 P 0760 1 pro = (rwd, rwd),
667 P 0761 1 nxt = nafkey0
668 0762 1 ),
669 0763 1
670 P 0764 1 naffab : $fab ( ! FAB for NETUAF
671 P 0765 1 fop = cif,
672 P 0766 1 fac = (get, put, del, upd),
673 P 0767 1 fnm = 'NETUAF',
674 P 0768 1 dnm = '.DAT',
675 P 0769 1 shr = (get, put, del, upd),
676 P 0770 1 org = idx,
677 P 0771 1 rfm = fix,
678 P 0772 1 mrs = naf$c_length,
679 P 0773 1 alq = 10,
680 P 0774 1 deq = 10,
681 P 0775 1 xab = nafpro
682 0776 1 );
683 0777 1
684 0778 1
685 0779 1 ! GLOBAL STORAGE:
686 0780 1
687 0781 1 global
688 0782 1 faodsc : block [8, byte], ! gen'l purpose fao string desc
689 0783 1 rabptr : ref block [rab$c_bln, byte], ! RAB for output
690 0784 1 uaf$gq_sysuaff : block [nsa_s_sysuaff, byte], ! SYSUAF auditing flags
691 0785 1 uaf$gl_tlmsk : block [2], ! Control mask for AUTHORIZE
692 0786 1 by_account : long initial (false), ! processing by account
693 0787 1 match_token : vector [naf$s_remname+2, byte], ! Saved match token
694 0788 1 match_tokenlen : long,

```

```

: 695      0789 1      wild_netuser,      ! wildcard access to proxy entries
: 696      0790 1      call_count      : long initial (0),      ! counter for reprocessing cmd line
: 697      0791 1      tokendsc      : block [8, byte] preset ([dsc$b_class]=dsc$b_class_d),
:001 **NEW** 0792 1      cmdlindsc      : block [DSC$b_DBLN, byte]
:002 **NEW** 0793 1      preset([DSC$b_[CLASS] = DSC$b_(LASS D),
:699-1     0794 1      netuaf_exists,      ! A self-explanatory flag...
:700      0795 1      rdb_exists      : long,
:701      0796 1      rmserr      : long,      ! save rms error codes here
:702      0797 1      rightslist_modified : byte,      ! RIGHTSLIST modified flag
:703      0798 1
:704      0799 1      Record buffer for file I/O. Records are generally read into RECBUF,
:705      0800 1      modified, and output.
:706      0801 1
:707      0802 1      recbuf      : block [uaf$c_length, byte],
:708      0803 1      netbuf      : block [naf$c_length, byte],
:709      0804 1
:710      0805 1      UAFRAB is global to allow UPDATE_RECORD to modify RAB$W_RSZ.
:711      0806 1
:712      P 0807 1      uafrab : $rab (! RAB for work file
:713      P 0808 1      krf = 0,
:714      P 0809 1      kbf = recbuf [uaf$t_username],
:715      P 0810 1      ksz = uaf$s_username,
:716      P 0811 1      usz = uaf$c_length,
:717      P 0812 1      fab = uaffab
:718      0813 1      ),
:719      0814 1
:720      0815 1      RAB for NETUAF Proxy Login File
:721      0816 1
:722      P 0817 1      nafrab : $rab (
:723      P 0818 1      krf = 0,
:724      P 0819 1      kbf = netbuf [naf$t_remname],
:725      P 0820 1      ksz = naf$s_remname,
:726      P 0821 1      usz = naf$c_length,
:727      P 0822 1      rsz = naf$c_length,
:728      P 0823 1      rac = key,
:729      P 0824 1      rab = naf$fab
:730      0825 1      ),
:731      0826 1
:732      0827 1
:733      0828 1      time_buf      : block [8,byte],      ! current system time
:734      0829 1      pwd_flag      : long,      ! Password default flag
:735      0830 1
:736      P 0831 1      outrab : $rab (
:737      P 0832 1      rac = seq,
:738      P 0833 1      rbf = disbuf,
:739      P 0834 1      fab = outfab
:740      0835 1      ),
:741      0836 1
:742      0837 1
:743      0838 1      Flag signaling to WILD_USER that a match was found. This flag
:744      0839 1      is set by the action routine called by WILD_USER.
:745      0840 1
:746      0841 1      found_match,      ! found at least one wildcard match
:747      0842 1
:748      0843 1
:749      0844 1      Wildcard parsing flags set by PARSE_WILD for use in WILD_USER.
:750      0845 1

```



```

: 751      0846 1          uic_flag      : long,
: 752      0847 1          grp_wild     : long,
: 753      0848 1          mem_wild     : long,
: 754      0849 1          str_wild     : long;
: 755      0850 1
: 756      0851 1 global bind
: 757      0852 1          tokenlen     = tokendsc [dsc$w_length] : word,
: 758      0853 1          tokenptr     = tokendsc [dsc$a_pointer],
: 759      0854 1          rec_user_dsc = uplit (uaf$s_username, recbuf [uaf$t_username]),
: 760      0855 1          rec_encrypt_dsc = uplit (uaf$s_pwd, recbuf [uaf$g_pwd]),
: 761      0856 1          symbol_str   = cstring ('ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789$');
: 762      0857 1          ! valid username characters
: 763      0858 1
: 764      0859 1          :
: 765      0860 1          Prompt strings
: 766      0861 1          :
: 767      0862 1          :
: 768      0863 1 bind
: 769      0864 1
: 770      0865 1          accprmt      = cstring (%char (lf), 'UAF> '),
: 771      0866 1          accprmt2    = cstring (%char (lf), '- '),
: 772      0867 1          newmsg20    = cstring ('Do you want to create a new file? ');
: 773      0868 1
: 774      0869 1          :
: 775      0870 1          External messages
: 776      0871 1          :
: 777      0872 1          :
: 778      0873 1 external routine
: 779      0874 1
: 780      0875 1          LIB$SIGNAL;
: 781      0876 1
: 782      0877 1 external literal
: 783      0878 1
: 784      0879 1          UAF$_ADDERR,      UAF$_ADDMSG,      UAF$_BADNODFORM,
: 785      0880 1          UAF$_BADSPC,      UAF$_BADUSR,      UAF$_CLIWARNMSG,
: 786      0881 1          UAF$_CMDTOOLONG,   UAF$_CONERR,      UAF$_COPMSG,
: 787      0882 1          UAF$_CREERR,      UAF$_DEFERR,      UAF$_DEFPWD,
: 788      0883 1          UAF$_DONEMSG,      UAF$_GETERR,      UAF$_HELPERR,
: 789      0884 1          UAF$_INVCMD,      UAF$_INVRSP,      UAF$_INVUSERNAME,
: 790      0885 1          UAF$_KEYNOTFND,    UAF$_KEYNOTUNQ,   UAF$_LSTERR,
: 791      0886 1          UAF$_LSTMSG1,      UAF$_LSTMSG2,     UAF$_MDFYERR,
: 792      0887 1          UAF$_MDFYMSG,      UAF$_NAFADDERR,   UAF$_NAFADDMSG,
: 793      0888 1          UAF$_NAFAEX,      UAF$_NAFCONERR,   UAF$_NAFCREERR,
: 794      0889 1          UAF$_NAFDNE,      UAF$_NAFDONEMSG,  UAF$_NAFNOMODS,
: 795      0890 1          UAF$_NAFUAEERR,    UAF$_NAMETOOBIG,  UAF$_NETLSTMSG,
: 796      0891 1          UAF$_NAOJL,      UAF$_NAONAF,      UAF$_NOARG,
: 797      0892 1          UAF$_NODEFPWD,    UAF$_NODTOOBIG,   UAF$_NOMODS,
: 798      0893 1          UAF$_NOTUNQ,      UAF$_NOUSERNAME,  UAF$_PREMSG,
: 799      0894 1          UAF$_PUTERR,      UAF$_RDBDONEMSG,  UAF$_RDBMDFYERR,
: 800      0895 1          UAF$_RDBMDFYERRU,  UAF$_RDBMDFYMSG,  UAF$_RDBNOMODS,
: 801      0896 1          UAF$_REMDEF,      UAF$_REMERR,      UAF$_REMSG,
: 802      0897 1          UAF$_REMSYS,      UAF$_RENDEF,      UAF$_RENMSG,
: 803      0898 1          UAF$_RENSYS,      UAF$_RONLY,       UAF$_SHOWERR,
: 804      0899 1          UAF$_SYSMSG1,     UAF$_SYSMSG2,     UAF$_UAEERR,
: 805      0900 1          UAF$_UICERR,      UAF$_ZISQUAL,     UAF$_ZZPRACREN;
: 806      0901 1

```

start - controlling code

```

: 808      0902 1 %sbttl 'start - controlling code'
809      0903 1 routine start =
810      0904 2 begin
811      0905 2
812      0906 2 +-
813      0907 2
814      0908 2 FUNCTIONAL DESCRIPTION:
815      0909 2
816      0910 2     Main procedure of AUTHORIZE. Call SETUP to initialize
817      0911 2     all needed files. Prompt the user for the functions which
818      0912 2     he/she wants, and call the proper function service routine.
819      0913 2
820      0914 2 INPUTS:
821      0915 2
822      0916 2     none
823      0917 2
824      0918 2 IMPLICIT INPUTS:
825      0919 2
826      0920 2     none
827      0921 2
828      0922 2 OUTPUTS:
829      0923 2
830      0924 2     None
831      0925 2
832      0926 2 IMPLICIT OUTPUTS:
833      0927 2
834      0928 2     none
835      0929 2
836      0930 2 ROUTINE VALUE:
837      0931 2
838      0932 2     none
839      0933 2
840      0934 2 SIDE EFFECTS:
841      0935 2
842      0936 2     none
843      0937 2 --
844      0938 2
845      0939 2 own
846      0940 2     status;
847      0941 2
854-6    0942 2 rightslist_modified = false;
855      0943 2 netuaf_modified = false;
856      0944 2 modify_flag = false;
857      0945 2
858      0946 2
859      0947 2     Set up terminal I/O
860      0948 2
861      0949 2
862      0950 2 if rmsbad (status = $open (fab = infab))
863      0951 2 then
864      0952 2     signal_stop (.status);
865      0953 2
866      0954 2 if rmsbad (status = $connect (rab = inrab))
867      0955 2 then
868      0956 2     signal_stop (.status);
869      0957 2
870      0958 2 $create (fab = outfab);

```

! note no modifications

```

start - controlling code
: 871      0959 2 $connect (rab = outrab);
: 872      0960
: 873      0961 2 setup ();
: 874      0962
: 875      0963
: 876      0964 2 Files have been initialized. Prompt user for command line
: 877      0965 2 and perform requested function.
: 878      0966
: 879      0967
:001 **NEW** 0968 2 if lib$get_foreign (cmdlindsc) and .cmdlindsc [DSC$W_LENGTH] neq 0
:002 **NEW** 0969 2 then
:003 **NEW** 0970 2
:004 **NEW** 0971 2     If defined foreign, and there are commands on the line...
:005 **NEW** 0972 2
:006 **NEW** 0973 2     begin
:007 **NEW** 0974 2
:008 **NEW** 0975 2         if (status = cli$dcl_parse (cmdlindsc, authorize_commands, 0, LIB$GET_INPUT, %ascid'UAF> '))
:889-9     0976 2         then
:890         0977 2             begin
:891         0978 2                 cli$dispatch ();
:892         0979 2                 return true;
:893         0980 2             end
:894         0981 2         else
:895         0982 2             2 See if no CLINT exists (Kludge City, USA 37916)
:896         0983 2             2
:897         0984 2             if .status eq cli$noclint
:898         0985 2             then
:899         0986 2                 signal_stop (cli$noclint)
:900         0987 2             else
:901         0988 2                 ac$exit ()
:902         0989 2             end;
:903         0990 2         end;
:904         0991 2
:905         0992 2     while true
:906         0993 2     do
:907         0994 2     begin
:908         0995 2
:909         0996 2         2 Input the command line, taking care of continuations. Pull off
:910         0997 2         2 the first token, assuming it is the command name, and look it up
:911         0998 2         2 in the table of commands.
:912         0999 2         2
:913         1000 2
:914         1001 2
:915         1002 2     if get_cmd_line ()
:916         1003 2     then
:001 **NEW** 1004 2         if (status = cli$dcl_parse (cmdlindsc, authorize_commands, 0, LIB$GET_INPUT, %ascid'UAF> '))
:918-1     1005 2         then
:919         1006 2             begin
:920         1007 2                 ch$fill (0, uaf$s_flags, uaf$gl_ctlmsk);
:921         1008 2                 cli$dispatch ();
:922         1009 2             end
:923         1010 2         else
:924         1011 2             if .status eq cli$noclint
:925         1012 2             then
:926         1013 2                 signal_stop (cli$noclint)
:927         1014 2             end;
:928         1015 2         end;

```

start - controlling code

: 929  
: 930  
: 931  
1016 2 return true;  
1017 2  
1018 1 end;

```

.TITLE UAFMAIN
.IDENT \V04-000\
.PSECT SPLITS,NOWRT,NOEXE,2

31 6E 65 68 6F 74 00000 P.AAB: .ASCII \token1\
00006 .BLKB 2
00000006 00008 P.AAA: .LONG 6
00000000 0000C .ADDRESS P.AAB
32 6E 65 68 6F 74 00010 P.AAD: .ASCII \token2\
00016 .BLKB 2
00000006 00018 P.AAC: .LONG 6
00000000 0001C .ADDRESS P.AAD
66 65 69 72 62 00020 P.AAF: .ASCII \brief\
00025 .BLKB 3
00000005 00028 P.AAE: .LONG 5
00000000 0002C .ADDRESS P.AAF
6C 6C 75 66 00030 P.AAH: .ASCII \full\
00000004 00034 P.AAG: .LONG 4
00000000 00038 .ADDRESS P.AAH
72 65 69 66 69 74 6E 65 64 69 5F 64 64 61 0003C F.AAJ: .ASCII \add_identifier\
0004A .BLKB 2
0000000E 0004C P.AAI: .LONG 14
00000000 00050 .ADDRESS P.AAJ
69 66 69 74 6E 65 64 69 5F 65 76 6F 6D 65 72 00054 P.AAL: .ASCII \remove_identifier\
72 65 00063 .BLKB 3
00000011 00068 P.AAK: .LONG 17
00000000 0006C .ADDRESS P.AAL
69 66 69 74 6E 65 64 69 5F 79 66 69 64 6F 6D 00070 P.AAN: .ASCII \modify_identifier\
72 65 0007F .BLKB 3
00000011 00084 P.AAM: .LONG 17
00000000 00088 .ADDRESS P.AAM
6F 73 65 72 2E 73 65 74 75 62 69 72 74 74 61 0008C P.AAO: .ASCII \attributes.resource\
65 63 72 75 00098 .BLKB 1
46 41 55 53 59 53 0009F P.AAP: .ASCII \SYSUAF\
46 41 55 54 45 4E 000A5 P.AAQ: .ASCII \NETUAF\
64 65 69 66 69 64 6F 6D 000AB P.AAS: .ASCII \modified\
000B3 .BLKB 1
00000008 000B4 P.AAR: .LONG 8
00000000 000B8 .ADDRESS P.AAS
64 65 64 64 61 000BC P.AAU: .ASCII \added\
000C1 .BLKB 3
00000005 000C4 P.AAT: .LONG 5
00000000 000C8 .ADDRESS P.AAU
64 65 76 6F 6D 65 72 000CC P.AAW: .ASCII \removed\
000D3 .BLKB 1
00000007 000D4 P.AAV: .LONG 7
00000000 000D8 .ADDRESS P.AAV
53 41 21 20 53 41 21 20 4C 58 21 3D 44 49 50 000DC P.AAY: .ASCII \PID='XL !AS !AS !AS record !AS on !%u\
53 41 21 20 64 72 6F 63 65 72 20 53 41 21 20 000EB

```



```

      46 41 55 54 45 4E 001D9 P.ACE: .ASCII \NETUAF\
      54 41 44 2E 001DF P.ACF: .ASCII \.DATA\
      00000020 001E3 .BLKB 1
      00000000 001E4 P.ACG: .LONG 32
      00000008 001E8 .ADDRESS RECBUF+4
      00000000 001EC P.ACH: .LONG 8
      00000000 001F0 .ADDRESS RECBUF+340
      00000026 001F4 P.ACI: .BYTE 38
      00000026 001F5 .ASCII \ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789$_\
      4F 4E 4D 4C 4B 4A 49 48 47 46 45 44 43 42 41 00204
      33 32 31 30 5A 59 58 57 56 55 54 53 52 51 50 00213
      5F 24 39 38 37 36 35 34 0021B P.ACJ: .BYTE 6
      20 3E 46 41 55 0A 0021C .ASCII <10>\UAF> \
      03 00222 P.ACK: .BYTE 3
      20 5F 0A 00223 .ASCII <10>\_ \
      22 00226 P.ACL: .BYTE 34
      20 6F 74 2C 74 6E 61 77 20 75 6F 79 20 6F 44 00227 .ASCII \Do you want to create a new file? \
      69 66 20 77 65 6E 20 61 20 65 74 61 65 72 63 00236
      20 3F 65 6C 00245
      00000000 00249 .BLKB 3
      00 00 00 20 3E 46 41 55 0024C P.ACN: .ASCII \UAF> \<0><0><0>
      010E0005 00254 P.ACM: .LONG 17694725
      00000000 00258 .ADDRESS P.ACN
      00 00 00 20 3E 46 41 55 0025C P.ACP: .ASCII \UAF> \<0><0><0>
      010E0005 00264 P.ACO: .LONG 17694725
      00000000 00268 .ADDRESS P.ACP

      .PSECT $OWNS.NOEXE,2

      0013 0000 SD_ATTRIBRESOURCE:
      01 0E 00002 .WORD 19
      00000000 00004 .BYTE 14, 1
      00008 USERNAME_BUF:
      .BLKB 32
      00028 PCB_STS: .BLKB 4
      0002C PID: .BLKB 4
      00000000 00030 USERNAME_DSC:
      .LONG 0
      00000000 00034 .ADDRESS USERNAME_BUF
      00038 RECNAME_DSC:
      .BLKB 8
      00000006 00040 FILE_DSC:
      .LONG 6
      00044 .BLKB 4
      00048 MOD_DEFAULT:
      .BLKB 4
      0004C MODIFY_FLAG:
      .BLKB 4
      00050 NETUAF_MODIFIED:
      .BLKB 4
      00 00054 RENAME_PH2:
      .BYTE 0
      00055 .BLKB 3
      00058 OLDUSERLEN:
      .BLKB 4
      0005C OLDUSERNAME:

```

```

                                .BLKB 32
0007C NEWUSERLEN:
                                .BLKB 4
00080 NEWUSERNAME:
                                .BLKB 32
000A0 CMDBUF: .BLKB 1024
004A0 DEFAULT_SIZE:
                                .BLKB 2
004A2 .BLKB 2
004A4 DEFAULT_RECORD:
                                .BLKB 1412
00A28 PWDDSC: .BLKB 8
00A30 INSIZE: .BLKB 4
00A34 BRIEF_FLAG:
                                .BLKB 4
00A38 FULL_FLAG:
                                .BLKB 4
00A3C HEADER_FLAG:
                                .BLKB 4
03 00A40 INFAB: .BYTE 3
50 00A41 .BYTE 80
0000 00A42 .WORD 0
00000000 00A44 .LONG 0
00000000 00A48 .LONG 0
00000000 00A4C .LONG 0
00000000 00A50 .LONG 0
0000 00A54 .WORD 0
03 00A56 .BYTE 3
00 00A57 .BYTE 0
00000000 00A58 .LONG 0
00 00A5C .BYTE 0
00 00A5D .BYTE 0
02 00A5E .BYTE 2
02 00A5F .BYTE 2
00000000 00A60 .LONG 0
00000000 00A64 .LONG 0
00000000 00A68 .LONG 0
00000000 00A6C .ADDRESS P.ABY
00000000 00A70 .LONG 0
09 00A74 .BYTE 9
00 00A75 .BYTE 0
0000 00A76 .WORD 0
00000000 00A78 .LONG 0
0000 00A7C .WORD 0
00 00A7E .BYTE 0
00 00A7F .BYTE 0
00000000 00A80 .LONG 0
00000000 00A84 .LONG 0
0000 00A88 .WORD 0
00 00A8A .BYTE 0
00 00A8B .BYTE 0
00000000 00A8C .LONG 0
01 00A90 INRAB: .BYTE 1
44 00A91 .BYTE 68
0000 00A92 .WORD 0
00000000 00A94 .LONG 1073741824
00000000 00A98 .LONG 0

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```

00000000 00A9C .LONG 0
0000# 00AA0 .WORD 0[3]
0000 00AA6 .WORD 0
00000000 00AA8 .LONG 0
0000 00AAC .WORD 0
00 00AAE .BYTE 0
00 00AAF .BYTE 0
0000 00AB0 .WORD 0
0000 00AB2 .WORD 0
00000000 00AB4 .LONG 0
00000000 00AB8 .LONG 0
00000000 00ABC .LONG 0
00000000 00AC0 .LONG 0
00 00AC4 .BYTE 0
00 00AC5 .BYTE 0
00 00AC6 .BYTE 0
00 00AC7 .BYTE 0
00000000 00AC8 .LONG 0
00000000 00ACC .ADDRESS INFAB
00000000 00AD0 .LONG 0
03 00AD4 OUTFAB: .BYTE 3
50 00AD5 .BYTE 80
0000 00AD6 .WORD 0
00000000 00AD8 .LONG 0
00000000 00ADC .LONG 0
00000000 00AE0 .LONG 0
00000000 00AE4 .LONG 0
0000 00AEB .WORD 0
01 00AEA .BYTE 1
00 00AEB .BYTE 0
00000000 00AEC .LONG 0
00 00AF0 .BYTE 0
00 00AF1 .BYTE 0
02 00AF2 .BYTE 2
02 00AF3 .BYTE 2
00000000 00AF4 .LONG 0
00000000 00AF8 .LONG 0
00000000 00AFC .LONG 0
00000000 00B00 .ADDRESS P.ABZ
00000000 00B04 .LONG 0
0A 00B08 .BYTE 10
00 00B09 .BYTE 0
0000 00B0A .WORD 0
00000000 00B0C .LONG 0
0000 00B10 .WORD 0
00 00B12 .BYTE 0
00 00B13 .BYTE 0
00000000 00B14 .LONG 0
00000000 00B18 .LONG 0
0000 00B1C .WORD 0
00 00B1E .BYTE 0
00 00B1F .BYTE 0
00000000 00B20 .LONG 0
02 00B24 LSTNAM: .BYTE 2
60 00B25 .BYTE 96
00 00B26 .BYTE 0
00 00B27 .BYTE 0

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```

00000000 00B28 .LONG 0
      00 00B2C .BYTE 0
      00 00B2D .BYTE 0
      00 00B2E .BYTE 0
      00 00B2F .BYTE 0
00000000 00B30 .LONG 0
00000000 00B34 .LONG 0
      0000# 00B38 .WORD 0[8]
      0000# 00B48 .WORD 0[3]
      0C00# 00B4E .WORD 0[3]
00000000 00B54 .LONG 0
00000000 00B58 .LONG 0
      00 00B5C .BYTE 0
      00 00B5D .BYTE 0
      00 00B5E .BYTE 0
      00 00B5F .BYTE 0
      00 00B60 .BYTE 0
      00 00B61 .BYTE 0
      00# 00B62 .BYTE 0[2]
00000000 00B64 .LONG 0
00000000 00B68 .LONG 0
00000000 00B6C .LONG 0
00000000 00B70 .LONG 0
00000000 00B74 .LONG 0
00000000 00B78 .LONG 0
00000000# 00B7C .LONG 0[2]
      13 00B84 LSTPRO: .BYTE 19
      58 00B85 .BYTE 88
      0000 00B86 .WORD 0
00000000 00B88 .LONG 0
      FC44 00B8C .WORD -956
      00 00B8E .BYTE 0
      00 00B8F .BYTE 0
0000 0000 00B90 .WORD 0, 0
      00 00B94 .BYTE 0
      00 00B95 .BYTE 0
      0000 00B96 .WORD 0
00000000 00B98 .LONG 0
00000000 00B9C .LONG 0
      0000 00BA0 .WORD 0
      0000 00BA2 .WORD 0
00000000 00BA4 .LONG 0
00000000 00BA8 .LONG 0
      00BAC .BLKB 48
      03 00BDC LSTFAB: .BYTE 3
      50 00BDD .BYTE 80
      0000 00BDE .WORD 0
00000000 00BE0 .LONG 0
00000000 00BE4 .LONG 0
00000000 00BE8 .LONG 0
00000000 00BEC .LONG 0
      0000 00BF0 .WORD 0
      01 00BF2 .BYTE 1
      20 00BF3 .BYTE 32
00000000 00BF4 .LONG 0
      00 00BF8 .BYTE 0
      00 00BF9 .BYTE 0

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02 00BFA .BYTE 2
02 00BFB .BYTE
00000000 00BFC .LONG 0
00000000 00C00 .ADDRESS LSTPRO
00000000 00C04 .ADDRESS LSTNAM
00000000 00C08 .ADDRESS P.ACA
00000000 00C0C .LONG 0
0A 00C10 .BYTE 10
00 00C11 .BYTE 0
0084 00C12 .WORD 132
00000000 00C14 .LONG 0
0000 00C18 .WORD 0
00 00C1A .BYTE 0
00 00C1B .BYTE 0
00000000 00C1C .LONG 0
00000000 00C20 .LONG 0
0000 00C24 .WORD 0
00 00C26 .BYTE 0
00 00C27 .BYTE 0
00000000 00C28 .LONG 0
01 00C2C LSTRAB: .BYTE 1
44 00C2D .BYTE 68
0000 00C2E .WORD 0
00000000 00C30 .LONG 0
00000000 00C34 .LONG 0
00000000 00C38 .LONG 0
0000# 00C3C .WORD 0[3]
0000 00C42 .WORD 0
00000000 00C44 .LONG 0
0000 00C48 .WORD 0
00 00C4A .BYTE 0
00 00C4B .BYTE 0
0000 00C4C .WORD 0
0000 00C4E .WORD 0
00000000 00C50 .LONG 0
00000000 00C54 .ADDRESS DISBUF
00000000 00C58 .LONG 0
00000000 00C5C .LONG 0
00 00C60 .BYTE 0
00 00C61 .BYTE 0
00 00C62 .BYTE 0
00 00C63 .BYTE 0
00000000 00C64 .LONG 0
00000000 00C68 .ADDRESS LSTFAB
00000000 00C6C .LONG 0
02 00C70 NLSTNAM: .BYTE 2
60 00C71 .BYTE 96
00 00C72 .BYTE 0
00 00C73 .BYTE 0
00000000 00C74 .LONG 0
00 00C78 .BYTE 0
00 00C79 .BYTE 0
00 00C7A .BYTE 0
00 00C7B .BYTE 0
00000000 00C7C .LONG 0
00000000 00C80 .LONG 0
0000# 00C84 .WORD 0[8]

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```

0000# 00C94      .WORD 0[3]
0000# 00C9A      .WORD 0[3]
00000000 00CA0      .LONG 0
00000000 00CA4      .LONG 0
      00 00CAB      .BYTE 0
      00 00CA9      .BYTE 0
      00 00CAA      .BYTE 0
      00 00CAB      .BYTE 0
      00 00CAC      .BYTE 0
      00 00CAD      .BYTE 0
      00# 00CAE      .BYTE 0[2]
00000000 00CB0      .LONG 0
00000000 00CB4      .LONG 0
00000000 00CB8      .LONG 0
00000000 00CBC      .LONG 0
00000000 00CC0      .LONG 0
00000000 00CC4      .LONG 0
00000000# 00CC8      .LONG 0[2]
      13 00CD0 NLSTPRO: .BYTE 19
      58 00CD1      .BYTE 88
      0000 00CD2      .WORD 0
00000000 00CD4      .LONG 0
      FC44 00CDB      .WORD -956
      00 00CDA      .BYTE 0
      00 00CDB      .BYTE 0
0000 0000 00CDC      .WORD 0, 0
      00 00CE0      .BYTE 0
      00 00CE1      .BYTE 0
      0000 00CE2      .WORD 0
00000000 00CE4      .LONG 0
00000000 00CE8      .LONG 0
      0000 00CEC      .WORD 0
      0000 00CEE      .WORD 0
00000000 00CF0      .LONG 0
00000000 00CF4      .LONG 0
      00CF8      .BLKB 48
      03 00D28 NLSTFAB: .BYTE 3
      50 00D29      .BYTE 80
      0000 00D2A      .WORD 0
00000000 00D2C      .LONG 0
00000000 00D30      .LONG 0
00000000 00D34      .LONG 0
00000000 00D38      .LONG 0
      0000 00D3C      .WORD 0
      01 00D3E      .BYTE 1
      20 00D3F      .BYTE 32
00000000 00D40      .LONG 0
      00 00D44      .BYTE 0
      00 00D45      .BYTE 0
      02 00D46      .BYTE 2
      02 00D47      .BYTE 2
00000000 00D48      .LONG 0
00000000 00D4C      .ADDRESS NLSTPRO
00000000 00D50      .ADDRESS NLSTNAM
00000000 00D54      .ADDRESS P.ACB
00000000 00D58      .LONG 0
      0A 00D5C      .BYTE 10

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```

00 00D5D .BYTE 0
0084 00D5E .WORD 132
00000000 00D60 .LONG 0
0000 00D64 .WORD 0
00 00D66 .BYTE 0
00 00D67 .BYTE 0
00000000 00D68 .LONG 0
00000000 00D6C .LONG 0
0000 00D70 .WORD 0
00 00D72 .BYTE 0
00 00D73 .BYTE 0
00000000 00D74 .LONG 0
01 00D78 NLSTRAB: .BYTE 1
44 00D79 .BYTE 68
0000 00D7A .WORD 0
00000000 00D7C .LONG 0
00000000 00D80 .LONG 0
00000000 00D84 .LONG 0
0000# 00D88 .WORD 0[3]
0000 00D8E .WORD 0
00000000 00D90 .LONG 0
0000 00D94 .WORD 0
00 00D96 .BYTE 0
00 00D97 .BYTE 0
0000 00D98 .WORD 0
0000 00D9A .WORD 0
00000000 00D9C .LONG 0
00000000 00DA0 .ADDRESS DISBUF
00000000 00DA4 .LONG 0
0000000C 00DAB .LONG 0
00 00DAC .BYTE 0
00 00DAD .BYTE 0
00 00DAE .BYTE 0
00 00DAF .BYTE 0
00000000 00DB0 .LONG 0
00000000 00DB4 .ADDRESS NLSTFAB
00000000 00DB8 .LONG 0
15 00DBC UAFKEY2: .BYTE 21
4C 00DBD .BYTE 76
0000 00DBE .WORD 0
00000000 00DC0 .LONG 0
00 00DC4 .BYTE 0
00 00DC5 .BYTE 0
00 00DC6 .BYTE 0
00 00DC7 .BYTE 0
00 00DC8 .BYTE 0
00 00DC9 .BYTE 0
00000000 00DCA .LONG 0
03 00DCE .BYTE 3
02 00DCF .BYTE 2
00 00DD0 .BYTE 0
00 00DD1 .BYTE 0
00 00DD2 .BYTE 0
02 00DD3 .BYTE 2
0000 00DD4 .WORD 0
0000 00DD6 .WORD 0
0000 00DD8 .WORD 0

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0024	00DDA	.WORD	36
0000	00DDC	.WORD	0
0000	00DDE	.WORD	0
0000	00DE0	.WORD	0
0000	00DE2	.WORD	0
0000	00DE4	.WORD	0
0000	00DE6	.WORD	0
0000	00DE8	.WORD	0
02	00DEA	.BYTE	2
00	00DEB	.BYTE	0
00	00DEC	.BYTE	0
00	00DED	.BYTE	0
00	00DEE	.BYTE	0
00	00DEF	.BYTE	0
00	00DF0	.BYTE	0
00	00DF1	.BYTE	0
0000	00DF2	.WORD	0
00000000	00DF4	.LONG	0
00000000	00DF8	.LONG	0
00	00DFC	.BYTE	0
00	00DFD	.BYTE	0
00	00DFE	.BYTE	0
00	00DFE	.BYTE	0
00	00DFE	.BYTE	0
00	00E00	.BYTE	0
00	00E01	.BYTE	0
00	00E02	.BYTE	0
00	00E03	.BYTE	0
00	00E04	.BYTE	0
00	00E05	.BYTE	0
15	00E06	.BLKB	2
4C	00E08	.BYTE	21
0000	00E09	.BYTE	76
00000000	00E0A	.WORD	0
00000000	00E0C	.ADDRESS	UAFKEY2
00	00E10	.BYTE	0
00	00E11	.BYTE	0
00	00E12	.BYTE	0
00	00E13	.BYTE	0
00	00E14	.BYTE	0
00	00E15	.BYTE	0
00000000	00E16	.LONG	0
03	00E1A	.BYTE	3
04	00E1B	.BYTE	4
00	00E1C	.BYTE	0
00	00E1D	.BYTE	0
00	00E1E	.BYTE	0
01	00E1F	.BYTE	1
0000	00E20	.WORD	0
0000	00E22	.WORD	0
0000	00E24	.WORD	0
0024	00E26	.WORD	36
0000	00E28	.WORD	0
0000	00E2A	.WORD	0
0000	00E2C	.WORD	0
0000	00E2E	.WORD	0
0000	00E30	.WORD	0
0000	00E32	.WORD	0

UAFKEY1:

UAFKEY2

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.....

0000	00E34		.WORD	0
04	00E36		.BYTE	4
00	00E37		.BYTE	0
00	00E38		.BYTE	0
00	00E39		.BYTE	0
00	00E3A		.BYTE	0
00	00E3B		.BYTE	0
00	00E3C		.BYTE	0
00	00E3D		.BYTE	0
0000	00E3E		.WORD	0
00000000	00E40		.LCNG	0
00000000	00E44		.LONG	0
00	00E48		.BYTE	0
00	00E49		.BYTE	0
00	00E4A		.BYTE	0
00	00E4B		.BYTE	0
00	00E4C		.BYTE	0
00	00E4D		.BYTE	0
00	00E4E		.BYTE	0
00	00E4F		.BYTE	0
00	00E50		.BYTE	0
00	00E51		.BYTE	0
	00E52		.BLKB	2
15	00E54	UAFKEY0:	.BYTE	21
4C	00E55		.BYTE	76
0000	00E56		.WORD	0
00000000	00F58		.ADDRESS	UAFKEY1
00	00E5C		.BYTE	0
00	00E5D		.BYTE	0
00	00E5E		.BYTE	0
00	00E5F		.BYTE	0
00	00E60		.BYTE	0
00	00E61		.BYTE	0
00000000	00E62		.LONG	0
00	00E66		.BYTE	0
00	00E67		.BYTE	0
00	00E68		.BYTE	0
00	00E69		.BYTE	0
00	00E6A		.BYTE	0
00	00E6B		.BYTE	0
0000	00E6C		.WORD	0
0000	00E6E		.WORD	0
0000	00E70		.WORD	0
0004	00E72		.WORD	4
0000	00E74		.WORD	0
0000	00E76		.WORD	0
0000	00E78		.WORD	0
0000	00E7A		.WORD	0
0000	00E7C		.WORD	0
0000	00E7E		.WORD	0
0000	00E80		.WORD	0
20	00E82		.BYTE	32
00	00E83		.BYTE	0
00	00E84		.BYTE	0
00	00E85		.BYTE	0
00	00E86		.BYTE	0
00	00E87		.BYTE	0

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```

00 00E88 .BYTE 0
00 00E89 .BYTE 0
0000 00E8A .WORD 0
00000000 00E8C .LONG 0
00000000 00E90 .LONG 0
00 00E94 .BYTE 0
00 00E95 .BYTE 0
00 00E96 .BYTE 0
00 00E97 .BYTE 0
00 00E98 .BYTE 0
00 00E99 .BYTE 0
00 00E9A .BYTE 0
00 00E9B .BYTE 0
00 00E9C .BYTE 0
00 00E9D .BYTE 0
00 00E9E .BLKB 2
13 00EA0 UAFPRO: .BYTE 19
58 00EA1 .BYTE 88
0000 00EA2 .WORD 0
00000000 00EA4 .ADDRESS UAFKEY0
FF00 00EA8 .WORD -256
00 00EAA .BYTE 0
00 00EAB .BYTE 0
0000 0000 00EAC .WORD 0
00 00EB0 .BYTE 0
00 00EB1 .BYTE 0
0000 00EB2 .WORD 0
00000000 00EB4 .LONG 0
00000000 00EB8 .LONG 0
0000 00EBC .WORD 0
0000 00EBE .WORD 0
00000000 00EC0 .LONG 0
00000000 00EC4 .LONG 0
00 00EC8 .BLKB 48
03 00EF8 UAFFAB: .BYTE 3
50 00EF9 .BYTE 80
0000 00EFA .WORD 0
02000000 00EFC .LONG 33554432
00000000 00F00 .LONG 0
00000000 00F04 .LONG 0
0000000A 00F08 .LONG 10
000A 00F0C .WORD 10
0F 00F0E .BYTE 15
0F 00F0F .BYTE 15
00000000 00F10 .LONG 0
00 00F14 .BYTE 0
20 00F15 .BYTE 32
00 00F16 .BYTE 0
02 00F17 .BYTE 2
00000000 00F18 .LONG 0
00000000 00F1C .ADDRESS UAFPRO
00000000 00F20 .LONG 0
00000000 00F24 .ADDRESS P.ACC
00000000 00F28 .ADDRESS P.ACD
06 00F2C .BYTE 6
04 00F2D .BYTE 4
U584 00F2E .WORD 1412

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00000000	00F30	.LONG	0
0000	00F34	.WORD	0
00	00F36	.BYTE	0
00	00F37	.BYTE	0
00000000	00F38	.LONG	0
00000000	00F3C	.LONG	0
0000	00F40	.WORD	0
00	00F42	.BYTE	0
00	00F43	.BYTE	0
00000000	00F44	.LONG	0
15	00F48	NAFKEY1: .BYTE	21
4C	00F49	.BYTE	76
0000	00F4A	.WORD	0
00000000	00F4C	.LONG	0
00	00F50	.BYTE	0
00	00F51	.BYTE	0
00	00F52	.BYTE	0
00	00F53	.BYTE	0
00	00F54	.BYTE	0
00	00F55	.BYTE	0
00000000	00F56	.LONG	0
03	00F5A	.BYTE	3
00	00F5B	.BYTE	0
00	00F5C	.BYTE	0
00	00F5D	.BYTE	0
00	00F5E	.BYTE	0
01	00F5F	.BYTE	1
0000	00F60	.WORD	0
0000	00F62	.WORD	0
0000	00F64	.WORD	0
0040	00F66	.WORD	64
0000	00F68	.WORD	0
0000	00F6A	.WORD	0
0000	00F6C	.WORD	0
0000	00F6E	.WORD	0
0000	00F70	.WORD	0
0000	00F72	.WORD	0
0000	00F74	.WORD	0
20	00F76	.BYTE	32
00	00F77	.BYTE	0
00	00F78	.BYTE	0
00	00F79	.BYTE	0
00	00F7A	.BYTE	0
00	00F7B	.BYTE	0
00	00F7C	.BYTE	0
00	00F7D	.BYTE	0
0000	00F7E	.WORD	0
00000000	00F80	.LONG	0
00000000	00F84	.LONG	0
00	00F88	.BYTE	0
00	00F89	.BYTE	0
00	00F8A	.BYTE	0
00	00F8B	.BYTE	0
00	00F8C	.BYTE	0
00	00F8D	.BYTE	0
00	00F8E	.BYTE	0
00	00F8F	.BYTE	0

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```

00 00F90 .BYTE 0
00 00F91 .BYTE 0
00 00F92 .BLKB 2
15 00F94 NAFKEY0: .BYTE 21
4C 00F95 .BYTE 76
0000 00F96 .WORD 0
00000000 00F98 .ADDRESS NAFKEY1
00 00F9C .BYTE 0
00 00F9D .BYTE 0
00 00F9E .BYTE 0
00 00F9F .BYTE 0
00 00FA0 .BYTE 0
00 00FA1 .BYTE 0
00000000 00FA2 .LONG 0
00 00FA6 .BYTE 0
00 00FA7 .BYTE 0
00 00FA8 .BYTE 0
00 00FA9 .BYTE 0
00 00FAA .BYTE 0
00 00FAB .BYTE 0
0000 00FAC .WORD 0
0000 00FAE .WORD 0
0000 00FB0 .WORD 0
0000 00FB2 .WORD 0
0000 00FB4 .WORD 0
0000 00FB6 .WORD 0
0C00 00FB8 .WORD 0
0000 00FBA .WORD 0
0000 00FBC .WORD 0
0000 00FBE .WORD 0
0000 00FC0 .WORD 0
40 00FC2 .BYTE 64
00 00FC3 .BYTE 0
00 00FC4 .BYTE 0
00 00FC5 .BYTE 0
00 00FC6 .BYTE 0
00 00FC7 .BYTE 0
00 00FC8 .BYTE 0
00 00FC9 .BYTE 0
0000 00FCA .WORD 0
00000000 00FCC .LONG 0
00000000 00FD0 .LONG 0
00 00FD4 .BYTE 0
00 00FD5 .BYTE 0
00 00FD6 .BYTE 0
00 00FD7 .BYTE 0
00 00FD8 .BYTE 0
00 00FD9 .BYTE 0
00 00FDA .BYTE 0
00 00FDB .BYTE 0
00 00FDC .BYTE 0
00 00FDD .BYTE 0
00 00FDE .BLKB 2
13 00FE0 NAFPRO: .BYTE 19
58 00FE1 .BYTE 88
0000 00FE2 .WORD 0
00000000 00FE4 .ADDRESS NAFKEY0

```

.....

```

FF00 00FEB .WORD -256
00 00FEA .BYTE 0
00 00FFB .BYTE 0
0000 0000 00FEC .WORD 0, 0
00 00FF0 .BYTE 0
00 00FF1 .BYTE 0
0000 00FF2 .WORD 0
00000000 00FF4 .LONG 0
00000000 00FF8 .LONG 0
0000 00FFC .WORD 0
0000 00FFE .WORD 0
00000000 01000 .LONG 0
00000000 01004 .LONG 0
01008 .BLKB 48
03 01038 NAFFAB: .BYTE 3
50 01039 .BYTE 80
0000 0103A .WORD 0
02000000 0103C .LONG 33554432
00000000 01040 .LONG 0
00000000 01044 .LONG 0
0000000A 01048 .LONG 10
000A 0104C .WORD 10
0F 0104E .BYTE 15
0F 0104F .BYTE 15
C^000000 01050 .LONG 0
00 01054 .BYTE 0
20 01055 .BYTE 32
00 01056 .BYTE 0
01 01057 .BYTE 1
00000000 01058 .LONG 0
00000000 0105C .ADDRESS NAFFPRO
00000000 01060 .LONG 0
00000000 01064 .ADDRESS P.ACE
00000000 01068 .ADDRESS P.ACF
06 0106C .BYTE 6
04 0106D .BYTE 4
0064 0106E .WORD 100
00000000 01070 .LONG 0
0000 01074 .WORD 0
00 01076 .BYTE 0
00 01077 .BYTE 0
00000000 01078 .LONG 0
00000000 0107C .LONG 0
0000 01080 .WORD 0
00 01082 .BYTE 0
00 01083 .BYTE 0
00000000 01084 .LONG 0
01088 STATUS: .BLKB 4
.PSECT $GLOBAL$,NOEXE,2
00000084 00000 DISBUF:: .BLKB 132
00000000 00084 DISDSC:: .LONG 132
00000000 00088 .ADDRESS DISBUF
0008C FAODSC:: .BLKB 8
00094 RABPTP:: .BLKB 4
00098 UAF$GQ_SYSUAFF::

```

.....

UAFMAIN  
V04-000

start - controlling code

N 6  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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		.BLKB	8	
	000A0	UAF\$GL_CILMSK::		
		.BLKB	8	
00000000	000A8	BY_ACCOUNT::		
		.LONG	0	
	000AC	MATCH_TOKEN::		:
		.BLKB	66	
	000EE		2	
	000F0	MATCH_TOKENLEN::		
		.BLKB	4	
	000F4	WILD_NETUSER::		
		.BLKB	4	
00000000	000F8	CALL_COUNT::		
		.LONG	0	
	00#	000FC	TOKENDSC::	
		.BYTE	0[3]	
02	000FF		2	:
	00100		4	:
	00#	00104	CMDLINDSC::	
		.BYTE	0[3]	
02	00107		2	:
	00108		4	:
	0010C	NETUAF_EXISTS::		
		.BLKB	4	
	00110	RDB_EXISTS::		
		.BLKB	4	
	00114	RMSERR::	4	
	00118	RIGHTSLIST_MODIFIED::		
		.BLKB	1	
	00119		3	
	0011C	RECBUF::	1412	
	006A0	NETBUF::	100	
	01	00704	UAFRAB::	
		.BYTE	1	
	44	00705		
		.BYTE	68	
	0000	00706		
		.WORD	0	
00000000	00708		0	:
		.LONG	0	:
00000000	0070C		0	:
		.LONG	0	:
00000000	00710		0	:
		.LONG	0	:
0000#	00714		0[3]	:
		.WORD		:
0000	0071A		0	:
		.WORD	0	:
00000000	0071C		0	:
		.LONG	0	:
0000	00720		0	:
		.WORD	0	:
00	00722		0	:
		.BYTE	0	:
00	00723		0	:
		.BYTE	0	:
0584	00724		1412	:
		.WORD		:
0000	00726		0	:
		.WORD	0	:
00000000	00728		0	:
		.LONG	0	:
00000000	0072C		0	:
		.LONG	0	:
00000000	00730		0	:
		.LONG	0	:
00000000	00734		RECBUF+4	:
		.ADDRESS		:
20	00738		32	:
		.BYTE	0	:
00	00739		0	:
		.BYTE	0	:
00	0073A		0	:
		.BYTE	0	:
00	0073B		0	:
		.BYTE	0	:
00000000	0073C		0	:
		.LONG	0	:
00000000	00740		UAF FAB	:
		.ADDRESS		:
00000000	00744		0	:
		.LONG		:

U  
V

```
01 00748 NAFRAB:: .BYTE 1
44 00749 .BYTE 68
0000 0074A .WORD 0
00000000 0074C .LONG 0
00000000 00750 .LONG 0
00000000 00754 .LONG 0
0000# 00758 .WORD 0[3]
0000 0075E .WORD 0
00000000 00760 .LONG 0
0000 00764 .WORD 0
01 00766 .BYTE 1
00 00767 .BYTE 0
0064 00768 .WORD 100
0064 0076A .WORD 100
00000000 0076C .LONG 0
00000000 00770 .LONG 0
00000000 00774 .LONG 0
00000000 00778 .ADDRESS NETBUF
40 0077C .BYTE 64
00 0077D .BYTE 0
00 0077E .BYTE 0
00 0077F .BYTE 0
00000000 00780 .LONG 0
00000000 00784 .ADDRESS NAFFAB
00000000 00788 .LONG 0
0078C TIME_BUF:: .BLKB 8
00794 PWD_FLAG:: .BLKB 4
01 00798 OUTRAB:: .BYTE 1
44 00799 .BYTE 68
0000 0079A .WORD 0
00000000 0079C .LONG 0
00000000 007A0 .LONG 0
00000000 007A4 .LONG 0
0000# 007A8 .WORD 0[3]
0000 007AE .WORD 0
00000000 007B0 .LONG 0
0000 007B4 .WORD 0
00 C37B6 .BYTE 0
00 007B7 .BYTE 0
0000 007B8 .WORD 0
0000 007BA .WORD 0
00000000 007BC .LONG 0
00000000 007C0 .ADDRESS DISBUF
00000000 007C4 .LONG 0
00000000 007C8 .LONG 0
00 007CC .BYTE 0
00 007CD .BYTE 0
00 007CE .BYTE 0
00 007CF .BYTE 0
00000000 007D0 .LONG 0
00000000 007D4 .ADDRESS OUTFAB
00000000 007D8 .LONG 0
007DC FOUND_MATCH:: .BLKB 4
007E0 UIC_ 'G::
```

.....

.....

007E4 GRP\_WILD: .BLKB 4  
007E8 MEM\_WILD: .BLKB 4  
007EC STR\_WILD: .BLKB 4

SD\_TOKEN1= P.AAA  
SD\_TOKEN2= P.AAC  
SD\_BRIEF= P.AAE  
SD\_FULL= P.AAG  
SD\_ADD\_IDENTIFIER= P.AAI  
SD\_REMOVE\_IDENTIFIER= P.AAK  
SD\_MODIFY\_IDENTIFIER= P.AAM  
ENCRYPT== 2  
DISBUFLN== 132  
SYSUAF\_STRING= P.AAP  
NETUAF\_STRING= P.AAQ  
MOD\_ACT\_DSC= P.AAR  
ADD\_ACT\_DSC= P.AAT  
REM\_ACT\_DSC= P.AAV  
FAO\_LIN\_DSC= P.AAX  
DBL\_COLON= P.AAZ  
WAKEDELTA= P.ABB  
DEFUSER= P.ABC  
DEFPASS= P.ABD  
DEFCLITABL= P.ABE  
DEFACT= P.ABF  
DEFCLI= P.ABG  
DEFOWNER= P.ABH  
DEF LGICMD= P.ABI  
DEFGRP= 128  
DEFMEM= 128  
DEFDIR= P.ABJ  
DEFDEV= P.ABK  
DEFBIOLM= 6  
DEFBYTLM= 4096  
DEFDIOLM= 6  
DEF FILLM= 20  
DEF FLAGS= 0  
DEF TQCNT= 10  
DEF PRCNT= 2  
DEF PRI= 4  
DEF QUEPRI= 4  
DEF WSQUOTA= 200  
DEF DFWSCNT= 150  
DEF WSEXTENT= 500  
DEF CPUIM= 0  
DEF ASTLM= 10  
DEF PGFLQUOTA= 10000  
DEF ENQLM= 10  
DEF PBYTLM= 0  
DEF SHRFILLM= 0  
DEF MAXJOBS= 0

```
DEFMAXACCTJOBS= 0
DEFMAXDETACH= 0
DEFJTQUOTA= 1024
DEFPRIMEDAYS= 96
DEFHOURS= 0
DEFPRIV= F.ABL
DEFPWDLENGTH= 6
DEFPWDLIFE= P.ABM
SYSUSER= P.ABN
SYSPASS= P.ABO
SYSCLITABL= P.ABP
SYSACT= P.ABQ
SYSCLI= P.ABR
SYSOWNER= P.ABS
SYSLGICMD= P.ABT
SYSGRP= 1
SYSTEM= 4
SYSDIR= P.ABU
SYSDEV= P.ABV
SYSBIOLM= 12
SYSBYTLM= 20480
SYSDIOLM= 12
SYSFILLM= 20
SYSFLAGS= 0
SYSTCNT= 20
SYSPRCNT= 10
SYSPRI= 4
SYSQUEPRI= 4
SYSWSQUOTA= 350
SYSWSEXTENT= 1024
SYSDFWSCNT= 150
SYSCPUTIM= 0
SYSASTLM= 20
SYSPGFLQUOTA= 10000
SYSENQLM= 20
SYSPBYTLM= 0
SYSSHRFILLM= 0
SYSMAXJOBS= 0
SYSMAXDETACH= 0
SYSJTQUOTA= 1024
SYSMAXACCTJOBS= 0
SYSPRIMEDAYS= 96
SYSHOURS= 0
SYSPRIV= P.ABW
SYSPWDLENGTH= 8
SYSPWDLIFE= P.ABX
TOKENLEN== TOKENDSC
TOKENPTR== TOKENDSC+4
REC_USER_DSC== P.ACG
REC_ENCRYPT_DSC== P.ACH
SYMBOL_STR== P.ACI
ACCPROMPT= P.ACJ
ACCPROMPT2= P.ACK
NEWMSG20= P.ACL
.EXTRN CLIS_BUFOVF, CLIS_NOCLINT
.EXTRN LIB$OUTPUT_HELP
.EXTRN LIB$GET_FOREIGN
```

```

.EXTRN LIB$GET INPUT, LIB$PI? OUTPUT
.EXTRN FM$SMATCH NAME, CLISDCC PARSE
.EXTRN CLISDISPATCH, CLISPRESENT
.EXTRN CLISGET VALUE, UPDATE_RECORD
.EXTRN PARSE WILD, LGISHPWD
.EXTRN UAF$ADD_IDENT_RECBUF
.EXTRN UAF$BUICD HOLDER
.EXTRN UAF$BUICD UIC, UAF$REMOVE_IDENT_RECBUF
.EXTRN UAF$WRITE RIGHTS
.EXTRN EXESGL SYSUIC, RDB HEADER_FLAG
.EXTRN RDB LIST FLAG, ATTRIBUTES
.EXTRN HOLDER, IDENT, AUTHORIZE_COMMANDS
.EXTRN PRVSAB NAMES, LIB$SIGNAL
.EXTRN UAF$_ADDERR, UAF$_ADDMSG
.EXTRN UAF$_BADNODEFORM
.EXTRN UAF$_BADSPC, UAF$_BADUSR
.EXTRN UAF$_CLIWARNMSG
.EXTRN UAF$_CMDTOOLONG
.EXTRN UAF$_CONERR, UAF$_COPMSG
.EXTRN UAF$_CREERR, UAF$_DEFERR
.EXTRN UAF$_DEFPWD, UAF$_DONEMSG
.EXTRN UAF$_GETERR, UAF$_HELPERR
.EXTRN UAF$_INVCMD, UAF$_INVRSP
.EXTRN UAF$_INVUSERNAME
.EXTRN UAF$_KEYNOTFND, UAF$_KEYNOTUNQ
.EXTRN UAF$_LSTERR, UAF$_LSTMSG1
.EXTRN UAF$_LSTMSG2, UAF$_MDFYERR
.EXTRN UAF$_MDFYMSG, UAF$_NAFADDERR
.EXTRN UAF$_NAFADDMSG, UAF$_NAFAEX
.EXTRN UAF$_NAFCONERR, UAF$_NAFCREERR
.EXTRN UAF$_NAFDNE, UAF$_NAFDONEMSG
.EXTRN UAF$_NAFNOMODS, UAF$_NAFUAEERR
.EXTRN UAF$_NAMETOOBIG
.EXTRN UAF$_NETLSTMSG, UAF$_NAOFIL
.EXTRN UAF$_NAONAF, UAF$_NOARG
.EXTRN UAF$_NODEFPWD, UAF$_NODTOOBIG
.EXTRN UAF$_NOMODS, UAF$_NOTUNQ
.EXTRN UAF$_NOUSERNAME
.EXTRN UAF$_PREMSG, UAF$_PUTERR
.EXTRN UAF$_RDBDONEMSG
.EXTRN UAF$_RDBMDFYERR
.EXTRN UAF$_RDBMDFYERR2U
.EXTRN UAF$_RDBMDFYMSG
.EXTRN UAF$_RDBNOMODS, UAF$_REDEF
.EXTRN UAF$_REMERR, UAF$_REMSG
.EXTRN UAF$_REMSYS, UAF$_RENDEF
.EXTRN UAF$_RENMSG, UAF$_RENSYS
.EXTRN UAF$_RONLY, UAF$_SHOW_ERR
.EXTRN UAF$_SYSMSG1, UAF$_SYSMSG2
.EXTRN UAF$_UAEERR, UAF$_OICERR
.EXTRN UAF$_ZISQUAL, UAF$_ZZPRACREN
.EXTRN SYSSOPEN, SYSSCONNECT
.EXTRN SYSSCREATE

```

.PSECT \$CODES, NOWRT, 2

OFFC 00000 START: .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11

: 0903

	58	00000000G	00	9E	00002	MOVAB	LIB\$GET_INPUT, R11		
	5A	0000000CG	00	9E	00009	MOVAB	SYSSCONNECT, R10		
	59	00000000G	8F	D0	00010	MOVL	#CLIS NOCLINT, R9		
	58	00000000G	00	9E	00017	MOVAB	LIB\$STOP, R8		
	57	00000000'	00	9E	0001E	MOVAB	CMDLINDSC, R7		
	56	00000000'	00	9E	00025	MOVAB	STATUS, R6		
		14	A7	94	0002C	CLRB	RIGHTSLIST MODIFIED	0942	
		EFC4	C6	7C	0002F	CLRQ	MODIFY_FLAG	0944	
		F988	C6	9F	00033	PUSHAB	INFAB	0950	
	00000000G		00	01	FB	00037	CALLS	#1, SYSSOPEN	
			66	50	D0	0003E	MOVL	R0, STATUS	
	10		A7	50	D0	00041	MOVL	R0, RMSERR	
			05	50	EB	00045	BLBS	R0, 1\$	
				66	DD	00048	PUSHL	STATUS	0952
			68	01	FB	0004A	CALLS	#1, LIB\$STOP	
		FA08	C6	9F	0004D	1\$: PUSHAB	INRAB	0954	
			6A	01	FB	00051	CALLS	#1, SYSSCONNECT	
			66	50	D0	00054	MOVL	R0, STATUS	
	10		A7	50	D0	00057	MOVL	R0, RMSERR	
			05	50	EB	0005B	BLBS	R0, 2\$	
				66	DD	0005E	PUSHL	STATUS	0956
			68	01	FB	00060	CALLS	#1, LIB\$STOP	
	00000000G		00	C6	9F	00063	2\$: PUSHAB	OUTFAB	0958
				01	FB	00067	CALLS	#1, SYSSCREATE	
		0694	C7	9F	0006E	PUSHAB	OUTRAB	0959	
			6A	01	FB	00072	CALLS	#1, SYSSCONNECT	
	00000000V		00	00	FB	00075	CALLS	#0, SETUP	0961
				57	DD	0007C	PUSHL	R7	0968
	00000000G		00	01	FB	0007E	CALLS	#1, LIB\$GET_FOREIGN	
			38	50	E9	00085	BLBC	R0, 4\$	
				67	B5	00088	TSTW	CMDLINDSC	
				34	13	0008A	BEQL	4\$	
		00000000'	00	9F	0008C	PUSHAB	P.ACM	0975	
				5B	DD	00092	PUSHL	R11	
				7E	D4	00094	CLRL	-(SP)	
		00000000G	00	9F	00096	PUSHAB	AUTHORIZE_COMMANDS		
				57	DD	0009C	PUSHL	R7	
	00000000G		00	05	FB	0009E	CALLS	#5, CLISDCL_PARSE	
			66	50	D0	000A5	MOVL	R0, STATUS	
			09	50	E9	000A8	BLBC	R0, 3\$	
	00000000G		00	00	FB	000AB	CALLS	#0, CLISDISPATCH	0978
				51	11	000B2	BRB	7\$	0979
			59	66	D1	000B4	3\$: Cmpl	STATUS, R9	0985
				45	13	000B7	BEQL	6\$	
	00000000V		00	00	FB	000B9	CALLS	#0, ACC\$EXIT	0980
	00000000V		00	00	FB	000C0	4\$: CALLS	#0, GET_CMD_LINE	1002
			F6	50	E9	000C7	BLBC	R0, 4\$	
		00000000'	00	9F	000CA	PUSHAB	P.ACO	1004	
				5B	DD	000D0	PUSHL	R11	
				7E	D4	000D2	CLRL	-(SP)	
		00000000G	00	9F	000D4	PUSHAB	AUTHORIZE_COMMANDS		
				57	DD	000DA	PUSHL	R7	
	00000000G		00	05	FB	000DC	CALLS	#5, CLISDCL_PARSE	
			66	50	D0	000E3	MOVL	R0, STATUS	
			10	50	E9	000E6	BLBC	R0, 5\$	
08			00	00	2C	000E9	P.VCS	#0, (SP), #0, #8, UAF\$GL_CTLMSK	1007
			6E	A7	000EE				
				9C					



UAFMAIN  
V04-000

start: - controlling code

6 7  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

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[UAF.BUGSRC]UAFMAIN.B32;1

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00000000G 00  
59  
68  
50

00 FB 000F0  
C7 11 000F7  
66 D1 000F9 5\$:  
C2 12 000FC  
59 DD 000FE 6\$:  
01 FB 00100  
BB 11 00103  
01 D0 00105 7\$:  
04 00108

CALLS #0, CLISDISPATCH  
BRB 4\$  
CML STATUS, R9  
BNEQ 4\$  
PUSHL R9  
CALLS #1, LIBSSTOP  
BRB 4\$  
MOVL #1, R0  
RET

: 1008  
: 1004  
: 1011  
: 1013  
: 1004  
: 1016  
: 1018

; Routine Size: 265 bytes, Routine Base: \$CODE\$ + 0000

UA  
VO

setup - open initial files

```

933 1019 1 %sbttl 'setup - open initial files'
934 1020 1 routine setup : novalue =
935 1021 2 begin
936 1022 2
937 1023 2 ++
938 1024 2
939 1025 2 FUNCTIONAL DESCRIPTION:
940 1026 2
941 1027 2 This routine does all of the initial file manipulation for the
942 1028 2 program. It determines whether or not a previous SYSUAF.DAT exists.
943 1029 2 If not, it creates one (if the user wishes to proceed).
944 1030 2
945 1031 2 INPUTS:
946 1032 2
947 1033 2 none
948 1034 2
949 1035 2 IMPLICIT INPUTS:
950 1036 2
951 1037 2 none
952 1038 2
953 1039 2 OUTPUTS:
954 1040 2
955 1041 2 none
956 1042 2
957 1043 2 IMPLICIT OUTPUTS:
958 1044 2
959 1045 2 none
960 1046 2
961 1047 2 ROUTINE VALUE:
962 1048 2
963 1049 2 none
964 1050 2
965 1051 2 SIDE EFFECTS:
966 1052 2
967 1053 2 none
968 1054 2 --
969 1055 2
970 1056 2 Local
971 1057 2 status : long,
972 1058 2 curpriv : vector [2],
973 1059 2 propriv : vector [2],
974 1060 2 item_list : block [64, byte],
975 1061 2 newfile; ! indicates new file must
976 1062 2 ! be created.
977 1063 2
978 1064 2 item_list [0,0,16,0] = 4;
979 1065 2 item_list [2,0,16,0] = jpi$_pid;
980 1066 2 item_list [4,0,32,0] = pid;
981 1067 2 item_list [8,0,32,0] = 0;
982 1068 2 item_list [12,0,16,0] = 12;
983 1069 2 item_list [14,0,16,0] = jpi$_username;
984 1070 2 item_list [16,0,32,0] = username_buf;
985 1071 2 item_list [20,0,32,0] = username_dsc[0];
986 1072 2 item_list [24,0,16,0] = 8;
987 1073 2 item_list [26,0,16,0] = jpi$_curpriv;
988 1074 2 item_list [28,0,32,0] = curpriv;
989 1075 2 item_list [32,0,32,0] = 0;

```

setup - open initial files

```

: 990      1076 2 item_list [36,0,16,0] = 8;
: 991      1077 2 item_list [38,0,16,0] = jpi$procpriv;
: 992      1078 2 item_list [40,0,32,0] = procpriv;
: 993      1079 2 item_list [44,0,32,0] = 0;
: 994      1080 2 item_list [48,0,16,0] = 0;
: 995      1081 2 item_list [50,0,16,0] = jpi$sts;
: 996      1082 2 item_list [52,0,32,0] = pcb$sts;
: 997      1083 2 item_list [56,0,32,0] = 0;
: 998      1084 2 item_list [60,0,32,0] = 0;
: 999      1085
: 1000     1086 2 $getjpi (itmlst = item_list);           ! Obtain pid, username and privs
: 1001     1087
: 1002     1088 2 username_dsc[0] = namelen (uaf$s_username, username_buf);
: 1003     1089
: 1004     1090 2 !*****
: 1005     1091 2 |
: 1006     1092 2 |                               Open SYSUAF.DAT
: 1007     1093 2 |*****
: 1008     1094 2 |*****
: 1009     1095 2 |
: 1010     1096 2 newfile = false;                       ! note no new file yet
: 1011     1097
: 1012     1098 2 if rmstod ($open (fab = uaf$fab))
: 1013     1099 2 then
: 1014     1100 2 |
: 1015     1101 2 | sysuaf.dat doesn't exist
: 1016     1102 2 |
: 1017     1103 2 |   begin
: 1018     1104 2 |   LIB$SIGNAL(UAF$NAOFIL, 0, .rmserr);
: 1019     1105 2 |   if .rmserr eql rms$fnt
: 1020     1106 2 |   then
: 1021     1107 2 |     begin
: 1022     1108 2 |     while true
: 1023     1109 2 |     do
: 1024     1110 2 |     |
: 1025     1111 2 |     | Ask if a new one is desired
: 1026     1112 2 |     |
: 1027     1113 2 |     |   begin
: 1028     1114 2 |     |   ask (newmsg20, cmdbuf[0], cmdbuflen);
: 1029     1115 2 |     |   if .cmdbuf [0] eql 'Y'
: 1030     1116 2 |     |   then exitloop newfile = true;
: 1031     1117 2 |     |   if .cmdbuf [0] eql 'N'
: 1032     1118 2 |     |   then acc$exit ();
: 1033     1119 2 |     |   LIB$SIGNAL(UAF$INVRSP);
: 1034     1120 2 |     |   end;
: 1035     1121 2 |     end
: 1036     1122 2 |   else
: 1037     1123 2 |   acc$exit ();
: 1038     1124 2 |   end;
: 1039     1125
: 1040     1126
: 1041     1127 2 |
: 1042     1128 2 | The file will be created if it does not already exist.
: 1043     1129 2 | In any case connect the RAB.
: 1044     1130 2 |
: 1045     1131
: 1046     1132 2 if .newfile

```

setup - open initial files

```

1047 1133 2 then
1048 1134 2
1049 1135 2 A new file is requested
1050 1136 2
1051 1137 2 if rmsbad ($create (fab = uaffab))
1052 1138 2 then
1053 1139 2
1054 1140 2 Quit regardless of error on a $CREATE: don't
1055 1141 2 want to give read-only user ability to create a file
1056 1142 2
1057 1143 2 LIBSSIGNAL(UAFS_CREERR, 0, .rmserr);
1058 1144 2
1059 1145 2 if rmsbad ($connect (rab = uafrab))
1060 1146 2 then LIBSSIGNAL(UAFS_CONERR, 0, .rmserr);
1061 1147 2 uafrab[rab$b_rac] = rab$c_key; ! normal access is by key
1062 1148 2
1063 1149 2
1064 1150 2 Check to see if there was no old file to use. If so write a default and
1065 1151 2 a system manager record.
1066 1152 2
1067 1153 2
1068 1154 2 if .newfile
1069 1155 2 then
1070 1156 2 begin
1071 1157 2 modify flag = true; ! must rename when done
1072 1158 2 build ini recs (); ! build default and system manager records
1073 1159 2 uafrab[rab$b_rsz] = uaf$c_fixed;
1074 1160 2
1075 1161 2 default_size = uaf$c_fixed;
1076 1162 2 uafrab[rab$l_rbf] = default_record; ! insert default record address
1077 1163 2 if rmsbad ($put (rab = uafrab))
1078 1164 2 then LIBSSIGNAL(UAFS_PUTERR, 0, .rmserr); ! report error
1079 1165 2 uafrab[rab$l_rbf] = recbuf; ! establish proper address (and
1080 1166 2 ! address of system record)
1081 1167 2 if rmsbad ($put (rab = uafrab)) ! output system record
1082 1168 2 then LIBSSIGNAL(UAFS_PUTERR, 0, .rmserr);
1083 1169 2 end
1084 1170 2 else
1085 1171 2
1086 1172 2 Read in the default record.
1087 1173 2
1088 1174 2 begin
1089 1175 2 uafrab[rab$l_ubf] = default_record;
1090 1176 2 if not locate user (.defuser<0,8>, defuser+1, false)
1091 1177 2 then LIBSSIGNAL(UAFS_DEFERR, 0, .rmserr);
1092 1178 2 default_size = .uafrab[rab$b_rsz];
1093 1179 2 end;
1094 1180 2
1095 1181 2 uafrab[rab$l_ubf] = recbuf; ! establish proper addresses
1096 1182 2 uafrab[rab$l_rbf] = recbuf;
1097 1183 2
1098 1184 2 .....
1099 1185 2
1100 1186 2 Open NETUAF.DAT
1101 1187 2
1102 1188 2 .....
1103 1189 2

```

setup - copen initial files

```

1104 1190 2 netuaf_exists = true;           ! Assume NETUAF.DAT exists...
1105 1191 2
1106 1192 2
1107 1193 2 Try to open NETUAF.DAT and see what happens...
1108 1194 2
1109 1195 2 if rmsbad ($open (fab = naffab))
1110 1196 2 then
1111 1197 2
1112 1198 2 Couldn't open it
1113 1199 2
1114 1200 2     if .rmserr eql rms$_fnf
1115 1201 2     then
1116 1202 2         netuaf_exists = false           ! it doesn't exist
1117 1203 2     else
1118 1204 2         LIB$SIGNAL(UAF$_NAONAF, 0, .rmserr) ! open error for some other reason
1119 1205 2
1120 1206 2 else
1121 1207 2
1122 1208 2 NETUAF.DAT opened without error
1123 1209 2
1124 1210 2     if rmsbad ($connect (rab = nafrab))
1125 1211 2     then LIB$SIGNAL(UAF$_NAFCNERR)         ! connect error
1126 1212 2
1127 1213 2 Everything opened and connected, establish proper NETUAF addresses
1128 1214 2
1129 1215 2     else
1130 1216 2     begin
1131 1217 2         nafrab [rab$_ubf] = netbuf;
1132 1218 2         nafrab [rab$_rbf] = netbuf;
1133 1219 2     end;
1134 1220 2
1135 1221 2
1136 1222 2 Check to see if the rights data base exists. Try to translate an ID
1137 1223 2 and if we get a file not found error then it doesn't exist.
1138 1224 2
1139 1225 2 ident[uic$_v_format] = uic$_k_uic_format ;
1140 1226 2 ident[uic$_v_group] = 1 ;
1141 1227 2 ident[uic$_v_member] = 4 ;
1142 1228 2 status = $idtoasc ( id = .ident ) ;
1143 1229 2 if .status eql rms$_fnf
1144 1230 2     then rdb_exists = false
1145 1231 2     else rdb_exists = true ;
1146 1232 2
1147 1233 2 end;

```

```

.EXTRN SYSSGETJPI, SYSSPUT
.EXTRN SYSSIDTOASC

```

```

OFFC 00000 SETUP: .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
5B 00000000G 00 9E 00002 MOVAB SYSSPUT, R11
5A 00000000G 00 9E 00009 MOVAB SYSSCONNECT, R10
59 00000000V 00 9E 00010 MOVAB ACC$EXIT, R9
58 00000000G 00 9E 00017 MOVAB SYSSOPEN, R8
57 00000000' 00 9E 0001E MOVAB NEWMSG20, R7
56 00000000G 00 9E 00025 MOVAB IDENT, R6

```

```

: 1020
:
:
:

```

		55	00000000G	00	9E	0002C	MOVAB	LIBSSIGNAL, R5		
		54	00000000'	00	9E	00033	MOVAB	USERNAME_BUF, R4		
		53	00000000'	0C	9E	0003A	MOVAB	RMSERR, R3		
		5E	B4	AE	9E	00041	MOVAB	-76(SP), SP		
			031900C4	8F	DD	00045	PUSHL	#51970052	1064	
04	AE		24	A4	9E	0004B	MOVAB	PID, ITEM_LIST+4	1066	
			08	AE	D4	00050	CLRL	ITEM_LIST+8	1067	
0C	AE		0202000C	8F	DD	00053	MOVL	#33685516, ITEM_LIST+12	1068	
10	AE			64	9E	0005B	MOVAB	USERNAME_BUF, ITEM_LIST+16	1070	
14	AE		28	A4	9E	0005F	MOVAB	USERNAME_DSC, ITEM_LIST+20	1071	
18	AE		0400C008	8F	DD	00064	MOVL	#67108872, ITEM_LIST+24	1072	
1C	AE		48	AE	9E	0006C	MOVAB	CURPRIV, ITEM_LIST+28	1074	
			20	AE	D4	00071	CLRL	ITEM_LIST+32	1075	
24	AE		02040008	8F	DD	00074	MOVL	#338T6584, ITEM_LIST+36	1076	
28	AE		40	AE	9E	0007C	MOVAB	PROCPRIV, ITEM_LIST+40	1078	
			2C	AE	D4	00081	CLRL	ITEM_LIST+44	1079	
30	AE		03050004	8F	DD	00084	MOVL	#50659332, ITEM_LIST+48	1080	
34	AE		20	A4	9E	0008C	MOVAB	PCB_STS, ITEM_LIST+52	1082	
			38	AE	7C	00091	CLRL	ITEM_LIST+56	1083	
				7E	7C	00094	CLRL	-(SP)	1086	
				7E	D4	00096	CLRL	-(SP)		
				0C	AE	9F	00098	PUSHAB	ITEM_LIST	
				7E	7C	0009B	CLRL	-(SP)		
				7E	D4	0009D	CLRL	-(SP)		
		00000000G	00	77	FB	0009F	CALLS	#7, SYSSGETJPI		
28	64		20	2	3A	000A6	LOCC	#32, #32, USERNAME_BUF	1088	
	A4		20	50	F3	000AA	SUBL3	R0, #32, USERNAME_DSC		
				52	64	000AF	CLRL	NEWFILE	1096	
				0EFO	C4	9F	000B1	PUSHAB	UAFFAB	1098
			68	01	FB	000B5	CALLS	#1, SYSSOPEN		
			63	50	DD	000B8	MOVL	R0, RMSERR		
			4F	50	E8	000BB	BLBS	R0, 5\$		
				63	DD	000BE	PUSHL	RMSERR	1104	
				7E	D4	000C0	CLRL	-(SP)		
		00000000G		8F	DD	000C2	PUSHL	#UAF\$ NAOFIL		
			65	03	FB	000C8	CALLS	#3, LIBSSIGNAL		
		00018292		8F	D1	000CB	CMPL	RMSERR, #98962	1105	
				36	12	000D2	BNEQ	4\$		
			7E	8F	3C	000D4	MOVZWL	#1024, -(SP)	1114	
				0098	C4	9F	000D9	PUSHAB	CMDBUF	
					57	DD	000DD	PUSHL	R7	
		00000000V	00	03	FB	000DF	CALLS	#3, ASK		
			50	C4	9A	000E6	MOVZBL	CMDBUF, R0	1115	
			59	8F	50	91	000EB	CMPB	R0, #89	
					05	12	000EF	BNEQ	2\$	
			52	01	DD	000F1	MOVL	#1, NEWFILE	1116	
					17	11	000F4	BRB	5\$	
			4E	8F	50	91	000F6	CMPB	R0, #78	1117
					03	12	000FA	BNEQ	3\$	
			69	00	FB	000FC	CALLS	#0, ACCSEXIT	1118	
		00000000G		8F	DD	000FF	PUSHL	#UAF\$ INVRSP	1119	
			65	01	FB	00105	CALLS	#1, LIBSSIGNAL		
				CA	11	00108	BRB	1\$	1108	
			69	00	FB	0010A	CALLS	#0, ACCSEXIT	1123	
			1E	52	E9	0010D	BLBC	NEWFILE, 6\$	1132	
					C4	9F	00110	PUSHAB	UAFFAB	1137
		00000000G	00	01	FB	00114	CALLS	#1, SYSSCREATE		

63		50	D0	0011B	MOVL	R0, RMSERR	
0D		50	E8	0011E	BLBS	R0, 6\$	
		63	DD	00121	PUSHL	RMSERR	1143
		7E	D4	00123	CLRL	-(SP)	
	0000000G	8F	DD	00125	PUSHL	#UAF\$ CREERR	
65		03	FB	0012B	CALLS	#3, LIBSSIGNAL	
	05F0	C3	9F	0012E	PUSHAB	UAFRAB	1145
6A		01	FB	00132	CALLS	#1, SYSSCONNECT	
63		50	D0	00135	MOVL	R0, RMSERR	
0D		50	E8	00138	BLBS	R0, 7\$	
		63	DD	0013B	PUSHL	RMSERR	1146
		7E	D4	0013D	CLRL	-(SP)	
	0000000G	8F	DD	0013F	PUSHL	#UAF\$ CONERR	
65		03	FB	00145	CALLS	#3, LIBSSIGNAL	
060E		01	90	00148	MOVW	#1, UAFRAB+30	1147
		52	E9	0014D	BLBC	NEWFILE, 9\$	1154
		01	D0	00150	MOVL	#1, MODIFY FLAG	1157
44		00	FB	00154	CALLS	#0, BUILD INI RECS	1158
00000000V		8F	B0	0015B	MOVW	#644, UAFRAB+34	1159
0612		8F	B0	00162	MOVW	#644, DEFAULT SIZE	1161
0498	0284	C4	9E	00169	MOVAB	DEFAULT_RECORD, UAFRAB+40	1162
0618	0284	C3	9F	00170	PUSHAB	UAFRAB	1163
	049C	C3	01	FB	CALLS	#1, SYSSPUT	
	05F0	C3	50	D0	MOVL	R0, RMSERR	
68		50	E8	0017A	BLBS	R0, 8\$	
63		50	D0	00177	PUSHL	RMSERR	1164
0D		63	DD	0017D	CLRL	-(SP)	
		7E	D4	0017F	PUSHL	#UAF\$ PUTERR	
	0000000G	8F	DD	00181	CALLS	#3, LIBSSIGNAL	
65		03	FB	00187	MOVAB	RECBUF, UAFRAB+40	1165
0618		A3	9E	0018A	PUSHAB	UAFRAB	1167
	08	C3	9F	00190	CALLS	#1, SYSSPUT	
	05F0	C3	01	FB	CALLS	#1, SYSSPUT	
68		01	FB	00194	MOVL	R0, RMSERR	
63		50	D0	00197	BLBS	R0, 11\$	
3F		50	E8	0019A	PUSHL	RMSERR	1168
		63	DD	0019D	CLRL	-(SP)	
		7E	D4	0019F	PUSHL	#UAF\$ PUTERR	
	0000000G	8F	DD	001A1	CALLS	#3, LIBSSIGNAL	
65		03	FB	001A7	BRB	11\$	1154
0614		30	11	001AA	MOVAB	DEFAULT_RECORD, UAFRAB+36	1175
	049C	C4	9E	001AC	CLRL	-(SP)	1176
		7E	D4	001B3	PUSHAB	DEFUSER+!	
	FEFB	C7	9F	001B5	MOVZBL	DEFUSER, -(SP)	
	FEFA	C7	9A	001B9	CALLS	#3, LOCATE_USER	
00000000V		03	FB	001BE	BLBS	R0, 10\$	
0D		50	E8	001C5	PUSHL	RMSERR	1177
		63	DD	001C8	CLRL	-(SP)	
		7E	D4	001CA	PUSHL	#UAF\$ DEFERR	
	0000000G	8F	DD	001CC	CALLS	#3, LIBSSIGNAL	
65		03	FB	001D2	MOVW	UAFRAB+34, DEFAULT_SIZE	1178
0498		C4	B0	001D5	MOVAB	RECBUF, UAFRAB+36	1181
0614		C3	9E	001DC	MOVAB	RECBUF, UAFRAB+40	1182
0618		C3	9E	001E2	MOVL	#1, NETUAF_EXISTS	1190
F8		A3	01	D0	PUSHAB	NAFFAB	1195
	1030	C4	9F	001EC	CALLS	#1, SYSSOPEN	
68		01	FB	001FC	MOVL	R0, RMSERR	
63		50	D0	001F3	BLBS	R0, 13\$	
20		50	E8	001F6			

				63	D0	001F9		MOVL	RMSERR, R0		1200
	00018292			50	D1	001FC		CMPL	R0, #98962		
				05	12	00203		BNEQ	12\$		
			FB	A3	D4	00205		CLRL	NETUAF_EXISTS		1202
				35	11	00208		BRB	15\$		
				50	DD	0020A	12\$:	PUSHL	R0		1204
				7E	D4	0020C		CLRL	-(SP)		
				8F	DD	0020E		PUSHL	#UAF\$ NAONAF		
		00000000G		03	FB	00214		CALLS	#3, LIB\$SIGNAL		
			65	26	11	00217		BRB	15\$		1200
				C3	9F	00219	13\$:	PUSHAB	NAFRAB		1210
		0634		01	FB	0021D		CALLS	#1, SYS\$CONNECT		
			6A	50	D0	00220		MOVL	R0, RMSERR		
			63	50	E8	00223		BLBS	R0, 14\$		
			0B	8F	DD	00226		PUSHL	#UAF\$ NAFCONERR		1211
				01	FB	0022C		CALLS	#1, LIB\$SIGNAL		
			65	0E	11	0022F		BRB	15\$		
	0658			C3	9E	00231	14\$:	MOVAB	NETBUF, NAFRAB+36		1217
	065C			C3	9E	00238		MOVAB	NETBUF, NAFRAB+40		1218
				8F	8A	0023F	15\$:	BICB2	#192, IDENT+3		1225
02	A6		OE	01	F0	00244		INSV	#1, #0, #14, IDENT+2		1226
				04	B0	0024A		MOVW	#4, IDENT		1227
				7E	7C	0024D		CLRQ	-(SP)		1228
				7E	7C	0024F		CLRQ	-(SP)		
				7E	D4	00251		CLRL	-(SP)		
				66	DD	00253		PUSHL	IDENT		
	00000000G			06	FB	00255		CALLS	#6, SYS\$IDTOASC		
	00018292			50	D1	0025C		CMPL	STATUS, #98962		1229
				04	12	00263		BNEQ	16\$		
				FC	A3	D4	00265	CLRL	RDB_EXISTS		1230
						04	00268	RET			
				FC	A3	D0	00269	16\$:	MOVL	#1, RDB_EXISTS	1231
						04	0026D	RET			1233

; Routine Size: 622 bytes, Routine Base: \$CODE\$ + 0109



add\_uaf - insert new user record

```

: 1149      1234 1 %sbttl 'add_uaf - insert new user record'
: 1150      1235 1 global routine add_uaf : novalue =
: 1151      1236 2 begin
: 1152      1237 2
: 1153      1238 2
: 1154      1239 2
: 1155      1240 2
: 1156      1241 2
: 1157      1242 2
: 1158      1243 2
: 1159      1244 2
: 1160      1245 2
: 1161      1246 2
: 1162      1247 2
: 1163      1248 2
: 1164      1249 2
: 1165      1250 2
: 1166      1251 2
: 1167      1252 2
: 1168      1253 2
: 1169      1254 2
: 1170      1255 2
: 1171      1256 2
: 1172      1257 2
: 1173      1258 2
: 1174      1259 2
: 1175      1260 2
: 1176      1261 2
: 1177      1262 2
: 1178      1263 2
: 1179      1264 2
: 1180      1265 2
: 1181      1266 2
: 1182      1267 2
: 1183      1268 2
: 1184      1269 2
: 1185      1270 2
: 1186      1271 2
: 1187      1272 2
: 1188      1273 2
: 1189      1274 2
: 1190      1275 2
: 1191      1276 2
: 1192      1277 2
: 1193      1278 2
: 1194      1279 2
: 1195      1280 2
: 1196      1281 2
: 1197      1282 2
: 1198      1283 2
: 1199      1284 2
: 1200      1285 2
: 1201      1286 2
: 1202      1287 2
: 1203      1288 2
: 1204      1289 2
: 1205      1290 2

```

1234 1 %sbttl 'add\_uaf - insert new user record'  
 1235 1 global routine add\_uaf : novalue =  
 1236 2 begin  
 1237 2  
 1238 2  
 1239 2  
 1240 2  
 1241 2  
 1242 2  
 1243 2  
 1244 2  
 1245 2  
 1246 2  
 1247 2  
 1248 2  
 1249 2  
 1250 2  
 1251 2  
 1252 2  
 1253 2  
 1254 2  
 1255 2  
 1256 2  
 1257 2  
 1258 2  
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 1285 2  
 1286 2  
 1287 2  
 1288 2  
 1289 2  
 1290 2

.....

add\_uaf - insert new user record

```

1206 1291 2 |
1207 1292 2 | Make sure a legal username was entered, otherwise the account may not be
1208 1293 2 | accessible via LOGIN or the Input Symbiont.
1209 1294 2 |
1210 1295 2 | incru i to .tokenlen - 1
1211 1296 2 | do
1212 1297 2 |     if ch$fail (ch$find_ch (.symbol_str<0,8>,
1213 1298 2 |         symbol_str + 1,
1214 1299 2 |         .tokenptr [.i]))
1215 1300 2 |     then return LIB$SIGNAL(UAF$INVUSERNAME);
1216 1301 2 | user_dsc[0] = .tokenlen;
1217 1302 2 | user_dsc[1] = recbuf[uaf$st_username];
1218 1303 2 |
1219 1304 2 |
1220 1305 2 | Move the default record to the current record buffer, so that
1221 1306 2 | fields which are not entered will receive the default
1222 1307 2 | value. Then insert the username just entered.
1223 1308 2 |
1224 1309 2 |
1225 1310 2 | ch$move (.default_size, default_record, recbuf);
1226 1311 2 | ch$copy (.tokenlen, .tokenptr, ' ', uaf$st_username, recbuf[uaf$st_username]);
1227 1312 2 |
1228 1313 2 |
1229 1314 2 | Call routine to fill in all supplied values. Exit if any errors
1230 1315 2 | were found.
1231 1316 2 |
1232 1317 2 |
1233 1318 2 | pwd_flag = true; ! plan to supply a password
1234 1319 2 | uaf$rab[ra$b$w_rsiz] = .default_size;
1235 1320 2 | uaf$gl_ctlmsk[uaf$st_v_add] = true;
1236 1321 2 | if not update_record ()
1237 1322 2 | then
1238 1323 2 |     begin
1239 1324 2 |         uaf$gl_ctlmsk[uaf$st_v_add] = false;
1240 1325 2 |         return;
1241 1326 2 |     end;
1242 1327 2 |
1243 1328 2 | uaf$gl_ctlmsk[uaf$st_v_add] = false;
1244 1329 2 |
1245 1330 2 | if .pwd_flag ! if no explicit password
1246 1331 2 | then
1247 1332 2 |     begin
1248 1333 2 |         pwddsc[dsc$w_length] = .defpass<0,8>;
1249 1334 2 |         pwddsc[dsc$a_pointer] = defpass+1;
1250 1335 2 |         $gettim (timadr = time_buf);
1251 1336 2 |         recbuf[uaf$st_salt] = .time_buf<3*8,16>;
1252 1337 2 |         recbuf[uaf$st_encrypt] = encrypt;
1253 1338 2 |         lgi$hpwd (rec_encrypt dsc, pwddsc, .recbuf[uaf$st_encrypt],
1254 1339 2 |             .recbuf[uaf$st_salt], user_dsc);
1255 1340 2 |     end;
1256 1341 2 |
1257 1342 2 |
1258 1343 2 | Now output the new record.
1259 1344 2 |
1260 1345 2 |
1261 1346 2 | if rmsbad ($put (rab = uaf$rab))
1262 1347 2 | then

```

add\_uaf - insert new user record

```

: 1263 1348 2   if .rmserr eql rms$ dup
: 1264 1349 2   then return LIB$SIGNAL(UAF$_UAEERR)
: 1265 1350 2   else LIB$SIGNAL(UAF$_ADDERR, 0, .rmserr)
: 1266 1351 2   else
: 1267 1352 2     begin
: 1268 1353 2     :
: 1269 1354 2     : Tell user that addition was successful. Note that file was changed.
: 1270 1355 2     :
: 1271 1356 2     : LIB$SIGNAL(UAF$_ADDMSG);
: 1272 1357 2     : if (.uaf$gl_ctlmsk[uaf$y_cli]
: 1273 1358 2     : and (not .uaf$gl_ctlmsk[uaf$y_clitables]))
: 1274 1359 2     : then LIB$SIGNAL(UAF$_CLIWARNMSG);
: 1275 1360 2     : security_audit (nsa$K_recid_sysuaf_add);
: 1276 1361 2     : modify_flag = true;
: 1277 1362 2     : if (cli$present ( sd_add_identifier ) and
: 1278 1363 2     :     .rdb_exists )
: 1279 1364 2     : then
: 1280 1365 2     :   begin
: 1281 1366 2     :     :
: 1282 1367 2     :     : Add the appropriate identifiers.
: 1283 1368 2     :     : Set the resource attribute if /ATTRIB=RESOURCE was specified
: 1284 1369 2     :     : and then add the appropriate identifiers to the rights data base
: 1285 1370 2     :     :
: 1286 1371 2     :     : if cli$present (sd_attribresource)
: 1287 1372 2     :     :   then attributes = kgb$m_resource
: 1288 1373 2     :     :   else attributes = 0 ;
: 1289 1374 2     :     : uaf$add_ident_recbuf ( ) ;
: 1290 1375 2     :     : end ;
: 1291 1376 2     :   end ;
: 1292 1377 2     : end;
: 1293 1378 1   end;

```

				.EXTRN	SYSSGETT!M	
		OFFC 00000		.ENTRY	ADD_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-	1235
	5B	J0000000G	00 9E 00002	MOVAB	R11	
	5A	00000000'	00 9E 00009	MOVAB	LIB\$SIGNAL, R11	
	59	00000000'	00 9E 00010	MOVAB	PWDDSC, R10	
	58	00000000'	00 9E 00017	MOVAB	SD_TOKEN1, R9	
	5E		08 C2 0001E	MOVAB	TOKENENDSC, R8	
			59 DD 00021	SUBL2	#8, SP	
	00000000G	00	01 FB 00023	PUSHL	R9	1279
		12	50 E9 0002A	CALLS	#1, CLISPRESENT	
			58 DD 0002D	BLBC	R0, 1\$	
			59 DD 0002F	PUSHL	R8	1280
	00000000G	00	02 FB 00031	PUSHL	R9	
		04	50 E9 00038	CALLS	#2, CLISGET_VALUE	
			68 B5 0003B	BLBC	R0, 1\$	
			08 12 0003D	TESTW	TOKENLEN	1281
		00000000j	8F DD 0003F 1\$:	BNEQ	2\$	
			34 11 00045	PUSHL	#UAF\$_NOUSERNAME	1282
		JC	68 B1 00047 2\$:	BRB	6\$	
			J8 1B 0004A	CMPL	TOKENLEN, #12	1288
	00000000G	8F	DD 0004C	BLEQU	3\$	
				PUSHL	#UAF\$_NAMETOOBIG	1289

add\_uaf - insert new user record

				27	11	00052	BRB	6\$		
				68	3C	00054	3\$: MOVZWL	TOKENLEN, R3		1295
				53	D7	00057	DECL	R3		
				52	D4	00059	CLRL	I		
				23	11	00058	BRB	8\$		
				51	01EC	C9	4\$: MOVZBL	SYMBOL_STR, R1		1297
				50	04	AB	MOVL	TOKENPTR, R0		1299
	01ED			51		6240	LOCC	(I)[R0], R1, SYMBOL_STR+1		
						02	BNEQ	5\$		
						51	CLRL	R1		
						51	TSTL	R1		
						09	BNEQ	7\$		
						8F	PUSHL	#UAF\$_INVUSERNAME		1300
						00AF	BRW	11\$		
						52	INCL	I		1299
						52	8\$: CML	I, R3		
						D8	BLEQU	4\$		
						68	MOVZWL	TOKENLEN, R7		1301
						57	MOVL	R7, USER_DSC		
						AE	MOVAB	RECBUF+4, USER_DSC+4		1302
						56	MOVZWL	DEFAULT_SIZE, R6		1310
	20	AB	FA7C			CA	MOVCS	R6, DEFAULT_RECORD, RECBUF		
						56	MOVL	TOKENPTR, R0		1311
						57	MOVCS	R7, (R0), #32, #32, RECBUF+4		
						AB				
						01	MOVL	#1, PWD_FLAG		1318
						56	MOVW	R6, UAFRAB+34		1319
						02	BISB2	#2, UAF\$GL_CTLMSK		1320
						00	CALLS	#0, UPDATE_RECORD		1321
						50	BLBS	R0, 9\$		
						02	BICB2	#2, UAF\$GL_CTLMSK		1324
						04	RET			1323
						02	9\$: BICB2	#2, UAF\$GL_CTLMSK		1328
						08	BLBC	PWD_FLAG, TOS		1330
						09	MOVZBW	DEFPASS, PWDDSC		1333
						09	MOVAB	DEFPASS+1, PWDDSC+4		1334
						08	PUSHAB	TIME_BUF		1335
						01	CALLS	#1, SYSSGETTIM		
						08	MOVW	TIME_BUF+3, RECBUF+358		1336
						02	MOVW	#2, RECBUF+360		1337
						5E	PUSHL	SP		1338
						08	MOVZWL	RECBUF+358, -(SP)		1339
						08	MOVZBL	RECBUF+360, -(SP)		1338
						5A	PUSHL	R10		
						09	PUSHAB	REC_ENCRYPT_DSC		
						05	CALLS	#5, LGISHPWD		
						08	10\$: PUSHAB	UAFRAB		1346
						01	CALLS	#1, SYSSPUT		
						50	MOVL	R0, RMSERR		
						50	BLBS	R0, 13\$		
						AB	MOVL	RMSERR, R0		1348
						50	CML	R0, #99564		
						0A	BNEQ	12\$		
						8F	PUSHL	#UAF\$_UAEERR		1349
						01	CALLS	#1, LIB\$SIGNAL		
						04	RET			
						50	12\$: PUSHL	R0		1350

add\_uaf - insert new user record

			7E	D4	00133	CLRL	-(SP)	
		00000000G	8F	DD	00135	PUSHL	#UAF\$ ADDERR	
		6B	03	FB	0013B	CALLS	#3, LIB\$SIGNAL	
				04	0013E	RET		1348
		00000000G	8F	DD	0013F	PUSHL	#UAF\$ ADDMSG	1357
		6B	01	FB	00145	CALLS	#1, LIB\$SIGNAL	
0E	A4	A8	03	E1	00148	BBC	#3, UAF\$GL_CTLMSK, 14\$	1358
09	A4	A8	04	E0	0014D	BBS	#4, UAF\$GL_CTLMSK, 14\$	1359
		00000000G	8F	DD	00152	PUSHL	#UAF\$ CLIWARNMSG	1360
		6B	01	FB	00158	CALLS	#1, LIB\$SIGNAL	
		00010002	8F	DD	0015B	PUSHL	#65538	1361
		00000000V	01	FB	00161	CALLS	#1, SECURITY AUDIT	
		F624	01	D0	00168	MOVL	#1, MODIFY FLAG	1362
			A9	9F	0016D	PUSHAB	SD ADD IDENTIFIER	1363
		00000000G	01	FB	00170	CALLS	#1, CLISPRESENT	
			50	E9	00177	BLBC	R0, 17\$	
			28					
			24	14	A8	E9	0017A	1364
				F5DB	CA	9F	0017E	1372
		00000000G	01	FB	00182	PUSHAB	SD ATTRIBRESOURCE	
			09			CALLS	#1, CLISPRESENT	
		00000000G	00			BLBC	R0, 15\$	
			01	D0	0018C	MOVL	#1, ATTRIBUTES	1373
			06	11	00193	BRB	16\$	
		00000000G	00	D4	00195	CLRL	ATTRIBUTES	1374
			00	FB	0019B	CALLS	#0, UAF\$ADD_IDENT_RECBUF	1375
			04	001A2	17\$:	RET		1378

; Routine Size: 419 bytes, Routine Base: \$CODE\$ + 0377

add\_proxy - insert new proxy record

```

1295 1379 1 %sbt:l 'add_proxy - insert new proxy record'
1296 1380 1 global routine add_proxy : novalue =
1297 1381 2 begin
1298 1382 2
1299 1383 2 :++
1300 1384 2
1301 1385 2 FUNCTIONAL DESCRIPTION:
1302 1386 2
1303 1387 2     This routine adds an entry to the NETUAF.DAT Proxy Login File
1304 1388 2
1305 1389 2 INPUTS:
1306 1390 2
1307 1391 2     none
1308 1392 2
1309 1393 2 OUTPUTS:
1310 1394 2
1311 1395 2     none
1312 1396 2
1313 1397 2 IMPLICIT INPUTS:
1314 1398 2
1315 1399 2     TOKENLEN, TOKENPTR
1316 1400 2
1317 1401 2 IMPLICIT OUTPUTS:
1318 1402 2
1319 1403 2     none
1320 1404 2
1321 1405 2 ROUTINE VALUE:
1322 1406 2
1323 1407 2     none
1324 1408 2
1325 1409 2 SIDE EFFECTS:
1326 1410 2
1327 1411 2     A record is added to NETUAF.DAT
1328 1412 2
1329 1413 2 --
1330 1414 2
1331 1415 2 local
1332 1416 2     node_len,
1333 1417 2     node_ptr,
1334 1418 2     remuser_len,
1335 1419 2     remuser_ptr,
1336 1420 2     locuser_len,
1337 1421 2     locuser_ptr.
1338 1422 2
1339 1423 2
1340 1424 2 : Can't do anything if there is no NETUAF.DAT...
1341 1425 2
1342 1426 2 if not .netuaf exists
1343 1427 2 then return LIB$SIGNAL(UAF$NAFDNE);
1344 1428 2
1345 1429 2
1346 1430 2 : Clear NETUAF.DAT buffer
1347 1431 2
1348 1432 2 ch$fill (' ', naf$c_length, netbuf);
1349 1433 2
1350 1434 2
1351 1435 2 : Retrieve token from command line

```

add\_proxy - insert new proxy record

```
1352 1436 2 |
1353 1437 2 | cli$get_value (sd_token1, tokendsc);
1354 1438 2 |
1355 1439 2 |
1356 1440 2 | : Make sure entry is in proper node::remoteuser format
1357 1441 2 |
1358 1442 2 | if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
1359 1443 2 | then return;
1360 1444 2 |
1361 1445 2 | : Fill in NETBUF with new remotename field
1362 1446 2 |
1363 1447 2 | ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
1364 1448 2 | ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
1365 1449 2 |
1366 1450 2 |
1367 1451 2 | : Now get second token, the local user name
1368 1452 2 |
1369 1453 2 | cli$get_value (sd_token2, tokendsc);
1370 1454 2 |
1371 1455 2 | locuser_len = .tokenlen;
1372 1456 2 | locuser_ptr = .tokenptr;
1373 1457 2 | :***if locuser_len gtru naf$s_localuser
1374 1458 2 | if .locuser_len gtru 12
1375 1459 2 | then return LIB$SIGNAL(UAF$NAMETOOBIG);
1376 1460 2 |
1377 1461 2 |
1378 1462 2 | : If local name is *, then use same name as remote user
1379 1463 2 |
1380 1464 2 | if .tokenlen eql 1 and .(.tokenptr)<0,8> eql '*'
1381 1465 2 | then
1382 1466 2 |   begin
1383 1467 2 |     locuser_len = .remuser_len;
1384 1468 2 |     ch$move (naf$s_remuser, netbuf[naf$t_remuser], netbuf[naf$t_localuser]);
1385 1469 2 |   end
1386 1470 2 |
1387 1471 2 | : Otherwise just copy into localuser field in NETBUF
1388 1472 2 |
1389 1473 2 | else
1390 1474 2 |   ch$copy (.locuser_len, .locuser_ptr, ' ',
1391 1475 2 |     naf$s_localuser, netbuf[naf$t_localuser]);
1392 1476 2 |
1393 1477 2 |
1394 1478 2 | : Make sure that the local user does indeed exist in SYSUAF.DAT
1395 1479 2 | (unless local user is *)
1396 1480 2 |
1397 1481 2 | if not locate_user (.locuser_len, netbuf[naf$t_localuser], 0)
1398 1482 2 | and not (.locuser_len eql 1 and .(netbuf[naf$t_localuser])<0,8> eql '*')
1399 1483 2 | then return LIB$SIGNAL(UAF$BADUSR, 2, .locuser_len, netbuf[naf$t_localuser]);
1400 1484 2 |
1401 1485 2 | nafrab[ra$b$w_rsz] = naf$c_length;
1402 1486 2 |
1403 1487 2 |
1404 1488 2 | : Add NETUAF.DAT record
1405 1489 2 |
1406 1490 2 | if rmsbad ($put (rab = nafrab))
1407 1491 2 | then
1408 1492 2 |   begin
```

add\_proxy - insert new proxy record

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```

: 1409      1493      if .rmserr eql rms$dup
: 1410      1494      then
: 1411      1495      return LIB$SIGNAL(UAF$ _NAFUAERR)
: 1412      1496      else
: 1413      1497      LIB$SIGNAL(UAF$ _NAFADDERR, 0, .rmserr)
: 1414      1498      end
: 1415      1499      else
: 1416      1500      begin
: 1417      1501      LIB$SIGNAL(UAF$ _NAFADDMSG);
: 1418      1502      security_audit (nsa$sk_recid_netuaf_add);
: 1419      1503      end;
: 1420      1504
: 1421      1505      netuaf_modified = true;
: 1422      1506      end;

```

				07FC 00000	.ENTRY	ADD PROXY, Save R2,R3,R4,R5,R6,R7,R8,R9,R10	: 1380
			5A	00000000G 00 9E 00002	MOVAB	CLISGET VALUE, P10	
			59	00000000G 00 9E 00009	MOVAB	LIB\$SIGNAL, R9	
			58	00000000' 00 9E 00010	MOVAB	NETBUF+64, R8	
			5E	10 C2 00017	SUBL2	#16, SP	
			08	FA2C C8 E8 0001A	BLBS	NETUAF EXISTS, 1\$	1426
				00000000G 8F DD 0001F	PUSHL	#UAF\$ _NAFDNE	1427
				5F 11 00025	BRB	3\$	
0064	8F	20	6E	00 2C 00027 1\$:	MOVCS	#0, (SP), #32, #100, NETBUF	1432
				CO AB 0002E			
				FA1C C8 9F 00030	PUSHAB	TOKENDSC	1437
				00000000' 00 9F 00034	PUSHAB	SD_TOKEN1	
			6A	02 FB 0003A	CALLS	#2, CLISGET_VALUE	
				5E DD 0003D	PUSHL	SP	1442
				08 AE 9F 0003F	PUSHAB	REMUSER_PTR	
				10 AE 9F 00042	PUSHAB	NODE_LEN	
				18 AE 9F 00045	PUSHAB	NODE_PTR	
				00000000V 00 04 FB 00048	CALLS	#4, REMOTE_PARSE	
			01	50 E8 0004F	BLBS	R0, 2\$	
				04 00052	RET		
20	20	0C	BE	08 AE 2C 00053 2\$:	MOVCS	NODE_LEN, @NODE_PTR, #32, #32, NETBUF	1447
				CO AB 0005A			
20	20	04	BE	6E 2C 0005C	MOVCS	REMUSER_LEN, @REMUSER_PTR, #32, #32, -	1448
				E0 AB 00062		NETBUF+32	
				FA1C C8 9F 00064	PUSHAB	TOKENDSC	1453
				00000000' 00 9F 00068	PUSHAB	SD_TOKEN2	
			6A	02 FB 0006E	CALLS	#2, CLISGET_VALUE	
			56	FA1C C8 3C 00071	MOVZWL	TOKENLEN, LOCUSER_LEN	1455
			57	FA20 C8 D0 00076	MOVL	TOKENPTR, LOCUSER_PTR	1456
			0C	56 D1 0007B	CMP'	LOCUSER_LEN, #12	1458
				08 1B 0007E	BLEQU	4\$	
				00000000G 8F DD 00080	PUSHL	#UAF\$ _NAMETOOBIG	1459
				77 11 00086 3\$:	BRB	9\$	
			01	FA1C C8 B1 00088 4\$:	CMPW	TOKENLEN, #1	1464
				14 12 0008D	BNEQ	5\$	
			50	FA20 C8 D0 0008F	MOVL	TOKENPTR, R0	
			2A	60 91 00094	CMPB	(R0), #42	
				0A 12 00097	BNEQ	5\$	



add\_proxy - insert new proxy record

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20	68	E0	56 A8	6E	D0	00099	MOVL	REMUSER_LEN, LOCUSER_LEN	1467
				20	28	0009C	MOVCS	#32, NETBUF+32, NETBUF+64	1468
				06	11	000A1	BRB	6\$	1464
	20		67	56	2C	000A3	5\$: MOVCS	LOCUSER_LEN, (LOCUSER_PTR), #32, #32, -	1475
				68		000A8		NETBUF+64	
				7E	D4	000A9	6\$: CLRL	-(SP)	1481
		0140		8F	BB	000AB	PUSHR	#^M<R6,R8>	
	00000000V	00		03	FB	000AF	CALLS	#3, LOCATE_USER	
		1A		50	E8	000B6	BLBS	R0, 8\$	
		01		56	D1	000B9	CMPL	LOCUSER_LEN, #1	1482
				05	12	000BC	BNEQ	7\$	
		2A		68	91	000BE	CMPB	NETBUF+64, #42	
				10	13	000C1	BEQL	8\$	
			0140	8F	BB	000C3	7\$: PUSHR	#^M<R6,R8>	1483
				02	DD	000C7	PUSHL	#2	
			00000000G	8F	DD	000C9	PUSHL	#UAF\$ BADUSR	
		69		04	FB	000CF	CALLS	#4, LIBSSIGNAL	
				04		000D2	RET		
	008A	C8	64	8F	9B	000D3	8\$: MOVZBW	#100, NAFRAB+34	1485
			68	A8	9F	000D9	PUSHAB	NAFRAB	1490
	00000000G	00		01	FB	000DC	CALLS	#1, SYSSPUT	
	FA34	C8		50	D0	000E3	MOVL	R0, RMSERR	
		27		50	E8	000E8	BLBS	R0, 11\$	
		50	FA34	C8	D0	000EB	MOVL	RMSERR, R0	1493
	000184EC	8F		50	D1	000F0	CMPL	R0, #99564	
				0A	12	000F7	BNEQ	10\$	
			00000000G	8F	DD	000F9	PUSHL	#UAF\$ NAFUAEERR	1495
		69		01	FB	000FF	9\$: CALLS	#1, LIBSSIGNAL	
					04	00102	RET		
				50	DD	00103	10\$: PUSHL	R0	1497
				7E	D4	00105	CLRL	-(SP)	
			00000000G	8F	DD	00107	PUSHL	#UAF\$ NAFADDERR	
		69		03	FB	0010D	CALLS	#3, LIBSSIGNAL	
				16	11	00110	BRB	12\$	1492
			00000000G	8F	DD	00112	11\$: PUSHL	#UAF\$ NAFADDMSG	1501
		69		01	FB	00118	CALLS	#1, LIBSSIGNAL	
			00010003	8F	DD	0011B	PUSHL	#65539	1502
	00000000V	00		01	FB	00121	CALLS	#1, SECURITY_AUDIT	
	00000000'	00		01	D0	00128	12\$: MOVL	#1, NETUAF_MODIFIED	1505
				04	0012F		RET		1506

: Routine Size: 304 bytes, Routine Base: \$CODE\$ + 051A

```
remote_parse - parses 'node::remoteuser'

1424 1507 1 %sbttl 'remote_parse - parses 'node::remoteuser''
1425 1508 1 routine remote_parse (node_ptr, node_len, remuser_ptr, remuser_len) =
1426 1509 2 begin
1427 1510 2
1428 1511 2 :++
1429 1512 2
1430 1513 2 FUNCTIONAL DESCRIPTION:
1431 1514 2
1432 1515 2 This routine parses a remote user specification in the form
1433 1516 2 node::remuser, and returns the two components by lengths
1434 1517 2 and pointers to the strings
1435 1518 2
1436 1519 2 INPUTS:
1437 1520 2
1438 1521 2 node_ptr - returned as pointer to nodename
1439 1522 2 node_len - " length of nodename
1440 1523 2 remuser_ptr - returned as pointer to remote user name
1441 1524 2 remuser_len - " length of remote user name
1442 1525 2
1443 1526 2 IMPLICIT INPUTS:
1444 1527 2
1445 1528 2 TOKENLEN and TOKENPTR - the remote user specification is assumed
1446 1529 2 to have just been fetched from the command line
1447 1530 2
1448 1531 2 OUTPUTS:
1449 1532 2
1450 1533 2 none
1451 1534 2
1452 1535 2 ROUTINE VALUE:
1453 1536 2
1454 1537 2 TRUE if parsed successfully
1455 1538 2 FALSE if error encountered in parsing
1456 1539 2
1457 1540 2 --
1458 1541 2
1459 1542 2 map
1460 1543 2 dbl_colon : vector;
1461 1544 2
1462 1545 2 local
1463 1546 2 dbl_colon_ptr;
1464 1547 2
1465 1548 2
1466 1549 2 : Better be able to find a double colon in the remotename...
1467 1550 2
1468 1551 2 dbl_colon_ptr = ch$find_sub (.tokenlen, .tokenptr, 2, .dbl_colon [1]);
1469 1552 2
1470 1553 2 if .dbl_colon_ptr eql 0 : no double colon found
1471 1554 2 or .dbl_colon_ptr eql .tokenptr : no node found
1472 1555 2 or .dbl_colon_ptr eql (.tokenptr + .tokenlen - 2) ! no remote user found
1473 1556 2 then return LIBSSIGNAL(UAF$BADNODFORM);
1474 1557 2
1475 1558 2
1476 1559 2 : Determine node length and pointer
1477 1560 2
1478 1561 2 .node_len = .dbl_colon_ptr - .tokenptr;
1479 1562 2 .node_ptr = .tokenptr;
1480 1563 2
```

```

1481 1564 2 |
1482 1565 2 | Make sure node name isn't too long
1483 1566 2 |
1484 1567 2 | ***if (.node_len) gtru naf$s_node
1485 1568 2 | if (.node_len) gtru 6
1486 1569 2 | then return LIB$SIGNAL(UAF$_NODTOOBIG);
1487 1570 2 |
1488 1571 2 |
1489 1572 2 | Determine remote username length and pointer
1490 1573 2 |
1491 1574 2 | .remuser_len = .tokenlen - (.node_len) - 2;
1492 1575 2 | .remuser_ptr = .dbl_colon_ptr + 2;
1493 1576 2 |
1494 1577 2 |
1495 1578 2 | And make sure name isn't too long
1496 1579 2 |
1497 1580 2 | ***if (.remuser_len) gtru naf$s_remuser
1498 1581 2 | if (.remuser_len) gtru 12
1499 1582 2 | then return LIB$SIGNAL(UAF$_NAMETOOBIG);
1500 1583 2 |
1501 1584 2 | return true;
1502 1585 1 | end;

```

				007C 00000	REMOTE_PARSE:			
			56	00000000'	00 9E 00002	.WORD	Save R2,R3,R4,R5,R6	1508
			55		66 3C 00009	MOVAB	TOKENLEN, R6	
			54	04	A6 D0 0000C	MOVZWL	TOKENLEN, R5	1551
			50	00000000'	00 D0 00010	MOVL	TOKENPTR, R4	
64		55	60		02 39 00017	MOVL	DBL_COLON+4, R0	
					03 13 0001C	MATCHC	#2, (R0), R5, (R4)	
					03 13 0001C	BEQL	1\$	
			53		02 D0 0001E	MOVL	#2, R3	
			53		02 C2 00021	SUBL2	#2, R3	
					0F 13 00024	BEQL	2\$	1553
			54		53 D1 00026	CMP	DBL_COLON_PTR, R4	1554
					0A 13 00029	BEQL	2\$	
			50	FE A544	9E 0002B	MOVAB	-2(R5)[R4], R0	1555
			50		53 D1 00030	CMP	DBL_COLON_PTR, R0	
					08 12 00033	BNEQ	3\$	
				00000000G	8F DD 00035	PUSHL	#UAF\$_BADNODFORM	1556
					38 11 00038	BRB	5\$	
			50	04	A6 D0 0003D	MOVL	TOKENPTR, R0	1561
	08	BC	53		50 C3 00041	SUBL3	R0, DBL_COLON_PTR, @NODE_LEN	
			04	BC	50 D0 00046	MOVL	R0, @NODE_PTR	1562
			06	08	BC D1 0004A	CMP	@NODE_LEN, #6	1568
					08 1B 0004E	BLEQU	4\$	
				00000000G	8F DD 00050	PUSHL	#UAF\$_NODTOOBIG	1569
					1D 11 00056	BRB	5\$	
			50		66 3C 00058	MOVZWL	TOKENLEN, R0	1574
			50	08	BC C2 0005B	SUBL2	@NODE_LEN, R0	
	10		BC	FE	A0 9E 0005F	MOVAB	-2(R0), @REMUSER_LEN	
	0C		BC	02	A3 9E 00064	MOVAB	2(R3), @REMUSER_PTR	1575
			0C	10	BC D1 00069	CMP	@REMUSER_LEN, #T2	1581

UAFMAIN  
V04-000

remote\_parse - parses "node::remoteuser"

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		0E	1B	0006D		BLEQU	6\$	
		8F	DD	0006F		PUSHL	#UAF\$NAMETOOBIG	
00000000G	00	01	FB	00075	5\$:	CALLS	#1, LIB\$SIGNAL	1582
			04	0007C		RET		
	50	01	D0	0007D	6\$:	MOVL	#1, R0	1584
			04	00080		RET		1585

; Routine Size: 129 bytes. Routine Base: \$CODE\$ + 064A

UA  
VO

copy\_uaf - copy user record

```

1504 1586 1 %sbttl 'copy_uaf - copy user record'
1505 1587 1 global routine copy_uaf =
1506 1588 2 begin
1507 1589 2
1508 1590 2 +-
1509 1591 2
1510 1592 2 FUNCTIONAL DESCRIPTION:
1511 1593 2
1512 1594 2 Routine to copy a user authorization record, giving the
1513 1595 2 new authorization record a different name.
1514 1596 2
1515 1597 2 INPUTS:
1516 1598 2
1517 1599 2 none
1518 1600 2
1519 1601 2 IMPLICIT INPUTS:
1520 1602 2
1521 1603 2 none
1522 1604 2
1523 1605 2 OUTPUTS:
1524 1606 2
1525 1607 2 none
1526 1608 2
1527 1609 2 ROUTINE VALUE:
1528 1610 2
1529 1611 2 false if the copy fails;
1530 1612 2 true if the copy succeeds.
1531 1613 2
1532 1614 2 SIDE EFFECTS:
1533 1615 2
1534 1616 2 A user record is added.
1535 1617 2
1536 1618 2 --
1537 1619 2
1538 1620 2 local
1539 1621 2
1540 1622 2 status,
1541 1623 2 flag,
1542 1624 2 lock_rec,
1543 1625 2 def_sys,
1544 1626 2 old_user_buffer : vector [uaf$s_username, byte];
1545 1627 2
1546 1628 2 map
1547 1629 2 tokenptr : ref vector [,byte];
1548 1630 2
1549 1631 2 uaf$gl_ctlmsk[uaf$v_copy] = not .uaf$gl_ctlmsk[uaf$v_rename];
1550 1632 2
1551 1633 2 If this is a COPY directly from the UAF> prompt, the authorization
1552 1634 2 record need not be locked, and the default and system records may be
1553 1635 2 copied. HOWEVER, if this COPY is part of a RENAME operation, the record
1554 1636 2 must be locked, and the default and system records may not be renamed.
1555 1637 2 (The RENAME operation is similar to the COPY operation except that
1556 1638 2 the original record is REMOVE'd. COPY leaves both records.)
1557 1639 2
1558 1640 2 if not .uaf$gl_ctlmsk[uaf$v_rename]
1559 1641 2 then
1560 1642 2 begin

```

```

copy_uaf - copy user record

: 1561      1643      3      lock_rec = false;          ! A COPY operation
: 1562      1644      3      def_sys = true;
: 1563      1645      3      flag = false;
: 1564      1646      3      end
: 1565      1647      3      else
: 1566      1648      3      begin
: 1567      1649      3      lock_rec = true;          ! A RENAME operation
: 1568      1650      3      def_sys = false;
: 1569      1651      3      flag = true;
: 1570      1652      3      end;
: 1571      1653      3
: 1572      1654      3
: 1573      1655      3      Place record to be copied into RECBUF
: 1574      1656      3      (If the third argument is true, the call to GET USER RECORD
: 1575      1657      3      is part of a RENAME operation, and the first token should be saved.
: 1576      1658      3      If the third argument is false, the call is part of a COPY
: 1577      1659      3      operation, and the first token need not be saved.)
: 1578      1660      3
: 1579      1661      3
: 1580      1662      3      if get_user_record (.lock_rec, .def_sys, .flag)
: 1581      1663      3      then
: 1582      1664      3          begin
: 1583      1665      3              if not cli$present (sd_token2)
: 1584      1666      3              or not cli$get_value (sd_token2, tokendsc)
: 1585      1667      3              or .tokenlen eql 0
: 1586      1668      3              then return LIB$SIGNAL(UAF$_NOUSERNAME);
: 1587      1669      3
: 1588      1670      3
: 1589      1671      3          Make sure that the new username isn't too long
: 1590      1672      3
: 1591      1673      3          *** if .tokenlen gtru uaf$s_username
: 1592      1674      3          if .tokenlen gtru 12
: 1593      1675      3          then LIB$SIGNAL(UAF$_NAMETOOBIG);
: 1594      1676      3
: 1595      1677      3
: 1596      1678      3          Make sure that the new username is legal
: 1597      1679      3
: 1598      1680      3          incru i to .tokenlen - 1
: 1599      1681      3          do
: 1600      1682      3              if ch$fail (ch$find_ch (.symbol_str<0,8>,
: 1601      1683      3                  symbol_str + 1,
: 1602      1684      3                  .tokenptr [.i]))
: 1603      1685      3              then return LIB$SIGNAL(UAF$_INVUSERNAME);
: 1604      1686      3
: 1605      1687      3
: 1606      1688      3          If this is a rename save the new user name
: 1607      1689      3
: 1608      1690      3          if .uaf$gl_ctlmsk[uaf$v_rename]
: 1609      1691      3          then
: 1610      1692      3              begin
: 1611      1693      3                  ch$move (.tokenlen, .tokenptr, newusername);
: 1612      1694      3                  newuserlen = .tokenlen;
: 1613      1695      3              end ;
: 1614      1696      3
: 1615      1697      3
: 1616      1698      3          Place the new username in RECBUF, but save the old username first
: 1617      1699      3

```

copy\_uaf - copy user record

```

1618      1700      3      ch$move (uaf$s_username, rec'uf[uaf$t_username], old_user_buffer);
1619      1701      3      ch$copy (.tokenlen, .tokenpt,
1620      1702      3      uaf$s_username, recbuf[uaf$t_username]);
1621      1703      3      pwd_flag = true;
1622      1704      3
1623      1705      3      status = update_record ();
1624      1706      3      if not .status
1625      1707      3      then return false;
1626      1708      3
1627      1709      3      :
1628      1710      3      : If this is a copy operation then zero fill the last login info
1629      1711      3      :
1630      1712      3      if not .uaf$gl_ctlmsk[uaf$v_rename]
1631      1713      3      then
1632      1714      4      begin
1633      1715      4      recbuf[uaf$w_logfails] = 0 ;
1634      1716      4      ch$fill ( 0, uaf$s_lastlogin_i, recbuf[uaf$q_lastlogin_i] ) ;
1635      1717      4      ch$fill ( 0, uaf$s_lastlogin_n, recbuf[uaf$q_lastlogin_n] ) ;
1636      1718      4      end ;
1637      1719      3
1638      1720      3      :
1639      1721      3      : Now output the new record
1640      1722      3      :
1641      1723      4      if rmsbad ($put (rab = uaf$rab))
1642      1724      3      then
1643      1725      4      begin
1644      1726      4      if .rmserr eql rms$dup
1645      1727      4      then
1646      1728      4      return LIB$SIGNAL(UAF$UACERR)      ! username already exists
1647      1729      4      else
1648      1730      5      begin
1649      1731      5      LIB$SIGNAL(UAF$ADDERR, 0, .rmserr);
1650      1732      5      return false;
1651      1733      5      end
1652      1734      4      end
1653      1735      3      else
1654      1736      3      :
1655      1737      3      : The copy was successful -- tell the user and set modify flag
1656      1738      3      :
1657      1739      4      begin
1658      1740      4      modify_flag = true;
1659      1741      5      security_audit ((if not .uaf$gl_ctlmsk[uaf$v_rename]
1660      1742      5      then ns$sk_recid_sysuaf_cop
1661      1743      4      else ns$sk_recid_sysuaf_ren),
1662      1744      4      old_user_buffer);
1663      1745      4      if not .uaf$gl_ctlmsk[uaf$v_rename]
1664      1746      4      then
1665      1747      5      begin
1666      1748      5      LIB$SIGNAL(UAF$COPMSG);
1667      1749      6      if (.uaf$gl_ctlmsk[uaf$v_cli]
1668      1750      6      and not .uaf$gl_ctlmsk[uaf$v_clitables])
1669      1751      5      and .uaf$gl_ctlmsk[uaf$v_clitab_pres]
1670      1752      5      then LIB$SIGNAL(UAF$CLIDARMMSG);
1671      1753      5      :
1672      1754      5      : Since passwords are folded in with the username, passwords for
1673      1755      5      : COPIed records will no longer work--warn the user
1674      1756      5

```

copy\_uaf - copy user record

```

: 1675 1757 5      if .pwd flag
: 1676 1758 5      then LIBSSIGNAL(UAF$_DEFPWD);
: 1677 1759 5      uaf$gl_ctlmsk[uaf$u_copy] = false;
: 1678 1760 6      if (cli$present ( sd_add_identifier ) and
: 1679 1761 6          .rdb_exists )
: 1680 1762 5      then
: 1681 1763 6          begin
: 1682 1764 6              Set the resource attribute if /ATTRIB=RESOURCE was specified
: 1683 1765 6              and then add the appropriate identifiers to the rights data base
: 1684 1766 6              if cli$present (sd_attribresource)
: 1685 1767 6                  then attributes = kgb$m_resource
: 1686 1768 6                  else attributes = 0 ;
: 1687 1769 6              uaf$add_ident_recbuf ( ) ;
: 1688 1770 6              end;
: 1689 1771 6          end;
: 1690 1772 5      end;
: 1691 1773 4      end;
: 1692 1774 3      end;
: 1693 1775 2      end;
: 1694 1776 1      ;
: 1695 1777 1      ;
: 1696 1778 1      ; The attempt to GET_USER_RECORD failed...
: 1697 1779 1      ;
: 1698 1780 2      else return false;
: 1699 1781 2      ;
: 1700 1782 2      ;
: 1701 1783 2      ; If we get here, everything succeeded -- return true
: 1702 1784 2      ;
: 1703 1785 2      return true;
: 1704 1786 2      ;
: 1705 1787 1      end;

```

			OFFC 00000	.ENTRY	COPY_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-;	1587
		5B	00000000G	00 9E 00002	MOVAB	R11
		5A	00000000'	00 9E 00009	MOVAB	CLISPRESNT, R11
		59	00000000'	00 9E 00010	MOVAB	NEWUSERNAME, R10
		58	00000000G	00 9E 00017	MOVAB	SD TOKEN2, R9
		57	00000000'	00 9E 0001E	MOVAB	LIBSSIGNAL, R8
		5F		20 C2 00025	MOVAB	UAF\$GL_CTLMSK, R7
50	67	01		00 EF 00028	SUBL2	#32, SP
		50		50 92 00020	EXTZV	#0, #1, UAF\$GL_CTLMSK, R0
67	01	02		50 F0 00030	MCOMB	R0, R0
		07		67 E8 00035	INSV	R0, #2, #1, UAF\$GL_CTLMSK
		51		01 7D 00038	BLBS	UAF\$GL_CTLMSK, 18
				50 D4 00038	MOVQ	#1, DEF_SYS
				06 11 0003D	CLRL	FLAG
		52		01 D0 0003F	BRB	28
		50		01 7C 00042	MOVL	#1, LOCK_REC
				50 DD 00045	MOVQ	#, FLAG
				51 DD 00047	PUSHL	FLAG
				52 DD 00049	PUSHL	DEF_SYS
				03 FB 0004B	PUSHL	LOCK_REC
					CALLS	#3, GET_USER_RECORD
						1631
						1640
						1644
						1645
						1640
						1649
						1651
						1662



		03		50	E8	00052	BLBS	R0, 3\$	
				0169	31	00055	BRW	25\$	
		68		59	DD	00058	3\$: PUSHL	R9	1665
		14		01	FB	0005A	CALLS	#1, CLISPRESNT	
				50	E9	0005D	BLBC	R0, 4\$	
			5C	A7	9F	0C060	PUSHAB	TOKENDSC	1666
				59	DD	00063	PUSHL	R9	
	00000000G	00		02	FB	00065	CALLS	#2, CLISGET_VALUE	
		05		50	E9	0006C	BLBC	R0, 4\$	
			5C	A7	B5	0006F	TSTW	TOKENLEN	1667
				08	12	00072	BNEQ	5\$	
	00000000G			8F	DD	00074	4\$: PUSHL	#UAF\$_NOUSERNAME	1668
				37	11	0007A	BRB	9\$	
		0C		A7	B1	0007C	5\$: CMPW	TOKENLEN, #12	1674
				09	1B	00080	BLEQU	6\$	
	00000000G			8F	DD	00082	PUSHL	#UAF\$_NAMETOOBIG	1675
		68		01	FB	00088	CALLS	#1, LIBSSIGNAL	
		53		A7	3C	0008B	6\$: MOVZWL	TOKENLEN, R3	1680
				53	D7	0008F	DECL	R3	
				52	D4	00091	CLRL	I	
				22	11	00093	BRB	11\$	
		51		C9	9A	00095	7\$: MOVZBL	SYMBOL_STR, R1	1682
	01DD	50		A7	D0	0C09A	MOVL	TOKENPTR, R0	1684
		51		60	240	3A	LOCC	(I)[R0], R1, SYMBOL_STR+1	
				02	12	000A5	BNEQ	8\$	
				51	D4	000A7	CLRL	R1	
				51	D5	000A9	8\$: TSTL	R1	
				08	12	000AB	BNEQ	10\$	
	00000000G			8F	DD	000AD	PUSHL	#UAF\$_INVUSERNAME	1685
				78	11	000B3	9\$: BRB	14\$	
				52	D6	000B5	10\$: INCL	I	1684
		53		52	D1	000B7	11\$: CMPL	I, R3	
				D9	1B	000BA	BLEQU	7\$	
		10		67	E9	000BC	BLBC	UAF\$GL_CTLMSK, 12\$	1690
		56		A7	3C	000BF	MOVZWL	TOKENLEN, R6	1693
		50		A7	D0	000C3	MOVL	TOKENPTR, R0	
		60		6A	28	000C7	MOVCS	R6, (R0), NEWUSERNAME	
		AA		56	D0	000CB	MOVL	R6, NEWUSERLEN	1694
		C7		20	28	000CF	12\$: MOVCS	#32, RECBUF+4, OLD_USER_BUFFER	1700
		50		A7	D0	000D5	MOVL	TOKENPTR, R0	1701
		60		20	2C	000D9	MOVCS	TOKENLEN, (R0), #32, #32, RECBUF+4	1702
				0080	C7	000DF			
				01	D0	000E2	MOVL	#1, PWD_FLAG	1703
	06F4	C7		00	FB	000E7	CALLS	#0, UPD_XTE_RECORD	1705
	00000000G	00		50	E9	000EE	BLBC	STATUS, 16\$	1704
		4D		67	E8	000F1	BLBS	UAF\$GL_CTLMSK, 13\$	1712
		14		C7	B4	000F4	CLRW	RECBUF+356	1715
				01E0	2C	000F8	MOVCS	#0, (SP), #0, #8, RECBUF+396	1716
08		00		6E	C7	000FD			
				0208	2C	00100	MOVCS	#0, (SP), #0, #8, RECBUF+404	1717
08		00		6E	C7	00105			
				0210	C7	00105			
				0664	C7	9F	13\$: PUSHAB	UAFRAB	1723
				0C	01	FB	CALLS	#1, SYSSPUT	
				A7	50	D0	MOVL	R0, RMSERR	
				27	50	E8	BLBS	R0, 17\$	
				50	A7	D0	MOVL	RMSERR, PC	1726
	000184EC	8F		50	D1	0011E	CMPL	R0, #99564	

		0A	12	00:25	BNEQ	15\$		
	00000000G	8F	DD	00127	PUSHL	#UAF\$ UAEERR		1728
68		01	FB	0012D	CALLS	#1, LIB\$SIGNAL		1730
			04	00130	RET			1731
		50	DD	00131	PUSHL	RO		
		7E	D4	00133	CLRL	-(SP)		
	00000000G	8F	DD	00135	PUSHL	#UAF\$ ADDERR		
68		03	FB	0013B	CALLS	#3, LIB\$SIGNAL		
		0080	31	0013E	BRW	25\$		1732
CC	AA	01	DD	00141	MOVL	#1, MODIFY_FLAG		1740
		5E	DD	00145	PUSHL	SP		1741
08		67	EB	00147	BLBS	UAF\$GL CTLMSK, 18\$		
	00040002	8F	DD	0014A	PUSHL	#26214\$		
		06	11	00150	BRB	19\$		
	00050002	8F	DD	00152	PUSHL	#327682		
00000000v	00	02	FB	00158	CALLS	#2, SECURITY_AUDIT		
	58	67	EB	0015F	BLBS	UAF\$GL CTLMSR, 24\$		1745
	00000000G	8F	DD	00162	PUSHL	#UAF\$ TOPMSG		1748
		01	FB	00168	CALLS	#1, LIB\$SIGNAL		
11	67	03	E1	0016B	BBC	#3, UAF\$GL CTLMSK, 20\$		1749
0D	67	04	E0	0016F	BBS	#4, UAF\$GL CTLMSK, 20\$		1750
09	67	05	E1	00173	BBC	#5, UAF\$GL CTLMSK, 20\$		1751
	00000000G	8F	DD	00177	PUSHL	#UAF\$ CLIWARNMSG		1752
		01	FB	0017D	CALLS	#1, LIB\$SIGNAL		
68		09	06F4	C7	E9	00180	20\$:	1757
	00000000G	8F	DD	00185	PUSHL	#UAF\$ DEFPWD		1758
		01	FB	0018B	CALLS	#1, LIB\$SIGNAL		
68		04	8A	0018E	BICB2	#4, UAF\$GL CTLMSK		1759
67		34	A9	9F	00191	PUSHAB	SD_ADD_IDENTIFIER	1760
		01	FB	00194	CALLS	#1, CLISPRESNT		
68		50	E9	00197	BLBC	RO, 24\$		
23		70	A7	E9	0019A	BLBC	RDB_EXISTS, 24\$	1761
1F		80	AA	9F	0019E	PUSHAB	SD_ATTRIBRESOURCE	1768
		01	FB	001A1	CALLS	#1, CLISPRESNT		
68		50	E9	001A4	BLBC	RO, 22\$		
09	00000000G	00	01	DD	001A7	MOVL	#1, ATTRIBUTES	1769
		06	11	001AE	BRB	23\$		
	00000000G	00	D4	001B0	CLRL	ATTRIBUTES		1770
00000000G	00	00	FB	001B6	CALLS	#0, UAF\$ADD_IDENT_RECBUF		1771
	50	01	DD	001BD	MOVL	#1, RO		1785
			04	001C0	RET			
		50	D4	001C1	CLRL	RO		1787
		04	001C3	RET				

; Routine Size: 452 bytes, Routine Base: \$CODE\$ + 06CB

```

: 1707      1788 1 %sbttl 'create_proxy - create NETUAF.DAT proxy file'
: 1708      1789 1 global routine create_proxy : novalue =
: 1709      1790 2 begin
: 1710      1791 2
: 1711      1792 2 |++
: 1712      1793 2 |
: 1713      1794 2 |
: 1714      1795 2 | FUNCTIONAL DESCRIPTION:
: 1715      1796 2 |
: 1716      1797 2 |     This routine will create a DECnet Proxy Login File,
: 1717      1798 2 |     if and only if it does not already exist,
: 1718      1799 2 |     called NETUAF.DAT, in order to map remote users into
: 1719      1800 2 |     local accounts.
: 1720      1801 2 |
: 1721      1802 2 | INPUTS:
: 1722      1803 2 |
: 1723      1804 2 |     none
: 1724      1805 2 |
: 1725      1806 2 | OUTPUTS:
: 1726      1807 2 |
: 1727      1808 2 |     none
: 1728      1809 2 |
: 1729      1810 2 | IMPLICIT INPUTS:
: 1730      1811 2 |
: 1731      1812 2 |     none
: 1732      1813 2 |
: 1733      1814 2 | IMPLICIT OUTPUTS:
: 1734      1815 2 |
: 1735      1816 2 |     none
: 1736      1817 2 |
: 1737      1818 2 | SIDE EFFECTS:
: 1738      1819 2 |
: 1739      1820 2 |     NETUAF.DAT is created and initialized
: 1740      1821 2 |
: 1741      1822 2 | --
: 1742      1823 2 |
: 1743      1824 2 |
: 1744      1825 2 | NETUAF.DAT should not already exist
: 1745      1826 2 |
: 1746      1827 2 | if .netuaf_exists
: 1747      1828 2 | then
: 1748      1829 2 |     begin
: 1749      1830 2 |     LIBSSIGNAL(UAF$_NAFAEX);
: 1750      1831 2 |     return;
: 1751      1832 2 |     end;
: 1752      1833 2 |
: 1753      1834 2 |
: 1754      1835 2 | Should be able to create NETUAF.DAT with no problems
: 1755      1836 2 |
: 1756      1837 2 | if rmsbad ($create (fab = naffab))
: 1757      1838 2 | then LIBSSIGNAL(UAF$_NAFCREERR, 0, .rmserr);
: 1758      1839 2 |
: 1759      1840 2 |
: 1760      1841 2 | Should connect ok, too
: 1761      1842 2 |
: 1762      1843 2 | if rmsbad ($connect (rab = nafcab))
: 1763      1844 2 | then LIBSSIGNAL(UAF$_NAFCONERR, 0, .rmserr);

```

```

: 1764      1845 2
: 1765      1846 2
: 1766      1847 2
: 1767      1848 2
: 1768      1849 2
: 1769      1850 2
: 1770      1851 2
: 1771      1852 2
: 1772      1853 2
: 1773      1854 2
: 1774      1855 2
: 1775      1856 2
: 1776      1857 2
: 1777      1858 2
: 1778      1859 2
: 1779      1860 2
: 1780      1861 2
: 1781      1862 2
: 1782      1863 1

```

```

create_proxy - create NETUAF.DAT proxy file

: Normal access is by key
nafrab [rab$b_rac] = rab$c_key;

: Establish proper addresses
nafrab [rab$l_uf] = netbuf;
nafrab [rab$l_rbf] = netbuf;

: Set NETUAF.DAT existence flag
netuaf_exists = true;
netuaf_modified = true;

1 end;

```

		000C 00000		.ENTRY	CREATE PROXY, Save R2,R3	: 1789
	53	00000000G	00 9E 00002	MOVAB	LIBSSIGNAL, R3	
	52	00000000'	00 9E 00009	MOVAB	RMSERR, R2	
	CA	FB	A2 E9 00010	BLBC	NETUAF_EXISTS, 1\$	: 1827
		00000000G	8F DD 00014	PUSHL	#UAF\$ NAFAEX	: 1830
	63		01 FB 0001A	CALLS	#1, LIBSSIGNAL	
			04 0001D	RET		: 1829
		00000000'	00 9F 0001E 1\$:	PUSHAB	NAFFAB	: 1837
	00000000G		01 FB 00024	CALLS	#1, SYSSCREATE	
	62		50 D0 0002B	MOVL	R0, RMSERR	
	OD		50 E8 0002E	BLBS	R0, 2\$	
			62 DD 00031	PUSHL	RMSERR	: 1838
			7E D4 00033	CLRL	-(SP)	
		00000000G	8F DD 00035	PUSHL	#UAF\$ NAFCREERR	
	63		03 FB 0003B	CALLS	#3, LIBSSIGNAL	
		0634	C2 9F 0003E 2\$:	PUSHAB	NAFRAB	: 1843
	00000000G		01 FB 00042	CALLS	#1, SYSSCONNECT	
	62		50 D0 00049	MOVL	R0, RMSERR	
	OD		50 E8 0004C	BLBS	R0, 3\$	
			62 DD 0004F	PUSHL	RMSERR	: 1844
			7E D4 00051	CLRL	-(SP)	
		00000000G	8F DD 00053	PUSHL	#UAF\$ NAFCONERR	
	63		03 FB 00059	CALLS	#3, LIBSSIGNAL	
	0652		01 90 0005C 3\$:	MOVB	#1, NAFRAB+30	: 1849
	0658	058C	C2 9E 00061	MOVAB	NETBUF, NAFRAB+36	: 1854
	065C	058C	C2 9E 00068	MOVAB	NETBUF, NAFRAB+40	: 1855
	FB		01 D0 0006F	MOVL	#1, NETUAF_EXISTS	: 1860
	00000000'		01 D0 00073	MOVL	#1, NETUAF_MODIFIED	: 1861
			04 0007A	RET		: 1863

: Routine Size: 123 bytes, Routine Base: \$CODE\$ + 088F

modify\_uaf - update user record (s)

```

1784 1864 1 %sbttl 'modify_uaf - update user record (s)'
1785 1865 1 global routine modify_uaf : novalue =
1786 1866 1 begin
1787 1867 1
1788 1868 1 ++
1789 1869 1
1790 1870 1 FUNCTIONAL DESCRIPTION:
1791 1871 1
1792 1872 1 Routine to modify any of the fields in one or more user records.
1793 1873 1
1794 1874 1 INPUTS:
1795 1875 1
1796 1876 1 none
1797 1877 1
1798 1878 1 IMPLICIT INPUTS:
1799 1879 1
1800 1880 1 none
1801 1881 1
1802 1882 1 OUTPUTS:
1803 1883 1
1804 1884 1 none
1805 1885 1
1806 1886 1 IMPLICIT OUTPUTS:
1807 1887 1
1808 1888 1 none
1809 1889 1
1810 1890 1 SIDE EFFECTS:
1811 1891 1
1812 1892 1 none
1813 1893 1
1814 1894 1 ROUTINE VALUE:
1815 1895 1
1816 1896 1 none
1817 1897 1 --
1818 1898 1
1819 1899 1 local
1820 1900 1 status;
1821 1901 1
1822 1902 1
1823 1903 1 Obtain the user specification. This sets wildcard flags and initializes
1824 1904 1 the appropriate key in RECBUF.
1825 1905 1
1826 1906 1
1827 1907 1 if not parse_wild (sd_token1,false) ! Null string is disallowed
1828 1908 1 then return;
1829 1909 1
1830 1910 1 uafwab[ra$b_l_rop] = ra$b_m_rlk; ! Lock records for writing
1831 1911 1 ra$b_ptr = outwab;
1832 1912 1 found_match = false;
1833 1913 1
1834 1914 1 if rmsbad (status = wild_user (modify_rec)) ! Modify each record
1835 1915 1 then
1836 1916 1 begin
1837 1917 1 if .rmserr eql rms$rnf
1838 1918 1 then
1839 1919 1 LIB$SIGNAL(UAF$BADSPC)
1840 1920 1 else

```

```

: 1841      1921      4      (if .rmserr neq 0
: 1842      1922      4      then
: 1843      1923      4      LIBSSIGNAL(UAF$ MDFYERR, 0, .rmserr))
: 1844      1924      3      end
: 1845      1925      2      else
: 1846      1926      2      begin
: 1847      1927      2      if .status and .found_match
: 1848      1928      3      then
: 1849      1929      4      begin
: 1850      1930      4      LIBSSIGNAL(UAF$ MDFYMSG);
: 1851      1931      5      if (.uaf$gl_ctlmsk[uaf$y_cli]
: 1852      1932      5      and not .uaf$gl_ctlmsk[uaf$y_clitables])
: 1853      1933      4      and .uaf$gl_ctlmsk[uaf$y_cli$ab_pres]
: 1854      1934      4      then LIBSSIGNAL(UAF$ CLIWARNMSG);
: 1855      1935      3      end;
: 1856      1936      2      end;
: 1857      1937      1      end;

```

			001C 00000	.ENTRY	MODIFY_UAF, Save R2,R3,R4	1865
	54	00000000G	00 9E 00002	MOVAB	LIBSSIGNAL, R4	
	53	00000000'	00 9E 00009	MOVAB	UAF\$GL_CTLMSK, R3	
			7E D4 00010	CLRL	-(SP)	1907
		00000000''	00 9F 00012	PUSHAB	SD_TOKEN1	
00000000G	00		02 FB 00018	CALLS	#2, PARSE_WILD	
	71		50 E9 0001F	BLBC	R0, 4\$	
0668	C3	00080000	8F D0 00022	MOVL	#524288, UAFRAB+4	1910
F4	A3	06F8	C3 9E 0002B	MOVAB	OUTRAB, RABPTR	1911
		073C	C3 D4 00031	CLRL	FOUND_MATCH	1912
		00000000V	00 9F 00035	PUSHAB	MODIFY_REC	1914
00000000V	00		01 FB 0003B	CALLS	#1, WILD_USER	
	A3		50 D0 00042	MOVL	STATUS, RMSERR	
	27		50 E8 00046	BLBS	STATUS, 2\$	
	52	74	A3 D0 00049	MOVL	RMSERR, R2	1917
000182B2	8F		52 D1 0004D	CML	R2, #98994	
			08 12 00054	BNEQ	1\$	
		00000000G	8F DD 00056	PUSHL	#UAF\$_BADSPC	1919
			32 11 0005C	BRB	3\$	
			52 D5 0005E 1\$:	TSTL	R2	1921
			31 13 00060	BEQL	4\$	
			52 DD 00062	PUSHL	R2	1923
			7E D4 00064	CLRL	-(SP)	
		00000000G	8F DD 00064	PUSHL	#UAF\$ MDFYERR	
	64		03 FB 0006C	CALLS	#3, LIBSSIGNAL	
			04 0006F	RET		1916
	1E	073C	C3 E9 00070 2\$:	BLBC	FOUND_MATCH, 4\$	1927
		00000000G	8F DD 00075	PUSHL	#UAF\$ MDFYMSG	1930
	64		01 FB 0007B	CALLS	#1, LIBSSIGNAL	
11	63		03 E1 0007E	BBC	#3, UAF\$GL_CTLMSK, 4\$	1931
0D	63		04 E0 00082	BBS	#4, UAF\$GL_CTLMSK, 4\$	1932
09	63		05 E1 00086	BBC	#5, UAF\$GL_CTLMSK, 4\$	1933
		00000000G	8F DD 0008A	PUSHL	#UAF\$ CLIWARNMSG	1934
	64		01 FB 00090 3\$:	CALLS	#1, LIBSSIGNAL	
			04 00093 4\$:	RET		1937

UAFMAIN  
V04-000

modify\_uaf - update user record (s)

K 9  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

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[UAF.BUGSRC]UAFMAIN.B32;1

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; Routine Size: 148 bytes. Routine Base: \$CODES + 090A

U  
V



```

1859 1938 1 %sbttl 'modify_rec - update a user record action routine'
1860 1939 1 routine modify_rec =
1861 1940 2 begin
1862 1941 2
1863 1942 2 --
1864 1943 2
1865 1944 2 FUNCTIONAL DESCRIPTION:
1866 1945 2
1867 1946 2     Modify an individual user record.
1868 1947 2
1869 1948 2 INPUTS:
1870 1949 2
1871 1950 2     none
1872 1951 2
1873 1952 2 IMPLICIT INPUTS:
1874 1953 2
1875 1954 2     RABPTR - RMS data structure for the file
1876 1955 2
1877 1956 2 OUTPUTS:
1878 1957 2
1879 1958 2     none
1880 1959 2
1881 1960 2 IMPLICIT OUTPUTS:
1882 1961 2
1883 1962 2     none
1884 1963 2
1885 1964 2 SIDE EFFECTS:
1886 1965 2
1887 1966 2     none
1888 1967 2
1889 1968 2 ROUTINE VALUE:
1890 1969 2
1891 1970 2     If an error is encountered the appropriate status is returned
1892 1971 2     except if the error message has already been output in which
1893 1972 2     case 0 is returned.
1894 1973 2 --
1895 1974 2
1896 1975 2 local
1897 1976 2     old_uic      : $bblock[4],
1898 1977 2     new_uic      : $bblock[4],
1899 1978 2     oldaccname   : vector [uaf$s_account,byte],
1900 1979 2     newaccname   : vector [uaf$s_account,byte],
1901 1980 2     oldaccdesc   : statdesc ,
1902 1981 2     newaccdesc   : statdesc ,
1903 1982 2     status       : long ;
1904 1983 2
1905 1984 2
1906 1985 2 User record has been read into RECBUF by caller. Update values
1907 1986 2 and modify the record.
1908 1987 2
1909 1988 2 When accessing records by uic, this routine is called repeatedly
1910 1989 2 from WILD_USER. UPDATE_RECORD is called to modify the appropriate
1911 1990 2 record fields for each requested record, and therefore must
1912 1991 2 reparse the command line each time. If call_count is greater
1913 1992 2 than 0, the command line is reparsed.
1914 1993 2
1915 1994 2

```



```

1916 1995 2  IF .by_account
1917 1996 2  THEN
1918 1997 2  (IF NOT fmg$match_name (NAMELEN (UAF$$ ACCOUNT,UAF$T ACCOUNT),
1919 1998 2  RECBUF[UAF$T ACCOUNT],
1920 1999 2  .match_tokenlen, match_token)
1921 2000 2  THEN
1922 2001 2  RETURN TRUE)
1923 2002 2  ELSE
1924 2003 2  IF .str_wild
1925 2004 2  AND NOT fmg$match_name (namelen (uaf$$ username,recbuf[uaf$T username]),
1926 2005 2  recbuf[uaf$T username],
1927 2006 2  .match_tokenlen, match_token)
1928 2007 2  THEN RETURN TRUE;
1929 2008 2  found_match = true;
1930 2009 2
1931 2010 2  IF CH$EQL (.defuser<0,8>, defuser+1, .tokenlen, .tokenptr, ' ')
1932 2011 2  OR CH$EQL (.defuser<0,8>, defuser+1,
1933 2012 2  namelen (uaf$$ username, recbuf[uaf$T username]),
1934 2013 2  recbuf[uaf$T username], ' ')
1935 2014 2  THEN
1936 2015 2  BEGIN
1937 2016 2  MOD_DEFAULT = TRUE;
1938 2017 2  DEFAULT_UAF ();
1939 2018 2  CALL_COUNT = .call_count + 1;
1940 2019 2  RETURN TRUE;
1941 2020 2  END;
1942 2021 2
1943 2022 2  !
1944 2023 2  ! Save the old UIC and account name
1945 2024 2  !
1946 2025 2  OLD_UIC[UIC$V_FORMAT] = 0 ;
1947 2026 2  OLD_UIC[UIC$V_GROUP ] = .recbuf [uaf$w_grp] ;
1948 2027 2  OLD_UIC[UIC$V_MEMBER] = .recbuf [uaf$w_mem] ;
1949 2028 2  CH$MOVE ( uaf$$ account, recbuf[uaf$T_account], oldaccname ) ;
1950 2029 2  OLDACCDESC [length] = namelen ( uaf$$ account, recbuf[uaf$T_account]) ;
1951 2030 2  OLDACCDESC [pointer] = oldaccname ;
1952 2031 2
1953 2032 2  IF update_record ()
1954 2033 2  THEN
1955 2034 2  BEGIN
1956 2035 2  !
1957 2036 2  ! Save the new UIC and account name
1958 2037 2  !
1959 2038 2  NEW_UIC[UIC$V_FORMAT] = 0 ;
1960 2039 2  NEW_UIC[UIC$V_GROUP ] = .recbuf [uaf$w_grp] ;
1961 2040 2  NEW_UIC[UIC$V_MEMBER] = .recbuf [uaf$w_mem] ;
1962 2041 2  CH$MOVE ( uaf$$ account, recbuf[uaf$T_account], newaccname ) ;
1963 2042 2  NEWACCDESC [length] = namelen ( uaf$$ account, recbuf[uaf$T_account]) ;
1964 2043 2  NEWACCDESC [pointer] = newaccname ;
1965 2044 2
1966 2045 2  !
1967 2046 2  ! Update the UAF record
1968 2047 2  !
1969 2048 2  IF rmsbad ($update (rab = uaf$rab))
1970 2049 2  THEN
1971 2050 2  BEGIN
1972 2051 2  LIB$SIGNAL(UAF$MDFYERR, 0, .rmserr);

```

```

: 1973      2052  4      return .rmserr
: 1974      2053  4      end
: 1975      2054  3      else
: 1976      2055  4      begin
: 1977      2056  4      modify flag = true;
: 1978      2057  4      security_audit (nsa$k_recid sysuaf_mod);
: 1979      2058  4      call_count = .call_count + 1;
: 1980      2059  3      end;
: 1981      2060  3
: 1982      2061  4      if (cli$present ( sd_modify_identifier ) and
: 1983      2062  4      .rdb_exists )
: 1984      2063  3      then
: 1985      2064  4      begin
: 1986      2065  4
: 1987      2066  4      |
: 1988      2067  4      | If the UIC changed then modify the identifiers
: 1989      2068  4      |
: 1990      2069  4      | if .old_uic neq .new_uic
: 1991      2070  4      | then
: 1992      2071  5      |   begin
: 1993      2072  5      |     local
: 1994      2073  5      |       oldidname      : vector [kgb$s_name, byte],
: 1995      2074  5      |       oldiddesc      : statdesc ;
: 1996      2075  5      |
: 1997      2076  5      |       oldiddesc[length] = kgb$s_name ;
: 1998      2077  5      |       oldiddesc[pointer] = oldidname ;
: 1999      2078  5      |       status = $idtoasc ( id      = .old_uic,
: 2000      2079  5      |                          namlen = oldiddesc[length],
: 2001      2080  5      |                          nambuf = oldiddesc ) ;
: 2002      2081  5      |
: 2003      2082  5      |       if not .status
: 2004      2083  5      |       then LIB$SIGNAL(UAF$_RDBMDFYERRU, 2,
: 2005      2084  5      |                          .old_uic[uic$v_group],
: 2006      2085  5      |                          .old_uic[uic$v_member], .status)
: 2007      2086  5      |
: 2008      2087  5      |       else if .status
: 2009      2088  6      |       then
: 2010      2089  6      |         begin
: 2011      2090  6      |           status = $mod_ident ( id      = .old_uic,
: 2012      2091  6      |                               new_value = .new_uic ) ;
: 2013      2092  6      |
: 2014      2093  6      |           if not .status
: 2015      2094  6      |           then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, oldiddesc, .status)
: 2016      2095  6      |           else
: 2017      2096  7      |             begin
: 2018      2097  7      |               rightslist_modified = true ;
: 2019      2098  6      |               LIB$SIGNAL(UAF$_RDBMDFYMSG, 1, oldiddesc);
: 2020      2099  5      |             end ;
: 2021      2100  4      |           end ;
: 2022      2101  3      |         end ;
: 2023      2102  3      |       return true ;
: 2024      2103  3      |     end
: 2025      2104  3      |   else
: 2026      2105  3      |   begin
: 2027      2106  3      |     $release (rab = uaf$rab);
: 2028      2107  3      |     return false
: 2029      2108  3      |   end

```

				.EXTRN SYSSUPDATE, SYSSMOD_IDENT					
				.EXTRN SYSSRELEASE					
07FC 00000 MODIFY_REC:									
		5A	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10	1939
		59	00000000'	00	9E	00009	MOVAB	LIBSSIGNAL, R10	
		58	00000000'	00	9E	00010	MOVAB	DEFUSER+1, R9	
		5E	88	AE	9E	00017	MOVAB	RECBUF-4, R8	
	30	AE	010E0000	8F	D0	0001B	MOVAB	-120(SP), SP	
			34	AE	D4	00023	MOVAB	#17694720, OLDACCDDESC	1980
	28	AE	010E0000	8F	D0	00026	MOVAB	OLDACCDDESC+4	
			2C	AE	D4	0002E	MOVAB	#17694720, NEWACCDDESC	1981
		1F	06CC	C8	E9	00031	CLRL	NEWACCDDESC+4	
		55	8C	AB	9E	00036	BLBC	STR WILD, 1\$	2003
		53		68	9E	0003A	MOVAB	MATCH_TOKEN, R5	2005
	68		20	20	3A	0003D	MOVAB	RECBUF+4, R3	
			52	E0	A0	00041	LOCC	#32, #32, RECBUF+4	2004
			52		52	00045	MOVAB	-32(R0), R2	
			54	D0	AB	00048	MNEGL	R2, R2	
			00000000G	00	16	0004C	MOVL	MATCH_TOKENLEN, R4	2005
			37		50	00052	JSB	FMGSMATCH_NAME	
	068C		C8		C1	00055	BLBC	R0, 3\$	
			54	FF	A9	0005A	MOVZBL	#1, FOUND MATCH	2008
			50	E0	AB	0005E	MOVZBL	DEFUSER, R4	2010
DC	AB		69		54	00062	MOVZBL	TOKENPTR, R0	
					60	00068	CMPC5	R4, DEFUSER+1, #32, TOKENLEN, (R0)	
					10	00069	CMPC5	R4, DEFUSER+1, #32, TOKENLEN, (R0)	
			68		20	0006B	BEQL	2\$	
			50		50	0006F	LOCC	#32, #32, RECBUF+4	2012
			20		54	00073	SUBL3	R0, #32, R0	
	50		69		54	00073	CMPC5	R4, DEFUSER+1, #32, R0, RECBUF+4	2013
					68	00078	CMPC5	R4, DEFUSER+1, #32, R0, RECBUF+4	
			00000000'	00	01	0007B	BNEQ	4\$	
			00000000V	00	00	00082	MOVZBL	#1, MOD_DEFAULT	2016
					00	00082	CALLS	#0, DEFAULT_UAF	2017
					D8	00089	INCL	CALL_COUNT	2018
					0122	0008C	BRW	10\$	2019
	56	02		1E	00	0008F	INSV	#0, #30, #2, OLD_UIC	2025
	56	0E		10	22	00094	INSV	RECBUF+38, #16, #14, OLD_UIC	2026
				56	20	0009A	MOVW	RECBUF+36, OLD_UIC	2027
		58	AE	30	AB	0009E	MOVW	RECBUF+36, OLD_UIC	2027
		30	AB		20	000A4	MOVW	RECBUF+36, OLD_UIC	2027
		30	AE		20	000A9	MOVW	RECBUF+36, OLD_UIC	2027
					50	000A9	MOVW	RECBUF+36, OLD_UIC	2027
					58	000AE	LOCC	#32, RECBUF+52, OLDACCNAME	2028
			00000000G	00	00	000B3	LOCC	#32, #32, RECBUF+52	2029
					58	000AE	SUBW3	R0, #32, OLDACCDDESC	
			34	AE	58	000AE	MOVAB	OLDACCNAME, OLDACCDDESC+4	2030
			00000000G	00	00	000B3	CALLS	#0, UPDATE_RECORD	2032
					50	000BA	B_BS	R0, 5\$	
					00F5	000BD	BRW	11\$	
	57	02		1E	00	000C0	INSV	#0, #30, #2, NEW_UIC	2038
	57	0E		10	22	000C5	INSV	RECBUF+38, #16, #14, NEW_UIC	2039
				57	20	000CB	MOVW	RECBUF+36, NEW_UIC	2040
		38	AE	30	AB	000CF	MOVW	RECBUF+36, NEW_UIC	2041
		30	AB		20	000D5	LOCC	#32, RECBUF+52, NEWACCNAME	2041
		28	AE		50	000DA	LOCC	#32, #32, RECBUF+52	2042
					50	000DA	SUBW3	R0, #32, NEWACCDDESC	2042

2C	AE	38	AE	9E	000DF	MOVAB	NEWACNAME, NEWACDESC+4	2043
		05E4	CB	9F	000E4	PUSHAB	UAFRAB	2048
00000000G	00		01	FB	000EB	CALLS	#1, SYSSUPDATE	
F4	AB		50	DD	000EF	MOVL	RO, RMSERR	
	13		50	E8	000F3	BLBS	RO, 6\$	
		F4	AB	DD	000F6	PUSHL	RMSERR	2051
			7E	D4	000F9	CLRL	-(SP)	
		00000000G	8F	DD	000FB	PUSHL	#UAF\$ MDFYERR	
6A	6A		03	FB	00101	CALLS	#3, LTBSSIGNAL	
50	50	F4	AB	DD	00104	MOVL	RMSERR, RO	2052
				04	00108	RET		
00000000'	00		01	DD	00109	MOVL	#1, MODIFY_FLAG	2056
		00030002	8F	DD	00110	PUSHL	#196610	2057
00000000V	00		01	FB	00116	CALLS	#1, SECURITY_AUDIT	
			AB	D6	0011D	INCL	CALL COUNT	2058
			C9	9F	00120	PUSHAB	SD MODIFY IDENTIFIER	2061
00000000G	00		01	FB	00124	CALLS	#1, CLISPRESENT	
	70		50	E9	0012B	BLBC	RO, 8\$	
	7F		AB	E9	0012E	BLBC	RDB_EXISTS, 10\$	2062
	57	F0	56	D1	00132	CMPL	OLD_UIC, NEW_UIC	2069
			7A	13	00135	BEQL	10\$	
	6E	010E0000	8F	DD	00137	MOVL	#17694720, OLDIDDESC	2074
		04	AE	D4	0013E	CLRL	OLDIDDESC+4	
	6E		20	B0	00141	MOVW	#32, OLDIDDESC	2076
04	AE		AE	9E	00144	MOVAB	OLDIDNAME, OLDIDDESC+4	2077
			7E	7C	00149	CLRL	-(SP)	2080
			7E	D4	0014B	CLRL	-(SP)	
			AE	9F	0014D	PUSHAB	OLDIDDESC	
			AE	9F	00150	PUSHAB	OLDIDDESC	
			56	DD	00153	PUSHL	OLD_UIC	
00000000G	00		06	F3	00155	CALLS	#6, SYSSIDTOASC	
	52		50	DD	0015C	MOVL	RO, STATUS	
	17		52	E8	0015F	BLBS	STATUS, 7\$	2082
			52	DD	00162	PUSHL	STATUS	2085
	7E		56	3C	00164	MOVZWL	OLD_UIC, -(SP)	
7E	56		10	EF	00167	EXTZV	#16, #14, OLD_UIC, -(SP)	2084
	0E		02	DD	0016C	PUSHL	#2	2083
		00000000G	8F	DD	0016E	PUSHL	#UAF\$ RDBMDFYERR	
	6A		05	FB	00174	CALLS	#5, LTBSSIGNAL	
			38	11	00177	BRB	10\$	
			57	DD	00179	PUSHL	NEW_UIC	2090
			7E	7C	0017B	CLRL	-(SP)	
			7E	D4	0017D	CLRL	-(SP)	
			56	DD	0017F	PUSHL	OLD_UIC	
00000000G	00		05	FB	00181	CALLS	#5, SYSSMOD_IDENT	
	52		50	DD	00188	MOVL	RO, STATUS	
	12		52	E8	0018B	BLBC	STATUS, 9\$	2092
			52	DD	0018E	PUSHL	STATUS	2093
		04	AE	9F	00190	PUSHAB	OLDIDDESC	
			01	DD	00193	PUSHL	#1	
		00000000G	8F	DD	00195	PUSHL	#UAF\$ RDBMDFYERR	
	6A		04	FB	0019B	CALLS	#4, LTBSSIGNAL	
			11	11	0019E	BRB	10\$	
F8	AB		01	90	001A0	MOVW	#1, RIGHTSLIST_MODIFIED	2096
			5E	DD	001A4	PUSHL	SP	2097
			01	DD	001A6	PUSHL	#1	
		00000000G	8F	DD	001A8	PUSHL	#UAF\$ RDBMDFYMSG	

UAFMAIN  
V04-000

modify\_rec - update a user record action routin

D 10  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

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6A	03	FB	001AE	CALLS	#3, LIBSSIGNAL
50	01	DO	001B1	MOVL	#1, RO
		04	001B4	RET	
	05E4	C8	9F 001B5	PUSHAB	UAFRAB
00000000G	00	01	FB 001B9	CALLS	#1, SYSSRELEASE
		50	D4 001C0	CLRL	RO
		04	001C2	RET	

: 2105  
: 2106  
: 2107  
: 2109

; Routine Size: 451 bytes, Routine Base: \$CODE\$ + 099E

remove\_uaf - remove username from file

```

: 2032      2110 1 %sbttl 'remove_uaf - remove username from file'
: 2033      2111 1 global routine remove_uaf : novalue =
: 2034      2112 2 begin
: 2035      2113 2
: 2036      2114 2 ++
: 2037      2115 2
: 2038      2116 2 FUNCTIONAL DESCRIPTION:
: 2039      2117 2
: 2040      2118 2     Routine to delete a user record from the UAF file.
: 2041      2119 2
: 2042      2120 2 INPUTS:
: 2043      2121 2
: 2044      2122 2     none
: 2045      2123 2
: 2046      2124 2 OUTPUTS:
: 2047      2125 2
: 2048      2126 2     none
: 2049      2127 2
: 2050      2128 2 IMPLICIT INPUTS:
: 2051      2129 2
: 2052      2130 2     rename: a logical flag which indicates whether this COPY is part
: 2053      2131 2     of a RENAME operation
: 2054      2132 2
: 2055      2133 2 ROUTINE VALUE:
: 2056      2134 2
: 2057      2135 2     none
: 2058      2136 2
: 2059      2137 2 SIDE EFFECTS:
: 2060      2138 2
: 2061      2139 2     This routine also deletes any NETUAF entries for the
: 2062      2140 2     local user which is to be removed (If NETUAF.DAT exists)
: 2063      2141 2
: 2064      2142 2 --
: 2065      2143 2
: 2066      2144 2
: 2067      2145 2     Look for the record specified by the user. Make sure
: 2068      2146 2     the DEFAULT and SYSTEM records are not removed.
: 2069      2147 2
: 2070      2148 2
: 2071      2149 2 if get_user_record (true, false)
: 2072      2150 2 then
: 2073      2151 2
: 2074      2152 2
: 2075      2153 2     User record has been found and read into RECBUF
: 2076      2154 2     Zero the username field and update the record in the file
: 2077      2155 2
: 2078      2156 2     begin
: 2079      2157 2     if rmsbad ($delete (rab=uaf$rab))
: 2080      2158 2     then
: 2081      2159 2     LIB$SIGNAL(UAF$REMERR, 0, .rmserr)
: 2082      2160 2     else
: 2083      2161 2     begin
: 2084      2162 2     modify_flag = true;           ! mark file as modified
: 2085      2163 2     if not .uaf$gl_ctlmsk[uaf$v_rename]
: 2086      2164 2     then
: 2087      2165 2     security_audit (nsa$k recid_sysuaf_del);
: 2088      2166 2     if not .uaf$gl_ctlmsk[uaf$v_rename]

```

remove\_uaf - remove username from file

```

: 2089      2167  4
: 2090      2168  5
: 2091      2169  5
: 2092      2170  5
: 2093      2171  5
: 2094      2172  5
: 2095      2173  5
: 2096      2174  5
: 2097      2175  5
: 2098      2176  5
: 2099      2177  5
: 2100      2178  5
: 2101      2179  5
: 2102      2180  5
: 2103      2181  6
: 2104      2182  6
: 2105      2183  5
: 2106      2184  5
: 2107      2185  4
: 2108      2186  3
: 2109      2187  2
: 2110      2188  1

```

```

then
begin
    If there is a proxy login file, delete entries for
    the user just removed from SYSUAF.DAT

    if .netuaf exists
    then adjust proxy (remove_records);
    LIBSSIGNAL(UAF$ REMMSG);

    Unless specifically requested not to
    remove the corresponding identifier from the
    rights data base.

    if (cli$present ( sd_remove_identifier ) and
        .rdb_exists )
    then
        uaf$remove_ident_recbuf ( ) ;
    end;
end;
end;
end;
end;

```

				.EXTRN	SYSSDELETE	
			000C 00000	.ENTRY	REMOVE UAF, Save R2,R3	2111
	53	00000000G	00 9E 00002	MOVAB	LIBSSIGNAL, R3	
	52	00000000'	00 9E 00009	MOVAB	RMSERR, R2	
	7E		01 7D 00010	MOVQ	#1, -(SP)	2149
00000000V	00		02 FB 00013	CALLS	#2, GET_USER_RECORD	
	6C		50 E9 0001A	BLBC	RO, 3\$	
		05F0	C2 9F 0001D	PUSHAB	UAFRAB	2157
00000000G	00		01 FB 00021	CALLS	#1, SYSSDELETE	
	62		50 D0 00028	MOVL	RO, RMSERR	
	0E		50 E8 0002B	BLBS	RO, 1\$	
			62 DD 0002E	PUSHL	RMSERR	2159
			7E D4 00030	CLRL	-(SP)	
		00000000G	8F DD 00032	PUSHL	#UAF\$ REMERR	
	63		03 FB 00038	CALLS	#3, LIBSSIGNAL	
			04 0003B	RET		
00000000'	00		01 D0 0003C 1\$:	MOVL	#1, MODIFY FLAG	2162
	42	8C	A2 E8 00043	BLBS	UAF\$GL_CTLMSK, 3\$	2163
		00020002	8F DD 00047	PUSHL	#13107\$	2165
00000000V	00		01 FB 0004D	CALLS	#1, SECURITY AUDIT	
	31	8C	A2 E8 00054	BLBS	UAF\$GL_CTLMSR, 3\$	2166
	09	FB	A2 E9 00058	BLBC	NETUAF_EXISTS, 2\$	2173
			01 DD 0005C	PUSHL	#1	2174
00000000V	00		01 FB 0005E	CALLS	#1, ADJUST PROXY	
		00000000G	8F DD 00065 2\$:	PUSHL	#UAF\$ REMMSG	2175
	63		01 FB 0006B	CALLS	#1, LIBSSIGNAL	
		00000000'	00 9F 0006E	PUSHAB	SD_REMOVE_IDENTIFIER	2181
00000000G	00		01 FB 00074	CALLS	#1, CLIPRESENT	
	0B		50 E9 0007B	BLBC	RO, 3\$	
	07	FC	A2 E9 0007E	BLBC	RDB_EXISTS, 3\$	2182
00000000G	00		00 FB 00082	CALLS	#0, UAF\$REMOVE_IDENT_RECBUF	2184

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remove\_uaf - remove username from file

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04 00089 38: RET

; 2188

; Routine Size: 138 bytes, Routine Base: \$CODES + 0B61



remove\_proxy - remove a proxy record

```

2112 2189 1 %sbttl 'remove_proxy - remove a proxy record'
2113 2190 1 global routine remove_proxy : novalue =
2114 2191 2 begin
2115 2192 2
2116 2193 2 +-
2117 2194 2
2118 2195 2 FUNCTIONAL CHARACTERISTICS:
2119 2196 2
2120 2197 2 This routine removes proxy login entries from NETUAF.DAT
2121 2198 2
2122 2199 2 INPUTS:
2123 2200 2
2124 2201 2 none
2125 2202 2
2126 2203 2 OUTPUTS:
2127 2204 2
2128 2205 2 none
2129 2206 2
2130 2207 2 IMPLICIT INPUTS:
2131 2208 2
2132 2209 2 none
2133 2210 2
2134 2211 2 IMPLICIT OUTPUTS:
2135 2212 2
2136 2213 2 none
2137 2214 2
2138 2215 2 ROUTINE VALUE:
2139 2216 2
2140 2217 2 none
2141 2218 2
2142 2219 2 SIDE EFFECTS:
2143 2220 2
2144 2221 2 An entry is removed from NETUAF.DAT
2145 2222 2
2146 2223 2 --
2147 2224 2
2148 2225 2 local
2149 2226 2 node_len,
2150 2227 2 node_ptr,
2151 2228 2 remuser_len,
2152 2229 2 remuser_ptr,
2153 2230 2 counter,
2154 2231 2 success;
2155 2232 2
2156 2233 2
2157 2234 2 Make sure NETUAF.DAT exists
2158 2235 2
2159 2236 2 if not .netuaf exists
2160 2237 2 then return LIBSSIGNAL(UAF$_NAFDNE);
2161 2238 2
2162 2239 2
2163 2240 2 Retrieve remote name in node::remotename form
2164 2241 2
2165 2242 2 cli$get_value (sd_token1, tokendsc);
2166 2243 2
2167 2244 2
2168 2245 2 Verify proper format

```

remove\_proxy - remove a proxy record

```

: 2169      2246      |
: 2170      2247      | if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
: 2171      2248      | then return;
: 2172      2249      |
: 2173      2250      |
: 2174      2251      | : Copy into appropriate fields
: 2175      2252      |
: 2176      2253      | ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
: 2177      2254      | ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
: 2178      2255      |
: 2179      2256      | nafrab[rab$l_rop] = rab$m_rlk;
: 2180      2257      |
: 2181      2258      | success = get_proxy_record ();
: 2182      2259      |
: 2183      2260      |
: 2184      2261      | : Delete the record
: 2185      2262      |
: 2186      2263      | if .success
: 2187      2264      | then
: 2188      2265      |     begin
: 2189      2266      |         if rmsbad ($delete (rab = nafrab))
: 2190      2267      |         then
: 2191      2268      |             LIB$SIGNAL(UAF$_REMERR, 0, .rmserr)
: 2192      2269      |         else
: 2193      2270      |             begin
: 2194      2271      |                 security_audit (nsa$k_recid_netuaf_del);
: 2195      2272      |                 LIB$SIGNAL(UAF$_PREMMSG);
: 2196      2273      |             end;
: 2197      2274      |         end
: 2198      2275      |     else
: 2199      2276      |         LIB$SIGNAL(UAF$_REMERR);
: 2200      2277      |
: 2201      2278      | netuaf_modified = true;
: 2202      2279      | end;

```

			01FC 00000	.ENTRY REMOVE_PROXY, Save R2,R3,R4,R5,R6,R7,R8	2190
58	00000000G	8F	D0 00002	MOVL #UAF\$ REMERR, R8	
57	00000000G	00	9E 00009	MOVAB LIB\$SIGNAL, R7	
56	00000000'	00	9E 00010	MOVAB RMSERR, R6	
5E		10	C2 00017	SUBL2 #16, SP	
0A	FB	A6	E8 0001A	BLBS NETUAF EXISTS, 1\$	2234
	00000000G	8F	DD 0001E	PUSHL #UAF\$ RAFDNE	2237
67		01	FB 00024	CALLS #1, LIB\$SIGNAL	
			04 00027	RET	
		E8	A6 9F 00028	PUSHAB TOKENDSC	2242
	00000000'	00	9F 0002B	PUSHAB SD_TOKEN1	
00000000G	00	02	FB 00031	CALLS #2, CLISGET_VALUE	
		5E	DD 00038	PUSHL SP	2247
		08	AE 9F 0003A	PUSHAB REMUSER_PTR	
		10	AE 9F 0003D	PUSHAB NODE_LEN	
		18	AE 9F 00040	PUSHAB NODE_PTR	
FA17	CF	04	FB 00043	CALLS #4, REMOTE_PARSE	
	63	50	E9 00048	BLBC R0, 6\$	

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remove\_proxy - remove a proxy record

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20	20	0C	BE	08	AE	2C	0004B	MOVCS	NODE_LEN, @NODE_PTR, #32, #32, NETBUF	:	2253
				058C	16		00052			:	
20	20	04	BE		6E	2C	00055	MOVCS	REMUSER_LEN, @REMUSER_PTR, #32, #32, -	:	2254
				05AC	C6		0005B		NETBUF+32	:	
	0638	C6	00080000		8F	DO	0005E	MOVL	#524288, NAFRAB+4	:	2256
	00000000V	00			00	FB	00067	CALLS	#0, GET_PROXY_RECORD	:	2258
		31			50	E9	0006E	BLBC	SUCCESS, 3\$	:	2263
			0634		C6	9F	00071	PUSHAB	NAFRAB	:	2266
	00000000G	00			01	FB	00075	CALLS	#1, SYSSDELETE	:	
		66			50	DO	0007C	MOVL	RO, RMSERR	:	
		0B			50	E8	0007F	BLBS	RO, 2\$	:	
					66	DD	00082	PUSHL	RMSERR	:	2268
					7E	D4	00084	CLRL	-(SP)	:	
					58	DD	00086	PUSHL	R8	:	
		67			03	FB	00088	CALLS	#3, LIBSSIGNAL	:	
					1A	11	0008B	BRB	5\$	:	
	00000000V	00	00020003		8F	DD	0008D	PUSHL	#131075	:	2271
					01	FB	00093	CALLS	#1, SECURITY_AUDIT	:	
			00000000G		8F	DD	0009A	PUSHL	#UAF\$_PREMSG	:	2272
					02	11	000A0	BRB	4\$	:	
					58	DD	000A2	PUSHL	R8	:	2276
	00000000'	67			01	FB	000A4	CALLS	#1, LIBSSIGNAL	:	
		00			01	DO	000A7	MOVL	#1, NETUAF_MODIFIED	:	2278
					04	000AE	6\$:	RET		:	2279

; Routine Size. 175 bytes. Routine Base: \$CODE\$ + 0BEB

rename\_uaf - rename user record

```

: 2204      2280 1 %sbttl 'rename_uaf - rename user record'
: 2205      2281 1 global routine rrename_uaf : novalue =
: 2206      2282 1 begin
: 2207      2283 1
: 2208      2284 1 ++
: 2209      2285 1
: 2210      2286 1 FUNCTIONAL DESCRIPTION:
: 2211      2287 1
: 2212      2288 1     Effect a user authorization record rename, by
: 2213      2289 1     performing a COPY and a REMOVE operation.
: 2214      2290 1
: 2215      2291 1 INPUTS:
: 2216      2292 1
: 2217      2293 1     none
: 2218      2294 1
: 2219      2295 1 IMPLICIT INPUTS:
: 2220      2296 1
: 2221      2297 1     none
: 2222      2298 1
: 2223      2299 1 OUTPUTS:
: 2224      2300 1
: 2225      2301 1     none
: 2226      2302 1
: 2227      2303 1 IMPLICIT OUTPUTS:
: 2228      2304 1
: 2229      2305 1     none
: 2230      2306 1
: 2231      2307 1 SIDE EFFECTS:
: 2232      2308 1
: 2233      2309 1     A user authorization record is copied with a newname; the
: 2234      2310 1     original record is then deleted.
: 2235      2311 1     This routine also causes updating of any NETUAF entries for the
: 2236      2312 1     local user which is to be renamed.
: 2237      2313 1
: 2238      2314 1 --
: 2239      2315 1
: 2240      2316 1 uaf$gl_ctlmsk[uaf$u_rename] = true;
: 2241      2317 1
: 2242      2318 1 Copy the new authorization record
: 2243      2319 1
: 2244      2320 1 if (copy_uaf ())
: 2245      2321 1 then
: 2246      2322 1     begin
: 2247      2323 1
: 2248      2324 1 Remove the old authorization record
: 2249      2325 1
: 2250      2326 1     remove_uaf ();
: 2251      2327 1     LIBSSIGNAL(UAF$RENMSG);
: 2252      2328 1
: 2253      2329 1 Because passwords are folded in with the username, passwords for
: 2254      2330 1 RENAMED records will no longer work--warn the user
: 2255      2331 1
: 2256      2332 1     if .pwd flag
: 2257      2333 1     then LIBSSIGNAL(UAF$DEFPWD);
: 2258      2334 1
: 2259      2335 1
: 2260      2336 1 Modify the rights data base if one exists

```

rename\_uaf - rename user record

```

: 2261      2337 3 :
: 2262      2338 4 :
: 2263      2339 4   if (cli$present ( sd_modify_identifer ) and
: 2264      2340 3     .rdb_exists )
: 2265      2341 4     then
: 2266      2342 4       begin
: 2267      2343 4         local
: 2268      2344 4           status          : long,
: 2269      2345 4           old_name_buff   : vector [kgb$s_name, byte],
: 2270      2346 4           old_name_desc  : statdesc ;
: 2271      2347 4           new_name_desc  : statdesc ;
: 2272      2348 4
: 2273      2349 4           old_name_desc[length] = kgb$s_name ;
: 2274      2350 4           old_name_desc[pointer] = old_name_buff ;
: 2275      2351 4           new_name_desc[length] = .newuserlen ;
: 2276      2352 4           new_name_desc[pointer] = newusername ;
: 2277      2353 4
: 2278      2354 4           uaf$find_uic ' ) ;          ! Build Identifier from the recbuf
: 2279      2355 4
: 2280      2356 4           ! Find the ascii name
: 2281      2357 4           !
: 2282      2358 4           status = $idtoasc ( id      = .ident,
: 2283      2359 4           namlen = old_name_desc[length],
: 2284      2360 4           nambuf = old_name_desc ) ;
: 2285      2361 4           if not .status
: 2286      2362 4           then LIB$SIGNAL(UAF$RDBMDFYERRU, 2,
: 2287      2363 4           .ident[uc$sv_group],
: 2288      2364 4           .ident[uc$sv_member], .status)
: 2289      2365 4           else
: 2290      2366 5             begin
: 2291      2367 5               status = $mod_ident ( id      = .ident,
: 2292      2368 5               new_name = new_name_desc ) ;
: 2293      2369 5             end
: 2294      2370 5
: 2295      2371 5           if not .status
: 2296      2372 5           then LIB$SIGNAL(UAF$RDBMDFYERR, 1, old_name_desc, .status)
: 2297      2373 5           else
: 2298      2374 6             begin
: 2299      2375 6               rightslist modified = true ;
: 2300      2376 6               LIB$SIGNAL(UAF$RDBMDFYMSG, 1, old_name_desc);
: 2301      2377 6             end ;
: 2302      2378 4           end ;
: 2303      2379 3         end ;
: 2304      2380 2       end;
: 2305      2381 2     !
: 2306      2382 2     ! Reset flags
: 2307      2383 2     !
: 2308      2384 2     !
: 2309      2385 2     rename_ph2 = false;
: 2310      2386 2     uaf$gl_ctlmsk[uaf$sv_rename] = false;
: 2311      2387 2
: 2312      2388 1 end;

```

		007C	00000	.ENTRY	RENAME UAF, Save R2,R3,R4,R5,R6	2281
	56	00	9E 00002	MOVAB	NEWUSERLEN, R6	
	55	00	9E 00009	MOVAB	IDENT, R5	
	54	00	9E 00010	MOVAB	UAF\$GL CTLMSK, R4	
	53	00	9E 00017	MOVAB	LIB\$SIGNAL, R3	
	5E	30	C2 0001E	SUBL2	#48, SP	
	64	01	88 00021	BISB2	#1, UAF\$GL CTLMSK	2316
FA08	CF	00	FB 00024	CALLS	#0, COPY_UAF	2320
	29	50	E9 00029	BLBC	R0, 2\$	
FE96	CF	00	FB 0002C	CALLS	#0, REMOVE UAF	2326
		8F	DD 00031	PUSHL	#UAF\$ RENMSG	2327
	63	01	FB 00037	CALLS	#1, LIB\$SIGNAL	
	09	C4	E9 0003A	BLBC	PWD FLAG, 1\$	2332
		8F	DD 0003F	PUSHL	#UAF\$ DEFPWD	2333
	63	01	FB 00045	CALLS	#1, LIB\$SIGNAL	
00000000G	00	00	9F 00048	PUSHAB	SD MODIFY IDENTIFIER	2338
	60	01	FB 0004E	CALLS	#1, CLISPRESNT	
	5C	70	A4 E9 00058	BLBC	R0, 3\$	2339
	08	AE 010E0000	8F D0 0005C	MOVL	RDB EXISTS, 3\$	2345
		0C	AE D4 0C064	CLRL	#17894720, OLD_NAME_DESC	
	6E	010E0000	8F D0 00067	MOVL	OLD_NAME_DESC+2	2346
		04	AE D4 0006E	CLRL	#17894720, NEW_NAME_DFSC	
	08	AE	20 B0 00071	MOVW	NEW_NAME_DESC+2	2348
	0C	AE 10	AE 9E 00075	MOVAB	#32, OLD_NAME_DESC	2349
	6E		66 B0 0007A	MOVW	OLD_NAME_BUFF, OLD_NAME_DESC+4	2350
	04	AE 04	A6 9E 0007D	MOVAB	NEWUSERLEN, NEW_NAME_DESC	2351
00000000G	00	00	FB 00082	CALLS	NEWUSERNAME, NEW_NAME_DESC+4	2353
		7E	7C 00089	CALLS	#0, UAF\$FIND_UIC	2360
		7E	D4 0008B	CLRG	-(SP)	
		14	AE 9F 0008D	CLRL	-(SP)	
		18	AE 9F 00 70	PUSHAB	OLD_NAME_DESC	
			65 DD 00093	PUSHAB	OLD_NAME_DESC	
00000000G	0C	06	FB 00095	PUSHL	IDENT	
	52	50	D0 0009C	CALLS	#6, SYSSIDTOASC	
	18	52	EB 0009F	MOVL	R0, STATUS	
		52	DD 000A2	BLBS	STATUS, 4\$	2361
	7E	65	3C 000A4	PUSHL	STATUS	2364
7E	0E	00	EF 000A7	MOVZWL	IDENT, -(SP)	
		02	DD 000AD	EXTZV	#0, #14, IDENT+2, -(SP)	2363
		8F	DD 000AF	PUSHL	#2	2362
	63	05	FB 000B5	PUSHL	#UAF\$ RDBMDFYERR	
		3A	11 000B8	CALLS	#5, LIB\$SIGNAL	
		7E	D4 000BA	BRB	6\$	
		04	AE 9F 000BC	CLRL	-(SP)	2369
		7E	7C 000BF	PUSHAB	NEW_NAME_DESC	
		65	DD 0C0C1	CLRG	-(SP)	
00000000G	00	05	FB 000C3	PUSHL	IDENT	
	52	50	D0 000CA	CALLS	#5, SYSSMOD_IDENT	
	12	52	EB 000CD	MOVL	R0, STATUS	
		52	DD 000D0	BLBS	STATUS, 5\$	2371
		0C	AE 9F 000D2	PUSHL	STATUS	2372
		01	DD 000D5	PUSHAB	OLD_NAME_DESC	
		8F	DD 000D7	PUSHL	#1	
	63	04	FB 000DD	PUSHL	#UAF\$ RDBMDFYERR	
		12	11 000E0	CALLS	#4, LIB\$SIGNAL	
	78	A4	01 90 000E2	BRB	6\$	
				MOVB	#1, RIGHTSLIST_MODIFIED	2375

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rename\_uaf - rename user record

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2-Oct-1984 13:01:10

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[UAF.BUGSRC]UAFMAIN.B32;1

	08	AE	9F	000E6	
		01	DD	000E9	
	00000000G	8F	DD	000EB	
63		03	FB	000F1	
	D8	A6	94	000F4	68:
64		01	8A	000F7	
			04	000FA	

```

PUSHAB OLD_NAME_DESC
PUSHL #1
PUSHL #UAF$RDBMDFMSG
CALLS #3, LIB$SIGNAL
CLRB RENAME_PH2
BICB2 #1, UAF$GL_CTLMSK
RET

```

```

: 2376
:
:
: 2385
: 2386
: 2388

```

; Routine Size: 251 bytes, Routine Base: \$CODE\$ + 0C9A

```

: 2314      2389 1 %sbttl 'adjust_proxy - implicitly remove/update proxy record'
: 2315      2390 1 global routine adjust_proxy (remove) : novalue =
: 2316      2391 begin
: 2317      2392
: 2318      2393
: 2319      2394 ++
: 2320      2395 FUNCTIONAL DESCRIPTION:
: 2321      2396
: 2322      2397 This routine performs the operations implicitly indicated by
: 2323      2398 REMOVE or RENAME operations on SYSUAF.DAT. If a SYSUAF.DAT
: 2324      2399 record is removed, then any corresponding NETUAF.DAT entries must
: 2325      2400 also be deleted. If a SYSUAF.DAT record is renamed, then any
: 2326      2401 corresponding NETUAF.DAT entries must be updated.
: 2327      2402
: 2328      2403 INPUTS:
: 2329      2404
: 2330      2405 remove - a flag which indicates that the NETUAF.DAT record
: 2331      2406 should be removed. If false, then the record
: 2332      2407 should be updated.
: 2333      2408
: 2334      2409 OUTPUTS:
: 2335      2410 none
: 2336      2411
: 2337      2412 IMPLICIT INPUTS:
: 2338      2413
: 2339      2414 olduserlen - the old username length for a RENAME
: 2340      2415 oldusername - the old username string for a RENAME
: 2341      2416 TOKENPTR - the new username for RENAME, the removed username for REMOVE
: 2342      2417 TOKENLEN - "" length "" length
: 2343      2418
: 2344      2419 IMPLICIT OUTPUTS:
: 2345      2420 none
: 2346      2421
: 2347      2422 SIDE EFFECTS:
: 2348      2423
: 2349      2424 A record is removed/updated in NETUAF.DAT
: 2350      2425
: 2351      2426 --
: 2352      2427
: 2353      2428 local
: 2354      2429
: 2355      2430 modified: initial(false),
: 2356      2431 status;
: 2357      2432
: 2358      2433
: 2359      2434 Set access to sequential because we need to check for
: 2360      2435 multiple entries
: 2361      2436
: 2362      2437
: 2363      2438 nafrab[rab$l_rop] = rab$m_rlk; ! Lock records for writing
: 2364      2439 nafrab[rab$b_rac] = rab$c_seq;
: 2365      2440 $rewind (rab = nafrab);
: 2366      2441
: 2367      2442
: 2368      2443 Urcil EOF...
: 2369      2444
: 2370      2445 while status = get_proxy_record ()

```



```
2371 2446 2 do
2372 2447     begin
2373 2448     local
2374 2449         locuser_len,
2375 2450         blank_ptr;
2376 2451
2377 2452     :
2378 2453     Find end of user name...
2379 2454
2380 2455
2381 2456     If not found in 12 characters, it must be the full 12
2382 2457     characters in length
2383 2458     :
2384 2459     if ch$fail (blank_ptr = ch$find_ch (naf$s_localuser,
2385 2460         netbuf[naf$t_localuser], ' '))
2386 2461     then
2387 2462         locuser_len = naf$s_localuser
2388 2463     else
2389 2464         locuser_len = .blank_ptr - netbuf[naf$t_localuser];
2390 2465
2391 2466     :
2392 2467     If this is a record to be removed, delete it
2393 2468     :
2394 2469     if .remove
2395 2470     then
2396 2471         begin
2397 2472             if .tokenlen eql .locuser_len
2398 2473             and ch$eql (.tokenlen, .tokenptr, .locuser_len, netbuf[naf$t_localuser])
2399 2474             then
2400 2475                 begin
2401 2476                     netuaf_modified = true;
2402 2477                     $delete (rab = nafrab);
2403 2478                     security_audit (nsa$tk_recid_netuaf_del);
2404 2479                 end;
2405 2480             end
2406 2481     :
2407 2482     otherwise, change the localusername field to reflect the
2408 2483     new username in SYSUAF.DAT
2409 2484     :
2410 2485     else
2411 2486         begin
2412 2487             modified = true;
2413 2488             if .olduserlen eql .locuser_len
2414 2489             and ch$eql (.olduserlen, oldusername,
2415 2490                 .locuser_len, netbuf[naf$t_localuser])
2416 2491             then
2417 2492                 begin
2418 2493                     ch$copy (uaf$s_username, recbuf[uaf$t_username], ' ',
2419 2494                         naf$s_localuser, netbuf[naf$t_localuser]);
2420 2495                     $update (rab = nafrab);
2421 2496                     netuaf_modified = true;
2422 2497                     security_audit (nsa$tk_recid_netuaf_mod, oldusername);
2423 2498                 end;
2424 2499             end;
2425 2500         end;
2426 2501     :
2427 2502     if .modified then
```

```
: 2428      2503 2  LIBSSIGNAL(UAF$_ZZPRACREN, 2, .olduserlen, oldusername);  
: 2429      2504 2  
: 2430      2505 2  
: 2431      2506 2 : Return to keyed access  
: 2432      2507 2  
: 2433      2508 2 nafrab[rab$b_rac] = rab$_key;  
: 2434      2509 1 end;
```

Address	OpCode	Operand 1	Operand 2	Operand 3	Instruction	Comments	Address
			07FC	00000	.EXTRN	SYSSREWIND	
					.ENTRY	ADJUST_PROXY, Save R2,R3,R4,P5,R6,R7,R8,R9,-;	2390
					MOVAB	SECURITY_AUDIT, R10	
					MOVAB	OLDUSERNAME, R9	
					MOVAB	NETBUF+64, R8	
					CLRL	MODIFIED	2391
					MOVL	#524288, NAFRAB+4	2438
					CLRB	NAFRAB+30	2439
					PUSHAB	NAFRAB	2440
					CALLS	#1, SYSSREWIND	
					CALLS	#0, GET_PROXY_RECORD	2445
					MOVL	R0, STATUS	
					BLBS	STATUS, 28	
					BRW	88	
					LOCC	#32, #32, NETBUF+64	2460
					BNEQ	38	
					CLRL	R1	
					TSTL	BLANK_PTR	
					BNEQ	48	
					MOVL	#32, LOCUSER_LEN	2462
					BRB	58	
					MOVAB	NETBUF+64, R2	2464
					SUBL3	R2, BLANK_PTR, LOCUSER_LEN	
					BLBC	REMOVE, 78	2472
					MOVZWL	TOKENLEN, R1	
					CMPL	R1, LOCUSER_LEN	
					BNEQ	18	
					MOVL	TOKENPTR, R2	2473
					CMPCS	R1, (R2), #0, LOCUSER_LEN, NETBUF+64	
					BNEQ	18	
					MOVL	#1, NETUAF_MODIFIED	2476
					PUSHAB	NAFRAB	2477
					CALLS	#1, SYSSDELETE	
					PUSHL	#1, 1075	2478
					CALLS	#1, SECURITY_AUDIT	
					BRB	18	2469
					MOVL	#1, MODIFIED	2487
					MOVL	OLDUSERLEN, R1	2488
					CMPL	R1, LOCUSER_LEN	
					BNEQ	18	
					CMPCS	R1, OLDUSERNAME, #0, LOCUSER_LEN, NETBUF+64	2490
					BNEQ	18	
					MOVCS	#32, RECBUF+4, NETBUF+64	2494

00000000G	00	68	AB	9F	000A5	PUSHAB	NAFRAB	:	2495
F4	A9		01	FB	000A8	CALLS	#1, SYSSUPDATE	:	
			01	DD	000AF	MOVL	#1, NETUAF_MODIFIED	:	2496
		000300G3	59	DD	000B3	PUSHL	R9	:	2497
	6A		8F	DD	000B5	PUSHL	#196611	:	
	14		02	FB	000BB	CALLS	#2, SECURITY_AUDIT	:	
			C9	11	000BE	BRB	6\$	:	2445
			56	F9	000C0	BLBC	MODIFIED, 9\$	:	2502
			59	DD	000C3	PUSHL	R9	:	2503
		FC	A9	DD	000C5	PUSHL	OLDUSERLEN	:	
			02	DD	000C8	PUSHL	#2	:	
		00000000G	8F	DD	000CA	PUSHL	#UAF\$ ZZPRACREN	:	
00000000G	00		04	FB	000D0	CALLS	#4, LIB\$SIGNAL	:	
0086	C8		01	90	000D7	MOVB	#1, NAFRAB+30	:	2508
			04	000DC		RET		:	2509

; Routine Size: 221 bytes, Routine Base: \$CODE\$ + 0D95

default\_uaf - change default record

```

: 2436      2510  1 %sbttl 'default_uaf - change default record'
: 2437      2511  1 global routine default_uaf : novalue =
: 2438      2512  2 begin
: 2439      2513  2
: 2440      2514  2 |++
: 2441      2515  2
: 2442      2516  2 | FUNCTIONAL DESCRIPTION:
: 2443      2517  2 |
: 2444      2518  2 |     Change a default value in the default record.
: 2445      2519  2 |
: 2446      2520  2 | INPUTS:
: 2447      2521  2 |
: 2448      2522  2 |     none
: 2449      2523  2 |
: 2450      2524  2 | IMPLICIT INPUTS:
: 2451      2525  2 |
: 2452      2526  2 |     none
: 2453      2527  2 |
: 2454      2528  2 | OUTPUTS:
: 2455      2529  2 |
: 2456      2530  2 |     none
: 2457      2531  2 |
: 2458      2532  2 | IMPLICIT OUTPUTS:
: 2459      2533  2 |
: 2460      2534  2 |     none
: 2461      2535  2 |
: 2462      2536  2 | ROUTINE VALUE:
: 2463      2537  2 |
: 2464      2538  2 |     none
: 2465      2539  2 |
: 2466      2540  2 | SIDE EFFECTS:
: 2467      2541  2 |
: 2468      2542  2 |     none
: 2469      2543  2 | --
: 2470      2544  2 |
: 2471      2545  2 |
: 2472      2546  2 |
: 2473      2547  2 | Locate default record and load it into RECBUF
: 2474      2548  2 | if not already there (via an indirect MODIFY DEFAULT)
: 2475      2549  2 |
: 2476      2550  2 |
: 2477      2551  2 | if not .mod_default
: 2478      2552  2 | then
: 2479      2553  2 |     begin
: 2480      2554  2 |         if not locate_user (.defuser<0,8>, defuser+1, true)
: 2481      2555  2 |         then
: 2482      2556  2 |             begin
: 2483      2557  2 |                 LIB$SIGNAL(UAF$_DEFERR, 0, .rmserr);
: 2484      2558  2 |                 return;
: 2485      2559  2 |             end;
: 2486      2560  2 |         end;
: 2487      2561  2 |
: 2488      2562  2 | The encrypted password field of the DEFAULT record can not be propagated
: 2489      2563  2 | to another user, because the encryption algorithm takes the user name as
: 2490      2564  2 | an input. The user is merely warned that this qualifier has no effect.
: 2491      2565  2 |
: 2492      2566  2 |

```

default\_uaf - change default record

```

: 2493      2567      2  pwd_flag = true;
: 2494      2568      2
: 2495      2569      2
: 2496      2570      2  Update values supplied and exit if errors.
: 2497      2571      2
: 2498      2572      2
: 2499      2573      2  if update_record ()
: 2500      2574      2  then
: 2501      2575      2      begin
: 2502      2576      2          if not .pwd_flag
: 2503      2577      2          then LIB$SIGNAL(UAF$_NODEFPWD);
: 2504      2578      2
: 2505      2579      2
: 2506      2580      2  Now write the modified record back into the DEFAULT_RECORD buffer.
: 2507      2581      2
: 2508      2582      2      default_size = .uaf$[rab$w_rsz];
: 2509      2583      2      ch$move(.default_size, recbuf, default_record);
: 2510      2584      2
: 2511      2585      2
: 2512      2586      2  Update the default record in the file. Note that file has changed.
: 2513      2587      2
: 2514      2588      2  if not rmsok ($update (rab = uaf$))
: 2515      2589      2  then
: 2516      2590      2      LIB$SIGNAL(UAF$_MDFYERR, 0, .rmserr)
: 2517      2591      2  else
: 2518      2592      2      begin
: 2519      2593      2          modify_flag = true;
: 2520      2594      2          securify_audit (nsa$k_recid_sysuaf_mod);
: 2521      2595      2          if not .mod_default
: 2522      2596      2          then
: 2523      2597      2              LIB$SIGNAL(UAF$_MDFYMSG)
: 2524      2598      2          else
: 2525      2599      2              mod_default = false;
: 2526      2600      2          end;
: 2527      2601      2      end
: 2528      2602      2
: 2529      2603      2  else
: 2530      2604      2      $release (rab = uaf$);
: 2531      2605      2
: 2532      2606      1  end;

```

		01FC 0000	.ENTRY	DEFAULT UAF, Save R2,R3,R4,R5,R6,R7,R8	: 2511
58	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R8	:
57	00000000'	00 9E 00009	MOVAB	MOD DEFAULT, R7	:
56	00000000'	00 9E 00010	MOVAB	RMSERR, R6	:
25		67 E8 00017	BLBS	MOD_DEFAULT, 1\$	: 2551
		01 DD 0001A	PUSHL	#1	: 2554
	00000000'	00 9F 0001C	PUSHAB	DEFUSR+1	:
	00000000'	00 9A 00022	MOVZBL	DEFUSR, -(SP)	:
00000000V	00	03 FB 00029	CALLS	#3, LOCATE_USER	:
	0C	50 E8 00030	BLBS	R0, 1\$	:
		66 DD 00033	PUSHL	RMSERR	: 2557
		7E D4 00035	CLRL	-(SP)	:

default\_uaf - change default record

H 11  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

		00000000G	8F	DD	00037		PUSHL	#UAF\$_DEFERR		
			48	11	0003D		BRB	3\$		
	0680	C6	01	D0	0003F	1\$:	MOVL	#1, PWD_FLAG	2567	
	00000000G	00	00	FB	00044		CALLS	#0, UPDATE_RECORD	2573	
		5E	50	E9	0004B		BLBC	RO, 6\$		
		09	0680	C6	E8	0004E	BLBS	PWD_FLAG, 2\$	2576	
			00000000G	8F	DD	00053	PUSHL	#UAF\$_NODEFPWD	2577	
		68	01	FB	00059		CALLS	#1, LIB\$SIGNAL		
	0458	C7	0612	C6	B0	0005C	MOVW	UAFRAB+34, DEFAULT_SIZE	2582	
045C	C7	08	A6	0458	C7	28	MOVW	DEFAULT_SIZE, RECB0F, DEFAULT_RECORD	2583	
			05F0	C6	9F	0006C	PUSHAB	UAFRAB	2588	
		00000000G	00	01	FB	00070	CALLS	#1, SYSSUPDATE		
			66	50	D0	00077	MOVL	RO, RMSERR		
			0E	50	E8	0007A	BLBS	RO, 4\$		
				66	DD	0007D	PUSHL	RMSERR	2590	
				7E	D4	0007F	CLRL	-(SP)		
			00000000G	8F	DD	00081	PUSHL	#UAF\$_MDFYERR		
		68	03	FB	00087	3\$:	CALLS	#3, LIB\$SIGNAL		
				04	0008A		RET			
	04	A7	01	D0	0008B	4\$:	MOVL	#1, MODIFY_FLAG	2593	
			00030002	8F	DD	0008F	PUSHL	#196610	2594	
		00000000V	00	01	FB	00095	CALLS	#1, SECURITY_AUDIT		
			0A	67	E8	0009C	BLBS	MOD_DEFAULT, -5\$	2595	
				00000000G	8F	DD	0009F	PUSHL	#UAF\$_MDFYMSG	2597
			68	01	FB	000A5	CALLS	#1, LIB\$SIGNAL		
				04	000A8		RET			
				67	D4	000A9	CLRL	MOD_DEFAULT	2599	
				04	000AB		RET		2573	
			05F0	C6	9F	000AC	PUSHAB	UAFRAB	2604	
		00000000G	00	01	FB	000B0	CALLS	#1, SYSSRELEASE		
				04	000B7		RET		2606	

: Routine Size: 184 bytes, Routine Base: \$CODE\$ + 0E72

```

2534 2607 1 %sbttl 'list_proxy - list proxy entries in NETUAF.LIS'
2535 2608 1 global routine list_proxy : novalue =
2536 2609 2 begin
2537 2610 2
2538 2611 2 !++
2539 2612 2
2540 2613 2 : FUNCTIONAL DESCRIPTION:
2541 2614 2
2542 2615 2 This routine produces a listing of the entire NETUAF.DAT file
2543 2616 2 in NETUAF.LIS.
2544 2617 2
2545 2618 2 INPUTS:
2546 2619 2
2547 2620 2 none
2548 2621 2
2549 2622 2 OUTPUTS:
2550 2623 2
2551 2624 2 none
2552 2625 2
2553 2626 2 SIDE EFFECTS:
2554 2627 2
2555 2628 2 A listing file is produced
2556 2629 2
2557 2630 2 --
2558 2631 2
2559 2632 2 local
2560 2633 2 action;
2561 2634 2
2562 2635 2 :
2563 2636 2 Make sure NETUAF.DAT exists
2564 2637 2
2565 2638 2 if not .netuaf exists
2566 2639 2 then return LIB$SIGNAL(UAF$_NAFDNE);
2567 2640 2
2568 2641 2 :
2569 2642 2 Set up the listing file FAB and connect RAB
2570 2643 2
2571 2644 2 nlstfab[fab$y_dlt] = false;
2572 2645 2 if rmsbad ($create (fab = nlstfab))
2573 2646 2 then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
2574 2647 2
2575 2648 2 if rmsbad ($connect (rab = nlstfab))
2576 2649 2 then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
2577 2650 2
2578 2651 2 :
2579 2652 2 Set action routine and rab pointer
2580 2653 2
2581 2654 2 wild netuser = true;
2582 2655 2 match_tokenlen = 1;
2583 2656 2 match_token = %c'i;
2584 2657 2 rabptr = nlstfab;
2585 2658 2 action = display_proxy;
2586 2659 2 header flag = true;
2587 2660 2 nlrab[rab$l_rop] = rab$m_rri or rab$m_nlk;
2588 2661 2
2589 2662 2 LIB$SIGNAL(UAF$_LSTMSG1);
2590 2663 2

```

List\_proxy - List proxy entries in NETUAF.LIS

```

2591 2664 2  |
2592 2665 2  | LOCATE_PROXY will call the action routine for each proxy record
2593 2666 2  |
2594 2667 2  | if rmsbad (locate_proxy (.action))
2595 2668 2  | then
2596 2669 2  |     begin
2597 2670 2  |         if .rmserr eql rms$_rnf
2598 2671 2  |         then
2599 2672 2  |             LIBSSIGNAL(UAF$_BADSPC)
2600 2673 2  |         else
2601 2674 2  |             LIBSSIGNAL(UAF$_LSTERR, 0, .rmserr);
2602 2675 2  |         end
2603 2676 2  |     else
2604 2677 2  |         LIBSSIGNAL(UAF$_NETLSTMSG);
2605 2678 2  |
2606 2679 2  |
2607 2680 2  |
2608 2681 2  |
2609 2682 2  | $disconnect (rab = nlstrab);
2610 2683 2  | $close (fab = nlstfab);
2611 2684 2  |
2612 2685 1  | end;

```

.EXTRN SYSSDISCONNECT, SYSSCLOSE

			007C 00000		.ENTRY LIST PROXY, Save R2,R3,R4,R5,R6	2608
	56	00000000G	8F D0 00002		MOVL #UAF\$_LSTERR, R6	
	55	00000000G	00 9E 00009		MOVAB LIBSSIGNAL, R5	
	54	00000000'	00 9E 00010		MOVAB NLSTRAB, R4	
	53	00000000'	00 9E 00017		MOVAB RMSERR, R3	
	0A	FB	A3 E8 0001E		BLBS NETUAF EXISTS, 1\$	2638
		00000000G	8F DD 00022		PUSHL #UAF\$_RAFDNE	2639
	65		01 FB 00028		CALLS #1, LIBSSIGNAL	
			04 0002B		RET	
	B5	A4	80 8F 8A 0002C	1\$:	BICB2 #128, NLSTFAB+5	2644
			80 A4 9F 00031		PUSHAB NLSTFAB	2645
	00000000G	00	01 FB 00034		CALLS #1, SYSSCREATE	
		53	50 D0 0003B		MOVL R0, RMSERR	
		0F	50 E9 0003E		BLBC R0, 2\$	
			54 DD 00041		PUSHL R4	2648
	00000000G	00	01 FB 00043		CALLS #1, SYSSCONNECT	
		63	50 D0 0004A		MOVL R0, RMSERR	
		0A	50 E8 0004D		BLBS R0, 3\$	
			63 DD 00050	2\$:	PUSHL RMSERR	2649
			7E D4 00052		CLRL -(SP)	
			56 DD 00054		PUSHL R6	
		65	03 FB 00056		CALLS #3, LIBSSIGNAL	
			04 00059		RET	
	E0	A3	01 D0 0005A	3\$:	MOVL #1, WILD NETUSER	2654
	DC	A3	01 D0 0005E		MOVL #1, MATCH TOKENLEN	2655
	98	A3	2A D0 00062		MOVL #42, MATCH TOKEN	2656
	80	A3	64 9E 00066		MOVAB NLSTRAB, RABPTR	2657
		52	00000000V 00 9E 0006A		MOVAB DISPLAY_PROXY, ACTION	2658
	FCC4	C4	01 D0 00071		MOVL #1, HEADER FLAG	2659
	0638	C3	00100008 8F D0 00076		MOVL #1048584, RAFRAB+4	2660



	00000000G	8F	DD	0007F	PUSHL	#UAF\$ LSTMSG1		2662
65		01	FB	00085	CALLS	#1, LIB\$SIGNAL		
		52	DD	00088	PUSHL	ACTION		2667
00000000V	00	01	FB	0008A	CALLS	#1, LOCATE_PROXY		
	63	50	DD	00091	MOVL	R0, RMSERR		
	1F	50	EB	00094	BLBS	R0, 5\$		
	50	63	DD	00097	MOVL	RMSERR, R0		2670
000182B2	8F	50	D1	0009A	CMPL	R0, #98994		
		08	12	000A1	BNEQ	4\$		
	00000000G	8F	DD	000A3	PUSHL	#UAF\$_BADSPC		2672
		11	11	000A9	BRB	6\$		
		50	DD	000AB	PUSHL	R0		2674
		7E	D4	000AD	CLRL	-(SP)		
		56	DD	000AF	PUSHL	R6		
65		03	FB	000B1	CALLS	#3, LIB\$SIGNAL		
		09	11	000B4	BRB	7\$		2667
	00000000G	8F	DD	000B6	PUSHL	#UAF\$ NETLSTMSG		2677
		01	FB	000BC	CALLS	#1, LIB\$SIGNAL		
		54	DD	000BF	PUSHL	R4		2682
00000000G	00	01	FB	000C1	CALLS	#1, SYSSDISCONNECT		
		A4	9F	000CB	PUSHAB	NLSTFAB		2683
00000000G	00	01	FB	000CB	CALLS	#1, SYSSCLOSE		
		04	000D2	RET				2685

: Routine Size: 211 bytes. Routine Base: \$CODE\$ + 0F2A

```

: 2614      2686 1 %sbttl 'list_uaf - list file routine'
: 2615      2687 1 global routine list_uaf : novalue =
: 2616      2688 ~ begin
: 2617      2689 ~
: 2618      2690 ~ :++
: 2619      2691 ~
: 2620      2692 ~ FUNCTIONAL DESCRIPTION:
: 2621      2693 ~
: 2622      2694 ~     Display the specified users in a file named 'SYSUAF.LIS'.
: 2623      2695 ~
: 2624      2696 ~ INPUTS:
: 2625      2697 ~
: 2626      2698 ~     none
: 2627      2699 ~
: 2628      2700 ~ IMPLICIT INPUTS:
: 2629      2701 ~
: 2630      2702 ~     none
: 2631      2703 ~
: 2632      2704 ~ OUTPUTS:
: 2633      2705 ~
: 2634      2706 ~     none
: 2635      2707 ~
: 2636      2708 ~ IMPLICIT OUTPUTS:
: 2637      2709 ~
: 2638      2710 ~     none
: 2639      2711 ~
: 2640      2712 ~ ROUTINE VALUE:
: 2641      2713 ~
: 2642      2714 ~     none
: 2643      2715 ~
: 2644      2716 ~ SIDE EFFECTS:
: 2645      2717 ~
: 2646      2718 ~     none
: 2647      2719 ~ --
: 2648      2720 ~
: 2649      2721 ~ local
: 2650      2722 ~     action;
: 2651      2723 ~
: 2652      2724 ~
: 2653      2725 ~ Obtain the user specification. This sets wildcard flags and initializes
: 2654      2726 ~ the appropriate key in RECBUF.
: 2655      2727 ~
: 2656      2728 ~
: 2657      2729 ~ if not parse_wild (sd_token1,true)           ! Null string defaults to *
: 2658      2730 ~ then return;
: 2659      2731 ~
: 2660      2732 ~
: 2661      2733 ~ Obtain qualifiers. This determines which display should be used.
: 2662      2734 ~
: 2663      2735 ~ full_flag = false;
: 2664      2736 ~ brief_flag = true;
: 2665      2737 ~
: 2666      2738 ~ if cli$present (sd_full) or (not cli$present (sd_brief))
: 2667      2739 ~ then
: 2668      2740 ~     begin
: 2669      2741 ~         brief_flag = false;
: 2670      2742 ~         full_flag = true;

```

## list\_uaf - list file routine

```
2671      2743      2      end;
2672      2744      2
2673      2745      2      :
2674      2746      2      : Create the listing file.
2675      2747      2      :
2676      2748      2
2677      2749      2      lstfab[fab$v_dlt] = false;          ! initialize DLT bit
2678      2750      2      if rmsbad ($create (fab = lstfab))
2679      2751      2      then return LIBSSIGNAL(UAFS_LSTERR, 0, .rmserr);
2680      2752      2
2681      2753      2      if rmsbad ($connect (rab = lstrab))
2682      2754      2      then return LIBSSIGNAL(UAFS_LSTERR, 0, .rmserr);
2683      2755      2
2684      2756      2      :
2685      2757      2      : Request a header record for the file and aim RABPTR at our RAB.
2686      2758      2      :
2687      2759      2
2688      2760      2      header_flag = true;
2689      2761      2      rabptr = lstrab;
2690      2762      2      found_match = false;
2691      2763      2      uafra[rab$l_rop] = rab$m_rri or rab$m_nlk;
2692      2764      2      :
2693      2765      2      : Flag the list operation for the rights data base routines .
2694      2766      2      :
2695      2767      2      rdb_list_flag = true ;
2696      2768      2
2697      2769      2      :
2698      2770      2      : Choose the appropriate display.
2699      2771      2      :
2700      2772      2
2701      2773      2      action = display_brief;
2702      2774      2      if .full_flag
2703      2775      2      then action = display_full;
2704      2776      2
2705      2777      2      LIBSSIGNAL(UAFS_LSTMSG1);          ! announce starting
2706      2778      2
2707      2779      2      if rmsbad (wild_user (.action))
2708      2780      2      then
2709      2781      2          begin
2710      2782      2              if .rmserr eql rms$rnf
2711      2783      2              then
2712      2784      2                  LIBSSIGNAL(UAFS_BADSPC)
2713      2785      2              else
2714      2786      2                  LIBSSIGNAL(UAFS_LSTERR, 0, .rmserr);
2715      2787      2                  lstfab[fab$v_dlt] = true;          ! press delete button
2716      2788      2              end
2717      2789      2      else
2718      2790      2          LIBSSIGNAL(UAFS_LSTMSG2);
2719      2791      2
2720      2792      2      $disconnect (rab = lstrab);
2721      2793      2      $close (fab = lstfab);
2722      2794      2      end;
```

			01FC 00000	.ENTRY	LIST UAF, Save R2,R3,R4,R5,R6,R7,R8	2687
	58	00000000G	8F D0 00002	MOVL	#UAF\$ LSTERR, R8	
	57	00000000G	00 9E 00009	MOVAB	CLISPRESENT, R7	
	56	000000000'	00 9E 00010	MOVAB	SD TOKEN1, R6	
	55	00000000G	00 9E 00017	MOVAB	LIB\$SIGNAL, R5	
	54	000000000'	00 9E 0001E	MOVAB	RMSERR, R4	
	53	000000000'	0C 9E 00025	MOVAB	LSTRAB, R3	
			01 DD 0002C	PUSHL	#1	2729
			56 DD 0002E	PUSHL	R6	
00000000G	00		02 FB 00030	CALLS	#2, PARSE_WILD	
	01		50 EB 00037	BLBS	RO, 1\$	
			04 0003A	RET		
FE08	C3		01 7D 0003B	1\$: MOVQ	#1, BRIEF_FLAG	2736
		2C	A6 9F 00040	PUSHAB	SD_FULL	2738
	67		01 FB 00043	CALLS	#1, CLISPRESENT	
	09		50 EB 00046	BLBS	RO, 2\$	
		20	A6 9F 00049	PUSHAB	SD_BRIEF	
	67		01 FB 0004C	CALLS	#1, CLISPRESENT	
	09		50 EB 0004F	BLBS	RO, 3\$	
FE0C	C3	FE08	C3 D4 00052	2\$: CLRL	BRIEF_FLAG	2741
B5	A3	80	01 D0 00056	MOVL	#1, FULL_FLAG	2742
		B0	8F 8A 0005B	3\$: BICB2	#128, LSTFAB+5	2749
			A3 9F 00060	PUSHAB	LSTFAB	2750
00000000G	00		01 FB 00063	CALLS	#1, SYSS\$CREATE	
	64		50 D0 0006A	MOVL	RO, RMSERR	
	0F		50 E9 0006D	BLBC	RO, 4\$	
00000000G	00		53 DD 00070	PUSHL	R3	2753
	64		01 FB 00072	CALLS	#1, SYSS\$CONNECT	
	0A		50 D0 00079	MOVL	RO, RMSERR	
			50 EB 0007C	BLBS	RO, 5\$	
			64 DD 0007F	4\$: PUSHL	RMSERR	2754
			7E D4 00081	CLRL	-(SP)	
			58 DD 00083	PUSHL	R8	
65			03 FB 00085	CALLS	#3, LIB\$SIGNAL	
			04 00088	RET		
FE10	C3		01 D0 00089	5\$: MOVL	#1, HEADER_FLAG	2760
80	A4		63 9E 0008E	MOVAB	LSTRAB, RABPTR	2761
		06C8	C4 D4 00092	CLRL	FOUND_MATCH	2762
05F4	C4	00100008	8F D0 00096	MOVL	#1048584, UAFRAB+4	2763
00000000G	00		01 90 0009F	MOVAB	#1, RDB_LIST_FLAG	2767
	52	00000000V	00 9E 000A6	MOVAB	DISPLAY_BRIEF, ACTION	2773
	07	FE0C	C3 E9 000AD	BLBC	FULL_FLAG, 6\$	2774
	52	00000000V	00 9E 000B2	MOVAB	DISCAY_FULL, ACTION	2775
		00000000G	8F DD 000B9	6\$: PUSHL	#UA-\$ LSTMSG1	2777
	65		01 FB 000BF	CALLS	#1, LIB\$SIGNAL	
			52 DD 000C2	PUSHL	ACTION	2779
00000000V	00		01 FB 000C4	CALLS	#1, WILD_USER	
	64		50 D0 000CB	MOVL	RO, RMSERR	
	27		50 E8 000CE	BLBS	RO, 9\$	
	50		64 D0 000D1	MOVL	RMSERR, RO	2782
000182B2	8F		50 D1 000D4	CML	RO, #98994	
			0B 12 000DB	BNEQ	7\$	
		00000000G	8F DD 000DD	PUSHL	#UAF\$ BADSPC	2784
	65		01 FB 000E3	CALLS	#1, LIB\$SIGNAL	
			09 11 000E6	BRB	8\$	
			50 DD 000E8	7\$: PUSHL	RO	2786
			7E D4 000EA	CLRL	-(SP)	

UAFMAIN  
V04-000

list\_uaf - list file routine

B 12  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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(18)

			58	DD	000EC		PUSHL	R8		
			03	FB	000EE		CALLS	#3	LIBSSIGNA	:
B5	A3	80	8F	88	000F1	8\$:	BISB2	#128,	LSTFAB+>	: 2787
			09	11	000F6		BRB	10\$		: 2779
		00000000G	8F	DD	000F8	9\$:	PUSHL	#UAF\$	LSTMSG2	: 2790
	65		01	FB	000FE		CALLS	#1,	LIBSSIGNAL	:
			53	DD	00101	10\$:	PUSHL	R3		: 2792
00000000G	00		01	FB	00103		CALLS	#1,	SYSSDISCONNECT	: 2793
		B0	A3	9F	0010A		PUSHAB	LSTFAB		: 2794
00000000G	00		01	FB	0010D		CALLS	#1,	SYSSCLOSE	:
			04	00114			RET			: 2794

; Routine Size: 277 bytes, Routine Base: \$CODE\$ + OFFD

U  
V

show\_user\_uaf - display user record

```
: 2724      2795 1 %sbttl 'show_user_uaf - display user record'
: 2725      2796 1 global routine show_user_uaf : novalue =
: 2726      2797 begin
: 2727      2798
: 2728      2799 :++
: 2729      2800
: 2730      2801 : FUNCTIONAL DESCRIPTION:
: 2731      2802
: 2732      2803 :     Display the specified users on SYS$OUTPUT.
: 2733      2804
: 2734      2805 : INPUTS:
: 2735      2806
: 2736      2807 :     none
: 2737      2508
: 2738      2809 : IMPLICIT INPUTS:
: 2739      2810
: 2740      2811 :     none
: 2741      2812
: 2742      2813 : OUTPUTS:
: 2743      2814
: 2744      2815 :     none
: 2745      2816
: 2746      2817 : IMPLICIT OUTPUTS:
: 2747      2818
: 2748      2819 :     none
: 2749      2820
: 2750      2821 : ROUTINE VALUE:
: 2751      2822
: 2752      2823 :     none
: 2753      2824
: 2754      2825 : SIDE EFFECTS:
: 2755      2826
: 2756      2827 :     none
: 2757      2828 :--
: 2758      2829
: 2759      2830 : local
: 2760      2831 :     action;
: 2761      2832
: 2762      2833 :
: 2763      2834 : Obtain the user specification. This sets wildcard flags and initializes
: 2764      2835 : the appropriate key in RECBUF.
: 2765      2836 :
: 2766      2837 :
: 2767      2838 : if not parse_wild (sd_token1,false)           ! Null string is disallowed.
: 2768      2839 : then return;
: 2769      2840 :
: 2770      2841 :
: 2771      2842 : Obtain qualifiers. This determines which display should be used.
: 2772      2843 :
: 2773      2844 : full_flag = true;
: 2774      2845 : brief_flag = false;
: 2775      2846 :
: 2776      2847 : if cli$present (sd_brief) or (not cli$present (sd_full))
: 2777      2848 : then
: 2778      2849 :     begin
: 2779      2850 :         brief_flag = true;
: 2780      2851 :         full_flag = false;
```

show\_user\_uaf - display user record

```

: 2781      2852      2      end;
: 2782      2853      2
: 2783      2854      2
: 2784      2855      2      Request a header record for the file and aim RABPTR at our RAB.
: 2785      2856      2
: 2786      2857      2
: 2787      2858      2      header_flag = true;
: 2788      2859      2      rabptr = outrab;
: 2789      2860      2      found_match = false;
: 2790      2861      2      uafra6[rab$l_rop] = rab$m_rrl or rab$m_nlk;
: 2791      2862      2
: 2792      2863      2
: 2793      2864      2      Flag the show operation for the rights data base routines .
: 2794      2865      2
: 2795      2866      2      rdb_list_flag = false ;
: 2796      2867      2
: 2797      2868      2
: 2798      2869      2      Choose the appropriate display.
: 2799      2870      2
: 2800      2871      2
: 2801      2872      2      action = display_full;
: 2802      2873      2      if .brief_flag
: 2803      2874      2      then action = display_brief;
: 2804      2875      2
: 2805      2876      2      if rmsbad (wild_user (.action))
: 2806      2877      2      then
: 2807      2878      2          begin
: 2808      2879      2              if .rmserr eql rms$rnf
: 2809      2880      2              then
: 2810      2881      2                  LIB$SIGNAL(UAF$_BADSPC)
: 2811      2882      2              else
: 2812      2883      2                  LIB$SIGNAL(UAF$_SHOW_LRR, 0, .rmserr);
: 2813      2884      2              end;
: 2814      2885      2      end;

```

```

                                007C 00000
                                56 00000000G 00 9E 00002
                                55 00000000G 00 9E 00009
                                54 00000000' 00 9E 00010
                                53 00000000' 00 9E 00017
                                52 00000000' 00 9E 0001E
                                7E D4 00025
                                54 DD 00027
                                00000000G 00 02 FB 00029
                                7B 50 E9 00030
                                04 A3 01 D0 00033
                                63 D4 00037
                                20 A4 9F 00039
                                65 01 FB 0003C
                                09 50 EB 0003F
                                2C A4 9F 00042
                                65 01 FB 00045
                                03 50 EB 00048

.ENTRY SHOW USER UAF, Save R2,R3,R4,R5,R6
MOVAB LIB$SIGNAL, R6
MOVAB CLISPRESNT, R5
MOVAB SD_TOKEN1, R4
MOVAB BRIEF_FLAG, R3
MOVAB RMSERR, R2
CLRL -(SP)
PUSHL R4
CALLS #2, PARSE_WILD
BLBC R0, 5$
MOVL #1, FULL_FLAG
CLRL BRIEF_FLAG
PUSHAB SD_BRIEF
CALLS #1, CLISPRESNT
BLBS R0, 1$
PUSHAB SD_FULL
CALLS #1, CLISPRESNT
BLBS R0, 2$

```

```

: 2796
:
: 2838
:
: 2844
: 2845
: 2847
:

```

show\_user\_usf - display user record

F 12

8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

	08	63	01	7D	0004B	1\$:	MOVQ	#1, BRIEF FLAG	:	2850
	80	A3	01	D0	0004E	2\$:	MOVL	#1, HEADER FLAG	:	2858
		A2	C2	9E	00052		MOVAB	OUTRAB, RABPTR	:	2859
		0684	C2	D4	00058		CLRL	FOUND MATCH	:	2860
	C5F4	06C8	8F	D0	0005C		MOVL	#1048584, UAFRAB+4	:	2861
		00100008	00	94	00065		CLRB	RDB LIST FLAG	:	2866
		00000000G	00	9E	0006B		MOVAB	DISPLAY FULL, ACTION	:	2872
		00000000V	63	E9	00072		BLBC	BRIEF FLAG, \$\$	:	2873
			00	9E	00075		MOVAB	DISPLAY_BRIEF, ACTION	:	2874
		00000000V	50	DD	0007C	3\$:	PUSHL	ACTION	:	2876
	00000000V		01	FB	0007E		CALLS	#1, WILD USER	:	
			50	D0	00085		MOVL	R0, RMSERR	:	
			50	E8	00088		BLBS	R0, \$\$	:	
			62	D0	0008B		MOVL	RMSERR, R0	:	2879
	000182B2		50	D1	0008E		CMPL	R0, #98994	:	
			8F	D1	0008E		BNEQ	4\$	:	
		00000000G	0A	12	00095		PUSHL	#UAF\$ BADSPC	:	2881
			8F	DD	00097		CALLS	#1, LIB\$SIGNAL	:	
			01	FB	0009D		RET		:	
				04	000A0		PUSHL	R0	:	2883
			50	DD	000A1	4\$:	CLRL	-(SP)	:	
			7E	D4	000A3		PUSHL	#UAF\$ SHOW_ERR	:	
		00000000G	8F	DD	000A5		CALLS	#3, LIB\$SIGNAL	:	
			03	FB	000AB		RET		:	2885
			04	000AE	5\$:				:	

: Routine Size. 175 bytes, Routine Base: \$CODE\$ + 1112



show\_proxy - display proxy record at terminal

```

: 2816      2886      1 %sbttl 'show_proxy - display proxy record at terminal'
: 2817      2887      1 global routine show_proxy : novalue =
: 2818      2888      2 begin
: 2819      2889      2
: 2820      2890      2 :++
: 2821      2891      2
: 2822      2892      2 : FUNCTIONAL DESCRIPTION:
: 2823      2893      2
: 2824      2894      2 :         This routine will display a specific proxy record or
: 2825      2895      2 :         will display all proxy entries to the user terminal.
: 2826      2896      2
: 2827      2897      2 : INPUTS:
: 2828      2898      2
: 2829      2899      2 :         none
: 2830      2900      2
: 2831      2901      2 : OUTPUTS:
: 2832      2902      2
: 2833      2903      2 :         none
: 2834      2904      2
: 2835      2905      2 : IMPLICIT INPUTS:
: 2836      2906      2
: 2837      2907      2 :         TOKENLEN, TOKENPTR
: 2838      2908      2
: 2839      2909      2 : IMPLICIT OUTPUTS:
: 2840      2910      2
: 2841      2911      2 :         none
: 2842      2912      2
: 2843      2913      2 : SIDE EFFECTS:
: 2844      2914      2
: 2845      2915      2 :         none
: 2846      2916      2
: 2847      2917      2 : --
: 2848      2918      2
: 2849      2919      2 local
: 2850      2920      2     node_len,
: 2851      2921      2     node_ptr,
: 2852      2922      2     remuser_len,
: 2853      2923      2     remuser_ptr,
: 2854      2924      2     action,
: 2855      2925      2     counter,
: 2856      2926      2     success;
: 2857      2927      2
: 2858      2928      2
: 2859      2929      2 : Make sure that NETUAF.DAT exists
: 2860      2930      2
: 2861      2931      2 if not .netuaf exists
: 2862      2932      2 then return LIB$SIGNAL(UAF$NAFDNE);
: 2863      2933      2
: 2864      2934      2
: 2865      2935      2 : Retrieve token
: 2866      2936      2
: 2867      2937      2 cli$get_value (sd_token1, tokendsc);
: 2868      2938      2
: 2869      2939      2 header_flag = true;
: 2870      2940      2
: 2871      2941      2
: 2872      2942      2 : Wildcard spec?

```

show\_proxy - display proxy record at terminal

```

: 2873      2943      2  !
: 2874      2944      2  if ch$find_ch (.tokenlen, .tokenptr, %c'%') neq 0
: 2875      2945      2  or ch$find_ch (.tokenlen, .tokenptr, %c'*') neq 0
: 2876      2946      2  then
: 2877      2947      2  begin
: 2878      2948      2  wild_netuser = true;
: 2879      2949      2  match_tokenlen = .tokenlen;
: 2880      2950      2  ch$move (.tokenlen, .tokenptr, match_token);
: 2881      2951      2  end
: 2882      2952      2  !
: 2883      2953      2  ! Otherwise, just display a single entry
: 2884      2954      2  !
: 2885      2955      2  else
: 2886      2956      2  begin
: 2887      2957      2  wild_netuser = false;
: 2888      2958      2  if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
: 2889      2959      2  then return;
: 2890      2960      2  !
: 2891      2961      2  ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
: 2892      2962      2  ch$copy (.remuser_len, .remuser_ptr, ' ',
: 2893      2963      2  naf$s_remuser, netbuf[naf$t_remuser]);
: 2894      2964      2  end;
: 2895      2965      2  !
: 2896      2966      2  ! Set up action routine and rab pointer
: 2897      2967      2  !
: 2898      2968      2  rabptr = outrab;
: 2899      2969      2  action = display_proxy;
: 2900      2970      2  found_match = false;
: 2901      2971      2  nafrab[rab$l_rop] = rab$m_rrl or rab$m_nlk;
: 2902      2972      2  !
: 2903      2973      2  !
: 2904      2974      2  ! Make call (s) necessary to display the requested entry or entries
: 2905      2975      2  !
: 2906      2976      2  !
: 2907      2977      2  if rms$bad (locate_proxy (.action))
: 2908      2978      2  then
: 2909      2979      2  begin
: 2910      2980      2  if .rmserr eql rms$_rnf
: 2911      2981      2  then
: 2912      2982      2  LIB$SIGNAL(UAF$_BADSPC)
: 2913      2983      2  else
: 2914      2984      2  LIB$SIGNAL(UAF$_SHOW_ERR, 0, .rmserr);
: 2915      2985      2  end;
: 2916      2986      1  end;

```

		00FC 0000	.ENTRY	SHOW PROXY. Save R2,R3,R4,R5,R6,R7	: 2887
57	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R7	:
56	00000000'	00 9E 00009	MOVAB	TOKENDSC, R6	:
5E		10 C2 00010	SUBL2	#16, SP	:
09	10	A6 E8 00013	BLBS	NETUAF EXISTS, 1\$	: 2931
	00000000G	8F DD 00017	PUSHL	#UAF\$_RAFDNE	: 2932
		0GAA 31 0001D	BRW	7\$	:
		56 DD 00020 1\$:	PUSHL	R6	: 2937

			00000000'	00	9F	00022	PUSHAB	SD_TOKEN1		
		00000000G		00	FB	00028	CALLS	#2, CL\$GET VALUE		
		00000000'		00	D0	0002F	MOVL	#1, HEADER_FLAG	2939	
				52	3C	00036	MOVZWL	TOKENLEN, R2	2944	
				53	D0	00039	MOVL	TOKENPTR, R3		
63			04	A6	3A	0003D	LOCC	#37, R2, (R3)		
				25	12	00041	BNEQ	2\$		
				02	D4	00043	CLRL	R1		
				51	D5	00045	TSTL	R1		
				51	12	00047	BNEQ	4\$		
63				52	3A	00049	LOCC	#42, R2, (R3)	2945	
				02	12	0004D	BNEQ	3\$		
				51	D4	0004F	CLRL	R1		
				51	D5	00051	TSTL	R1		
				0F	13	00053	BEQL	5\$		
		F8		01	D0	00055	MOVL	#1, WILD_NETUSER	2948	
		F4	A6	52	D0	00059	MOVL	R2, MATCH_TOKENLEN	2949	
B0	A6		63	52	28	0005D	MOVCS	R2, (R3), MATCH_TOKEN	2950	
				29	11	00062	BRB	6\$	2944	
				F8	A6	D4	00064	CLRL	WILD_NETUSER	2957
				5E	DD	00067	PUSHL	SP	2958	
				08	AE	9F	00069	PUSHAB	REMUSER_PTR	
				10	AE	9F	0006C	PUSHAB	NODE_LEN	
				18	AE	9F	0006F	PUSHAB	NODE_PTR	
		F412	CF	04	FB	00072	CALLS	#4, REMOTE_PARSE		
20	20		61	50	E9	00077	BLBC	RO, 9\$		
			BE	08	AE	2C	0007A	MOVCS	NODE_LEN, @NODE_PTR, #32, #32, NETBUF	2961
20	20		05A4	C6		00081				
				6E	2C	00084	MOVCS	REMUSER_LEN, @REMUSER_PTR, #32, #32, -	2963	
				05C4	C6	0008A		NETBUF+32		
		98	A6	069C	C6	9E	0008D	MOVAB	OUTRAB, RABPTR	2969
			50	00000000V	00	9E	00093	MOVAB	DISPLAY_PROXY, ACTION	2970
				06E0	C6	D4	0009A	CLRL	FOUND_MATCH	2971
		0650	C6	00100008	8F	D0	0009E	MOVL	#1048584, NAFRAB+4	2972
					50	DD	000A7	PUSHL	ACTION	2977
		00000000V	00		01	FB	000A9	CALLS	#1, LOCATE_PROXY	
		18	A6		50	D0	000B0	MOVL	RO, RMSERR	
			24		50	E8	000B4	BLBS	RO, 9\$	
		000182B2	50	18	A6	D0	000B7	MOVL	RMSERR, RO	2980
			8F		50	D1	000BB	CPL	RO, #98994	
					0A	12	000C2	BNEQ	8\$	
				00000000G	8F	DD	000C4	PUSHL	#UAF\$ BADSPC	2982
			67		01	FB	000CA	CALLS	#1, LIB\$SIGNAL	
						04	000CD	RET		
					50	DD	000CE	PUSHL	RO	2981
					7E	D4	000D0	CLRL	-(SP)	
				00000000G	8F	DD	000D2	PUSHL	#UAF\$ SHOW_ERR	
			67		03	FB	000DB	CALLS	#3, LIB\$SIGNAL	
					04	000DB	RET		2986	

; Routine Size: 220 bytes, Routine Base: \$CODE\$ + 11C1

```

2918 2987 1 %sbttl 'locate_proxy - access given proxy record (s)'
2919 2988 1 routine locate_proxy (action) =
2920 2989 ~ begin
2921 2990 ~
2922 2991 ~ :++
2923 2992 ~
2924 2993 ~ : FUNCTIONAL DESCRIPTION:
2925 2994 ~
2926 2995 ~     This routine will call a requested action routine a number of times.
2927 2996 ~
2928 2997 ~ : INPUTS:
2929 2998 ~
2930 2999 ~     ACTION - the action routine to call for each NEUAF record
2931 3000 ~
2932 3001 ~ : OUTPUTS:
2933 3002 ~
2934 3003 ~     none
2935 3004 ~
2936 3005 ~ : SIDE EFFECTS:
2937 3006 ~
2938 3007 ~     none
2939 3008 ~
2940 3009 ~ :--
2941 3010 ~
2942 3011 ~ local
2943 3012 ~     status;
2944 3013 ~
2945 3014 ~
2946 3015 ~ : If wild user, set acces to sequential and fetch all records
2947 3016 ~
2948 3017 ~ if .wild_netuser
2949 3018 ~ then
2950 3019 ~     begin
2951 3020 ~         nafrab[rab$b_rac] = rab$c_seq;
2952 3021 ~         $rewind (rab = :afrab);
2953 3022 ~     end;
2954 3023 ~
2955 3024 ~ status = get_proxy_record ();
2956 3025 ~
2957 3026 ~
2958 3027 ~ : Fetch record and call action routine until EOF
2959 3028 ~
2960 3029 ~ if .status
2961 3030 ~ then (.action) ();
2962 3031 ~
2963 3032 ~ if .wild_netuser
2964 3033 ~ then
2965 3034 ~     begin
2966 3035 ~         while status = get_proxy_record ()
2967 3036 ~         do (.action) ();
2968 3037 ~         if .status eql rms$eof
2969 3038 ~         then status = true;
2970 3039 ~     end;
2971 3040 ~
2972 3041 ~
2973 3042 ~ : Restore keyed access
2974 3043 ~

```

```

: 2975      3044 2 nafrab[rab$b_rac] = rab$c_key;
: 2976      3045 ~~~~~
: 2977      3046 if .wild_netuser and not .found_match
: 2978      3047 then LIB$SIGNAL(UAF$_BADSPC);
: 2979      3048 ~~~~~
: 2980      3049 2 .status
: 2981      3050 1 end;

```

		001C 00000 LOCATE_PROXY:					
	54	00000000V	00	9E	00002	.WORD Save R2,R3,R4	2988
	53	00000000'	00	9E	00009	MOVAB GET PROXY RECORD, R4	
	0F		63	E9	00010	MOVAB WILD_NETUSER, R3	
		0672	C3	94	00013	BLBC WILD_NETUSER, 1\$	3017
		0654	C3	9F	00017	CLRB NAFRAB+30	3020
00000000G	00		01	FB	0001B	PUSHAB NAFRAB	3021
	64		00	FB	00022	CALLS #1, SYS\$REWIND	
	52		50	DO	00025	CALLS #0, GET PROXY_RECORD	3024
	04		52	E9	00028	MOVL R0, STATUS	
	04	BC	00	FB	0002B	BLBC STATUS, 2\$	3029
	1B		63	E9	0002F	CALLS #0, @ACTION	3030
	64		00	FB	00032	BLBC WILD_NETUSER, 5\$	3032
	52		50	DO	00035	CALLS #0, GET PROXY_RECORD	3035
	06		52	E9	00038	MOVL R0, STATUS	
	04	BC	00	FB	0003B	BLBC STATUS, 4\$	3036
			F1	1:	0003F	CALLS #0, @ACTION	
0001827A	8F		52	D1	00041	BRB 3\$	3036
			03	12	00048	CMPD STATUS, #98938	3037
	52		01	DO	0004A	BNEQ 5\$	
	0672		01	90	0004D	MOVL #1, STATUS	3038
	12		63	E9	00052	MOVAB #1, NAFRAB+30	3044
	0D	06E8	C3	E8	00055	BLBC WILD_NETUSER, 6\$	3046
		00000000G	8F	DD	0005A	BLBS FOUND_MATCH, 6\$	
00000000G	00		01	FB	00060	PUSHL #UAF\$_BADSPC	3047
	50		52	DO	00067	CALLS #1, LIB\$SIGNAL	
			04	0006A		MOVL STATUS, R0	3050
						RET	

: Routine Size: 107 bytes, Routine Base: \$CODE\$ + 129D

```

: 2983 3051 1 %sbttl 'get_proxy_record - read single proxy record'
: 2984 3052 1 routine get_proxy_record =
: 2985 3053 2 begin
: 2986 3054 2
: 2987 3055 2 |++
: 2988 3056 2
: 2989 3057 2 FUNCTIONAL DESCRIPTION:
: 2990 3058 2
: 2991 3059 2 This routine accesses a specific NETUAF.DAT record
: 2992 3060 2
: 2993 3061 2 INPUTS:
: 2994 3062 2
: 2995 3063 2 none
: 2996 3064 2
: 2997 3065 2 OUTPUTS:
: 2998 3066 2
: 2999 3067 2 none
: 3000 3068 2
: 3001 3069 2 SIDE EFFECTS:
: 3002 3070 2
: 3003 3071 2 none
: 3004 3072 2
: 3005 3073 2 |--
: 3006 3074 2
: 3007 3075 2 local
: 3008 3076 2 counter,
: 3009 3077 2 success;
: 3010 3078 2
: 3011 3079 2 counter = retry_rlk;
: 3012 3080 2
: 3013 3081 2 while ((success = $get (rab = nafrab)) eql rms$_rlk)
: 3014 3082 2 and ((counter = .counter - 1) geq 0)
: 3015 3083 2 do
: 3016 3084 2 if $schdwk (daytim = wakedelta) then $hiber;
: 3017 3085 2
: 3018 3086 2 .success
: 3019 3087 2 1 end;

```

```

.EXTRN SY$$GET, SY$$SCHDWK
.EXTRN SY$$HIBER

```

000C 00000 GET\_PROXY\_RECORD:

	52	00000000'	08	D0	00002	.WORD	Save R2,R3	3057	
			00	9F	00005	1s:	MOVL	#8, COUNTER	3079
00000000G	00		01	FB	00008		PUSHAB	NAFRAB	3081
	53		50	D0	00012		CALLS	#1, SY\$\$GET	
000182AA	8F		53	D1	00015		MOVL	R0, SUCCESS	
			21	12	0001C		CMPL	SUCCESS, #98986	
			52	D7	0001E		BNEQ	28	3082
			1D	19	00020		DECL	COUNTER	
			7E	D4	00022		BLSS	28	3084
		00000000'	00	9F	00024		CLRL	-(SP)	
00000000G	00		7E	7C	0002A		PUSHAB	WAKEDELTA	
			04	FB	0002C		CLRG	-(SP)	
							CALLS	#4, SY\$\$SCHDWK	

UAFMAIN  
V04-000

get\_proxy\_record - read single proxy record

L 12  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 v4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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(22)

00000000G	CF	50	E9	00033	BLBC	RO, 1\$
	00	00	FB	00036	CALLS	#0, SYSSHIBER
		C6	11	0003D	BRB	1\$
	50	53	D0	0003F	MOVL	SUCCESS, RO
		04	00042	2\$:	RET	

3087

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 1308

display\_proxy - format and output a proxy entry

```

3021 3088 1 %sbttl 'display_proxy - format and output a proxy entry'
3022 3089 1 routine display_proxy : novalue =
3023 3090 begin
3024 3091
3025 3092 +-
3026 3093
3027 3094 FUNCTIONAL DESCRIPTION:
3028 3095
3029 3096 This routine formats and outputs a line of a NETUAF.DAT entry
3030 3097
3031 3098 INPUTS:
3032 3099
3033 3100 none
3034 3101
3035 3102 OUTPUTS:
3036 3103
3037 3104 none
3038 3105
3039 3106 SIDE EFFECTS:
3040 3107
3041 3108 none
3042 3109
3043 3110 --
3044 3111
3045 3112 bind
3046 3113 nafhdr = cstring (' Node Remote User Local User'),
3047 3114 shownaf = cstring ('!6AD::!12AD !12AD');
3048 3115
3049 3116
3050 3117 if .wild_netuser
3051 3118 and not
3052 3119 begin
3053 3120 local
3054 3121 nodeler, usrlen, proxy_buf : vector[naf$s_remname+2,byte];
3055 3122 map
3056 3123 dbl_colon : vector;
3057 3124
3058 3125 nodelen = namelen (naf$s_node, netbuf[naf$t_node]);
3059 3126 usrlen = namelen (naf$s_remuser, netbuf[naf$t_remuser]);
3060 3127 ch$move (.nodelen, netbuf[naf$t_node], proxy_buf [0]);
3061 3128 ch$move (2, .dbl_colon[1], proxy_buf [nodelen]);
3062 3129 ch$move (.usrlen, netbuf [naf$t_remuser], proxy_buf [.nodelen+2]);
3063 3130
3064 3131 usrlen = .nodelen + .usrlen + 2;
3065 3132 fmg$match_name (.usrlen, proxy_buf, .match_tokenlen, match_token)
3066 3133 end
3067 3134 then
3068 3135 return;
3069 3136
3070 3137 found_match = true;
3071 3138
3072 3139 if .header_flag
3073 3140 then
3074 3141 begin
3075 3142 faomac (nafhdr);
3076 3143 output_null;
3077 3144 header_flag = false;

```



```

: 3078      3145 2      end;
: 3079      3146 2
: 3080      P 3147 2      faomac (shownaf,
: 3081      P 3148 2      :*** naf$s_node,      netbuf[naf$t_node],
: 3082      P 3149 2      :*** naf$s_remuser,  netbuf[naf$t_remuser],
: 3083      P 3150 2      :*** naf$s_localuser, netbuf[naf$t_localuser]);
: 3084      P 3151 2      6, netbuf[naf$t_node],
: 3085      P 3152 2      12, netbuf[naf$t_remuser],
: 3086      3153 2      12, netbuf[naf$t_localuser]);
: 3087      3154 2
: 3088      3155 1 end;

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2
20 65 74 6F 6D 65 52 20 20 20 65 64 6F 4E 22 0026C P.ACQ: .BYTE 34
20 6C 61 63 6F 4C 20 20 20 20 20 72 65 73 55 0026D .ASCII \ Node Remote User Local User\
20 20 20 20 44 41 32 31 21 3A 3A 44 41 36 21 0027C
72 65 73 55 0028B
14 0028F P.ACR: .BYTE 20
20 20 20 20 44 41 32 31 21 3A 3A 44 41 36 21 00290 .ASCII \!6AD::!12AD !12AD\
44 41 32 31 21 0029F

```

```

NAFHDR= P.ACQ
SHOWNAF= P.ACR
.EXTRN SYSS$FAO

```

```
.PSECT $CODE$,NOWRT,2
```

OFFC 00000 DISPLAY\_PROXY:

```

5B 00000000' 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 3089
5A 00000000G 00 9E 00009 MOVAB HEADER_FLAG, R11
59 00000000' 00 9E 00010 MOVAB SYSS$PUT, R10
58 00000000' 00 9E 00017 MOVAB DBL COLON+4, R9
5E BC AE 9E 0001E MOVAB RABPTR, R8
47 60 AB E9 00022 MOVAB -68(SP), SP
060C C8 20 20 3A 00026 BLBC WILD_NETUSER, 1$ : 3117
56 20 50 C3 0002C LOCC #32, #32, NETBUF : 3125
062F C8 20 20 3A 00030 SUBL3 R0, #32, NODELEN
57 20 50 C3 00036 LOCC #32, #32, NETBUF+32 : 3126
6E 060C C8 20 56 28 0003A SUBL3 R0, #32, USRLEN
50 50 69 D0 00040 MOVAB NODELEN, NETBUF, PROXY_BUF : 3127
6E46 9F 00043 MOVL DBL COLON+4, R0 : 3128
60 B0 00046 PUSHAB PROXY_BUF[NODELEN]
02 AE46 062C C8 57 28 00049 MOVW (R0), @ (SP)+
57 02 A746 9E 00051 MOVAB USRLEN, NETBUF+32, PROXY_BUF+2[NODELEN] : 3129
55 18 AB 9E 00056 MOVAB 2(USRLEN)[NODELEN], USRLEN : 3131
53 6E 9E 0005A MOVAB MATCH_TOKEN, R5 : 3132
54 5C AB D0 0005D MOVAB PROXY_BUF, R3
52 57 D0 00061 MOVL MATCH_TOKENLEN, R4
00000000G 00 16 00064 MOVL USRLEN, R2
0748 68 50 E9 0006A JSB FMG$MATCH_NAME
C8 01 D0 0006D BLBC R0, 3$ : 3137
2F 6B E9 00072 MOVL #1, FOUND_MATCH : 3139
F8 AB 0158 C9 9B 00075 BLBC HEADER_FLAG, 2$ : 3142
MOVZBW NAFHDR, FAODSC

```

	FC	A8	0159	C9	9E	0007B		MOVAB	NAFHDR+1, FAODSC+4
			F0	A8	9F	00081		PUSHAB	DISDSC
7E		68		22	C1	00084		ADDL3	#34, RABPTR, -(SP)
			F8	A8	9F	00088		PUSHAB	FAODSC
	0000C000G	00		03	FB	0008B		CALLS	#3, SYSSFAO
		6A		68	DD	00092		PUSHL	RABPTR
		50		01	FB	00094		CALLS	#1, SYSSPUT
			22	68	DD	00097		MOVL	RABPTR, R0
				A0	B4	0009A		CLRW	34(R0)
		6A		50	DD	0009D		PUSHL	R0
				01	FB	0009F		CALLS	#1, SYSSPUT
	FB	A8	017B	6B	D4	000A2	2\$:	CLRL	HEADER FLAG
	FC	A8	017C	C9	9B	000A4		MOVZBW	SHOWNAF, FAODSC
			064C	C9	9E	000AA		MOVAB	SHOWNAF+1, FAODSC+4
				C8	9F	000B0		PUSHAB	NETBUF+64
			062C	0C	DD	000B4		PUSHL	#12
				C8	9F	000B6		PUSHAB	NETBUF+32
			060C	0C	DD	000BA		PUSHL	#12
				C8	9F	000BC		PUSHAB	NETBUF
				06	DD	000C0		PUSHL	#6
			F0	A8	9F	000C2		PUSHAB	DISDSC
7E		68		22	C1	000C5		ADDL3	#34, RABPTR, -(SP)
			F8	A8	9F	000C9		PUSHAB	FAODSC
	00000000G	00		09	FB	000CC		CALLS	#9, SYSSFAO
		6A		68	DD	000D3		PUSHL	RABPTR
				01	FB	000D5		CALLS	#1, SYSSPUT
				04	000D8	3\$:		RET	

3144  
3153

3155

; Routine Size: 217 bytes, Routine Base: \$CODE\$ + 134B

wild\_user - user wild card routine

```

3090 3156 1 %sbttl 'wild_user - user wild card routine'
3091 3157 1 global routine wild_user (action) =
3092 3158 2 begin
3093 3159 2
3094 3160 2 **
3095 3161 2
3096 3162 2 FUNCTIONAL DESCRIPTION:
3097 3163 2
3098 3164 2 Provide a general means of accessing the User Authorization File
3099 3165 2 records. There are six methods:
3100 3166 2
3101 3167 2 UGMS
3102 3168 2 IRET
3103 3169 2 CPMR
3104 3170 2 \\\
3105 3171 2 FWWW
3106 3172 2 LIII
3107 3173 2 ALLL
3108 3174 2 Syntax GDDD Interpretation
3109 3175 2 -----
3110 3176 2 Username FFFF Exactly one user is to be located
3111 3177 2 * FFFT All users (alphabetically)
3112 3178 2 [Group,Member] TFFF All users with the specified UIC
3113 3179 2 [Group,*] TTF All users in the specified group (by member)
3114 3180 2 [* ,Member] TTF A FIFO listing of the groups with this member
3115 3181 2 [* ,*] TTF All users by UIC
3116 3182 2
3117 3183 2 INPUTS:
3118 3184 2
3119 3185 2 ACTION - Pointer to routine to call after each successful GET
3120 3186 2
3121 3187 2 IMPLICIT INPUTS:
3122 3188 2
3123 3189 2 UIC_FLAG - UIC form (instead of username)
3124 3190 2 GRP_WILD - Group wild card (must imply UIC_FLAG)
3125 3191 2 MEM_WILD - Member wild card (must imply UIC_FLAG)
3126 3192 2 STR_WILD - all users alphabetically (must imply NOT UIC_FLAG)
3127 3193 2 UAFRAB - RMS data structure for SYSUAF.DAT
3128 3194 2 RECBUF - The current record
3129 3195 2
3130 3196 2 OUTPUTS:
3131 3197 2
3132 3198 2 none
3133 3199 2
3134 3200 2 IMPLICIT OUTPUTS:
3135 3201 2
3136 3202 2 none
3137 3203 2
3138 3204 2 ROUTINE VALUE:
3139 3205 2
3140 3206 2 If an abnormal condition is encountered the appropriate status
3141 3207 2 is returned.
3142 3208 2
3143 3209 2 SIDE EFFECTS:
3144 3210 2
3145 3211 2 none
3146 3212 2 --

```

```

3147      3213      2
3148      3214      2 macro
3149      3215      2         lmt_l_uic = 0,0,32,0%,           ! User ID Code
3150      3216      2         lmt_w_mem = 0,0,16,0%,          ! Member subfield
3151      3217      2         lmt_w_grp = 2,0,16,0%,           ! Group subfield
3152      3218      2
3153      3219      2 local
3154      3220      2         status,
3155      3221      2         lmtkey : block[4,byte];           ! This routine's status
3156      3222      2                                     ! Limiting key value for sequential loop
3157      3223      2 if .uic_flag
3158      3224      2 then
3159      3225      2
3160      3226      2     ! Change the key of reference and the key buffer if a UIC form was
3161      3227      2     ! specified.
3162      3228      2
3163      3229      2     begin
3164      3230      2     uafrab[rab$b_krf] = 1;
3165      3231      2     uafrab[rab$l_kbf] = recbuf[uaf$l_uic];
3166      3232      2     uafrab[rab$b_ksz] = 4;
3167      3233      2     end;
3168      3234      2
3169      3235      2 if .mem_wild and not .grp_wild
3170      3236      2 then
3171      3237      2
3172      3238      2     ! The UIC requested was of the form [Group,*]
3173      3239      2
3174      3240      2     uafrab[rab$v_kge] = true;
3175      3241      2
3176      3242      2
3177      3243      2     ! LITKEY need be loaded only IF .UIC_FLAG AND NOT (.GRP_WILD AND .MEM_WILD)
3178      3244      2     ! but it is simpler to always load it.
3179      3245      2
3180      3246      2
3181      3247      2     lmtkey[lmt_l_uic] = .recbuf[uaf$l_uic];
3182      3248      2
3183      3249      2
3184      3250      2     ! Locate the first user meeting the specification.
3185      3251      2
3186      3252      2
3187      3253      2 if .str_wild or .grp_wild
3188      3254      2 then
3189      3255      2     begin
3190      3256      2
3191      3257      2     ! Every user in the file is to be accessed.
3192      3258      2
3193      3259      2     uafrab[rab$b_rac] = rab$c_seq;
3194      3260      2     $rewind (rab = uafrab);
3195      3261      2     status = get_uaf_record ();
3196      3262      2     end
3197      3263      2 else
3198      3264      2     begin
3199      3265      2     status = get_uaf_record ();
3200      3266      2     if .uic_flag
3201      3267      2     then
3202      3268      2     begin
3203      3269      2

```

wild\_user - user wild card routine

```

3204 3270 4 | Even an explicit UIC requires sequential reads to locate duplicates.
3205 3271 7 |
3206 3272 4 |     uafrab[rab$b_rac] = rab$c_seq;
3207 3273 4 |     if .mem_wild and not .grp_wild
3208 3274 4 |     then
3209 3275 5 |         begin
3210 3276 5 |
3211 3277 5 | RABSV KGE is set on the initial access for specifications of the
3212 3278 5 | form [Group,*] so if the specified group has no members the record
3213 3279 5 | will be that of a user in another group.
3214 3280 5 |
3215 3281 5 |         uafrab[rab$v_kge] = false;
3216 3282 5 |         if .lmtkey[lmt_w_grp] nequ .recbuf[uaf$w_grp]
3217 3283 5 |         then
3218 3284 5 |             status = rms$rnf;
3219 3285 4 |         end;
3220 3286 3 |     end;
3221 3287 2 | end;
3222 3288 2 |
3223 3289 2 | if .status
3224 3290 2 | then
3225 3291 2 |     begin
3226 3292 2 |
3227 3293 3 | Feed the action routine the first record. In the case of an explicit
3228 3294 3 | username specification this will be the only record.
3229 3295 3 |
3230 3296 3 |     while .status
3231 3297 3 |     do
3232 3298 4 |         begin
3233 3299 5 |             if (
3234 3300 5 |                 if .grp_wild and not .mem_wild
3235 3301 5 |                 then .recbuf[uaf$w_mem] eql .lmtkey[lmt_w_mem]
3236 3302 5 |                 else true
3237 3303 5 |             )
3238 3304 4 |             then status = (.action) ();
3239 3305 4 |             if not .status then exitloop;
3240 3306 5 |             if not (.str_wild or .uic_flag)
3241 3307 4 |             then exitloop;
3242 3308 4 |             status = get_uaf_record ();
3243 3309 4 |             if not .status then exitloop;
3244 3310 4 |             if .uic_flag
3245 3311 4 |             then
3246 3312 5 |                 begin
3247 3313 5 |
3248 3314 5 | The limiting key value is used in different ways depending
3249 3315 5 | on the form of the UIC specification.
3250 3316 5 |
3251 3317 5 |         if .mem_wild and not .grp_wild
3252 3318 5 |         then
3253 3319 5 |
3254 3320 5 | [Group,*]
3255 3321 5 |
3256 3322 6 |         begin
3257 3323 6 |             if .lmtkey[lmt_w_grp] nequ .recbuf[uaf$w_grp]
3258 3324 6 |             then exitloop;
3259 3325 5 |         end;
3260 3326 6 |         if not (.grp_wild or .mem_wild)

```

```

3261      3327 5      then
3262      3328 5      :
3263      3329 5      : [Group,Member]
3264      3330 5      :
3265      3331 6      begin
3266      3332 6      if .lmtkey[lmt_l_uic] nequ .recbuf[uaf$l_uic]
3267      3333 6      then exitloop;
3268      3334 5      end;
3269      3335 4      end;
3270      3336 4      end; ! end of wild carding loop
3271      3337 4      if .status eql rms$_eof
3272      3338 4      then status = true; ! Hitting EOF is ok
3273      3339 4      end;
3274      3340 2      if .str wild and not .found_match
3275      3341 2      then LIB$SIGNAL(UAF$_BADSPC);
3276      3342 2      :
3277      3343 2      : The RAB must be returned to its former state before exiting.
3278      3344 2      :
3279      3345 2      :
3280      3346 2      uafrab[rab$b_rac] = rab$c_key;
3281      3347 2      :
3282      3348 2      if .uic_flag
3283      3349 2      then
3284      3350 2      begin
3285      3351 2      uafrab[rab$b_krf] = 0;
3286      3352 2      uafrab[rab$l_kbf] = recbuf[uaf$t_username];
3287      3353 2      uafrab[rab$b_ksz] = uaf$s_username;
3288      3354 2      end;
3289      3355 2      :
3290      3356 2      :
3291      3357 2      : Reset parse count
3292      3358 2      :
3293      3359 2      :
3294      3360 2      call_count = 0;
3295      3361 2      :
3296      3362 2      .status
3297      3363 1      end;

```

			001C 00000	.ENTRY WILD USER, Save R2,R3,R4	3157
	S4	00000000V	00 9E 00002	MOVAB GET_OAF_RECORD, R4	
	S3	00000000'	00 9E 00009	MOVAB GRP_WILD, R3	
	SE		04 C2 00010	SUBL2 #4, SP	
	GE	FC	A3 E9 00013	BLBC UIC_FLAG, 1\$	3223
FF50	C3	F95C	C3 9E 00017	MOVAB RECBUF+36, UAFRAB+48	3231
FF54	C3	0104	8F B0 0001E	MOVW #260, UAFRAB+52	3232
	0B	04	A3 E9 00025	BLBC MEM_WILD, 2\$	3235
	05		63 E8 00029	BLBS GRP_WILD, 2\$	
FF26	C3		20 88 0002C	BISB2 #32, UAFRAB+6	3240
	6E	F95C	C3 D0 00031	MOVL RECBUF+36, LMTKEY	3247
	03	0B	A3 E8 00036	BLBS STR_WILD, 3\$	3253
	17		63 E9 0003A	BLBC GRP_WILD, 4\$	
		FF3E	C3 94 0003D	CLRB UAFRAB+30	3259
		FF20	C3 9F 00041	PUSHAB UAFRAB	3260

00000000G	00		01	FB	00045	CALLS	#1, SYSS\$EWIND	
	64		00	FB	0004C	CALLS	#0, GET_UAF_RECORD	3261
	52		50	DO	0004F	MOVL	R0, STATUS	
			29	11	00052	BRB	5\$	3253
	64		00	FB	00054	CALLS	#0, GET_UAF_RECORD	3265
	52		50	DO	00057	MOVL	R0, STATUS	
	1F	FC	A3	E9	0005A	BLBC	UIC_FLAG, 5\$	3266
		FF3E	C3	94	0005E	CLRB	UAFRAB+30	3272
	17	04	A3	E9	00062	BLBC	MEM_WILD, 5\$	3273
	14		63	E8	00066	BLBS	GRP_WILD, 5\$	
FF26	C3		20	8A	00069	BICB2	#32, UAFRAB+6	3281
F95E	C3	02	AE	B1	0006E	CMPW	LMTKEY+2, RECBUF+38	3282
			07	13	00074	BEQL	5\$	
	52	000182B2	8F	DO	00076	MOVL	#98994, STATUS	3284
	5B		52	E9	0007D	BLBC	STATUS, 12\$	3289
	4C		52	E9	00080	BLBC	STATUS, 11\$	3296
	0B		63	E9	00083	BLBC	GRP_WILD, 7\$	3300
	07	04	A3	E8	00086	BLBS	MEM_WILD, 7\$	
	6E	F95C	C3	B1	0008A	CMPW	RECBUF+36, LMTKEY	3301
			07	12	0008F	BNEQ	8\$	
04	BC		00	FB	00091	CALLS	#0, @ACTION	3304
	52		50	DO	00095	MOVL	R0, STATUS	
	34		52	E9	00098	BLBC	STATUS, 11\$	3305
	04	08	A3	E8	0009B	BLBS	STR_WILD, 9\$	3306
	2C	FC	A3	E9	0009F	BLBC	UIC_FLAG, 11\$	
	64		00	FB	000A3	CALLS	#0, GET_UAF_RECORD	3308
	52		50	DO	000A6	MOVL	R0, STATUS	
	23		52	E9	000A9	BLBC	STATUS, 11\$	3309
	DO	FC	A3	E9	000AC	BLBC	UIC_FLAG, 6\$	3310
	50	04	A3	DO	000B0	MOVL	MEM_WILD, R0	3317
	0B		50	E9	000B4	BLBC	R0, 10\$	
	C6		63	E8	000B7	BLBS	GRP_WILD, 6\$	
F95E	C3	02	AE	B1	000BA	CMPW	LMTKEY+2, RECBUF+38	3323
			0D	12	000C0	BNEQ	11\$	
	BB		63	E8	000C2	BLBS	GRP_WILD, 6\$	3326
	BB		50	E8	000C5	BLBS	R0, 6\$	
F95C	C3		6E	D1	000C8	CMPW	LMTKEY, RECBUF+36	3332
			B1	13	000CD	BEQL	6\$	
0001827A	8F		52	D1	000CF	CMPW	STATUS, #98938	3337
			03	12	000D6	BNEQ	12\$	
	52		01	DO	000D8	MOVL	#1, STATUS	3338
	11	J8	A3	E9	000DB	BLBC	STR_WILD, 13\$	3341
	0D	F8	A3	E8	000DF	BLBS	FOUND_MATCH, 13\$	
		00000000G	8F	DD	000E3	PUSHL	#UAF\$BADSPC	3342
00000000G	00		01	FB	000E9	CALLS	#1, LIB\$SIGNAL	
FF3E	C3		01	90	000F0	MOVB	#1, UAFRAB+30	3347
	0C	FC	A3	E9	000F5	BLBC	UIC_FLAG, 14\$	3349
FF50	C3	F93C	C3	9E	000F9	MOVAB	RECBUF+4, UAFRAB+48	3353
FF54	C3		20	B0	00100	MOVW	#32, UAFRAB+52	3354
		F914	C3	D4	00105	CLRL	CALL COUNT	3360
	50		52	DO	00109	MOVL	STATUS, R0	3363
			04	0010C		RET		

; Routine Size: 269 bytes, Routine Base: \$CODE\$ + 1424

display\_brief - writes a brief user display

```

3299 3364 1 %sbttl 'display_brief - writes a brief user display'
3300 3365 1 routine display_brief =
3301 3366 2 begin
3302 3367 2
3303 3368 2 +-
3304 3369 2
3305 3370 2 FUNCTIONAL DESCRIPTION:
3306 3371 2
3307 3372 2 Provide an ASCII listing of the most important record information
3308 3373 2 (username, owner, etc.) for each record supplied.
3309 3374 2
3310 3375 2 INPUTS:
3311 3376 2
3312 3377 2 none
3313 3378 2
3314 3379 2 IMPLICIT INPUTS:
3315 3380 2
3316 3381 2 RABPTR - RMS data structure for the file
3317 3382 2
3318 3383 2 OUTPUTS:
3319 3384 2
3320 3385 2 none
3321 3386 2
3322 3387 2 IMPLICIT OUTPUTS:
3323 3388 2
3324 3389 2 none
3325 3390 2
3326 3391 2 ROUTINE VALUE:
3327 3392 2
3328 3393 2 none
3329 3394 2
3330 3395 2 SIDE EFFECTS:
3331 3396 2
3332 3397 2 none
3333 3398 2 --
3334 3399 2
3335 3400 2 bind
3336 P 3401 2 lststr1 = cstring (' Owner Username UIC Account Privs',
3337 3402 2 ' Pri Directory'),
3338 3403 2 lststr2 = cstring ('!20AC !12AD !15ZU !8AF !6AC !2UL !AC!AC');
3339 3404 2
3340 3405 2
3341 3406 2 Output a header if one was requested.
3342 3407 2
3343 3408 2 if .header_flag
3344 3409 2 then
3345 3410 2 begin
3346 3411 2 faomac (lststr1);
3347 3412 2 output_null;
3348 3413 2 header_flag = false;
3349 3414 2 end;
3350 3415 2
3351 3416 2 if .str_wild and not fmg$match_name (namelen (uaf$s_username,recbuf[uaf$t_username]),
3352 3417 2 recbuf[uaf$t_username],
3353 3418 2 .match_token[en, match_token)
3354 3419 2
3355 3420 2 then return true;

```



```

: 3356      3421 2 found_match = true;
: 3357      3422 2
: 3358      3423 2
: 3359      3424 2 Output the record.
: 3360      3425 2
: 3361      3426 2
: 3362      3427 2 ch$fill (' ', disbuflen, disbuf);
: 3363      3428 2
: 3364      3429 2 faomac (lststr2,
: 3365      3430 2     recbuf[uaf$t_owner],
: 3366      3431 2     !*** uaf$s_username, recbuf[uaf$t_username],
: 3367      3432 2     12, recbuf[uaf$t_username],
: 3368      3433 2     .recbuf[uaf$l_uic],
: 3369      3434 2     !*** uaf$s_account, recbuf[uaf$t_account],
: 3370      3435 2     8, recbuf[uaf$t_account],
: 3371      3436 2     classify_priv (recbuf[uaf$q_priv], .recbuf[uaf$l_uic]),
: 3372      3437 2     .recbuf[uaf$b_pri],
: 3373      3438 2     recbuf[uaf$t_defdev],
: 3374      3439 2     recbuf[uaf$t_defdir]);
: 3375      3440 2
: 3376      3441 2 true
: 3377      3442 1 end;

```

```

                                .PSECT $SPLITS, NOWRT, NOEXE, 2
20 20 20 72 65 6E 77 4F 20 20 20 20 20 20 4E 002A4 P.ACS: .BYTE 78
20 65 6D 61 6E 72 65 73 55 20 20 20 20 20 20 002A5 .ASCII \      Owner      Username \
75 6F 63 63 41 20 20 20 20 20 20 20 20 20 20 002B4
44 20 69 72 50 20 73 76 69 72 50 20 20 74 6E 002C3
                                .ASCII \UIC      Account  Privs Pri Directory\
35 31 21 20 44 41 32 31 21 20 43 41 30 32 21 002CD
32 21 20 43 41 36 21 20 46 41 38 21 20 55 25 002DC
                                .P.ACT: .BYTE 39
                                .ASCII \!20AC !12AD !15%U !8AF !6AC !2UL !AC!AC\
43 41 21 43 41 21 20 4C 55 002EB
                                27 002F3
                                002F4
                                00303
                                00312

```

LSTSTR1= P.ACS  
LSTSTR2= P.ACT

```

                                .PSECT $CODES, NOWRT, 2
                                07FC 0000 DISPLAY_BRIEF:
                                .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10
                                5A 00000000' 00 9E 00002 MOVAB HEADER FLAG, R10
                                59 00000000G 00 9E 00009 MOVAB SYSSPAD, R9
                                58 00000000G 00 9E 00010 MOVAB SYSSPUT, R8
                                57 00000000' 00 9E 00017 MOVAB LSTSTR1, R7
                                56 00000000' 00 9E 0001E MOVAB RABPTR, R6
                                28 6A E9 00025 BLBC HEADER FLAG, 1$
                                FB A6 67 9B 00028 MOVZBW LSTSTR1, FAODSC
                                FC A6 01 A7 9E 0002C MOVAB LSTSTR1+1, FAODSC+4
                                7E 66 01 A6 9F 00031 PUSHAB DISDSC
                                22 C1 00034 ADDL3 #34, RABPTR, -(SP)

```

3365  
3408  
3411

				FB	A6	9F	00038		PUSHAB	FAODSC			
		69		03	FB	00038			CALLS	#3, SYSSFAO			
				66	DD	0003E			PUSHL	RABPTR			
		68		01	FB	00040			CALLS	#1, SYSSPUT			
		50		66	DD	00043			MOVL	RABPTR, R0			
				22	A0	B4	00046		CLRW	34(R0)			
				50	DD	00049			PUSHL	R0			
		68		01	FB	0004B			CALLS	#1, SYSSPUT			
				6A	D4	0004E			CLRL	HEADER FLAG		3413	
		23	0758	C6	E9	00050	18:		BLBC	STR WID, 28		3416	
		55	18	A6	9E	00055			MOVAB	MATCH TOKEN, R5		3417	
	008C	53	008C	C6	9E	00059			MOVAB	RECBUF+4, R3			
		20		20	3A	0005E			LOCC	#32, #32, RECBUF+4		3416	
		52		E0	A0	9E	00064		MOVAB	-32(R0), R2			
		52			52	CE	00068		MNEGL	R2, R2			
		54		5C	A6	DD	0006B		MOVL	MATCH TOKENLEN, R4		3417	
			00000000G	00	16	0006F			JSB	FMGSMATCH_NAME			
		5D		50	E9	00075			BLBC	R0, 38			
0084	8F		20	0748	C6	01	DD	00078	28:	MOVL	#1, FOUND_MATCH	3421	
				6E	00	2C	0007D		MOVCS	#0, (SP), #32, #132, DISBUF		3427	
					FF6C	C6	00084						
				F8	A6	4F	A7	9B	00087	MOVZBW	LSTSTR2, FAODSC		
				FC	A6	50	A7	9E	0008C	MOVAB	LSTSTR2+1, FAODSC+4		3439
					011C	C6	9F	00091	PUSHAB	RECBUF+148			
					00FC	C6	9F	00095	PUSHAB	RECBUF+116			
				7E	028C	C6	9A	00099	MOVZBL	RECBUF+516, -(SP)			
					00AC	C6	DD	0009E	PUSHL	RECBUF+36			
					0224	C6	9F	000A2	PUSHAB	RECBUF+412			
			00000000V	00	02	FB	000A6		CALLS	#2, CLASSIFY_PRIV			
					50	DD	000AD		PUSHL	R0			
					00BC	C6	9F	000AF	PUSHAB	RECBUF+52			
					08	DD	000B3		PUSHL	#8			
					00AC	C6	DD	000B5	PUSHL	RECBUF+36			
					00BC	C6	9F	000B9	PUSHAB	RECBUF+4			
					0C	DD	000BD		PUSHL	#12			
					00DC	C6	9F	000BF	PUSHAB	RECBUF+84			
					F0	A6	9F	000C3	PUSHAB	DISDSC			
		7E		66	22	C1	000C6		ADDL3	#34, RABPTR, -(SP)			
					F8	A6	9F	0C0CA	PUSHAB	FAODSC			
				69	0D	FB	000CD		CALLS	#13, SYSSFAO			
					66	DD	000D0		PUSHL	RABPTR			
				68	01	FB	000D2		CALLS	#1, SYSSPUT			
				50	01	DD	000D5	38:	MOVL	#1, R0		3442	
					04	000D8			RET				

: Routine Size: 217 bytes, Routine Base: \$CODE\$ + 1531

```

3379 3443 1 %sbttl 'classify_priv - classifies contents of priv vector'
3380 3444 1 routine classify_priv (privadr, uic) =
3381 3445 2 begin
3382 3446 2
3383 3447 2 +-
3384 3448 2
3385 3449 2 FUNCTIONAL DESCRIPTION:
3386 3450 2
3387 3451 2     Classifies privilege bits and reports the highest class available
3388 3452 2     to the owner of the supplied vector.
3389 3453 2
3390 3454 2 INPUTS:
3391 3455 2
3392 3456 2     PRIVADR - Address of the privilege vector
3393 3457 2
3394 3458 2 IMPLICIT INPUTS:
3395 3459 2
3396 3460 2     none
3397 3461 2
3398 3462 2 OUTPUTS:
3399 3463 2
3400 3464 2     none
3401 3465 2
3402 3466 2 IMPLICIT OUTPUTS:
3403 3467 2
3404 3468 2     none
3405 3469 2
3406 3470 2 ROUTINE VALUE:
3407 3471 2
3408 3472 2     none
3409 3473 2
3410 3474 2 SIDE EFFECTS:
3411 3475 2
3412 3476 2     none
3413 3477 2 --
3414 3478 2
3415 3479 2 map
3416 3480 2     privadr : ref block[8,byte];
3417 3481 2
3418 3482 2 bind
3419 3483 2     lstprva = cstring ('All'),
3420 3484 2     lstprvb = cstring ('Files'),
3421 3485 2     lstprvc = cstring ('System'),
3422 3486 2     lstprvd = cstring ('Devour'),
3423 3487 2     lstprve = cstring ('Group'),
3424 3488 2     lstprvf = cstring ('Normal'),
3425 3489 2     lstprvg = cstring ('None');
3426 3490 2
3427 3491 2 if .privadr[priv$u_cmkrnl]
3428 3492 2 or .privadr[priv$u_cmexec]
3429 3493 2 or .privadr[priv$u_sysnam]
3430 3494 2 or .privadr[priv$u_detach]
3431 3495 2 or .privadr[priv$u_log_io]
3432 3496 2 or .privadr[priv$u_setprv]
3433 3497 2 or .privadr[priv$u_phy_io]
3434 3498 2 or .privadr[priv$u_pfnmap]
3435 3499 2 or .privadr[priv$u_sysprv]

```

classify\_priv - classifies contents of priv vec

L 13  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

```

3436 3500 2 or .privadr[priv$readall]
3437 3501 2 or .privadr[priv$bypass]
3438 3502 2 or (.uic<16, 16> lequ .EXESGL_SYSUIC)
3439 3503 2 then return lstprva; ! Universal Privilege
3440 3504 2
3441 3505 2 if .privadr[priv$diagnose]
3442 3506 2 or .privadr[priv$volpro]
3443 3507 2 or .privadr[priv$upgrade]
3444 3508 2 or .privadr[priv$downgrade]
3445 3509 2 or .privadr[priv$security]
3446 3510 2 or .privadr[priv$sysgbl]
3447 3511 2 then return lstprvb; ! Potentially Comprimes File Security
3448 3512 2
3449 3513 2 if .privadr[priv$pswapm]
3450 3514 2 or .privadr[priv$setpri]
3451 3515 2 or .privadr[priv$world]
3452 3516 2 or .privadr[priv$oper]
3453 3517 2 then return lstprvc; ! Can Interfere with System Operation
3454 3518 2
3455 3519 2 if .privadr[priv$grpnam]
3456 3520 2 or .privadr[priv$allspool]
3457 3521 2 or .privadr[priv$noacct]
3458 3522 2 or .privadr[priv$prnceb]
3459 3523 2 or .privadr[priv$prmbx]
3460 3524 2 or .privadr[priv$exquota]
3461 3525 2 or .privadr[priv$bugchk]
3462 3526 2 or .privadr[priv$prmgbl]
3463 3527 2 or .privadr[priv$shmem]
3464 3528 2 then return lstprvd; ! Can Devour System Resources
3465 3529 2
3466 3530 2 if .privadr[priv$group]
3467 3531 2 or .privadr[priv$grppriv]
3468 3532 2 then return lstprve; ! Can Interfere with Group Members
3469 3533 2
3470 3534 2 if .privadr[priv$tmpmbx]
3471 3535 2 or .privadr[priv$netmbx]
3472 3536 2 or .privadr[priv$mount]
3473 3537 2 then return lstprvf; ! Normal Privileges
3474 3538 2
3475 3539 2 lstprvg ! Not Privileged
3476 3540 1 end;

```

				.PSECT	\$SPLITS,	NOVRT,	NOEXE,	2	
			03	0031B	P.ACU:	.BYTE	3		
		6C	6C	41	0031C	.ASCII	\All\		
			05	0031F	P.ACV:	.BYTE	5		
	73	65	6C	69	46	00320	.ASCII	\files\	
			06	00325	P.ACW:	.BYTE	6		
	6D	65	74	73	53	00326	.ASCII	\System\	
			06	0032C	P.ACX:	.BYTE	6		
	72	75	6F	76	65	44	0032D	.ASCII	\Devour\
			05	00333	P.ACY:	.BYTE	5		
	70	75	6F	72	47	00334	.ASCII	\Group\	
			06	00339	P.ACZ:	.BYTE	6		

.....

```

6C 61 6D 72 6F 4E 0033A
      65 6E 6F 4E 00340
      65 6E 6F 4E 00341
P.ADA: .ASCII \Normal\
       .BYTE 4
       .ASCII \None\

LSTPRVA= P.ACU
LSTPRVB= P.ACV
LSTPRVC= P.ACW
LSTPRVD= P.ACX
LSTPRVE= P.ACY
LSTPRVF= P.ACZ
LSTPRVG= P.ADA

```

				.PSECT	SCODES, NOWRT, 2			
				0004	00000	CLASSIFY_PRIV:		
			52	00000000'	00	9E 00002	Save R2	3444
			50	04	AC	D0 00009	LSTPRVA, R2	3491
			35		60	E8 0000D	PRVADR, R0	3492
31			60		01	E0 00010	(R0), 1\$	3493
2D			60		02	E0 00014	#1, (R0), 1\$	3494
29			60		05	E0 00018	#2, (R0), 1\$	3495
					60	95 0001C	#5, (R0), 1\$	3496
					25	19 0001E	(R0)	3497
21			60		0E	E0 00020	1\$	3498
1D			60		16	E0 00024	BBS #14, (R0), 1\$	3499
19			60		1A	E0 00028	BBS #22, (R0), 1\$	3500
15			60		1C	E0 0002C	BBS #26, (R0), 1\$	3501
10	04		A0		03	E0 00030	BBS #28, (R0), 1\$	3502
0C			60		1D	E0 00035	BBS #3, 4(R0), 1\$	3503
00000000G	00	0A	AC		00	ED 00039	BBS #29, (R0), 1\$	3504
					05	1A 00043	#0, #16, UIC+2, EXESGL_SYSUIC	3505
			51		62	9E 00045	2\$	3506
					6D	11 00048	MOVAB LSTPRVA, R1	3507
16			60		06	E0 0004A	10\$	3508
12			60		15	E0 0004E	BBS #6, (R0), 3\$	3509
			0E	04	A0	E8 00052	BBS #21, (R0), 3\$	3510
09	04		A0		01	E0 00056	BLBS 4(R0), 3\$	3511
04	04		A0		06	E0 0005B	BBS #1, 4(R0), 3\$	3512
06			60		19	E1 00060	BBS #6, 4(R0), 3\$	3513
			51		54	A2 9E 00064	BBC #25, (R0), 4\$	3514
					4D	11 00068	MOVAB LSTPRVB, R1	3515
0C			60		0C	E0 0006A	BRB 10\$	3516
08			60		0D	E0 0006E	BBS #12, (R0), 5\$	3517
			04		02	A0 E8 00072	BBS #13, (R0), 5\$	3518
06			60		12	E1 00076	BLBS 2(R0), 5\$	3519
			51		0A	A2 9E 0007A	BBC #18, (R0), 6\$	3520
					37	11 0007E	MOVAB LSTPRVC, R1	3521
20			60		03	E0 00080	BRB 10\$	3522
1C			60		04	E0 00084	BBS #3, (R0), 7\$	3523
18			60		09	E0 00088	BBS #4, (R0), 7\$	3524
14			60		0A	E0 0008C	BBS #9, (R0), 7\$	3525
10			60		0B	E0 00090	BBS #10, (R0), 7\$	3526
0C			60		13	E0 00094	BBS #11, (R0), 7\$	3527
08			60		17	E0 00098	BBS #19, (R0), 7\$	3528
			04		03	A0 E8 0009C	BBS #23, (R0), 7\$	3529
							BLBS 3(R0), 7\$	3530

UAFMAIN  
V04-000

classify\_priv - classifies contents of priv vec

N 13  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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06	60		1B	E1	000A0		BBC	#27, (R0), 8\$	...	3527
	51	11	A2	9E	000A4	7\$:	MOVAB	LSTPRVD, R1	...	3528
			0D	11	000A8		BRB	10\$	...	
08	05	01	A0	E8	000AA	8\$:	BLBS	1(R0), 9\$	...	3530
	A0		02	E1	000AE		BBC	#2, 4(R0), 11\$	...	3531
	51	18	A2	9E	000B3	9\$:	MOVAB	LSTPRVE, R1	...	3532
	50		51	D0	000B7	10\$:	MOVL	R1, R0	...	
				04	000BA		RET		...	
			60	B5	000BB	11\$:	TSTW	(R0)	...	3534
			08	19	000BD		BLSS	12\$	...	
04	60		14	E0	000BF		BBS	#20, (R0), 12\$	...	3535
05	60		11	E1	000C3		BBC	#17, (R0), 13\$	...	3536
	50	1E	A2	9E	000C7	12\$:	MOVAB	LSTPRVF, R0	...	3537
				04	000CB		RET		...	
	50	25	A2	9E	000CC	13\$:	MOVAB	LSTPRVG, R0	...	3445
			04	000D0			RET		...	3540

; Routine Size: 209 bytes, Routine Base: \$CODE\$ + 160A

display\_full - writes the full user display

```

: 3478 3541 1 %sbttl 'display_full - writes the full user display'
: 3479 3542 1 routine display_full =
: 3480 3543 2 begin
: 3481 3544 2
: 3482 3545 2 ++
: 3483 3546 2
: 3484 3547 2 : FUNCTIONAL DESCRIPTION:
: 3485 3548 2
: 3486 3549 2 : Display the fields of a UAF record.
: 3487 3550 2
: 3488 3551 2 : INPUTS:
: 3489 3552 2
: 3490 3553 2 : RABPTR - RMS data structure for the file
: 3491 3554 2
: 3492 3555 2 : IMPLICIT INPUTS:
: 3493 3556 2
: 3494 3557 2 : none
: 3495 3558 2
: 3496 3559 2 : OUTPUTS:
: 3497 3560 2
: 3498 3561 2 : none
: 3499 3562 2
: 3500 3563 2 : IMPLICIT OUTPUTS:
: 3501 3564 2
: 3502 3565 2 : none
: 3503 3566 2
: 3504 3567 2 : ROUTINE VALUE:
: 3505 3568 2
: 3506 3569 2 : none
: 3507 3570 2
: 3508 3571 2 : SIDE EFFECTS:
: 3509 3572 2
: 3510 3573 2 : none
: 3511 3574 2 --
: 3512 3575 2
: 3513 3576 2 :
: 3514 3577 2 : Display strings.
: 3515 3578 2
: 3516 3579 2
: 3517 3580 2 local
: 3518 3581 2 status : long ;
: 3519 3582 2
: 3520 3583 2 bind
: 3521 3584 2 username = cstring ('Username: :32AF Owner: :AC'),
: 3522 3585 2 account = cstring ('Account: :32AF UIC: :%U (%I)'),
: 3523 3586 2 cli_table = cstring ('CLI: :32AC Tables: :AC'),
: 3524 3587 2 default = cstring ('Default: :AC:AC'),
: 3525 3588 2 lgicmd = cstring ('LGICMD: :AC'),
: 3526 3589 2 flags = cstring ('Login Flags: :AD'),
: 3527 3590 2 flag_pad = cstring (%char (cr), %char ((f), ' '),
: 3528 3591 2 primdays = cstring ('Primary days: :7(AC)'),
: 3529 3592 2 secdays = cstring ('Secondary days: :7(AC)'),
: 3530 3593 2 norestrict = cstring ('No access restrictions'),
: 3531 3594 2 P accesshdr1 = cstring (
: 3532 3595 2 'Primary 0000000001111111111222 Secondary 0000000001111111111222'),
: 3533 3596 2 P accesshdr2 = cstring (
: 3534 3597 2 'Day Hours 012345678901234567890123 Day Hours 012345678901234567890123'),

```

display\_full - writes the full user display

```

3535 3598 2 netaccess = cstring ('Network: AD AD'),
3536 3599 2 bataccess = cstring ('Batch: AD AD'),
3537 3600 2 locaccess = cstring ('Local: AD AD'),
3538 3601 2 diaaccess = cstring ('Dialup: AD AD'),
3539 3602 2 remaccess = cstring ('Remote: AD AD'),
3540 3603 2 expiration = cstring ('Expiration: AD Pwdminimum: !2UL Login fails: 5UL'),
3541 3604 2 pwddata = cstring ('Pwdlifetime: AD Pwdchange: !AD !AD'),
3542 3605 2 lastlogin = cstring ('Last Login: !AD (interactive), !AD (non-interactive)'),
3543 3606 2 quota1 = cstring ('Maxjobs: !SUL Fillm: !SUL Bytlm: !9UL'),
3544 3607 2 quota2 = cstring ('Maxacctjobs: !SUL Shrfillm: !SUL Pbytlm: !9UL'),
3545 3608 2 quota3 = cstring ('Maxdetach: !SUL B10lm: !SUL Jtquota: !9UL'),
3546 3609 2 quota4 = cstring ('Prclm: !SUL ASTlm: !SUL Wsdef: !9UL'),
3547 3610 2 quota5 = cstring ('Prio: !SUL ASTlm: !SUL Wsquo: !9UL'),
3548 3611 2 quota6 = cstring ('Queprio: !SUL TQElm: !SUL Wsxtent: !9UL'),
3549 3612 2 quota7 = cstring ('CPU: !3AD Enqlm: !SUL Pglquo: !9UL'),
3550 3613 2 privs = cstring ('Authorized Privileges: '),
3551 3614 2 defprivs = cstring ('Default Privileges: '),
3552 3615 2
3553 3616 2 nullstr = cstring (''),
3554 3617 2
3555 3618 2 mon = cstring (' Mon'),
3556 3619 2 tue = cstring (' Tue'),
3557 3620 2 wed = cstring (' Wed'),
3558 3621 2 thu = cstring (' Thu'),
3559 3622 2 fri = cstring (' Fri'),
3560 3623 2 sat = cstring (' Sat'),
3561 3624 2 sun = cstring (' Sun'),
3562 3625 2 noday = cstring (' '),
3563 3626 2
3564 3627 2 cputime = recbuf[uaf$_cputim]; ! CPU limit in hundredths of a second
3565 3628 2
3566 3629 2 own
3567 3630 2 flags_vector : vector [32] preset (
3568 3631 2 [$bitposition (uaf$_v_audit)] = cstring (' Audit'),
3569 3632 2 [$bitposition (uaf$_v_captive)] = cstring (' Captive'),
3570 3633 2 [$bitposition (uaf$_v_defcli)] = cstring (' Defcli'),
3571 3634 2 [$bitposition (uaf$_v_disctly)] = cstring (' Disctly'),
3572 3635 2 [$bitposition (uaf$_v_nomail)] = cstring (' Dismail'),
3573 3636 2 [$bitposition (uaf$_v_dismail)] = cstring (' Disnewmail'),
3574 3637 2 [$bitposition (uaf$_v_disreconnect)] = cstring (' Disreconnect'),
3575 3638 2 [$bitposition (uaf$_v_disreport)] = cstring (' Disreport'),
3576 3639 2 [$bitposition (uaf$_v_disacct)] = cstring (' Disuser'),
3577 3640 2 [$bitposition (uaf$_v_diswelcom)] = cstring (' Diswelcome'),
3578 3641 2 [$bitposition (uaf$_v_genpwd)] = cstring (' Genpwd'),
3579 3642 2 [$bitposition (uaf$_v_lockpwd)] = cstring (' Lockpwd'),
3580 3643 2 [$bitposition (uaf$_v_pwd_expired)] = cstring (' Pwd_expired'),
3581 3644 2 [$bitposition (uaf$_v_pwd2_expired)] = cstring (' Pwd2_expired'),
3582 3645 2 );
3583 3646 2
3584 3647 2 local
3585 3648 2 count, : count for string being built
3586 3649 2 lcount, : count of chars on current line
3587 3650 2 string : vector [160, byte], : buffer to build display string
3588 3651 2 flag_string : ref vector [,byte], : pointer to flag string
3589 3652 2 delta_time : vector [long, 2], : Scratch area for system delta time
3590 3653 2 PTR, : Pointer into UAF$_PWD_DATE quadword
3591 3654 2 time1 : vector [17, byte], : buffer for time string

```



```

: 3592      3655      2           time2           : vector [17, byte],      ! buffer for time string
: 3593      3656      2           time3           : vector [17, byte],      ! buffer for time string
: 3594      3657      2
: 3595      3658      2 builtin
: 3596      3659      2           emul;
: 3597      3660      2
: 3598      3661      2
: 3599      3662      2
: 3600      3663      2 if .str_wild and not fmg$match_name (namelen (uaf$$_username,recbuf[uaf$t_username]),
: 3601      3664      2                               recbuf[uaf$t_username],
: 3602      3665      2                               .match_token)
: 3603      3666      2 then return true;
: 3604      3667      2
: 3605      3668      2 found_match = true;
: 3606      3669      2
: 3607      3670      2 output_null;
: 3608      3671      2
: 3609      P 3672      2 faomac (username,
: 3610      P 3673      2     uaf$$_username, recbuf[uaf$t_username],
: 3611      3674      2     recbuf[uaf$t_owner]);
: 3612      3675      2
: 3613      P 3676      2 faomac (account,
: 3614      P 3677      2     uaf$$_account, recbuf[uaf$t_account],
: 3615      P 3678      2     .recbuf[uaf$t_uic],
: 3616      3679      2     .recbuf[uaf$t_uic]);
: 3617      3680      2
: 3618      P 3681      2 faomac (cli_table,
: 3619      P 3682      2     recbuf[uaf$t_defcli],
: 3620      3683      2     recbuf[uaf$t_clitables]);
: 3621      3684      2
: 3622      P 3685      2 faomac (default,
: 3623      P 3686      2     recbuf[uaf$t_defdev],
: 3624      3687      2     recbuf[uaf$t_defdir]);
: 3625      3688      2
: 3626      P 3689      2 faomac (lgicmd,
: 3627      3690      2     recbuf[uaf$t_lgicmd]);
: 3628      3691      2
: 3629      3692      2 count = 0;
: 3630      3693      2 lcount = .flags<0,8>;
: 3631      3694      2 incr j from 0 to 31
: 3632      3695      2 do
: 3633      3696      2     begin
: 3634      3697      2     if .bitvector [recbuf[uaf$t_flags], .j]
: 3635      3698      2     and (flag_string = .flags_vector [.j]) neq 0
: 3636      3699      2     then
: 3637      3700      4         begin
: 3638      3701      4         if .lcount + .flag_string[0] gtru 80
: 3639      3702      4         then
: 3640      3703      5             begin
: 3641      3704      5             ch$move (.flag_pad<0,8>, flag_pad+1, string[.count]);
: 3642      3705      5             count = .count + .flag_pad<0,8>;
: 3643      3706      5             lcount = .flag_pad<0,8> - 2;
: 3644      3707      4             end;
: 3645      3708      4         ch$move (.flag_string[0], flag_string[1], string[.count]);
: 3646      3709      4         count = .count + .flag_string[0];
: 3647      3710      4         lcount = .lcount + .flag_string[0];
: 3648      3711      3         end;

```

```

: 3649      3712      2      end;
: 3650      3713      2
: 3651      P 3714      2      faomac (flags,
: 3652      3715      2      .count, string);
: 3653      3716      2
: 3654      P 3717      2      faomac (primdays,
: 3655      P 3718      2      if .recbuf[uaf$w_monday]      then noday      else mon,
: 3656      P 3719      2      if .recbuf[uaf$w_tuesday]      then noday      else tue,
: 3657      P 3720      2      if .recbuf[uaf$w_wednesday]      then noday      else wed,
: 3658      P 3721      2      if .recbuf[uaf$w_thursday]      then noday      else thu,
: 3659      P 3722      2      if .recbuf[uaf$w_friday]      then noday      else fri,
: 3660      P 3723      2      if .recbuf[uaf$w_saturday]      then noday      else sat,
: 3661      3724      2      if .recbuf[uaf$w_sunday]      then noday      else sun);
: 3662      3725      2
: 3663      P 3726      2      faomac (secdays,
: 3664      P 3727      2      if .recbuf[uaf$w_monday]      then mon      else noday,
: 3665      P 3728      2      if .recbuf[uaf$w_tuesday]      then tue      else noday,
: 3666      P 3729      2      if .recbuf[uaf$w_wednesday]      then wed      else noday,
: 3667      P 3730      2      if .recbuf[uaf$w_thursday]      then thu      else noday,
: 3668      P 3731      2      if .recbuf[uaf$w_friday]      then fri      else noday,
: 3669      P 3732      2      if .recbuf[uaf$w_saturday]      then sat      else noday,
: 3670      3733      2      if .recbuf[uaf$w_sunday]      then sun      else noday);
: 3671      3734      2
: 3672      3735      2      if ch$fail (ch$find_not_ch (10*uaf$s_network_access_p, recbuf[uaf$b_network_access_p], 0))
: 3673      3736      2      then
: 3674      3737      2      begin
: 3675      3738      2      faomac (norestrict);
: 3676      3739      2      end
: 3677      3740      2      else
: 3678      3741      2      begin
: 3679      3742      2      faomac (accesshdr1);
: 3680      3743      2      faomac (accesshdr2);
: 3681      3744      2
: 3682      3745      2      display_hours (netaccess, recbuf[uaf$b_network_access_p]);
: 3683      3746      2      display_hours (batchaccess, recbuf[uaf$b_batch_access_p]);
: 3684      3747      2      display_hours (localaccess, recbuf[uaf$b_local_access_p]);
: 3685      3748      2      display_hours (diaaccess, recbuf[uaf$b_dialup_access_p]);
: 3686      3749      2      display_hours (remaccess, recbuf[uaf$b_remote_access_p]);
: 3687      3750      2      end;
: 3688      3751      2
: 3689      3752      2      convert time (recbuf[uaf$q_expiration], 17, time1);
: 3690      P 3753      2      faomac (expiration,
: 3691      P 3754      2      17, time1,
: 3692      P 3755      2      .recbuf[uaf$b_pwd_length],
: 3693      3756      2      .recbuf[uaf$w_logfails]);
: 3694      3757      2
: 3695      3758      2      convert time (recbuf[uaf$q_pwd_lifetime], 10, time1);
: 3696      3759      2      PTR = RECBUF[UAF$Q_PWD_DATE];      ! Because quadwords have 'no' width
: 3697      3760      2      if (.PTR eql -1) and T.(.PTR *upval) eql -1) then
: 3698      3761      2      ch$move(17, uplit(%ascii'      (pre-expired)'), TIME2)
: 3699      3762      2      else
: 3700      3763      2      CONVERT TIME(.PTR, 17, TIME2);
: 3701      3764      2      convert time (recbuf[uaf$q_pwd2_date], 17, time3);
: 3702      P 3765      2      faomac (pwddata,
: 3703      P 3766      2      10, time1,
: 3704      P 3767      2      17, time2,
: 3705      P 3768      2      (if (. (recbuf[uaf$q_pwd2_date]+0) or . (recbuf[uaf$q_pwd2_date]+4)) eql 0

```

```

3706 F 3769 2 then 0
3707 3770 2 else 17), time3);
3708 3771 2
3709 3772 2 convert_time (recbuf[uaf$q_lastlogin_i], 17, time1);
3710 3773 2 convert_time (recbuf[uaf$q_lastlogin_n], 17, time2);
3711 P 3774 2 faomac (lastlogin,
3712 P 3775 2 17, time1,
3713 3776 2 17, time2);
3714 3777 2
3715 3778 2 emul (%ref (-200000), %ref (.cputime<1,31>),
3716 3779 2 %ref (if .cputime<0,1> then -100000 else 0), delta_time);
3717 3780 2 convert_time (delta_time, 13, time1);
3718 3781 2
3719 P 3782 2 faomac (quota1,
3720 P 3783 2 .recbuf[uaf$w_maxjobs],
3721 P 3784 2 .recbuf[uaf$w_fillm],
3722 3785 2 .recbuf[uaf$l_byt1m]);
3723 3786 2
3724 P 3787 2 faomac (quota2,
3725 P 3788 2 .recbuf[uaf$w_maxacctjobs],
3726 P 3789 2 .recbuf[uaf$w_shrfillm],
3727 3790 2 .recbuf[uaf$l_pbyt1m]);
3728 3791 2
3729 P 3792 2 faomac (quota3,
3730 P 3793 2 .recbuf[uaf$w_maxdetach],
3731 P 3794 2 .recbuf[uaf$w_bi1m],
3732 3795 2 .recbuf[uaf$l_jtquota]);
3733 3796 2
3734 P 3797 2 faomac (quota4,
3735 P 3798 2 .recbuf[uaf$w_prcnt],
3736 P 3799 2 .recbuf[uaf$w_di1m],
3737 3800 2 .recbuf[uaf$l_dfwscnt]);
3738 3801 2
3739 P 3802 2 faomac (quota5,
3740 P 3803 2 .recbuf[uaf$b_pri],
3741 P 3804 2 .recbuf[uaf$w_ast1m],
3742 3805 2 .recbuf[uaf$l_wsquota]);
3743 3806 2
3744 P 3807 2 faomac (quota6,
3745 P 3808 2 .recbuf[uaf$b_quepri],
3746 P 3809 2 .recbuf[uaf$w_tqcnt],
3747 3810 2 .recbuf[uaf$l_wsextent]);
3748 3811 2
3749 P 3812 2 faomac (quota7,
3750 P 3813 2 13, time1,
3751 P 3814 2 .recbuf[uaf$w_eng1m],
3752 3815 2 .recbuf[uaf$l_pg1quota]);
3753 3816 2
3754 3817 2 faomac (privs);
3755 3818 2 print_priv (recbuf[uaf$q_priv]);
3756 3819 2
3757 3820 2 faomac (defprivs);
3758 3821 2 print_priv (recbuf[uaf$q_def_priv]);
3759 3822 2
3760 3823 2
3761 3824 2 ' Build a holder from the UAF record and display the rights
3762 3825 2 ' granted to it.

```

display\_full - writes the full user display

```

: 3763      3826 2  !
: 3764      3827 2  if .rdb_exists
: 3765      3828 2  then
: 3766      3829 2  begin
: 3767      3830 2  uaf$build_holder ();
: 3768      3831 2  rdb_header_flag = true ;
: 3769      3832 2  status = uaf$write_rights ( holder ) ;
: 3770      3833 2  end ;
: 3771      3834 2
: 3772      3835 2 return .status ;
: 3773      3836 1 end;

```

														.PSECT		SPLITS, NOWRT, NOEXE, 2				
46	41	32	33	21	20	3A	65	6D	61	6E	72	65	73	1B	00345	P.ADB:	.BYTE	27		
			43	41	21	20	20	3A	72	65	6E	77	4F	55	00346		.ASCII	\Username: !32AF Owner: !AC\		
46	41	32	33	21	20	20	3A	74	6E	75	6F	63	63	21	00361	P.ADC:	.BYTE	33		
21	28	20	55	25	21	20	20	20	20	3A	43	49	55	41	00362		.ASCII	\Account: !32AF UIC: '8U (!8I)\		
												29	49	25	00371					
														1B	00380					
43	41	32	33	21	20	20	20	20	20	20	3A	49	4C	43	00383	P.ADD:	.BYTE	27		
			43	41	21	20	3A	73	65	6C	62	61	54	43	00384		.ASCII	\CLI: !32AC Tables: !AC\		
														20	00393					
41	21	43	41	21	20	20	3A	74	6C	75	61	66	65	10	0039F	P.ADE:	.BYTE	16		
														44	003A0		.ASCII	\Default: !AC!AC\		
														43	003AF					
			43	41	21	20	20	3A	44	4D	43	49	47	0D	003B0	P.ADF:	.BYTE	13		
														4C	003B1		.ASCII	\LGICMD: !AC\		
41	21	20	3A	73	67	61	6C	46	20	6E	69	67	6F	10	003BE	P.ADG:	.BYTE	16		
														4C	003BF		.ASCII	\Login Flags: !AD\		
														44	003CE					
20	20	20	20	20	20	20	20	20	20	20	20	20	0A	0F	003CF	P.ADH:	.BYTE	15		
														0D	003D0		.ASCII	<13><10>\		
20	20	3A	73	79	61	64	20	79	72	61	6D	69	72	15	003DF	P.ADI:	.BYTE	21		
														50	003E0		.ASCII	\Primary days: !7(AC)\		
														21	003E1					
3A	73	79	61	64	20	79	72	61	64	6E	6F	63	65	15	003F5	P.ADJ:	.BYTE	21		
														53	003F6		.ASCII	\Secondary days: !7(AC)\		
														21	00405					
77	74	73	65	72	20	73	73	65	63	63	61	20	6F	16	00408	P.ADK:	.BYTE	22		
														4E	0040C		.ASCII	\No access restrictions\		
														69	0041B					
30	30	30	30	30	20	20	20	79	72	61	6D	69	72	46	00422	P.ADL:	.BYTE	70		
31	31	31	31	31	31	31	31	31	31	30	30	30	30	50	00423		.ASCII	\Primary 0000000001111111112222	Seco\	
														30	00432					
														32	00441					
30	30	30	30	30	30	30	30	30	20	79	72	61	64	6E	0044B		.ASCII	\ndary 0000000001111111112222\		
32	32	32	32	31	31	31	31	31	31	31	31	31	31	30	0045A					
														46	00469	P.ADM:	.BYTE	70		
34	33	32	31	30	20	73	72	75	6F	48	20	79	61	44	0046A		.ASCII	\Day Hours 012345678901234567890123	Day \	
39	38	37	36	35	34	33	32	31	30	39	38	37	36	35	00479					
														30	00488					
38	37	36	35	34	33	32	31	30	20	73	72	75	6F	48	00492		.ASCII	\Hours 012345678901234567890123\		
33	32	31	30	39	38	37	36	35	34	33	32	31	30	39	004A1					



```

20 20 20 20 20 3A 6D 6C 45 51 54 20 20 4C 55 006EB
      78 65 53 57 20 20 4C 55 21 006FA
      4C 55 39 21 20 3A 74 6E 65 74 00704
71 6E 45 20 20 44 41 33 31 21 20 3A 55 50 43 0070E P.AEB: .ASCII \tent: !9UL\
50 20 20 4C 55 35 21 20 20 20 20 20 3A 6D 6C 43 0070F .BYTE 43
      21 20 20 3A 6F 75 71 6C 66 67 0071E .ASCII \CPU: !13AD Enqlm: !SUL Pjflquo: !\
      4C 55 39 0072D
      17 00737
76 69 72 50 20 64 65 7A 69 72 6F 68 74 75 41 0073A P.AEC: .ASCII \9UL\
      20 3A 73 65 67 65 6C 69 0073B .BYTE 23
      14 0074A .ASCII \Authorized Privileges: \
65 6C 69 76 69 72 50 20 74 6C 75 61 66 65 44 00752 P.AED: .BYTE 20
      20 3A 73 65 67 00753 .ASCII \Default Privileges: \
      00 00762
      00 00767 P.AEE: .BYTE 0
      04 00768 .BLKB 0
      6E 6F 4D 20 0076B P.AEF: .BYTE 4
      04 0076D P.AEG: .ASCII \ Mon\
      65 75 54 20 0076E .BYTE 4
      04 00772 P.AEH: .ASCII \ Tue\
      64 65 57 20 00773 .BYTE 4
      04 00777 P.AEI: .ASCII \ Wed\
      75 68 54 20 00778 .BYTE 4
      04 0077C P.AEJ: .ASCII \ Thu\
      69 72 46 20 0077D .BYTE 4
      04 00781 P.AEK: .ASCII \ Fri\
      74 61 53 20 00782 .BYTE 4
      04 00786 P.AEL: .ASCII \ Sat\
      6E 75 53 20 00787 .BYTE 4
      04 00788 P.AEM: .ASCII \ Sun\
      20 20 20 20 0078C .ASCII \ \
      06 00790 P.AEN: .BYTE 6
      74 69 64 75 41 20 00791 .ASCII \ Audit\
      08 00797 P.AEO: .BYTE 8
      65 76 69 74 70 61 43 20 00798 .ASCII \ Captive\
      07 007A0 P.AEP: .BYTE 7
      69 6C 63 66 65 44 20 007A1 .ASCII \ Defcli\
      08 007A8 P.AEQ: .BYTE 8
      79 6C 74 63 73 69 44 20 007A9 .ASCII \ Disctly\
      08 007B1 P.AER: .BYTE 8
      6C 69 61 6D 73 69 44 20 007B2 .ASCII \ Dismail\
      08 007BA P.AES: .BYTE 11
      6C 69 61 6D 77 65 6E 73 69 44 20 007BB .ASCII \ Disnewmail\
      0D 007C6 P.AET: .BYTE 13
      74 63 65 6E 6E 6F 63 65 72 73 69 44 20 007C7 .ASCII \ Disreconnect\
      0A 007D4 P.AEU: .BYTE 10
      74 72 6F 70 65 72 73 69 44 20 007D5 .ASCII \ Disreport\
      08 007DF P.AEV: .BYTE 8
      72 65 73 75 73 69 44 20 007E0 .ASCII \ Disuser\
      08 007E8 P.AEW: .BYTE 11
      65 6D 6F 63 6C 65 77 73 69 44 20 007E9 .ASCII \ Diswelcome\
      07 007F4 P.AEX: .BYTE 7
      64 77 70 6E 65 47 20 007F5 .ASCII \ Genpwd\
      08 007FC P.AEY: .BYTE 8
      64 77 70 68 63 6F 4C 20 007FD .ASCII \ Lockpwd\
      0C 00805 P.AEZ: .BYTE 12

```

display\_full - writes the full user display

14  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

	64	65	72	69	70	78	65	5F	64	77	50	20	00806		
												00	00812		
65	72	64	65	72	69	70	78	65	5F	32	64	77	50	20	00813
		63	70	78	65	20	65	72	70	28	20	20	20	20	00820
										00	00	00	29	64	0082F

```

.ASCII \ Pwd_expired\
P.AFA: .BYTE 13
.ASCII \ Pwd2_expired\
P.AfB: .ASCII \ (pre-expired)\<0><0><0>

```

.PSECT \$OWNS,NOEXE,2

00000000'	00000000'	00000000'	00000000'	00000000'	00000000'	0108C	FLAGS_VECTOR:
00000000'	00000000'	00000000'	00000000'	00000000'	00000000'	010A4	.ADDRESS P.AEQ, P.AEP, P.AEY, P.AEO, P.AEV, -
						010BC	P.AEW, P.AES, P.AER, P.AEX, P.AEZ, P.AFA, -
						010C4	P.AEN, P.AEU, P.AET

```

.BLK 72

```

```

USERNAME= P.ADB
ACCOUNT= P.ADC
CLI_TABLE= P.ADD
DEFAULT= P.ADE
LGICMD= P.ADF
FLAGS= P.ADG
FLAG_PAD= P.ADH
PRIMDAYS= P.ADI
SECDAYS= P.ADJ
NORESTRIC= P.ADK
ACCESSHDR1= P.ADL
ACCESSHDR2= P.ADM
NETACCESS= P.ADN
BATAACCESS= P.ADO
LOCACCESS= P.ADP
DIAACCESS= P.ADQ
REACCESS= P.ADR
EXPIRATION= P.ADS
PWDDATA= P.ADT
LASTLOGIN= P.ADU
QUOTA1= P.ADV
QUOTA2= P.ADW
QUOTA3= P.ADX
QUOTA4= P.ADY
QUOTA5= P.ADZ
QUOTA6= P.AEA
QUOTA7= P.AEB
PRIVS= P.AEC
DEFPRIVS= P.AED
NULLSTR= P.AEE
MON= P.AEF
TUE= P.AEG
WED= P.AEH
THU= P.AEI
FRI= P.AEJ
SAT= P.AEK
SUN= P.AEL
NODAY= P.AEM
CPUTIME= RECBUF+556

```

.PSECT \$CODES,NOVRT,2





display\_full! - writes the full user display

L 14  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[JAF.BUGSRC]UAFMAIN.B32;1

7E	00000000'	00	00000000'	00	9F	00162	PUSHAB	DISDSC		
					22	C1	00168	ADDL3	#34, RABPTR, -(SP)	
	00000000G	00	00000000'	00	9F	00170	PUSHAB	FAODSC		
					05	FB	00176	CALLS	#5, SYSSFAO	
	00000000G	00	00000000'	00	DD	0017D	PUSHL	RABPTR		
	00000000'	00	00000000'	00	01	FB	00183	CALLS	#1, SYSSPUT	
	00000000'	00	00000000'	00	9B	0018A	MOVZBW	LGICMD, FAODSC		3690
	00000000'	00	00000000'	00	9E	00195	MOVAB	LGICMD+1, FAODSC+4		
					00	9F	001A0	PUSHAB	RECBUF+212	
					00	9F	001A6	PUSHAB	DISDSC	
7E	00000000'	00	00000000'	00	22	C1	001AC	ADDL3	#34, RABPTR, -(SP)	
					00	9F	001B4	PUSHAB	FAODSC	
	00000000G	00	00000000'	00	04	FB	001BA	CALLS	#4, SYSSFAO	
					00	DD	001C1	PUSHL	RABPTR	
	00000000G	00	00000000'	00	01	FB	001C7	CALLS	#1, SYSSPUT	
					57	D4	001CE	CLRL	COUNT	3692
		5B	00000000'	00	9A	001D0	MOVZBL	FLAGS, R11		3693
		56			5B	D0	001D7	MOVL	R11, LCOUNT	
					59	D4	001DA	CLRL	J	3694
47	00000000'	00	00000000'	00	59	E1	001DC	P7C	J, RECBUF+468, 4\$	3697
		5A	00000000'	00	49	D0	001E4	MOVL	FLAGS_VECTOR[J], FLAG_STRING	3698
					3D	13	001EC	BEQL	4\$	
		58			6A	9A	001EE	MOVZBL	(FLAG_STRING), R8	3701
		58			56	C0	001F1	ADDL2	LCOUNT, R8	
	00000050	8F			58	D1	001F4	CML	R8, #80	
					18	1B	001FB	BLEQU	3\$	
		58	00000000'	00	9A	001FD	MOVZBL	FLAG_PAD, R8		3704
44	AE47	00000000'			58	28	00204	MOVCS	R8, FLAG_PAD+1, STRING[COUNT]	
					57	C0	0020E	ADDL2	R8, COUNT	3705
		56	FE		A8	9E	00211	MOVAB	-2(R8), LCOUNT	3706
		50			6A	9A	00215	MOVZBL	(FLAG_STRING), R0	3708
44	AE47	01			50	28	00218	MOVCS	R0, 1(FLAG_STRING), STRING[COUNT]	
					6A	9A	0021F	MOVZBL	(FLAG_STRING), R0	3709
					57	50	C0	00222	ADDL2	R0, COUNT
					50	6A	9A	00225	MOVZBL	(FLAG_STRING), R0
					56	50	C0	00228	ADDL2	R0, LCOUNT
AD					59	1F	F3	0022B	AOBLEQ	#31, J, 2\$
	00000000'	00			5B	B0	0022F	MOVW	R11, FAODSC	3694
	00000000'	00	00000000'	00	9E	00236	MOVAB	FLAGS+1, FAODSC+4		3715
			44		AE	9F	00241	PUSHAB	STRING	
					57	DD	00244	PUSHL	COUNT	
					00	9F	00246	PUSHAB	DISDSC	
7E	00000000'	00	00000000'	00	22	C1	0024C	ADDL3	#34, RABPTR, -(SP)	
					00	9F	00254	PUSHAB	FAODSC	
	00000000G	00	00000000'	00	05	FB	0025A	CALLS	#5, SYSSFAO	
					00	DD	00261	PUSHL	RABPTR	
	00000000G	00	00000000'	00	01	FB	00267	CALLS	#1, SYSSPUT	
	00000000'	00	00000000'	00	9B	0026E	MOVZBW	PRIMDAYS, FAODSC		3724
	00000000'	00	00000000'	00	9E	00279	MOVAB	PRIMDAYS+1, FAODSC+4		
09	00000000'	00	00000000'	00	06	E1	00284	BBC	#6, RECBUF+514, 5\$	
		50	00000000'	00	9E	0028C	MOVAB	NODAY, R0		
					07	11	00293	BRB	6\$	
		50	00000000'	00	9E	00295	MOVAB	SUN, R0		
					50	DD	0029C	PUSHL	R0	
09	00000000'	00	00000000'	00	05	E1	0029E	BBC	#5, RECBUF+514, 7\$	
		50	00000000'	00	9E	002A6	MOVAB	NODAY, R0		
					07	11	002AD	BRB	8\$	

display\_full - writes the full user display

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2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

```

50 00000000' 00 9E 002AF 7$: MOVAB SAT, R0
09 00000000' 00 50 DD 002B6 8$: PUSHL R0
50 00000000' 00 04 E1 002B8 BBC #4, RECBUF+514, 9$
50 00000000' 00 9E 002C0 MOVAB NODAY, R0
07 11 002C7 BRB 10$
50 00000000' 00 9E 002C9 9$: MOVAB FRI, R0
50 DD 002D0 10$: PUSHL R0
09 00000000' 00 03 E1 002D2 BBC #3, RECBUF+514, 11$
50 00000000' 00 9E 002DA MOVAB NODAY, R0
07 11 002E1 BRB 12$
50 00000000' 00 9E 002E3 11$: MOVAB THU, R0
50 DD 002EA 12$: PUSHL R0
09 00000000' 00 02 E1 002EC BBC #2, RECBUF+514, 13$
50 00000000' 00 9E 002F4 MOVAB NODAY, R0
07 11 002FB BRB 14$
50 00000000' 00 9E 002FD 13$: MOVAB WED, R0
50 DD 00304 14$: PUSHL R0
09 00000000' 00 01 E1 00306 BBC #1, RECBUF+514, 15$
50 00000000' 00 9E 0030E MOVAB NODAY, R0
07 11 00315 BRB 16$
50 00000000' 00 9E 00317 15$: MOVAB TUE, R0
50 DD 0031E 16$: PUSHL R0
09 00000000' 00 09 E9 00320 BLBC RECBUF+514, 17$
50 00000000' 00 9E 00327 MOVAB NODAY, R0
07 11 0032E BRB 18$
50 00000000' 00 9E 00330 17$: MOVAB MON, R0
50 DD 00337 18$: PUSHL R0
00000000' 00 9F 00339 PUSHAB DISDSC
7E 00000000' 00 22 C1 0033F ADDL3 #34, RABPTR, -(SP)
00000000G 00 00 9F 00347 PUSHAB FAODSC
00000000G 00 0A FB 0034D CALLS #10, SYSS$FAO
00000000G 00 01 FB 0035A CALLS #1, SYSS$PUT
00000000' 00 00 9B 00361 MOVZBW SECDAYS, FAODSC
00000000' 00 00 9E 0036C MOVAB SECDAYS+1, FAODSC+4
09 00000000' 00 06 E1 00377 BBC #6, RECBUF+514, 19$
50 00000000' 00 9E 0037F MOVAB SUN, R0
07 11 00386 BRB 20$
50 00000000' 00 9E 00388 19$: MOVAB NODAY, R0
50 DD 0038F 20$: PUSHL R0
09 00000000' 00 75 E1 00391 BBC #5, RECBUF+514, 21$
50 00000000' 00 60 9E 00399 MOVAB SAT, R0
07 11 003A0 BRB 22$
50 00000000' 00 9E 003A2 21$: MOVAB NODAY, R0
50 DD 003A9 22$: PUSHL R0
09 00000000' 00 04 E1 003AB BBC #4, RECBUF+514, 23$
50 00000000' 00 9E 003B3 MOVAB FRI, R0
07 11 003BA BRB 24$
50 00000000' 00 9E 003BC 23$: MOVAB NODAY, R0
50 DD 003C3 24$: PUSHL R0
09 00000000' 00 03 E1 003C5 BBC #3, RECBUF+514, 25$
50 00000000' 00 9E 003CD MOVAB THU, R0
07 11 003D4 BRB 26$
50 00000000' 00 9E 003D6 25$: MOVAB NODAY, R0
50 DD 003DD 26$: PUSHL R0
09 00000000' 00 02 E1 003DF BBC #2, RECBUF+514, 27$
50 00000000' 00 9E 003E7 MOVAB WED, R0

```

display\_full - writes the full user display

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VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

			07 11 003EE		BRB	28\$			
	50	00000000'	00 9E 003F0	27\$:	MOVAB	NODAY, R0			
			50 DD 003F7	28\$:	PUSHL	R0			
09	00000000'	00	01 E1 003F9		BBC	#1, RECBUF+514, 29\$			
	50	00J00000'	00 9E 00401		MOVAB	TUE, R0			
			07 11 00408		BRB	30\$			
	50	00000000'	00 9E 0040A	29\$:	MOVAB	NODAY, R0			
			50 DD 00411	30\$:	PUSHL	R0			
09	00000000'	00	E9 00412		BLBC	RECBUF+514, 31\$			
	50	00000000'	00 9E 0041A		MOVAB	MON, R0			
			07 11 00421		BRB	32\$			
	50	00000000'	00 9E 00423	31\$:	MOVAB	NODAY, R0			
			50 DD 0042A	32\$:	PUSHL	R0			
		00000000'	00 9F 0042C		PUSHAB	DISDSC			
7E	00000000'	00	22 C1 00432		ADDL3	#34, RABPTR, -(SP)			
		00000000'	00 9F 0043A		PUSHAB	FAODSC			
	00000000G	00	7A FB 00440		CALLS	#10, SYSSFAO			
		00000000'	00 DD 00447		PUSHL	RABPTR			
	00000000G	00	01 FB 0044D		CALLS	#1, SYSSPUT			
52	00000000'	00	22 C1 00454		ADDL3	#34, RABPTR, R2			3738
00000000'	00	1E	00 3B 0045C		SKPC	#0, #30, RECBUF+472			3735
			02 12 00464		BNEQ	33\$			
			51 D4 00466		CLRL	R1			
			51 D5 00468	33\$:	TSTL	R1			
			3B 12 0046A		BNEQ	34\$			
	00000000'	00 00000000'	00 9B 0046C		MOVZBW	NORESTRICT, FAODSC			3738
	00000000'	00 00000000'	00 9E 00477		MOVAB	NORESTRICT+1, FAODSC+4			
		00000000'	00 9F 00482		PUSHAB	DISDSC			
			52 DD 00488		PUSHL	R2			
	00000000G	00	00 9F 0048A		PUSHAB	FAODSC			
		00000000'	03 FB 00490		CALLS	#3, SYSSFAO			
		00000000'	00 DD 00497		PUSHL	RABPTR			
	00000000G	00	01 FB 0049D		CALLS	#1, SYSSPUT			
			00D5 31 004A4		BRW	35\$			3735
	00000000'	00 00000000'	00 9B 004A7	34\$:	MOVZBW	ACCESSHDR1, FAODSC			3742
	00000000'	00 00000000'	00 9E 004B2		MOVAB	ACCESSHDR1+1, FAODSC+4			
		00000000'	00 9F 004BD		PUSHAB	DISDSC			
			52 DD 004C3		PUSHL	R2			
		00000000'	00 9F 004C5		PUSHAB	FAODSC			
	00000000G	00	03 FB 004CB		CALLS	#3, SYSSFAO			
		00000000'	00 DD 004D2		PUSHL	RABPTR			
	00000000G	00	01 FB 004D8		CALLS	#1, SYSSPUT			
	00000000'	00 00000000'	00 9B 004DF		MOVZBW	ACCESSHDR2, FAODSC			3743
	00000000'	00 00000000'	00 9E 004EA		MOVAB	ACCESSHDR2+1, FAODSC+4			
		00000000'	00 9F 004F5		PUSHAB	DISDSC			
7E	00000000'	00	22 C1 004FB		ADDL3	#34, RABPTR, -(SP)			
		00000000'	00 9F 00503		PUSHAB	FAODSC			
	00000000G	00	03 FB 00509		CALLS	#3, SYSSFAO			
		00000000'	00 DD 00510		PUSHL	RABPTR			
	00000000G	00	01 FB 00516		CALLS	#1, SYSSPUT			
		00000000'	00 9F 0051D		PUSHAB	RECBUF+472			3745
		00000000'	00 9F 00523		PUSHAB	NETACCESS			
	00000000V	00	02 FB 00529		CALLS	#2, DISPLAY_HOURS			
		00000000'	00 9F 00530		PUSHAB	RECBUF+478			3746
		00000000'	00 9F 00536		PUSHAB	BATACCESS			
	00000000V	00	02 FB 0053C		CALLS	#2, DISPLAY_HOURS			
		00000000'	00 9F 00543		PUSHAB	RECBUF+484			3747

display\_full - writes the fu'l user display

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2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

00000000V	00	00000000'	00	9F	00549	PUSHAB	LOCACCESS		
			02	FB	0054F	CALLS	#2, DISPLAY_HOURS		
		00000000'	00	9F	00556	PUSHAB	RECBUF+490	3748	
		00000000'	00	9F	0055C	PUSHAB	DIAACCESS		
00000000V	00	00000000'	02	FB	00562	CALLS	#2, DISPLAY_HOURS		
		00000000'	00	9F	00569	PUSHAB	RECBUF+496	3749	
		00000000'	00	9F	0056F	PUSHAB	REMACCESS		
00000000V	00		02	FB	00575	CALLS	#2, DISPLAY_HOURS		
		28	AE	9F	0057C	PUSHAB	TIME1	3752	
			11	DD	0057F	PUSHL	#17		
		00000000'	00	9F	00581	PUSHAB	RECBUF+364		
00000000V	00		03	FB	00587	CALLS	#3, CONVERT_TIME		
00000000'	00	00000000'	00	9B	0058E	MOVZBW	EXPIRATION, -FAODSC	3756	
00000000'	00	00000000'	00	9E	00599	MOVAB	EXPIRATION+1, FAODSC+4		
	7E	00000000'	00	3C	005A4	MOVZWL	RECBUF+356, -(SP)		
	7E	00000000'	00	9A	005AP	MOVZBL	RECBUF+362, -(LP)		
		30	AE	9F	005B2	PUSHAB	TIME1		
			11	DD	005B5	PUSHL	#17		
		00000000'	00	9F	005B7	PUSHAB	DISDSC		
7E 00000000'	00		22	C1	005BD	ADDL3	#34, RABPTR, -(SP)		
		00000000'	00	9F	005C5	PUSHAB	FAODSC		
00000000G	00		07	FB	005CB	CALLS	#7, SYSSFAO		
		00000000'	00	DD	005D2	PUSHL	RABPTR		
00000000G	00		01	FB	005D8	CALLS	#1, SYSSPUT		
		28	AE	9F	005DF	PUSHAB	TIME1	3758	
			0A	DD	005E2	PUSHL	#10		
		00000000'	00	9F	005E4	PUSHAB	RECBUF+372		
00000000V	00		03	FB	005EA	CALLS	#3, CONVERT_TIME		
	50	00000000'	00	9E	005F1	MOVAB	RECBUF+380, -PTR	3759	
FFFFFFFF	8F		60	D1	005FB	CMPL	(PTR), #-1	3760	
			15	12	005FF	BNEQ	368		
FFFFFFFF	8F	04	A0	D1	00601	CMPL	4(PTR), #-1		
			0B	12	00609	BNEQ	368		
14 AE 00000000'	00		11	28	0060B	MOVCS	#17, P.AFB, TIME2	3761	
			0E	11	00614	BRB	378		
		14	AE	9F	00616	PUSHAB	TIME2	3763	
			11	DD	00619	PUSHL	#17		
			50	DD	0061B	PUSHL	PTR		
00JC0000V	00		03	FB	0061D	CALLS	#3, CONVERT_TIME		
			5E	DD	00624	PUSHL	SP	3764	
			11	DD	00626	PUSHL	#17		
		00000000'	00	9F	00628	PUSHAB	RECBUF+388		
00000000V	00		03	FB	0062E	CALLS	#3, CONVERT_TIME		
00000000'	00	00000000'	00	9B	00635	MOVZBW	PWDDATA, FAODSC	3770	
00000000'	00	00000000'	00	9E	00640	MOVAB	PWDDATA+1, FAODSC+4		
			5E	DC	0064B	PUSHL	SP		
50 00000000'	00	00000000'	00	C9	0064D	BISL3	RECBUF+392, RECBUF+388, R0		
			04	12	00659	BNEQ	388		
			7E	D4	0065B	CLRL	-(SP)		
			02	11	0065D	BRB	398		
			11	DD	0065F	PUSHL	#17		
		1C	AE	9F	00661	PUSHAB	TIME2	388:	
			11	DD	00664	PUSHL	#17	398:	
		38	AE	9F	00666	PUSHAB	TIME1		
			0A	DD	00669	PUSHL	#10		
		00000000'	00	9F	0066B	PUSHAB	DISDSC		
7E 00000000'	00		22	C1	00671	ADDL3	#34, RABPTR, -(SP)		

display\_full - writes the full user display

		00000000'	00	9F	00679	PUSHAB	FAODSC		
		00000000G	00	09	FB	0067F	CALLS	#9, SYSSFAO	
		00000000'	00	0C	DD	00686	PUSHL	RABPTR	
		00000000G	00	01	FB	0068C	CALLS	#1, SYSSPUT	
			28	AE	9F	00693	PUSHAB	TIME1	3772
				11	DD	00696	PUSHL	#17	
		00000000'	00	9F	00698	PUSHAB	RECBUF+396		
		00000000V	00	03	FB	0069E	CALLS	#3, CONVERT_TIME	
			14	AE	9F	006A5	PUSHAB	TIME2	3773
				11	DD	006AB	PUSHL	#17	
		00000000'	00	9F	006AA	PUSHAB	RECBUF+404		
		00000000V	00	03	FB	006B0	CALLS	#3, CONVERT TIME	
		00000000'	00	9B	006B7	MOVZBW	LASTLOGIN, FAODSC		3776
		00000000'	00	9E	006C2	MOVAB	LASTLOGIN+1, FAODSC+4		
			14	AE	9F	006CD	PUSHAB	TIME2	
				11	DD	006D0	PUSHL	#17	
			30	AE	9F	006D2	PUSHAB	TIME1	
				11	DD	006D5	PUSHL	#17	
		00000000'	00	9F	006D7	PUSHAB	DISDSC		
7E		00000000'	00	22	C1	006DD	ADDL3	#34, RABPTR, -(SP)	
		00000000G	00	9F	006E5	PUSHAB	FAODSC		
		00000000'	00	07	FB	006EB	CALLS	#7, SYSSFAO	
		00000000G	00	00	DD	006F2	PUSHL	RABPTR	
			00	01	FB	006FB	CALLS	#1, SYSSPUT	
51		00000000'	00	01	EF	006FF	EXTZV	#1, #31, CPU TIME, R1	3778
			1F	01	EF	006FF			3779
		00000000'	00	E9	00708	BLBC	CPU TIME, 408		
			09	8F	DD	0070F	MOVL	#-100000, R0	
			50	02	11	00716	BRB	418	
				50	D4	00718	CLRL	R0	
3C	AE	50	51	8F	7A	0071A	EMUL	#-200000, R1, R0, DELTA_TIME	3778
			28	AE	9F	00724	PUSHAB	TIME1	3780
				0D	DD	00727	PUSHL	#13	
			44	AE	9F	00729	PUSHAB	DELTA TIME	
		00000000V	00	03	FB	0072C	CALLS	#3, CONVERT TIME	
		00000000'	00	9B	00733	MOVZBW	QUOTA1, FAODSC		3785
		00000000'	00	9E	0073E	MOVAB	QUOTA1+1, FAODSC+4		
			00	DD	00749	PUSHL	RECBUF+560		
			7E	3C	0074F	MOVZWL	RECBUF+536, -(SP)		
			7E	3C	00756	MOVZWL	RECBUF+518, -(SP)		
			00	9F	0075D	PUSHAB	DISDSC		
7E		00000000'	00	22	C1	00763	ADDL3	#34, RABPTR, -(SP)	
		00000000G	00	9F	0076B	PUSHAB	FAODSC		
			00	06	FB	00771	CALLS	#6, SYSSFAO	
			00	DD	00778	PUSHL	RABPTR		
		00000000G	00	01	FB	0077E	CALLS	#1, SYSSPUT	
		00000000'	00	9B	00785	MOVZBW	QUOTA2, FAODSC		3790
		00000000'	00	9E	00790	MOVAB	QUOTA2+1, FAODSC+4		
			00	DD	00798	PUSHL	RECBUF+564		
			7E	3C	007A1	MOVZWL	RECBUF+538, -(SP)		
			7E	3C	007A8	MOVZWL	RECBUF+520, -(SP)		
			00	9F	007AF	PUSHAB	DISDSC		
7E		00000000'	00	22	C1	007B5	ADDL3	#34, RABPTR, -(SP)	
		00000000G	00	9F	007B3	PUSHAB	FAODSC		
			00	06	FB	007C3	CALLS	#6, SYSSFAO	
			00	DD	007CA	PUSHL	RABPTR		
		00000000G	00	01	FB	007D0	CALLS	#1, SYSSPUT	
		00000000'	00	9B	007D7	MOVZBW	QUOTA3, FAODSC		3795

display\_full - writes the full user display

00000000'	00	00000000'	00	9E	007E2	MOVAB	QUOTA3+1, FAODSC+4
		00000000'	00	DD	007ED	PUSHL	RECBUF+568
	7E	00000000'	00	3C	007F3	MOVZWL	RECBUF+526, -(SP)
	7E	00000000'	00	3C	007FA	MOVZWL	RECBUF+522, -(SP)
		00000000'	00	9F	00801	PUSHAB	DISDSC
7E	00000000'	00	22	C1	00807	ADDL3	#34, RABPTR, -(SP)
		00000000'	00	9F	0080F	PUSHAB	FAODSC
00000000G	00	00000000'	00	FB	00815	CALLS	#6, SYSSFAO
		00000000'	00	DD	0081C	PUSHL	RABPTR
00000000G	00	00000000'	01	FB	00822	CALLS	#1, SYSSPUT
00000000'	00	00000000'	00	9B	00829	MOVZBW	QUOTA4, FAODSC
00000000'	00	00000000'	00	9E	00834	MOVAB	QUOTA4+1, FAODSC+4
		00000000'	00	DD	0083F	PUSHL	RECBUF+544
	7E	00000000'	00	3C	00845	MOVZWL	RECBUF+528, -(SP)
	7E	00000000'	00	3C	0084C	MOVZWL	RECBUF+524, -(SP)
		00000000'	00	9F	00853	PUSHAB	DISDSC
7E	00000000'	00	22	C1	00859	ADDL3	#34, RABPTR, -(SP)
		00000000'	00	9F	00861	PUSHAB	FAODSC
00000000G	00	00000000'	06	FB	00867	CALLS	#6, SYSSFAO
		00000000'	00	DD	0086E	PUSHL	RABPTR
00000000G	00	00000000'	01	FB	00874	CALLS	#1, SYSSPUT
00000000'	00	00000000'	00	9B	0087B	MOVZBW	QUOTA5, FAODSC
00000000'	00	00000000'	00	9E	00886	MOVAB	QUOTA5+1, FAODSC+4
		00000000'	00	DD	00891	PUSHL	RECBUF+540
	7E	00000000'	00	3C	00897	MOVZWL	RECBUF+532, -(SP)
	7E	00000000'	00	9A	0089E	MOVZBL	RECBUF+516, -(SP)
		00000000'	00	9F	008A5	PUSHAB	DISDSC
7E	00000000'	00	22	C1	008AB	ADDL3	#34, RABPTR, -(SP)
		00000000'	00	9F	008B3	PUSHAB	FAODSC
00000000G	00	00000000'	06	FB	008B9	CALLS	#6, SYSSFAO
		00000000'	00	DD	008C0	PUSHL	RABPTR
00000000G	00	00000000'	01	FB	008C6	CALLS	#1, SYSSPUT
00000000'	00	00000000'	00	9B	008CD	MOVZBW	QUOTA6, FAODSC
00000000'	00	00000000'	00	9E	008D8	MOVAB	QUOTA6+1, FAODSC+4
		00000000'	00	DD	008E3	PUSHL	RECBUF+548
	7E	00000000'	00	3C	008E9	MOVZWL	RECBUF+530, -(SP)
	7E	00000000'	00	9A	008F0	MOVZBL	RECBUF+517, -(SP)
		00000000'	00	9F	008F7	PUSHAB	DISDSC
7E	00000000'	00	22	C1	008FD	ADDL3	#34, RABPTR, -(SP)
		00000000'	00	9F	00905	PUSHAB	FAODSC
00000000G	00	00000000'	06	FB	00908	CALLS	#6, SYSSFAO
		00000000'	00	DD	00912	PUSHL	RABPTR
00000000G	00	00000000'	01	FB	00918	CALLS	#1, SYSSPUT
00000000'	00	00000000'	00	9B	0091F	MOVZBW	QUOTA7, FAODSC
00000000'	00	00000000'	00	9E	0092A	MOVAB	QUOTA7+1, FAODSC+4
		00000000'	00	DD	00935	PUSHL	RECBUF+552
	7E	00000000'	00	3C	00938	MOVZWL	RECBUF+534, -(SP)
		30	AE	9F	00942	PUSHAB	TIME1
			00	DD	00945	PUSHL	#13
		00000000'	00	9F	00947	PUSHAB	DISDSC
7E	00000000'	00	22	C1	0094D	ADDL3	#34, RABPTR, -(SP)
		00000000'	00	9F	00955	PUSHAB	FAODSC
00000000G	00	00000000'	07	FB	0095B	CALLS	#7, SYSSFAO
		00000000'	00	DD	00962	PUSHL	RABPTR
00000000G	00	00000000'	01	FB	00968	CALLS	#1, SYSSPUT
00000000'	00	00000000'	00	9B	0096F	MOVZBW	PRIVS, FAODSC
00000000'	00	00000000'	00	9E	0097A	MOVAB	PRIVS+1, FAODSC+4

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display\_full - writes the full user display

7E	00000000'	00	00000000'	00	9F 00985	PUSHAB	DISDSC
				22	C1 00988	ADDL3	#34, RABPTR, -(SP)
			00000000'	00	9F 00993	PUSHAB	FAODSC
	00000000G	00		03	FB 00999	CALLS	#3, SYSSFAO
			00000000'	00	DD 009A0	PUSHL	RABPTR
	00000000G	00		01	FB 009A6	CALLS	#1, SYSSPUT
			00000000'	00	9F 009AD	PUSHAB	RECBUF+412
	00000000V	00		01	FB 009B3	CALLS	#1, PRINT PRIV
	00000000'	00	00000000'	00	9B 009BA	MOVZBW	DEFPRIVS, FAODSC
	00000000'	00	00000000'	00	9E 009C5	MOVAB	DEFPRIVS+1, FAODSC+4
			00000000'	00	9F 009D0	PUSHAB	DISDSC
7E	00000000'	00		22	C1 009D6	ADDL3	#34, RABPTR, -(SP)
			00000000'	00	9F 009DE	PUSHAB	FAODSC
	00000000G	00		03	FB 009E4	CALLS	#3, SYSSFAO
			00000000'	00	DD 009EB	PUSHL	RABPTR
	00000000G	00		01	FB 009F1	CALLS	#1, SYSSPUT
			00000000'	00	9F 009FB	PUSHAB	RECBUF+420
	00000000V	00		01	FB 009FE	CALLS	#1, PRINT PRIV
		1B	00000000'	00	E9 00A05	BLBC	RDB_EXISTS, 428
	00000000G	00		00	FB 00A0C	CALLS	#0, UAF\$BUILD HOLDER
	00000000G	00		01	90 00A13	MOVB	#1, RDB_HEADER_FLAG
			00000000G	00	9F 00A1A	PUSHAB	HOLDER
	00000000G	00		01	FB 00A20	CALLS	#1, UAF\$WRITE_RIGHTS
				04	00A27	RET	

428:

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; Routine Size. 2600 bytes. Routine Base: \$CODES + 16DB

```

display_hours - display hourly restrictions
: 3775      3837 1 %sbt:l 'display_hours - display hourly restrictions'
: 3776      3838 1 routine display_hours (format_string, hour_vector) : novalue =
: 3777      3839 ~ begin
: 3778      3840 ~
: 3779      3841 ~ **
: 3780      3842 ~
: 3781      3843 ~ FUNCTIONAL DESCRIPTION:
: 3782      3844 ~
: 3783      3845 ~     Displays the hourly access for primary and secondary days
: 3784      3846 ~     for one access type.
: 3785      3847 ~
: 3786      3848 ~ INPUTS:
: 3787      3849 ~
: 3788      3850 ~     format_string: address of FAO string for display
: 3789      3851 ~     hour_vector: address of UAF record hourly vector
: 3790      3852 ~     RABPTR - RMS data structure for the file
: 3791      3853 ~
: 3792      3854 ~ IMPLICIT INPUTS:
: 3793      3855 ~
: 3794      3856 ~     none
: 3795      3857 ~
: 3796      3858 ~ OUTPUTS:
: 3797      3859 ~
: 3798      3860 ~     none
: 3799      3861 ~
: 3800      3862 ~ IMPLICIT OUTPUTS:
: 3801      3863 ~
: 3802      3864 ~     none
: 3803      3865 ~
: 3804      3866 ~ ROUTINE VALUE:
: 3805      3867 ~
: 3806      3868 ~     none
: 3807      3869 ~
: 3808      3870 ~ SIDE EFFECTS:
: 3809      3871 ~
: 3810      3872 ~     none
: 3811      3873 ~ --
: 3812      3874 ~
: 3813      3875 ~
: 3814      3876 ~ Display strings.
: 3815      3877 ~
: 3816      3878 ~
: 3817      3879 ~ map
: 3818      3880 ~     hour_vector : ref bitvector;
: 3819      3881 ~
: 3820      3882 ~ literal
: 3821      3883 ~     yeschar      = 'Y';
: 3822      3884 ~     nochar       = 'N';
: 3823      3885 ~
: 3824      3886 ~ bind
: 3825      3887 ~     noaccess     = cstring ('----- No access -----');
: 3826      3888 ~     fullaccess   = cstring ('##### Full access #####');
: 3827      3889 ~
: 3828      3890 ~ local
: 3829      3891 ~     pri_access   : vector [24, byte];    ! Character string for primary access
: 3830      3892 ~     sec_access   : vector [24, byte];    ! Character string for secondary access
: 3831      3893 ~

```



display\_hours - display hourly restrictions

```

3832 3894 2 if . (hour_vector[0])<0,24> eql 0
3833 3895 2 then ch$move (24, fullaccess+1, pri_access)
3834 3896 2 else if . (hour_vector[0])<0,24> eql 'x'fffff'
3835 3897 2 then ch$move (24, noaccess+1, pri_access)
3836 3898 2 else incr j from 0 to 23
3837 3899 2 do
3838 3900 2     begin
3839 3901 2     if .hour_vector[.]
3840 3902 2     then pri_access[.] = nochar
3841 3903 2     else pri_access[.] = yeschar;
3842 3904 2     end;
3843 3905 2
3844 3906 2 if . (hour_vector[0])<24,24> eql 0
3845 3907 2 then ch$move (24, fullaccess+1, sec_access)
3846 3908 2 else if . (hour_vector[0])<24,24> eql 'x'fffff'
3847 3909 2 then ch$move (24, noaccess+1, sec_access)
3848 3910 2 else incr j from 0 to 23
3849 3911 2 do
3850 3912 2     begin
3851 3913 2     if .hour_vector[.+24]
3852 3914 2     then sec_access[.] = nochar
3853 3915 2     else sec_access[.] = yeschar;
3854 3916 2     end;
3855 3917 2
3856 P 3918 2 faomac (.format_string,
3857 P 3919 2         24, pri_access,
3858 P 3920 2         24, sec_access
3859 3921 2 );
3860 3922 1 end;

```

														.PSECT SPLITS, NOWRT, NOEXE, 2					
73	65	63	63	61	20	6F	4E	20	20	2D	2D	2D	2D	18	00834	P.AFC:	.BYTE	24	
						2D	2D	2D	2D	2D	2D	2D	2D	73	00835		.ASCII	\----- No access -----\	
														18	00840	P.AFD:	.BYTE	24	
65	63	63	61	20	6C	6C	75	46	20	23	23	23	23	23	0084E		.ASCII	\##### Full access #####\	
						23	23	23	23	23	20	73	73	0085D					

NOACCESS= P.AFC  
FULLACCESS= P.AFD

01FC 0000 DISPLAY\_HOURS:

										.PSECT \$CODES, NOWRT, 2			
						58	00000000'	00	9E	00002	.WORD	Save R2, R3, R4, R5, R6, R7, R8	3838
						57	00000000'	00	9E	00009	MOVAB	FULLACCESS+1, R8	
						5E		30	C2	00010	MOVAB	FAODSC, R7	
						56	08	AC	D0	00013	SUBL2	#48, SP	
00			66			18		00	ED	0J017	MOVL	HOUR_VECTOR, R6	3894
								07	12	0J01C	CMPZV	#0, #24, (R6), #0	
								07	12	0J01C	BNEQ	18	
		18	AE			68		18	28	0001E	MOVCS	#24, FULLACCESS+1, PRI_ACCESS	3895
								29	11	00023	BRB	68	

UAFMAIN  
V04-000

display\_hours - display hourly restrictions

M 15

8-Jan-1985 17:24:07

2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742

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00FFFFFF	8F	66	18	00	ED	00025	18:	CMPZV	#0, #24, (R6), #16777215	3896	
				08	12	0002E		BNEQ	28	3897	
		18	AE	E7	A8	00030		MOV C3	#24, NOACCESS+1, PRI_ACCESS	3898	
				16	11	00036		BRB	68	3901	
		07		50	D4	00038	28:	CLRL	J	3902	
			66	50	E1	0003A	38:	BBC	J, (R6), 48	3903	
			18	2D	90	0003E		MOV B	#45, PRI_ACCESS[J]	3898	
			AE40	05	11	00043		BRB	58	3906	
			18	23	90	00045	48:	MOV B	#35, PRI_ACCESS[J]	3907	
		EC		17	F3	0004A	58:	AOBLEQ	#23, J, 38	3908	
50		66		18	EF	0004E	68:	EXTZV	#24, #24, (R6), R0	3909	
				06	12	00053		BNEQ	78	3910	
		6E		18	28	00055		MOV C3	#24, FULLACCESS+1, SEC_ACCESS	3913	
				28	11	00059		BRB	128	3914	
		00FFFFFF	8F	50	D1	0005B	78:	CMP L	R0, #16777215	3915	
				07	12	00062		BNEQ	88	3916	
		6E		18	28	00064		MOV C3	#24, NOACCESS+1, SEC_ACCESS	3917	
			E7	A8	18	11	00069	BRB	128	3918	
				50	D4	0006B	88:	CLRL	J	3919	
			51	A0	9E	0006D	98:	MOV AB	24(R0), R1	3920	
		06		51	E1	00071		BBC	R1, (R6), 108	3921	
			66	2D	90	00075		MOV B	#45, SEC_ACCESS[J]	3922	
			6E40	04	11	00079		BRB	118	3923	
			6E40	23	90	0007B	108:	MOV B	#35, SEC_ACCESS[J]	3924	
		EA		17	F3	0007F	118:	AOBLEQ	#23, J, 98	3925	
			50	04	BC	9B	00083	128:	MOV ZBW	@FORMAT STRING, FAODSC	3926
	04	A7	04	AC	01	C1	00087	ADD L3	#1, FORMAT_STRING, FAODSC+4	3927	
				5E	DD	0008D		PUSHL	SP	3928	
				18	DD	0008F		PUSHL	#24	3929	
				20	AE	9F	00091	PUSH AB	PRI_ACCESS	3930	
				18	DD	00094		PUSHL	#24	3931	
				F8	A7	9F	00096	PUSH AB	DISDSC	3932	
		7E	08	A7	22	C1	00099	ADD L3	#34, RABPTR, -(SP)	3933	
				57	DD	0009E		PUSHL	R7	3934	
		0000000G	00	07	FB	000A0		CALLS	#7, SYSS\$FAD	3935	
				08	A7	DD	000A7	PUSHL	RABPTR	3936	
		0000000G	00	01	FB	000AA		CALLS	#1, SYSS\$PUT	3937	
				04	00	000B1		RET		3922	

: Routine Size: 178 bytes. Routine Base: \$CODES + 2103

```

convert_time - convert time value to string
: 3862      3923  1 %sbttl 'convert_time - convert time value to string'
3863      3924  1 routine convert_time (time, length, buffer) : novalue =
3864      3925  2 begin
3865      3926  2
3866      3927  2
3867      3928  2
3868      3929  2 FUNCTIONAL DESCRIPTION:
3869      3930  2
3870      3931  2     Converts the binary time value into a string, substituting
3871      3932  2     the string "(none)" if the value is zero.
3872      3933  2
3873      3934  2 INPUTS:
3874      3935  2
3875      3936  2     time: address of quadword time
3876      3937  2     length: length of output string
3877      3938  2     buffer: address of output buffer
3878      3939  2
3879      3940  2 IMPLICIT INPUTS:
3880      3941  2
3881      3942  2     none
3882      3943  2
3883      3944  2 OUTPUTS:
3884      3945  2
3885      3946  2     none
3886      3947  2
3887      3948  2 IMPLICIT OUTPUTS:
3888      3949  2
3889      3950  2     none
3890      3951  2
3891      3952  2 ROUTINE VALUE:
3892      3953  2
3893      3954  2     none
3894      3955  2
3895      3956  2 SIDE EFFECTS:
3896      3957  2
3897      3958  2     none
3898      3959  2
3899      3960  2
3900      3961  2 map
3901      3962  2     time           : ref vector;
3902      3963  2
3903      3964  2 local
3904      3965  2     string_desc   : vector [2]; ! descriptor for buffer
3905      3966  2
3906      3967  2 if (.time[0] or .time[1]) eql 0
3907      3968  2 then
3908      3969  2     begin
3909      3970  2     ch$fill (' ', .length-6, .buffer);
3910      3971  2     ch$move (6, uplit byte ('(none)'), .buffer+.length-6);
3911      3972  2     end
3912      3973  2
3913      3974  2 else
3914      3975  2     begin
3915      3976  2     string_desc[0] = .length;
3916      3977  2     string_desc[1] = .buffer;
3917      3978  2     Sasctim (timadr = .time, timbuf = string_desc);
3918      3979  2     end;

```



print\_priv - print privilege bits

```

3921 3981 1 %sbttl 'print_priv - print privilege bits'
3922 3982 1 routine print_priv (privadr) : novalue =
3923 3983 2 begin
3924 3984 ~~~~~
3925 3985 ~~~~~
3926 3986 ~~~~~
3927 3987 ~~~~~
3928 3988 ~~~~~
3929 3989 ~~~~~
3930 3990 ~~~~~
3931 3991 ~~~~~
3932 3992 ~~~~~
3933 3993 ~~~~~
3934 3994 ~~~~~
3935 3995 ~~~~~
3936 3996 ~~~~~
3937 3997 ~~~~~
3938 3998 ~~~~~
3939 3999 ~~~~~
3940 4000 ~~~~~
3941 4001 ~~~~~
3942 4002 ~~~~~
3943 4003 ~~~~~
3944 4004 ~~~~~
3945 4005 ~~~~~
3946 4006 ~~~~~
3947 4007 ~~~~~
3948 4008 ~~~~~
3949 4009 ~~~~~
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3951 4011 ~~~~~
3952 4012 ~~~~~
3953 4013 ~~~~~
3954 4014 ~~~~~
3955 4015 ~~~~~
3956 4016 ~~~~~
3957 4017 ~~~~~
3958 4018 ~~~~~
3959 4019 ~~~~~
3960 4020 ~~~~~
3961 4021 ~~~~~
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3975 4035 ~~~~~
3976 4036 ~~~~~
3977 4037 ~~~~~

1 %sbttl 'print_priv - print privilege bits'
routine print_priv (privadr) : novalue =
begin
++
FUNCTIONAL DESCRIPTION:
Routine to output the names of the privilege bits set
in the privilege vector supplied.
INPUTS:
PRVADR - Address of the privilege vector
IMPLICIT INPUTS:
PRVSAB_NAMES - table of privilege names and bit numbers
OUTPUTS:
none
IMPLICIT OUTPUTS:
none
ROUTINE VALUE:
none
SIDE EFFECTS:
none
--
local
pointer,          ! current location in PRVSAB_NAMES
prvcnt,          ! number of names in DISBUF
symlen,          ! length of bit name string
symmin,          ! minimum symbol length
symval;         ! value (bit number)
:: Initialize the buffer.
disbuf = ' ':    ! insert blank at start
prvcnt = 0;
rabptr[rabsw_rsz] = 1;
pointer = prv$ab_names; ! point to symbol name table
while (symmin = . (.pointer)<0,8>) neq 0 ! pick up min symbol size
do
begin

```

print\_priv - print privilege bits

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Pick up the next bit name and number.  If the bit is set, insert
the bit name into the buffer.  When the buffer fills up output them
to the user.

pointer = .pointer + 1;
symval = . (.pointer)<0,8>;           ! get bit number
pointer = .pointer + 1;
symlen = . (.pointer)<0,8>;          ! get name string length
pointer = .pointer + 1;              ! point to string
if . (.prvadr)<.symval,1>
AND CH$NEQ(.SYMLN, .POINTER, 7, UPLIT('UPGRADE'))           !**
AND CH$NEQ(.SYMLN, .POINTER, 9, UPLIT('DOWNGRADE'))         !**
AND CH$NEQ(.SYMLN, .POINTER, 6, UPLIT('TMPJNL'))            !**
AND CH$NEQ(.SYMLN, .POINTER, 6, UPLIT('PRMJNL'))            !**
then
begin

Bit is set.  See if there's room in the buffer and insert it if so,
else output the buffer and start from scratch.

if .rabptr[rab$w_rsz] + .symlen geq 64
then
begin
$put (rab = .rabptr);
prvcnt = 0;
rabptr[rab$w_rsz] = 1;
end;

Insert a blank and append symbol name.

disbuf[.rabptr[rab$w_rsz]] = %char (' ');
rabptr[rab$w_rsz] = .rabptr[rab$w_rsz] + 1;
ch$move (.symlen, .pointer, disbuf[.rabptr[rab$w_rsz]]);
rabptr[rab$w_rsz] = .rabptr[rab$w_rsz] + .symlen;
prvcnt = .prvcnt + 1;           ! one more name in buffer
end;

pointer = .pointer + .symlen;    ! update table pointer over name
end;

Table used up.  If anything is in the buffer, print it.

if .prvcnt gtr 0
then $put (rab = .rabptr);

end;

```

												.PSECT	SPLITS, NOWRT, NOEXE, 2				
00	00	00	45	00	45	44	41	52	47	50	55	0086C	P.AFF:	.ASCII	\UPGRADE\<0>	:	
				44	41	52	47	4E	57	4F	44	00874	P.AFG:	.ASCII	\DOWNGRADE\<0><0><0>	:	
				00	00	4C	4E	4A	50	4D	54	00880	P.AFH:	.ASCII	\TMPJNL\<0><0>	:	
				00	00	4C	4E	4A	4D	52	50	00888	P.AFI:	.ASCII	\PRMJNL\<0><0>	:	
												.PSECT	SCODES, NOWRT, 2				
												OFFC	00000	PRINT_PRIV:			
				00000000'	00			20	D0	00002		.WORD	Save R2, R3, R4, R5, R6, R7, R8, R9, R10, R11	:	3982		
								59	D4	00009		MOVL	#32, DISBUF	:	4029		
		22		50	00000000'			60	D0	0000B		CLRL	PRVCNT	:	4030		
				A0				01	B0	00012		MOVL	RABPTR, R0	:	4031		
				57	00000000G			00	9E	00016		MOVW	#1, 34(R0)	:			
				5B				67	9A	0001D	1\$:	MOVAB	PRVSAB NAMES, POINTER	:	4032		
								03	12	00020		MOVZBL	(POINTER), SYMMIN	:	4034		
								0098	31	00022		BNEQ	2\$	:			
								57	D6	00025	2\$:	BRW	6\$	:			
				5A				87	9A	00027		INCL	POINTER	:	4044		
				58				87	9A	0002A		MOVZBL	(POINTER)+, SYMVAL	:	4045		
	03		04	BC				5A	E0	0002D		MOVZBL	(POINTER)+, SYMLEN	:	4047		
								0082	31	00032		BBS	SYMVAL, @PRVADR, 3\$	:	4049		
07		00		67				58	2D	00035	3\$:	BRW	5\$	:			
					00000000'			00		0003A		CMPCS	SYMLEN, (POINTER), #0, #7, P.AFF	:	4050		
								76	13	0003F		BEQL	5\$	:			
09		00		67				58	2D	00041		CMPCS	SYMLEN, (POINTER), #0, #9, P.AFG	:	4051		
					00000000'			00		00046				:			
								6A	13	0004B		BEQL	5\$	:			
06		00		67				58	2D	0004D		CMPCS	SYMLEN, (POINTER), #0, #6, P.AFH	:	4052		
					00000000'			00		00052				:			
								5E	13	00057		BEQL	5\$	:			
06		00		67				58	2D	00059		CMPCS	SYMLEN, (POINTER), #0, #6, P.AFI	:	4053		
					00000000'			00		0005E				:			
								52	13	00063		BEQL	5\$	:			
				50	00000000'			00	D0	00065		MOVL	RABPTR, R0	:	4062		
				51		22		A0	3C	0006C		MOVZWL	34(R0), R1	:			
				51				58	C0	00070		ADDL2	SYMLEN, R1	:			
				3F				51	D1	00073		CMPL	R1, #63	:			
								16	15	00076		BLEQ	4\$	:			
								50	DD	00078		PUSHL	R0	:	4065		
				00000000G	00			01	FB	0007A		CALLS	#1, SYSSPUT	:			
								59	D4	00081		CLRL	PRVCNT	:	4066		
				50	00000000'			00	D0	00083		MOVL	RABPTR, R0	:	4067		
		22		A0				01	B0	0008A		MOVW	#1, 34(R0)	:			
				50	00000000'			00	D0	0008E	4\$:	MOVL	RABPTR, R0	:	4074		
				56		22		A0	9E	00095		MOVAB	34(R0), R6	:			
				50				66	3C	00099		MOVZWL	(R6), R0	:			
				00000000'	0040			20	90	0009C		MOVB	#2, DISBUF[R0]	:			
								66	B6	000A4		INCW	(R6)	:	4075		
				50				66	3C	000A6		MOVZWL	(R6), R0	:	4076		
				00000000'	004C			58	28	000A9		MOVCS	SYMLEN, (POINTER), DISBUF[R0]	:			
				66				58	A0	0C0B2		ADDW2	SYMLEN, (R6)	:	4077		
								59	D6	000B5		INCL	PRVCNT	:	4078		

UAFMAIN  
V04-000

print\_priv - print privilege bits

N 15

8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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(30)

57	58	C0	00B7	5\$:	ADDL2	SYMLN, POINTER
	FF60	31	00BA		BRW	1\$
	59	D5	00BD	6\$:	TSTL	PRVCNT
	0D	15	00BF		BLEQ	7\$
00000000G 00	00	DD	00C1		PUSHL	RABPTR
	01	FB	00C7		CALLS	#1, SY\$PUT
	04	00CE	7\$:	RET		

: 4081  
: 4034  
: 4088  
: 4089  
: 4091

: Routine Size: 207 bytes, Routine Base: \$CODE\$ + 21F6



```

: 4033      4092  1 %shttl 'build_ini_recs - build system & default records'
: 4034      4093  1 routine build_ini_recs : novalue =
: 4035      4094  2 begin
: 4036      4095  2
: 4037      4096  2 :++
: 4038      4097  2 :
: 4039      4098  2 : FUNCTIONAL DESCRIPTION:
: 4040      4099  2 :
: 4041      4100  2 :     Build the initial records for the creation of a new UAF file.
: 4042      4101  2 :     The user default record is built in the DEFAULT_RECORD
: 4043      4102  2 :     buffer and the system manager record is built in RECBUF.
: 4044      4103  2 :
: 4045      4104  2 : INPUTS:
: 4046      4105  2 :
: 4047      4106  2 :     none
: 4048      4107  2 :
: 4049      4108  2 : IMPLICIT INPUTS:
: 4050      4109  2 :
: 4051      4110  2 :     none
: 4052      4111  2 :
: 4053      4112  2 : OUTPUTS:
: 4054      4113  2 :
: 4055      4114  2 :     none
: 4056      4115  2 :
: 4057      4116  2 : IMPLICIT OUTPUTS:
: 4058      4117  2 :
: 4059      4118  2 :     default record is built in DEFAULT_RECORD
: 4060      4119  2 :     system record is built in RECBUF
: 4061      4120  2 :
: 4062      4121  2 : ROUTINE VALUE:
: 4063      4122  2 :
: 4064      4123  2 :     none
: 4065      4124  2 :
: 4066      4125  2 : SIDE EFFECTS:
: 4067      4126  2 :
: 4068      4127  2 :     none
: 4069      4128  2 : --
: 4070      4129  2 :
: 4071      4130  2 local
: 4072      4131  2     user_desc      : %bblock [8];
: 4073      4132  2
: 4074      4133  2 ch$fill (0, uaf$c_fixed, default_record);
: 4075      4134  2 default_record[uaf$b_version] = uaf$c_version1;
: 4076      4135  2 default_record[uaf$b_type] = uaf$c_user_id;
: 4077      4136  2
: 4078      4137  2 : username is blank filled
: 4079      4138  2 :
: 4080      4139  2 :
: 4081      4140  2 ch$copy (.defuser<0,8>, defuser+1, %char (' '),
: 4082      4141  2     uaf$s_username, default_record[uaf$t_username]);
: 4083      4142  2 :
: 4084      4143  2 :
: 4085      4144  2 : account name is blank filled
: 4086      4145  2 :
: 4087      4146  2 :
: 4088      4147  2 ch$copy (.defact<0,8>, defact+1, %char (' '),
: 4089      4148  2     uaf$s_account, default_record[uaf$t_account]);

```

```

4090 4149 2
4091 4150 2
4092 4151 2 quadword privilege mask
4093 4152 2
4094 4153 2
4095 4154 2 ch$move (8, defpriv, default_record[uaf$q_priv]);
4096 4155 2 ch$move (8, defpriv, default_record[uaf$q_def_priv]);
4097 4156 2
4098 4157 2
4099 4158 2 directory name is counted string
4100 4159 2
4101 4160 2
4102 4161 2 ch$copy (.defdir<0,8> + 1, defdir, %char (' '),
4103 4162 2 uaf$s_defdir, default_record[uaf$t_defdir]);
4104 4163 2
4105 4164 2
4106 4165 2 device name is counted string
4107 4166 2
4108 4167 2
4109 4168 2 ch$copy (.defdev<0,8> + 1, defdev, %char (' '),
4110 4169 2 uaf$s_defdev, default_record[uaf$t_defdev]);
4111 4170 2
4112 4171 2
4113 4172 2 CLI name is counted string
4114 4173 2
4115 4174 2
4116 4175 2 ch$copy (.defcli<0,8> + 1, defcli, %char (' '),
4117 4176 2 uaf$s_defcli, default_record[uaf$t_defcli]);
4118 4177 2
4119 4178 2
4120 4179 2 owner name is counted string
4121 4180 2
4122 4181 2
4123 4182 2 ch$copy (.defowner<0,8> + 1, defowner, %char (' '),
4124 4183 2 uaf$s_owner, default_record[uaf$t_owner]);
4125 4184 2
4126 4185 2
4127 4186 2 login command file name is counted string
4128 4187 2
4129 4188 2
4130 4189 2 ch$copy (.deflgicmd<0,8> + 1, deflgicmd, %char (' '),
4131 4190 2 uaf$s_lgicmd, default_record[uaf$t_lgicmd]);
4132 4191 2
4133 4192 2
4134 4193 2 fill in default CLI tables
4135 4194 2
4136 4195 2 ch$copy (.defclitabl<0,8> + 1, defclitabl, %char (' '),
4137 4196 2 uaf$s_clitables, default_record[uaf$t_clitables]);
4138 4197 2
4139 4198 2 ch$move (8, defpwdlife, default_record[uaf$q_pwd_lifetime]);
4140 4199 2 default_record[uaf$b_pwd_length] = defpwdlength;
4141 4200 2 default_record[uaf$w_grp] = defgrp;
4142 4201 2 default_record[uaf$w_mem] = defmem;
4143 4202 2 default_record[uaf$w_bioltm] = defbioltm;
4144 4203 2 default_record[uaf$l_byltm] = defbyltm;
4145 4204 2 default_record[uaf$w_diolm] = defdiolm;
4146 4205 2 default_record[uaf$w_fillm] = deffillm;

```

```

4147 4206 ~ default_record[uafl_flags] = defflags;
4148 4207 ~ default_record[uafl_tqcnt] = deftqcnt;
4149 4208 ~ default_record[uafl_prcnt] = defprcnt;
4150 4209 ~ default_record[uafl_wsquota] = defwsquota;
4151 4210 ~ default_record[uafl_wsextent] = defwsextent;
4152 4211 ~ default_record[uafl_dfwscnt] = defdfwscnt;
4153 4212 ~ default_record[uafl_cputim] = defcputim;
4154 4213 ~ default_record[uafl_astlm] = defastlm;
4155 4214 ~ default_record[uafl_pgflquota] = defpgflquota;
4156 4215 ~ default_record[uafl_enqlm] = defenqlm;
4157 4216 ~ default_record[uafl_pbytlm] = defpbytlm;
4158 4217 ~ default_record[uafl_shrfillm] = defshrfillm;
4159 4218 ~ default_record[uafl_pri] = defpri;
4160 4219 ~ default_record[uafl_quepri] = defquepri;
4161 4220 ~ default_record[uafl_maxjobs] = defmaxjobs;
4162 4221 ~ default_record[uafl_maxdetach] = defmaxdetach;
4163 4222 ~ default_record[uafl_jtquota] = defjtquota;
4164 4223 ~ default_record[uafl_maxacctjobs] = defmaxacctjobs;
4165 4224 ~ default_record[uafl_primedays] = defprimedays;
4166 4225 ~ default_record[uafl_network_access_p] = defhours;
4167 4226 ~ default_record[uafl_network_access_s] = defhours;
4168 4227 ~ default_record[uafl_batch_access_p] = defhours;
4169 4228 ~ default_record[uafl_batch_access_s] = defhours;
4170 4229 ~ default_record[uafl_local_access_p] = defhours;
4171 4230 ~ default_record[uafl_local_access_s] = defhours;
4172 4231 ~ default_record[uafl_dialup_access_p] = defhours;
4173 4232 ~ default_record[uafl_dialup_access_s] = defhours;
4174 4233 ~ default_record[uafl_remote_access_p] = defhours;
4175 4234 ~ default_record[uafl_remote_access_s] = defhours;
4176 4235 ~
4177 4236 ~ ch$fill (0, uafl_fixed, recbuf);
4178 4237 ~ recbuf[uafl_version] = uafl_version;
4179 4238 ~ recbuf[uafl_rtype] = uafl_user_id;
4180 4239 ~ ch$copy (.sysuser<0,8>, sysuser+1, &char (' '),
4181 4240 ~ uafl_username, recbuf[uafl_username]);
4182 4241 ~ ch$copy (.sysact<0,8>, sysact+1, &char (' '),
4183 4242 ~ uafl_account, recbuf[uafl_account]);
4184 4243 ~ ch$move (8, syspriv, recbuf[uafl_priv]);
4185 4244 ~ ch$move (8, syspriv, recbuf[uafl_def_priv]);
4186 4245 ~ ch$copy (.sysdir<0,8> + 1, sysdir, &char (' '),
4187 4246 ~ uafl_defdir, recbuf[uafl_defdir]);
4188 4247 ~ ch$copy (.sysdev<0,8> + 1, sysdev, &char (' '),
4189 4248 ~ uafl_defdev, recbuf[uafl_defdev]);
4190 4249 ~ ch$copy (.syscli<0,8> + 1, syscli, &char (' '),
4191 4250 ~ uafl_defcli, recbuf[uafl_defcli]);
4192 4251 ~ ch$copy (.sysowner<0,8> + 1, sysowner, &char (' '),
4193 4252 ~ uafl_owner, recbuf[uafl_owner]);
4194 4253 ~ ch$copy (.syslgicmd<0,8> + 1, deflgicmd, &char (' '),
4195 4254 ~ uafl_lgicmd, recbuf[uafl_lgicmd]);
4196 4255 ~ ch$copy (.sysclitabl<0,8> + 1, sysclitabl, &char (' '),
4197 4256 ~ uafl_clitables, recbuf[uafl_clitables]);
4198 4257 ~
4199 4258 ~ pwordsc[dsc$w_length] = .syspass<0,8>;
4200 4259 ~ pwordsc[dsc$a_pointer] = syspass+1;
4201 4260 ~ user_desc[dsc$w_length] = .sysuser<0,8>;
4202 4261 ~ user_desc[dsc$a_pointer] = sysuser+1;
4203 4262 ~ &gettim (timadr = time_buf);

```

! Obtain a 16 bit salt

```

: 4204      4263 2 recbuf[uaf$w_salt] = .time_buf<3*8,16>;
: 4205      4264 2 recbuf[uaf$b_encrypt] = encrypt;
: 4206      4265 2 lgi$hpwd (rec_encrypt_dsc, pwordsc, .recbuf[uaf$b_encrypt],
: 4207      4266 2     .recbuf[uaf$w_salt], user_desc);
: 4208      4267 2
: 4209      4268 2 ch$move (8, syspwdlife, recbuf[uaf$q_pwd_lifetime]);
: 4210      4269 2 recbuf[uaf$b_pwd_length] = syspwdlength;
: 4211      4270 2 recbuf[uaf$w_grp] = sysgrp;
: 4212      4271 2 recbuf[uaf$w_mem] = sysmem;
: 4213      4272 2 recbuf[uaf$w_bioltm] = sysbioltm;
: 4214      4273 2 recbuf[uaf$l_bytltm] = sysbytltm;
: 4215      4274 2 recbuf[uaf$w_diolm] = sysdioltm;
: 4216      4275 2 recbuf[uaf$w_fillm] = sysfillm;
: 4217      4276 2 recbuf[uaf$l_flags] = sysflags;
: 4218      4277 2 recbuf[uaf$w_tqcnt] = systqcnt;
: 4219      4278 2 recbuf[uaf$w_prcnt] = sysprcnt;
: 4220      4279 2 recbuf[uaf$l_wsquota] = syswsquota;
: 4221      4280 2 recbuf[uaf$l_wsextent] = syswsextent;
: 4222      4281 2 recbuf[uaf$l_dfwsent] = sysdfwsent;
: 4223      4282 2 recbuf[uaf$l_cputim] = syscputim;
: 4224      4283 2 recbuf[uaf$w_astlm] = sysastlm;
: 4225      4284 2 recbuf[uaf$l_pgflquota] = syspgflquota;
: 4226      4285 2 recbuf[uaf$w_enqlm] = sysenqlm;
: 4227      4286 2 recbuf[uaf$l_pbytltm] = syspbytltm;
: 4228      4287 2 recbuf[uaf$w_shrfillm] = sysshrfillm;
: 4229      4288 2 recbuf[uaf$b_pri] = syspri;
: 4230      4289 2 default_record[uaf$b_QUEPRI] = sysquepri;
: 4231      4290 2 recbuf[uaf$w_maxdetach] = sysmaxdetach;
: 4232      4291 2 recbuf[uaf$l_jtquota] = sysjtquota;
: 4233      4292 2 recbuf[uaf$w_maxjobs] = sysmaxjobs;
: 4234      4293 2 recbuf[uaf$w_maxdetach] = sysmaxdetach;
: 4235      4294 2 recbuf[uaf$w_maxacctjobs] = sysmaxacctjobs;
: 4236      4295 2 recbuf[uaf$b_primedays] = sysprimedays;
: 4237      4296 2 recbuf[uaf$b_network_access_p] = defhours;
: 4238      4297 2 recbuf[uaf$b_network_access_s] = defhours;
: 4239      4298 2 recbuf[uaf$b_batch_access_p] = defhours;
: 4240      4299 2 recbuf[uaf$b_batch_access_s] = defhours;
: 4241      4300 2 recbuf[uaf$b_local_access_p] = defhours;
: 4242      4301 2 recbuf[uaf$b_local_access_s] = defhours;
: 4243      4302 2 recbuf[uaf$b_dialup_access_p] = defhours;
: 4244      4303 2 recbuf[uaf$b_dialup_access_s] = defhours;
: 4245      4304 2 recbuf[uaf$b_remote_access_p] = defhours;
: 4246      4305 2 recbuf[uaf$b_remote_access_s] = defhours;
: 4247      4306 1 end;

```

03FC 0000 BUILD\_INI RECS:

					WORD	Save R2,R3,R4,R5,R6,R7,R8,R9	...	4093
		59 00000000'	00	9E 00002	MOVAB	DEFAULT+1, R9	...	
		58 00000000'	00	9E 00009	MOVAB	DEFAULT_RECORD, R8	...	
		57 00000000'	00	9E 00010	MOVAB	RECBUF, R7	...	
		5E	08	C2 00017	SUBL2	#8, SP	...	
0284	8F	00	6E	00 2C 0001A	MOVCS	#0, (SP), #0, #644, DEFAULT_RECORD	...	4133
				68		00021	...	

			68	0101	8F	B0	00022	MOVW	#257, DEFAULT_RECORD	4135	
			50	E8	A9	9A	00027	MOVZBL	DEFUSER, R0	4140	
20		20	A9		50	2C	0002B	MOVCS	R0, DEFUSER+1, #32, #32, DEFAULT_RECORD+4	4141	
					04	A8	00031				
			50	FF	A9	9A	00033	MOVZBL	DEFACT, R0	4147	
20		20	69		50	2C	00037	MOVCS	R0, DEFACT+1, #32, #32, DEFAULT_RECORD+52	4148	
					34	A8	0003C				
	019C	C8	10	A9	08	28	0003E	MOVCS	#8, DEFPRIV, DEFAULT_RECORD+412	4154	
	01A4	C8	10	A9	08	28	00045	MOVCS	#8, DEFPRIV, DEFAULT_RECORD+420	4155	
								MOVZBL	DEFDIR, R0	4161	
0040	8F		20	06	A9	9A	0004C	INCL	R0		
								MOVCS	R0, DEFDIR, #32, #64, DEFAULT_RECORD+148	4162	
			50	0094	C8		0005A				
				0D	A9	9A	0005D	MOVZBL	DEFDEV, R0	4168	
20		20	0D	A9	50	D6	00061	INCL	R0		
								MOVCS	R0, DEFDEV, #32, #32, DEFAULT_RECORD+116	4169	
			50	74	A8		00069				
								MOVZBL	DEFCLI, R0	4175	
20		20	69		50	D6	0006E	INCL	R0		
								MOVCS	R0, DEFCLI, #32, #32, DEFAULT_RECORD+276	4176	
			50	0114	C8		00075				
				04	A9	9A	00078	MOVZBL	DEFOWNER, R0	4182	
20		20	04	A9	50	D6	0007C	INCL	R0		
								MOVCS	R0, DEFOWNER, #32, #32, DEFAULT_RECORD+84	4183	
			50	54	A8		00084				
				05	A9	9A	00086	MOVZBL	DEFLGICMD, R0	4189	
0040	8F		20	05	A9	50	D6	0008A	INCL	R0	
								MOVCS	R0, DEFLGICMD, #32, #64, DEFAULT_RECORD+212	4190	
			50	00D4	C8		00094				
				F5	A9	9A	00097	MOVZBL	DEFCLITABL, R0	4195	
20		20	F5	A9	50	D6	0009B	INCL	R0		
								MOVCS	R0, DEFCLITABL, #32, #32, -	4196	
	0174	C8	18	A9	08	28	000A3				
								MOVCS	#8, DEFPWDLIFE, DEFAULT_RECORD+372	4198	
			016A	C8	06	90	000AD	MOVW	#6, DEFAULT_RECORD+362	4199	
			24	A8	00800080	8F	D0	000B2	MOVL	#8388736, DEFAULT_RECORD+36	4201
			0230	C8	1000	8F	3C	000BA	MOVZWL	#4096, DEFAULT_RECORD+560	4203
			020E	C8	G0060006	8F	D0	000C1	MOVL	#393222, DEFAULT_RECORD+526	4202
								CLRL	DEFAULT_RECORD+468	4206	
								MOVW	#2, DEFAULT_RECORD+524	4208	
			020C	C8		02	B0	000CE	MOVZBL	#200, DEFAULT_RECORD+540	4209
			021C	C8	C8	8F	9A	000D3	MOVZWL	#500, DEFAULT_RECORD+548	4210
			0224	C8	01F4	8F	3C	000D9	MOVZBL	#150, DEFAULT_RECORD+544	4211
			0220	C8	96	8F	9A	000E0	CLRL	DEFAULT_RECORD+556	4212
								MOVW	#655370, DEFAULT_RECORD+530	4207	
			0212	C8	000A000A	8F	D0	000EA	MOVZWL	#1000, DEFAULT_RECORD+552	4214
			0228	C8	2710	8F	3C	000F3	MOVL	#1310730, DEFAULT_RECORD+534	4215
			0216	C8	0014000A	8F	D0	000FA	CLRL	DEFAULT_RECORD+564	4216
								CLRW	DEFAULT_RECORD+538	4217	
								MOVZWL	#1028, DEFAULT_RECORD+516	4218	
			0204	C8	0404	8F	3C	0010B	MOVZWL	#1024, DEFAULT_RECORD+568	4222
			0238	C8	0400	8F	3C	00112	CLRL	DEFAULT_RECORD+520	4223
								MOVW	#96, DEFAULT_RECORD+514	4224	
								INSV	#0, #0, #24, DEFAULT_RECORD+472	4225	
01D8	C8		18	00	00	F0	00123	INSV	#0, #0, #24, DEFAULT_RECORD+475	4226	
.DB	C8		18	00	00	F0	0012A	INSV	#0, #0, #24, DEFAULT_RECORD+478	4227	
01DE	C8		18	00	00	F0	00131	INSV	#0, #0, #24, DEFAULT_RECORD+481	4228	
01E1	C8		18	00	00	F0	00138	INSV			

01E4	C8	18	00	00	FO	0013F	INSV	#0, #0, #24, DEFAULT_RECORD+484	4229
01E7	C8	18	00	00	FO	00146	INSV	#0, #0, #24, DEFAULT_RECORD+487	4230
01EA	C8	18	00	00	FO	0014D	INSV	#0, #0, #24, DEFAULT_RECORD+490	4231
01ED	C8	18	00	00	FO	00154	INSV	#0, #0, #24, DEFAULT_RECORD+493	4232
01F0	C8	18	00	00	FO	0015B	INSV	#0, #0, #24, DEFAULT_RECORD+496	4233
01F3	C8	18	00	00	FO	00162	INSV	#0, #0, #24, DEFAULT_RECORD+499	4234
02B4	8F	00	6E	00	2C	00169	MOVCS	#0, (SP), #0, #644, RECBUF	4236
				67		00170			
				67	0101	8F B0	MOVW	#257, RECBUF	4238
				56	20	A9 9A	MOVZBL	SYSUSER, R6	4239
	20	20	21	A9	56	2C	MOVCS	R6, SYSUSER+1, #32, #32, RECBUF+4	4240
					04	A7			
				50	39	A9 9A	MOVZBL	SYSACT, R0	4241
	20	20	3A	A9	50	2C	MOVCS	R0, SYSACT+1, #32, #32, RECBUF+52	4242
					34	A7			
				019C	C7	60 A9	MOVCS	#8, SYSPRIV, RECBUF+412	4243
				01A4	C7	60 A9	MOVCS	#8, SYSPRIV, RECBUF+420	4244
						50	MOVZBL	SYSDIR, R0	4245
						50	INCL	R0	
0040	8F	20	54	A9	50	D6	MOVCS	R0, SYSDIR, #32, #64, RECBUF+148	4246
					0094	C7			
					5D	A9 9A	MOVZBL	SYSDEV, R0	4247
						50	INCL	R0	
	20	20	5D	A9	50	D6	MOVCS	R0, SYSDEV, #32, #32, RECBUF+116	4248
					74	A7			
					40	A9 9A	MOVZBL	SYSCLI, R0	4249
						50	INCL	R0	
	20	20	40	A9	50	D6	MOVCS	R0, SYSCLI, #32, #32, RECBUF+276	4250
					0114	C7			
					44	A9 9A	MOVZBL	SYSOWNER, R0	4251
						50	INCL	R0	
	20	20	44	A9	50	D6	MOVCS	R0, SYSOWNER, #32, #32, RECBUF+84	4252
					54	A7			
					53	A9 9A	MOVZBL	SYSLGICMD, R0	4253
						50	INCL	R0	
						50	MOVCS	R0, DEFLGICMD, #32, #64, RECBUF+212	4254
0040	8F	20	05	A9	50	D6			
					00D4	C7			
					2F	A9 9A	MOVZBL	SYSCLITABL, R0	4255
						50	INCL	R0	
	20	20	2F	A9	50	D6	MOVCS	R0, SYSCLITABL, #32, #32, RECBUF+308	4256
					0134	C7			
					27	A9 9B	MOVZBW	SYSPASS, PWDDSC	4258
					0584	C8	MOVAB	SYSPASS+1, PWDDSC+4	4259
					6E	56 B0	MOVW	R6, USER_DESC	4260
					04	A9 9E	MOVAB	SYSUSER+T, USER_DESC+4	4261
					0670	C7 9F	PUSHAB	TIME BUF	4262
					00G000000G	00	CALLS	#1, SYS\$GETTIM	
					0166	C7	MOVW	TIME BUF+3, RECBUF+358	4263
					0168	C7	MOVB	#2, RECBUF+360	4264
						5E	PUSHL	SP	4265
					7E	C7 3C	MOVZWL	RECBUF+358, -(SP)	4266
					0168	C7 9A	MOVZBL	RECBUF+360, -(SP)	4265
					0584	C8 9F	PUSHAB	PWDDSC	
					00B4	C9 9F	PUSHAB	REC_ENCRYPT_DSC	
					00000000G	00	CALLS	#5, LGI\$HPWD	
					0174	C7	MOVCS	#8, SYSPWLIFE, RECBUF+372	4268
					68	A9			
					016A	C7	MOVB	#8, RECBUF+362	4269
						08			
						08 90			

24	A7	00010004	8F	D0	0024A	MOVL	#65540, RECBUF+36	:	4271
0230	C7	5000	8F	3C	00252	MOVZWL	#20480, RECBUF+560	:	4273
020E	C7	000C000C	8F	D0	00259	MOVL	#786444, RECBUF+526	:	4272
		01D4	C7	D4	00262	CLRL	RECBUF+468	:	4276
0212	C7	00140014	8F	D0	00266	MOVL	#1310740, RECBUF+530	:	4277
020A	C7	000A0000	8F	D0	00267	MOVL	#655360, RECBUF+522	:	4290
021C	C7	015E	8F	3C	00278	MOVZWL	#350, RECBUF+540	:	4279
0224	C7	0400	8F	3C	0027F	MOVZWL	#1024, RECBUF+548	:	4280
0220	C7	96	8F	9A	00286	MOVZBL	#150, RECBUF+544	:	4281
		022C	C7	D4	0028C	CLRL	RECBUF+556	:	4282
0228	C7	2710	8F	3C	00290	MOVZWL	#10000, RECBUF+552	:	4284
0216	C7	00140014	8F	D0	00297	MOVL	#1310740, RECBUF+534	:	4285
		0234	C7	D4	002A0	CLRL	RECBUF+564	:	4286
		021A	C7	B4	002A4	CLRW	RECBUF+538	:	4287
0204	C7		04	90	002A8	MOVB	#4, RECBUF+516	:	4288
0205	C8		04	90	002AD	MOVB	#4, DEFAULT RECORD+517	:	4289
0238	C7	0400	8F	3C	002B2	MOVZWL	#1024, RECBUF+568	:	4291
		020A	C7	B4	002B9	CLRW	RECBUF+522	:	4293
		0206	C7	D4	002BD	CLRL	RECBUF+518	:	4292
0202	C7	60	8F	90	002C1	MOVB	#96, RECBUF+514	:	4295
01DB	C7		00	F0	002C7	INSV	#0, #0, #24, RECBUF+472	:	4296
01DB	C7		00	F0	002CE	INSV	#0, #0, #24, RECBUF+475	:	4297
01DE	C7		00	F0	002D5	INSV	#0, #0, #24, RECBUF+478	:	4298
01E1	C7		00	F0	002DC	INSV	#0, #0, #24, RECBUF+481	:	4299
01E4	C7		00	F0	002E3	INSV	#0, #0, #24, RECBUF+484	:	4300
01E7	C7		00	F0	002EA	INSV	#0, #0, #24, RECBUF+487	:	4301
01EA	C7		00	F0	002F1	INSV	#0, #0, #24, RECBUF+490	:	4302
01ED	C7		00	F0	002F8	INSV	#0, #0, #24, RECBUF+493	:	4303
01F0	C7		00	F0	002FF	INSV	#0, #0, #24, RECBUF+496	:	4304
01F3	C7		00	F0	00306	INSV	#0, #0, #24, RECBUF+499	:	4305
				04	0030D	RET		:	4306

; Routine Size: 782 bytes. Routine Base: \$CODE\$ + 22C5

```

get_user_record - get username and lookup recor
: 4249      4307 1 %sbttl 'get_user_record - get username and lookup record'
: 4250      4308 1 routine get_user_record (lock_record, permanent_ok) =
: 4251      4309 2 begin
: 4252      4310 2
: 4253      4311 2 ++
: 4254      4312 2
: 4255      4313 2 FUNCTIONAL DESCRIPTION:
: 4256      4314 2
: 4257      4315 2     This routine pulls the next token out of the command
: 4258      4316 2     buffer, assuming it is the username, and looks up the
: 4259      4317 2     UAF record for that name. If the record is found,
: 4260      4318 2     it is loaded into RECBUF (by routine LOCATE_USER)'.
: 4261      4319 2
: 4262      4320 2 INPUTS:
: 4263      4321 2
: 4264      4322 2     LOCK_RECORD - specifies that the GET shall lock the record
: 4265      4323 2     PERMANENT_OK - specifies that the DEFAULT and SYSTEM records are allowed
: 4266      4324 2
: 4267      4325 2 IMPLICIT INPUTS:
: 4268      4326 2
: 4269      4327 2     TOKENPTR - address of delimiter following last token processed,
: 4270      4328 2     which was the command name.
: 4271      4329 2     TOKENLEN - global variable to contain length of current token
: 4272      4330 2
: 4273      4331 2 OUTPUTS:
: 4274      4332 2
: 4275      4333 2     none
: 4276      4334 2
: 4277      4335 2 IMPLICIT OUTPUTS:
: 4278      4336 2
: 4279      4337 2     none
: 4280      4338 2
: 4281      4339 2 ROUTINE VALUE:
: 4282      4340 2
: 4283      4341 2     true -> user record found
: 4284      4342 2     false -> user record not found
: 4285      4343 2
: 4286      4344 2 SIDE EFFECTS:
: 4287      4345 2
: 4288      4346 2     none
: 4289      4347 2 --
: 4290      4348 2
: 4291      4349 2 builtin
: 4292      4350 2     nullparameter;
: 4293      4351 2
: 4294      4352 2
: 4295      4353 2     Is this the second phase of a RENAME?
: 4296      4354 2
: 4297      4355 2     if .rename_ph2
: 4298      4356 2     then
: 4299      4357 2     begin
: 4300      4358 2     if .netuaf_exists
: 4301      4359 2     then adjust_proxy (update_records);
: 4302      4360 2     ch$move (.olduserlen, oldusername, .tokenptr);
: 4303      4361 2     tokenlen = .olduserlen;
: 4304      4362 2     rename_ph2 = false;
: 4305      4363 2     end

```



get\_user\_record - get username and lookup recor

```

4306 4364 2
4307 4365 2
4308 4366 2 Not the second phase of a RENAME. Get first token, and if this
4309 4367 2 is the first phase of a RENAME (COPY phase), save token for
4310 4368 2 the second phase (REMOVE phase).
4311 4369 2 else
4312 4370 2 begin
4313 4371 2
4314 4372 2 Get token
4315 4373 2
4316 4374 2 if not cli$present (sd_token1)
4317 4375 2 or not cli$get_value (sd_token1, tokendsc)
4318 4376 2 or .tokenlen eql 0
4319 4377 2 then return LIB$SIGNAL(UAF$_NOUSERNAME);
4320 4378 2
4321 4379 2 If the third argument is present, this is the first phase of a
4322 4380 2 RENAME, so save the token for the next call
4323 4381 2
4324 4382 2 if not nullparameter (3)
4325 4383 2 then
4326 4384 2 begin
4327 4385 2 ch$copy (.tokenlen, .tokenptr, ' ', uaf$_username, oldusername);
4328 4386 2 olduserlen = .tokenlen;
4329 4387 2 rename_ph2 = true;
4330 4388 2 end;
4331 4389 2 end;
4332 4390 2
4333 4391 2 if not .permanent_ok
4334 4392 2 then
4335 4393 2 begin
4336 4394 2 if ch$eql (.defuser<0,8>, defuser+1, .tokenlen, .tokenptr, ' ')
4337 4395 2 then
4338 4396 2 if nullparameter (3)
4339 4397 2 then
4340 4398 2 return LIB$SIGNAL(UAF$_REMDEF)
4341 4399 2 else
4342 4400 2 return LIB$SIGNAL(UAF$_RENDEF);
4343 4401 2
4344 4402 2 if ch$eql (.sysuser<0,8>, sysuser+1, .tokenlen, .tokenptr, ' ')
4345 4403 2 then
4346 4404 2 begin
4347 4405 2 if nullparameter (3)
4348 4406 2 then
4349 4407 2 return LIB$SIGNAL(UAF$_REMSYS)
4350 4408 2 else
4351 4409 2 return LIB$SIGNAL(UAF$_RENSYS);
4352 4410 2 end;
4353 4411 2 end;
4354 4412 2
4355 4413 2 if locate_user (.tokenlen, .tokenptr, .lock_record)
4356 4414 2 then return true;
4357 4415 2
4358 4416 2 if .rmserr eql rms$_rnf
4359 4417 2 then
4360 4418 2 LIB$SIGNAL(UAF$_BADUSR, 2, .tokenlen, .tokenptr)
4361 4419 2 else
4362 4420 2 LIB$SIGNAL(UAF$_GETERR, 0, .rmserr);

```

: 4363  
: 4364

4421 2 false  
4422 1 end;

				07FC 00000 GET_USER_RECORD:							
			5A	00000000G	00	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10	4308	
			59	00000000'	00	9E	00009	MOVAB	LIB\$SIGNAL, R10		
			58	00000000'	00	9E	00010	MOVAB	SD TOKEN1, R9		
			7	00000000'	00	9E	00017	MOVAB	RENAME_PH2, R8		
			1F		68	E9	0001E	MOVAB	TOKENLEN, R7		
			07		10	A7	E9	00021	BLBC	RENAME_PH2, 2\$	4355
						7E	D4	00025	BLBC	NETUAF_EXISTS, 1\$	4358
		E796	CF		01	FB	00027	CLRL	-(SP)	4359	
			56		04	A8	D0	0002C	CALLS	#1, ADJUST_PROXY	
			50		04	A7	D0	00030	MOVL	OLDUSERLEN, R6	4360
60		08	A8		56	28	00034	MOVL	TOKENPTR, R0		
			67		56	B0	00039	MOVW	R6, OLDUSERNAME, (R0)		
					68	94	0003C	MOVW	R6, TOKENLEN	4361	
					45	11	0003E	CLRB	RENAME_PH2	4362	
					59	DD	00040	BRB	5\$	4355	
		00000000G	00		01	FB	00042	PUSHL	R9	4374	
			12		50	E9	00049	CALLS	#1, CLISPRESNT		
					57	DD	0004C	BLBC	R0, 3\$		
					59	DD	0004E	PUSHL	R7	4375	
		00000000G	00		02	FB	00050	PUSHL	R9		
			04		50	E9	00057	CALLS	#2, CLISGE_VALUE		
					67	B5	0005A	BLBC	R0, 3\$		
					08	12	0005C	TSTW	TOKENLEN	4376	
				00000000G	8F	DD	0005E	BNEQ	4\$		
			03		7B	11	00064	PUSHL	#UAF\$_NOUSERNAME	4377	
					6C	91	00066	BRB	11\$		
					1A	1F	00069	CMPB	(AP), #3	4382	
					AC	D5	0006B	BLSSU	5\$		
				0C	15	13	0006E	TSTL	12(AP)		
					67	3C	00070	BEQL	5\$		
			56		A7	D0	00073	MOVZWL	TOKENLEN, R6	4385	
20			50		56	2C	00077	MOVL	TOKENPTR, R0		
			60		A8		0007C	MOVW	R6, (R0), #32, #32, OLDUSERNAME		
					56	D0	0007E	MOVW	R6, OLDUSERLEN	4386	
				04	01	90	00082	MOVW	#1, RENAME_PH2	4387	
					AC	E8	00085	BLBS	PERMANENT_OK, 12\$	4391	
					79	9A	00089	MOVZBL	DEFUSER, R1	4394	
					A7	D0	0008E	MOVZBL	DEFUSER, R1		
67					51	2D	00092	MOVL	TOKENPTR, R0		
					60		00099	CMPC5	R1, DEFUSER+1, #32, TOKENLEN, (R0)		
					1A	12	0009A	BNEQ	8\$		
					6C	91	0009C	CMPB	(AP), #3	4396	
					05	1F	0009F	BLSSU	6\$		
					AC	D5	000A1	TSTL	12(AP)		
				0C	08	12	000A4	BNEQ	7\$		
					8F	DD	000A6	PUSHL	#UAF\$_REMDEF	4398	
					33	11	000AC	BRB	11\$		
					8F	DD	000AE	PUSHL	#UAF\$_RENDEF	4400	

67	20	0151	51	0150	2B 11 000B4	BRB	11\$		
			50	04	C9 9A 000B6	MOVZBL	SYSUSER, R1		4402
			C9		A7 D0 000BB	MOVL	TOKENPTR, R0		
					51 2D 000BF	CMPC5	R1, SYSUSER+1, #32, TOKENLEN, (R0)		
					60 000C6				
					1C 12 000C7	BNEQ	12\$		
			03		6C 91 000C9	CMPB	(AP), #3		4405
					05 1F 000CC	BLSSU	9\$		
				0C	AC D5 000CE	TSTL	12(AP)		
					08 12 000D1	BNEQ	10\$		
				00000000G	8F DD 000D3	PUSHL	#UAF\$_REMSYS		4407
					06 11 000D9	BRB	11\$		
				00000000G	8F DD 000DB	PUSHL	#UAF\$_REMSYS		4409
			6A		01 FB 000E1	CALLS	#1, LIB\$SIGNAL		
					04 000E4	RET			
				04	AC DD 000E5	PUSHL	LOCK RECORD		4413
				04	A7 DD 000E8	PUSHL	TOKENPTR		
			7E		67 3C 000EB	MOVZWL	TOKENLEN, -(SP)		
			00000000V		03 FB 000EE	CALLS	#3, LOCATE_USER		
					50 E9 000F5	BLBC	R0, 13\$		
					50 01 D0 000F8	MOVL	#1, R0		4414
					04 000FB	RET			
				50	A7 D0 000FC	MOVL	RMSERR, R0		4416
			000182B2		50 D1 00100	CPL	R0, #98994		
					13 12 00107	BNEQ	14\$		
				04	A7 DD 00109	PUSHL	TOKENPTR		4418
			7E		67 3C 0010C	MOVZWL	TOKENLEN, -(SP)		
					02 DD 0010F	PUSHL	#2		
				00000000G	8F DD 00111	PUSHL	#UAF\$_BADUSR		
			6A		04 FB 00117	CALLS	#4, LIB\$SIGNAL		
					0D 11 0011A	BRB	15\$		
					50 DD 0011C	PUSHL	R0		4420
					7E D4 0011E	CLRL	-(SP)		
				00000000G	8F DD 00120	PUSHL	#UAF\$_GETERR		
			6A		03 FB 00126	CALLS	#3, LIB\$SIGNAL		
					50 D4 00129	CLRL	R0		4422
					04 0012B	RET			

: Routine Size: 300 bytes, Routine Base: \$CODE\$ + 25D3

locate\_user - lookup user record in UAF

```

: 4366      4423 1 %sbttl 'locate_user - lookup user record in UAF'
: 4367      4424 1 routine locate_user (size, buffer, lock_record) =
: 4368      4425 2 begin
: 4369      4426 2
: 4370      4427 2 |++
: 4371      4428 2
: 4372      4429 2 FUNCTIONAL DESCRIPTION:
: 4373      4430 2
: 4374      4431 2     Routine to locate a user record in the UAF file.
: 4375      4432 2
: 4376      4433 2 INPUTS:
: 4377      4434 2
: 4378      4435 2     SIZE - size of the username string
: 4379      4436 2     BUFFER - address of the username string
: 4380      4437 2     LOCK_RECORD - specifies that the GET shall lock the record
: 4381      4438 2
: 4382      4439 2 IMPLICIT INPUTS:
: 4383      4440 2
: 4384      4441 2     UAFRAB - RMS data structure for SYSUAF.DAT
: 4385      4442 2
: 4386      4443 2 OUTPUTS:
: 4387      4444 2
: 4388      4445 2     none
: 4389      4446 2
: 4390      4447 2 IMPLICIT OUTPUTS:
: 4391      4448 2
: 4392      4449 2     If record is found, RECBUF contains the located record.
: 4393      4450 2
: 4394      4451 2 ROUTINE VALUE:
: 4395      4452 2
: 4396      4453 2     true -> record found
: 4397      4454 2     false -> record not found
: 4398      4455 2
: 4399      4456 2 SIDE EFFECTS:
: 4400      4457 2
: 4401      4458 2     none
: 4402      4459 2 --
: 4403      4460 2
: 4404      4461 2 local
: 4405      4462 2     found;                                ! record found indicator
: 4406      4463 2
: 4407      4464 2 found = true;                             ! assume record was found
: 4408      4465 2
: 4409      4466 2 ch$copy (.size, .buffer, %char (' '),
: 4410      4467 2     uaf$s_username, recbuf[uaf$t_username]);
: 4411      4468 2
: 4412      4469 2 if .lock_record
: 4413      4470 2 then uafrab[rab$l_rop] = rab$m_rlk
: 4414      4471 2 else uafrab[rab$l_rop] = rab$m_rrl or rab$m_nlk;
: 4415      4472 2
: 4416      4473 2 if not (rmserr = get_uaf_record ())
: 4417      4474 2 then found = false;
: 4418      4475 2
: 4419      4476 2 return .found;                             ! return indicator
: 4420      4477 1 end;

```

				00FC	00000	LOCATE_USER:				
		57	00000000'	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7	: 4424	
		56		01	D0	00009	MOVAB	UAFRAB+4, R7	: 4464	
20	20	08	BC	04	AC	2C	000CC	MOVL	#1, FOUND	: 4467
			FA18	C7		00013	MOVCS	SIZE, @BUFFER, #32, #32, RECBUF+4	: 4469	
		09	OC	AC	E9	00016	BLBC	LOCK RECORD 1\$	: 4470	
		67	00080000	8F	D0	0001A	MOVL	#524288, UA RAB+4	: 4471	
				07	11	00021	BRB	2\$	: 4473	
		67	00100008	8F	D0	00023	1\$:	MOVL	#1048584, UAFRAB+4	: 4473
	00000000V	00		00	FB	0C02A	2\$:	CALLS	#0, GET UAF_REC RD	: 4474
	FAOC	C7		50	D0	00031	MOVL	R0, RMSERR	: 4476	
		02		50	E8	00036	BLBS	RU, 3\$	: 4477	
		50		56	D4	00039	CLRL	FOUND	: 4476	
				56	D0	0003B	3\$:	MOVL	FOUND, R0	: 4477
				04	00	0003E	RET			

: Routine Size: 63 bytes, Routine Base: \$CODE\$ + 26FF

```

: 4422      4478 1 %sbttl 'get_uaf_record - routine to deal with record locking'
: 4423      4479 1 routine get_uaf_record =
: 4424      4480 2 begin
: 4425      4481 2
: 4426      4482 2 |++
: 4427      4483 2 |
: 4428      4484 2 | FUNCTIONAL DESCRIPTION:
: 4429      4485 2 |
: 4430      4486 2 |     A common routine to GE* records from SYSUAF.DAT, deal with retries
: 4431      4487 2 |     when the record is locked.
: 4432      4488 2 |
: 4433      4489 2 | INPUTS:
: 4434      4490 2 |
: 4435      4491 2 |     none
: 4436      4492 2 |
: 4437      4493 2 | IMPLICIT INPUTS:
: 4438      4494 2 |
: 4439      4495 2 |     UAFRAB - RMS data structure for SYSUAF.DAT
: 4440      4496 2 |
: 4441      4497 2 | OUTPUTS:
: 4442      4498 2 |
: 4443      4499 2 |     none
: 4444      4500 2 |
: 4445      4501 2 | IMPLICIT OUTPUTS:
: 4446      4502 2 |
: 4447      4503 2 |     RECBUF - The user's record
: 4448      4504 2 |
: 4449      4505 2 | ROUTINE VALUE:
: 4450      4506 2 |
: 4451      4507 2 |     RMS status code
: 4452      4508 2 |
: 4453      4509 2 | SIDE EFFECTS:
: 4454      4510 2 |
: 4455      4511 2 |     none
: 4456      4512 2 | --
: 4457      4513 2 |
: 4458      4514 2 | local
: 4459      4515 2 |     counter,           ! number of retries remaining
: 4460      4516 2 |     success;
: 4461      4517 2 |
: 4462      4518 2 |
: 4463      4519 2 |     If anybody's record is locked it shouldn't remain that way for long.
: 4464      4520 2 |     Also, ignore the special system password record.
: 4465      4521 2 |
: 4466      4522 2 |
: 4467      4523 2 | counter = retry_rlk;
: 4468      4524 4 | while ( ((success = $get (rab = uafrab)) eq rms$ rlk)
: 4469      4525 3 |         or ch$eq(UAF$$ USERNAME, RECBUF[UAF$T USERNAME],
: 4470      4526 3 |             17, uplit(%ascii '<System+Passwörd>'), %c' ' ) )
: 4471      4527 3 |         and ( (counter = .counter - 1) geq 0)
: 4472      4528 2 | do
: 4473      4529 2 |     if $schdwk (daytim = wakedelta) then $hiter;
: 4474      4530 2 |
: 4475      4531 2 | .success
: 4476      4532 1 | end;

```



```

get_cmd_line - input user command line
: 4478 4533 1 %sbttl 'get_cmd_line - input user command line'
: 4479 4534 1 routine get_cmd_line =
: 4480 4535 2 begin
: 4481 4536 2
: 4482 4537 2 |++
: 4483 4538 2
: 4484 4539 2 FUNCTIONAL DESCRIPTION:
: 4485 4540 2
: 4486 4541 2     This routine reads in the command line from the user,
: 4487 4542 2     reading additional lines if continuation is specified by
: 4488 4543 2     a '-' as the last character on the input line.
: 4489 4544 2     A zero byte is inserted following the last input character read.
: 4490 4545 2
: 4491 4546 2 INPUTS:
: 4492 4547 2
: 4493 4548 2     none
: 4494 4549 2
: 4495 4550 2 IMPLICIT INPUTS:
: 4496 4551 2
: 4497 4552 2     CMDBUF - buffer to receive the user's command line
: 4498 4553 2     CMDBUFLEN - literal length of CMDBUF
: 4499 4554 2
: 4500 4555 2 OUTPUTS:
: 4501 4556 2
: 4502 4557 2     none
: 4503 4558 2
: 4504 4559 2 IMPLICIT OUTPUTS:
: 4505 4560 2
: 4506 4561 2     CMDBUF is filled with command line
: 4507 4562 2
: 4508 4563 2 ROUTINE VALUE:
: 4509 4564 2
: 4510 4565 2     none
: 4511 4566 2
: 4512 4567 2 SIDE EFFECTS:
: 4513 4568 2
: 4514 4569 2     none
: 4515 4570 2 --
: 4516 4571 2
: 001 **NEW** 4572 2     local
: 002 **NEW** 4573 2     STATUS;
: 003 **NEW** 4574 2
: 004 **NEW** 4575 2     do
: 005 **NEW** 4576 2     STATUS = LIB$GET_INPUT(CMDLINDSC, %ascid'UAF> ')
: 006 **NEW** 4577 2     until CMDLINDSC[DSC$Q_LENGTH] neq 0 or .STATUS egl RMS$_EOF;
: 007 **NEW** 4578 2
: 008 **NEW** 4579 2     if .STATUS egl RMS$_EOF then
: 009 **NEW** 4580 2     exit_uaf();
: 010 **NEW** 4581 2
: 011 **NEW** 4582 2     return .STATUS;
: 4569-52 4583 2
: 4570 4584 2 end;

```

.PSECT SPLITS, NOWRT, NOEXE, 2



get\_cmd\_line - input user command line

F 1  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 v4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

00 00 00 20 3E 46 41 55 008A4 P.AFL: .ASCII \UAF> \<0><0><0>  
010E0005 008AC P.AFK: .LONG 17694725  
0000C000 008B0 .ADDRESS P.AFL

.PSECT \$CODE\$,NOWRT,2

		000C 00000	GET_CMD_LINE:			
	53	00000000'	00 9E 00602	.WORD	Save R2,R3	: 4534
		00000000'	00 9F 00009	MOVAB	CMDLINDSC, R3	: 4576
			53 DD 0000F	PUSHAB	P.AFK	
00000000G	00		02 FB 00011	PUSHL	R3	
	52		50 D0 00018	CALLS	#2, LIB\$GET_INPUT	
	50		63 9E 0001B	MOVL	R0, STATUS	
			09 12 0001E	MOVAB	CMDLINDSC, R0	: 4577
0001827A	8F		52 D1 00020	BNEQ	2\$	
			E0 12 00027	CMPL	STATUS, #98938	
0001827A	8F		52 D1 00029	BNEQ	1\$	
			07 12 00030	CMPL	STATUS, #98938	: 4579
00000000V	00		00 FB 00032	BNEQ	3\$	
	50		52 D0 00039	CALLS	#0, EXIT UAF	: 4580
			04 0003C	MOVL	STATUS, R0	: 4582
				RET		: 4584

; Routine Size. 61 bytes, Routine Base: \$CODE\$ + 2791

ask - prompt terminal for input

```

: 4572 4585 1 %sbttl 'ask - prompt terminal for input'
: 4573 4586 1 global routine ask (string, buffer, len) : novalue =
: 4574 4587 2 begin
: 4575 4588 2
: 4576 4589 2 |++
: 4577 4590 2
: 4578 4591 2 FUNCTIONAL DESCPTION:
: 4579 4592 2
: 4580 4593 2 Routine to prompt user for input. The input string is read
: 4581 4594 2 into the user specified buffer and the size read
: 4582 4595 2 is placed in the global INSIZE.
: 4583 4596 2
: 4584 4597 2 INPUTS:
: 4585 4598 2
: 4586 4599 2 STRING - the address of a counted ascii prompt string
: 4587 4600 2 BUFFER - address of the input buffer
: 4588 4601 2 LEN - length of the input buffer
: 4589 4602 2
: 4590 4603 2 IMPLICIT INPUTS:
: 4591 4604 2
: 4592 4605 2 none
: 4593 4606 2
: 4594 4607 2 OUTPUTS:
: 4595 4608 2
: 4596 4609 2 none
: 4597 4610 2
: 4598 4611 2 IMPLICIT OUTPUTS:
: 4599 4612 2
: 4600 4613 2 INSIZE - size of the input string
: 4601 4614 2
: 4602 4615 2 ROUTINE VALUE:
: 4603 4616 2
: 4604 4617 2 none
: 4605 4618 2
: 4606 4619 2 SIDE EFFECTS:
: 4607 4620 2
: 4608 4621 2 none
: 4609 4622 2 --
: 4610 4623 2
: 4611 4624 2 map
: 4612 4625 2 buffer : ref vector[,byte];
: 4613 4626 2
: 4614 4627 2 inrab[rab$l_pbf] = .string + 1; ! prompt string address
: 4615 4628 2 inrab[rab$b_psz] = . (.string)<0,8>; ! prompt size
: 4616 4629 2 inrab[rab$l_ubf] = .buffer; ! buffer address
: 4617 4630 2 inrab[rab$w_usz] = .len; ! buffer size
: 4618 4631 2
: 4619 4632 2
: 4620 4633 2 ! If end of file encountered on get (either ^Z from terminal or
: 4621 4634 2 ! end of file on indirect command file) then take exit path.
: 4622 4635 2
: 4623 4636 2
: 4624 4637 2 if $get (rab=inrab) eql rms$_ecf
: 4625 4638 2 then exit_uaf ();
: 4626 4639 2
: 4627 4640 2 if (insize = .inrab[rab$w_rsz]) neq 0 ! get input size
: 4628 4641 2 then

```

ask - prompt terminal for input

```

: 4629      4642 3      begin
: 4630      4643 3      incru i to .insize - 1
: 4631      4644 3      do
: 4632      4645 4          begin
: 4633      4646 4              if .buffer[i] gequ 'a' and .buffer[i] lequ 'z'
: 4634      4647 4                  then buffer[i] = .buffer[i] and not %o'040';
: 4635      4648 4                  end;
: 4636      4649 3      end;
: 4637      4650 1      end;

```

! Upcasing is done here because the CVT  
! option does not work under batch.

				0004	0000		.ENTRY	ASK, Save R2		4586
				00	9E	00002	MOVAB	INSIZE, R2		
0090	C2	04	AC	01	C1	00009	ADDL3	#1, STRING, INRAB+48		4627
		0094	C2	04	BC	90	MOVAB	@STRING, INRAB+52		4628
		0084	C2	08	AC	D0	MOVL	BUFFER, INRAB+36		4629
		0080	C2	0C	AC	B0	MOVW	LEN, INRAB+32		4630
				60	A2	9F	PUSHAB	INRAB		4637
		00000000G	00	01	FB	00025	CALLS	#1, SYSSGET		
		0001827A	8F	50	D1	0002C	CMPL	R0, #98938		
				07	12	00033	BNEQ	1\$		
		00000000V	00	00	FB	00035	CALLS	#0, EXIT_UAF		4638
			62	0082	C2	3C	MOVZWL	INRAB+34, INSIZE		4640
					24	13	BEQL	5\$		
	51		62		01	C3	SUBL3	#1, INSIZE, R1		4643
					50	D4	CLRL	I		
					17	11	BRB	4\$		
		61	8F	08	BC40	91	CMPB	@BUFFER[I], #97		4646
					06	1F	BLSSU	3\$		
		7A	8F	08	BC40	91	CMPB	@BUFFER[I], #122		
					05	1A	BGTRU	3\$		
		08	BC40		20	8A	BICB2	#32, @BUFFER[I]		4647
					50	D6	INCL	I		4643
			51		50	D1	CMPL	I, R1		
					E4	1B	BLEQU	2\$		
					04	00067	RET			4650

; Routine Size: 104 bytes, Routine Base: \$CODE\$ + 27CE

```

4639 4651 1 %sbttl 'fmt_sys_msg - output system message file message'
4640 4652 1 global routine fmt_sys_msg (faostr, msgid, p1) : novalue =
4641 4653 2 begin
4642 4654 2
4643 4655 2 |++
4644 4656 2
4645 4657 2 FUNCTIONAL DESCRIPTION:
4646 4658 2
4647 4659 2 This routine outputs an error message followed by
4648 4660 2 the text found in the system message file for the
4649 4661 2 error condition. If the message is not found, the message
4650 4662 2 ID itself is printed.
4651 4663 2
4652 4664 2 INPUTS:
4653 4665 2
4654 4666 2 FAOSTR - address of counted ascii message to be printed
4655 4667 2 MSGID - error number
4656 4668 2 P1 - the first of possibly several parameters to FAO
4657 4669 2
4658 4670 2 IMPLICIT INPUTS:
4659 4671 2
4660 4672 2 None
4661 4673 2
4662 4674 2 OUTPUTS:
4663 4675 2
4664 4676 2 None
4665 4677 2
4666 4678 2 IMPLICIT OUTPUTS:
4667 4679 2
4668 4680 2 None
4669 4681 2
4670 4682 2 ROUTINE VALUE:
4671 4683 2
4672 4684 2 None
4673 4685 2
4674 4686 2 SIDE EFFECTS:
4675 4687 2
4676 4688 2 None
4677 4689 2 --
4678 4690 2
4679 4691 2 local
4680 4692 2 buffer : vector [200, byte], ! buffer to receive message
4681 4693 2 bufdsc : vector [2, long], ! string descriptor
4682 4694 2 code; ! save return code
4683 4695 2
4684 4696 2 bufdsc[0] = 200; ! construct string descriptor
4685 4697 2 buidsc[1] = buffer;
4686 4698 2
4687 4699 2 code - %grtmsg (msgid = .msgid, msglen = bufdsc[0], bufadr = bufdsc[0]);
4688 4700 2
4689 4701 2
4690 4702 2 ! Output internal message. Then output system error or error number.
4691 4703 2
4692 4704 2 faodsc[dsc$w_length] = . (faostr)<0,8>; ! input string descriptor
4693 4705 2 faodsc[dsc$a_pointer] = .faostr+1;
4694 4706 2 $faol (ctrstr = faodsc
P 4706 2
4695 4707 2 outlen = outrab[rab$w_rsz],

```



```

: 4706      4717 1 %sbttl 'faout - output formatted message'
: 4707      4718 1 global routine faout (string, p1) =
: 4708      4719 2 begin
: 4709      4720 2
: 4710      4721 2 |++
: 4711      4722 2 |
: 4712      4723 2 | FUNCTIONAL DESCRIPTION:
: 4713      4724 2 |
: 4714      4725 2 |     Routine to output a formatted string.
: 4715      4726 2 |
: 4716      4727 2 | INPUTS:
: 4717      4728 2 |
: 4718      4729 2 |     STRING - address of a counted ASCII FAO control string.
: 4719      4730 2 |     P1 - the first of possibly several parameters to FAO
: 4720      4731 2 |
: 4721      4732 2 | IMPLICIT INPUTS:
: 4722      4733 2 |
: 4723      4734 2 |     none
: 4724      4735 2 |
: 4725      4736 2 | OUTPUTS:
: 4726      4737 2 |
: 4727      4738 2 |     none
: 4728      4739 2 |
: 4729      4740 2 | IMPLICIT OUTPUTS:
: 4730      4741 2 |
: 4731      4742 2 |     none
: 4732      4743 2 |
: 4733      4744 2 | ROUTINE VALUE:
: 4734      4745 2 |
: 4735      4746 2 |     FAOOUT always returns FALSE, as it is often used on the
: 4736      4747 2 |     return from an error condition.
: 4737      4748 2 |
: 4738      4749 2 | SIDE EFFECTS:
: 4739      4750 2 |
: 4740      4751 2 |     none
: 4741      4752 2 | --
: 4742      4753 2 |
: 4743      4754 2 |
: 4744      4755 2 faodsc[dsc$w_length] = . (.string)<0,8>;           ! input string descriptor
: 4745      4756 2 faodsc[dsc$a_pointer] = .string+1;
: 4746      4757 2 $faol (ctrstr = faodsc,
: 4747      4758 2     outlen = outrab[rab$w_rsz],
: 4748      4759 2     outbuf = disdsc,
: 4749      4760 2     prmlst = p1);
: 4750      4761 2
: 4751      4762 2 $put (rab = outrab);
: 4752      4763 2
: 4753      4764 2 false
: 4754      4765 1 end;

```

```

0004 0000
52 00000000' 00 9E 00002
62 04 BC 9B 00009

```

```

.ENTRY FAOOUT, Save R2
MOVAB FAODSC, R2
MOVZBW @STRING, FAODSC

```

```

: 4718
: 4755

```



```

: 4756      4766 1 %sbttl 'help_uaf - help routine'
: 4757      4767 1 global routine help_uaf : novalue =
: 4758      4768 2 begin
: 4759      4769 2
: 4760      4770 2 |++
: 4761      4771 2 |
: 4762      4772 2 | FUNCTIONAL DESCRIPTION:
: 4763      4773 2 |
: 4764      4774 2 |     Print out the help message or messages.
: 4765      4775 2 |
: 4766      4776 2 | INPUTS:
: 4767      4777 2 |
: 4768      4778 2 |     none
: 4769      4779 2 |
: 4770      4780 2 | OUTPUTS:
: 4771      4781 2 |
: 4772      4782 2 |     none
: 4773      4783 2 |
: 4774      4784 2 | ROUTINE VALUE:
: 4775      4785 2 |
: 4776      4786 2 |     none
: 4777      4787 2 |
: 4778      4788 2 | SIDE EFFECTS:
: 4779      4789 2 |
: 4780      4790 2 |     none
: 4781      4791 2 | --
: 4782      4792 2 |
: 4783      4793 2 | map
: 4784      4794 2 |     cmdlindsc: vector;
: 4785      4795 2 |
: 4786      4796 2 | local
: 4787      4797 2 |     line_dsc      : vector [2];
: 4788      4798 2 |
: 4789      4799 2 | line_dsc[0] = .cmdlindsc[0];
: 4790      4800 2 | line_dsc[1] = .cmdlindsc[1];
: 4791      4801 2 |
: 4792      4802 2 | :
: 4793      4803 2 | : The first thing to do is to remove 'help' from the command line
: 4794      4804 2 | : and give the help routine the remainder of the command line.
: 4795      4805 2 | : Find the beginning of the word 'help'.
: 4796      4806 2 | :
: 4797      4807 2 | : if (.line_dsc[1])<0,8> eql ' '
: 4798      4808 2 | : then
: 4799      4809 2 | :     begin
: 4800      4810 2 | :         line_dsc[1] = ch$find_not_ch (.line_dsc[0], .line_dsc[1], ' ');
: 4801      4811 2 | :         line_dsc[0] = .line_dsc[0] - (.line_dsc[1] - .cmdlindsc[1]);
: 4802      4812 2 | :     end;
: 4803      4813 2 | :
: 4804      4814 2 | :
: 4805      4815 2 | : Now skip past the 'help' to the first blank (if there is one)
: 4806      4816 2 | :
: 4807      4817 2 | : if ch$fail (line_dsc[1] = ch$find_ch (.line_dsc[0], .line_dsc[1], ' '))
: 4808      4818 2 | : then
: 4809      4819 2 | :
: 4810      4820 2 | :     No blank, set empty string
: 4811      4821 2 | :
: 4812      4822 2 | :     line_dsc[0] = 0

```



```
4813 4823 2 else
4814 4824 2
4815 4825 2     Found a blank, set pointer to it
4816 4826 2
4817 4827 2     line_dsc[0] = .cmdlindsc[0] - (.line_dsc[1] - .cmdlindsc[1]);
4818 4828 2
4819 4829 2
4820 4830 2     Start an interactive HELP session
4821 4831 2
4822 4 32 2
4823 4833 2 if not lbr$output_help (lib$put_output, 0, line_dsc,
4824 4834 2     $descriptor ('uafhelp'), 0,
4825 4835 2     lib$get_input)
4826 4836 2 then LIB$SIGNAL(UAF$_HELPERR);
4827 4837 2
4828 4838 1 end;
```

```
.PSECT $PLITS$,NOWRT,NOEXE,2
70 6C 65 68 66 61 75 008B4 P.AFN: .ASCII \uafhelp\
008BB .BLKB 1
000C0007 008BC P.AFM: .LOPIG 7
00000000' 008C0 .ADDRESS P.AFN
```

```
.PSECT $CODE$,NOWRT,2
000C 00000 .ENTRY HELP_UAF, Save R2,R3 : 4767
SE 04 C2 00002 SUBL2 #4, SP : 4767
53 00000000' 00 D0 00005 MOVL CMDLINDSC, R3 : 4799
53 DD 0000C PUSHL R3 : 4799
04 52 00000000' 00 D0 0000E MOVL CMDLINDSC+4, R2 : 4800
AE 52 D0 00015 MOVL R2, LINE_DSC+4 : 4800
20 04 BE 91 00019 CMPB @LINE_DSC+4, #32 : 4807
15 12 0001D BNEQ 2$ : 4807
04 BE 6E 20 3B 0001F SKPC #32, LINE_DSC, @LINE_DSC+4 : 4810
02 12 00024 BNEQ 1$ : 4810
51 D4 00026 CLRL R1 : 4810
04 AE 51 D0 00028 1$: MOVL R1, LINE_DSC+4 : 4811
52 04 AE C3 0002C SUBL3 LINE_DSC+4, R2, R0 : 4811
6E 6E 50 C0 00031 ADDL2 R0, [LINE_DSC : 4811
04 BF 6E 20 3A 00034 2$: LOCC #32, LINE_DSC, @LINE_DSC+4 : 4811
02 12 00039 BNEQ 3$ : 4811
51 D4 0003B CLRL R1 : 4811
04 AE 51 D0 0003D 3$: MOVL R1, LINE_DSC+4 : 4811
04 12 00041 BNEQ 4$ : 4811
6E D4 00043 CLRL LINE_DSC : 4822
09 11 00045 BRB 5$ : 4822
50 52 04 AE C3 00047 4$: SUBL3 LINE_DSC+4, R2, R0 : 4827
6E 50 53 C1 0004C ADDL3 R3, R0, LINE_DSC : 4827
00000000G 00 9F 00050 5$: PUSHAB LIB$GET_INPUT : 4833
7E D4 00056 CLRL -(SP) : 4833
00000000' 00 9F 00058 PUSHAB P.AFM : 4834
OC AE 9F 0005E PUSHAB LINE_DSC : 4833
```

UAFMAIN  
V04-000

help\_uaf - help routine

B 2  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

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(39)

		7E	D4	00061	CLRL	-(SP)	
		00	9F	00063	PUSHAB	LIB\$PUT OUTPUT	
00000000G	00	06	FB	00069	CALLS	#6, LBR\$OUTPUT_HELP	
	0D	50	E8	00070	BLBS	R0, 6\$	
		8F	DD	00073	PUSHL	#UAF\$_HELPERR	4836
00000000G	00	01	FB	00079	CALLS	#1, LIB\$SIGNAL	4838
		04	00080	6\$:	RET		

; Routine Size: 129 bytes, Routine Base: \$CODE\$ + 28E7

exit\_uaf - normal exit routine

```

: 4830      4839 1 %sbttl 'exit_uaf - normal exit routine'
: 4831      4840 1 global routine exit_uaf : novalue =
: 4832      4841 2 begin
: 4833      4842 2
: 4834      4843 2 :++
: 4835      4844 2
: 4836      4845 2 : FUNCTIONAL DESCRIPTION:
: 4837      4846 2
: 4838      4847 2 :     Normal exit routine.
: 4839      4848 2
: 4840      4849 2 : INPUTS:
: 4841      4850 2
: 4842      4851 2 :     none
: 4843      4852 2
: 4844      4853 2 : OUTPUTS:
: 4845      4854 2
: 4846      4855 2 :     none
: 4847      4856 2
: 4848      4857 2 : ROUTINE VALUE:
: 4849      4858 2
: 4850      4859 2 :     none
: 4851      4860 2
: 4852      4861 2 : SIDE EFFECTS:
: 4853      4862 2
: 4854      4863 2 :     image exits
: 4855      4864 2 :--
: 4856      4865 2
: 4857      4866 2 $close (fab = uaffab);
: 4858      4867 2
: 4859      4868 2
: 4860      4869 2 : Inform user of file modifications.
: 4861      4870 2
: 4862      4871 2
: 4863      4872 2 if .modify_flag
: 4864      4873 2 then
: 4865      4874 2
: 4866      4875 2 : File has been modified
: 4867      4876 2
: 4868      4877 2 :     LIBSSIGNAL(UAF$_DONEMSG)           ! tell user all is done
: 4869      4878 2 else
: 4870      4879 2
: 4871      4880 2 : Here, no modifications were made to file.
: 4872      4881 2
: 4873      4882 2 :     LIBSSIGNAL(UAF$_NOCHANGES);
: 4874      4883 2
: 4875      4884 2 if .netuaf_exists
: 4876      4885 2 then
: 4877      4886 2 : begin
: 4878      4887 2 :     if not .netuaf_modified
: 4879      4888 2 :     then
: 4880      4889 2 :         LIBSSIGNAL(UAF$_NAFNOMODS)
: 4881      4890 2 :     else
: 4882      4891 2 :         LIBSSIGNAL(UAF$_NAFDONEMSG);
: 4883      4892 2 :     end;
: 4884      4893 2
: 4885      4894 2 if .rdb_exists
: 4886      4895 2 then

```

```

: 4887      4896      3      begin
: 4888      4897      3      if .rightslist_modified
: 4889      4898      3      then
: 4890      4899      3      |
: 4891      4900      3      | File has been modified
: 4892      4901      3      |
: 4893      4902      3      |     LIB$SIGNAL(UAF$_RDBDONEMSG)
: 4894      4903      3      |
: 4895      4904      3      | else
: 4896      4905      3      |
: 4897      4906      3      |     Here, no modifications were made to file.
: 4898      4907      3      |
: 4899      4908      3      |     LIB$SIGNAL(UAF$_RDBNOMODS);
: 4900      4909      3      | end ;
: 4901      4910      2      $exit (code = true);
: 4902      4911      1      end;

```

.EXTRN SYS\$EXIT

		001C 0006J	.ENTRY	EXIT UAF, Save R2,R3,R4	: 484
54	00000000'	00 9E 00002	MOVAB	UAF\$R4, R4	
53	00000000'	00 9E 00009	MOVAB	NETUAF_EXISTS, R3	
52	00000000G	00 9E 00010	MOVAB	LIB\$SIGNAL, R2	
		54 DD 00017	PUSHL	R4	: 4866
00000000G	00	01 FB 00019	CALLS	#1, SYS\$CLOSE	
	F154	C4 E9 00020	BLBC	MODIFY_FLAG, 1\$	: 4872
	00000000G	8F DD 00025	PUSHL	#UAF\$_DONEMSG	: 4877
		06 11 00028	BRB	2\$	
	00000000G	8F DD 0002D 1\$:	PUSHL	#UAF\$_NOMODS	: 4882
62		01 FB 00033 2\$:	CALLS	#1, LIB\$SIGNAL	
16		63 E9 00036	BLBC	NETUAF_EXISTS, 5\$	: 4884
08	F158	C4 E8 00039	BLBS	NETUAF_MODIFIED, 3\$	: 4887
	00000000G	8F DD 0003E	PUSHL	#UAF\$_NAFNOMODS	: 4889
		06 11 00044	BRB	4\$	
	00000000G	8F DD 00046 3\$:	PUSHL	#UAF\$_NAFDONEMSG	: 4891
62		01 FB 0004C 4\$:	CALLS	#1, LIB\$SIGNAL	
15	04	A3 E9 0004F 5\$:	BLBC	RDB_EXISTS, 8\$	: 4894
08	0C	A3 E9 00053	BLBC	RIGHTSLIST_MODIFIED, 6\$	: 4897
	00000000G	8F DD 00057	PUSHL	#UAF\$_RDBDONEMSG	: 4902
		06 11 0005D	BRB	7\$	
	00000000G	8F DD 0005F 6\$:	PUSHL	#UAF\$_RDBNOMODS	: 4907
62		01 FB 00065 7\$:	CALLS	#1, LIB\$SIGNAL	
		01 DD 00068 8\$:	PUSHL	#1	: 4910
00000000G	00	01 FB 0006A	CALLS	#1, SYS\$EXIT	
		04 00071	RET		: 4911

: Routine Size: 114 bytes, Routine Base: \$CODE\$ + 2968

UAFMAIN  
V04-000

SIGNAL\_SYNTAX - Report missing qualifier

F 2  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFMAIN.B32;1

```

: 4904      4912  1 %sbttl 'SIGNAL_SYNTAX - Report missing qualifier'
: 4905      4913  1 global routine-SIGNAL_SYNTAX: novalue =
: 4906      4914  2 begin
: 4907      4915  2
: 4908      4916  2     LIB$SIGNAL(UAF$_ZISQUAL);
: 4909      4917  2
: 4910      4918  1 end;

```

```

                                0000 0000
                                8F DD 00002
00000000G 00 00000000G 01 FB 00008
                                04 0000F

```

```

.ENTRY SIGNAL_SYNTAX, Save nothing
PUSHL #UAF$_ZISQUAL
CALLS #1, LIB$SIGNAL
RET

```

```

: 4913
: 4916
: 4918

```

; Routine Size: 16 bytes, Routine Base: \$CODE\$ + 29DA

acc\$exit - exit and cleanup routine

```

: 4912      4919 1 %sbttl 'acc$exit - exit and cleanup routine'
: 4913      4920 1 routine acc$exit : novalue =
: 4914      4921 2 begin
: 4915      4922 2
: 4916      4923 2 |++
: 4917      4924 2 |
: 4918      4925 2 | FUNCTIONAL DESCRIPTION:
: 4919      4926 2 |
: 4920      4927 2 |     Exit on error condition.
: 4921      4928 2 |
: 4922      4929 2 | INPUTS:
: 4923      4930 2 |
: 4924      4931 2 |     none
: 4925      4932 2 |
: 4926      4933 2 | OUTPUTS:
: 4927      4934 2 |
: 4928      4935 2 |     none
: 4929      4936 2 | --
: 4930      4937 2 |
: 4931      4938 2 $exit ();
: 4932      4939 1 end;

```

0000 0000 ACC\$EXIT:

```

                                .WORD   Save nothing
                                PUSHL   #1
00000000G 00                    01 DD 00002
                                CALLS  #1, SYS$EXIT
                                01 FB 00004
                                04 0000B
                                RET

```

: 4920  
: 4938  
: 4939

; Routine Size: 12 bytes, Routine Base: \$CODE\$ + 29EA

```

: 4934      4940 1 %sbttl 'UAF$MOD SYS_PWD -- modify the system password'
: 4935      4941 1 global routine UAF$MOD_SYS_PWD: novalue =
: 4936      4942 2 begin
: 4937      4943 2
: 4938      4944 2 |++
: 4939      4945 2 |
: 4940      4946 2 | Functional Description:
: 4941      4947 2 |
: 4942      4948 2 |         Modify the system password record by doing a $PUT on the UAF
: 4943      4949 2 |         with the UIF bit set for the username '<System+Password>'
: 4944      4950 2 |
: 4945      4951 2 | --
: 4946      4952 2 |
: 4947      4953 2 | local
: 4948      4954 2 |
: 4949      4955 2 |     RBF:
: 4950      4956 2 |     PWD: block[DSC$K_D_BLN, byte]
: 4951      4957 2 |     preset([DSC$B_CLASS] = DSC$K_CLASS_D),
: 4952      4958 2 |     ROP:
: 4953      4959 2 |
: 4954      4960 2 |
: 4955      4961 2 |         Save current settings
: 4956      4962 2 |
: 4957      4963 2 |
: 4958      4964 2 | RBF = .UAFRAB[RAB$RBF];
: 4959      4965 2 | ROP = .UAFRAB[RAB$ROP];
: 4960      4966 2 |
: 4961      4967 2 |
: 4962      4968 2 |         Get new password and encrypt it
: 4963      4969 2 |
: 4964      4970 2 |
: 4965      4971 2 | CLISGET_VALUE(%ascid'SYSTEM_PASSWORD', PWD);
: 4966      4972 2 |
: 4967      4973 2 | if .PWD[DSC$W_LENGTH] neq 0 then
: 4968      4974 2 |     LGISHPWD(REC_ENCRYPT_DSC, PWD, UAF$C_PURDY_V, 0, %ASCID'<System+Password>')
: 4969      4975 2 | else
: 4970      4976 2 |     ch$fill(0, UAF$S_PWD, RECBUF[UAF$Q_PWD]);
: 4971      4977 2 |
: 4972      4978 2 |
: 4973      4979 2 |         Fill in fields of the UAF record
: 4974      4980 2 |
: 4975      4981 2 |
: 4976      4982 2 | ch$copy(17, UPLIT('<System+Password>'), '
: 4977      4983 2 |     UAF$S_USERNAME, RECBUF[UAF$T_USERNAME]);
: 4978      4984 2 | RECBUF[UAF$W_SALT] = 0;
: 4979      4985 2 |
: 4980      4986 2 |
: 4981      4987 2 |         Modify the RAB for our needs
: 4982      4988 2 |
: 4983      4989 2 |
: 4984      4990 2 | UAFRAB[RAB$V_UIF] = 1;
: 4985      4991 2 | UAFRAB[RAB$W_RSZ] = UAF$C_LENGTH;
: 4986      4992 2 | UAFRAB[RAB$I_RBF] = RECBUF;
: 4987      4993 2 |
: 4988      4994 2 |
: 4989      4995 2 |         Modify the system password
: 4990      4996 2 |

```

```

: 4991      4997 2
: 4992      4998 2 $PUT(RAB=UAFRAB);
: 4993      4999 2
: 4994      5000 2
: 4995      5001 2
: 4996      5002 2
: 4997      5003 2
: 4998      5004 2 UAFRAB[RAB$SL_RBF] = .RBF;
: 4999      5005 2 UAFRAB[RAB$SL_ROP] = .ROP;
: 5000      5006 2
: 5001      5007 1 end;

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2
44 52 4F 57 53 53 41 50 5F 4D 45 54 53 59 53 008C4 P.AFP: .ASCII \SYSTEM_PASSWORD\<0>
: 00 008D3
: 010E000F 008D4 P.AFO: .LONG 17694735
: 00000000' 008D8 P.AFD: .ADDRESS P.AFP
72 6F 77 73 73 61 50 28 6D 65 74 73 79 53 3C 008DC P.AFR: .ASCII \<System+Password>\<0><0><0>
: 00 00 00 3E 64 008EB
: 010EC011 008F0 P.AFQ: .LONG 17694737
: 00000000' 008F4 P.AFD: .ADDRESS P.AFR
72 6F 77 73 73 61 50 28 6D 65 74 73 79 53 3C 008F8 P.AFS: .ASCII \<System+Password>\<0><0><0>
: 00 00 00 3E 64 00907

```

```

.PSECT $CODE$,NOWRT,2
: 03FC 00000
.ENTRY UAF$MOD_SYS_PWD, Save R2,R3,R4,R5,R6,R7,R8,-; 4941
: R9
MOVAB P.AFO, R9
MOVAB UAFRAB+40, R8
SUBL2 #4, SP
PUSHL #33554432
CLRL PWD+4
MOVL UAFRAB+40, RBF
MOVL UAFRAB+4, ROP
PUSHR #*M<R9,SP>
CALLS #2, CLISGET_VALUE
TSTW PWD
BEQL 1$
PUSHAB P.AFQ
MOVQ #2, -(SP)
PUSHAB PWD
PUSHAB REC_ENCRYPT_DSC
CALLS #5, LGISHPWD
BRB 2$
MOVCS #0, (SP), #0, #8, RECBUF+340
: 4957
: 4964
: 4965
: 4971
: 4973
: 4974
: 4976
: 4983
: 4984
: 4990
: 4991

```



UAFMAIN  
V04-000

UAF\$MOD\_SYS\_PWD -- modify the system password

1 2  
8-Jan-1985 17:24:07  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0.742  
[UAF.BUGSRC]UAFMAIN.B32:1

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	68	F9F0	C8	9E	00067
		DB	A8	9F	0006C
00000000G	00		01	FB	0006F
	68		57	D0	00076
DC	A8		56	D0	00079
			04	0007D	

MOVAB	RECBUF, UAFRAB+40
PUSHAB	UAFRAB
CALLS	#1, SYSSPUT
MOVL	RBF, UAFRAB+40
MOVL	ROP, UAFRAB+4
RET	

: 4992  
: 4998  
: 5004  
: 5005  
: 5007

; Routine Size: 126 bytes, Routine Base: \$CODE\$ + 29F6

UAF  
VC

```

security_audit - perform a security audit
: 5003      5008 1 %sbttl 'security_audit - perform a security audit'
: 5004      5009 1 routine security_audit (code, old_usr) : novalue =
: 5005      5010 2 begin
: 5006      5011 2
: 5007      5012 2 |++
: 5008      5013 2 |
: 5009      5014 2 | FUNCTIONAL DESCRIPTION:
: 5010      5015 2 |
: 5011      5016 2 |     Perform a security audit, if needed.
: 5012      5017 2 |
: 5013      5018 2 | INPUTS:
: 5014      5019 2 |
: 5015      5020 2 |     CODE - Security audit record id
: 5016      5021 2 |     OLD_USER - Old username (optional depending on the record id)
: 5017      5022 2 |
: 5018      5023 2 | IMPLICIT INPUTS:
: 5019      5024 2 |
: 5020      5025 2 |     PCB_STS - This process's PCB status
: 5021      5026 2 |     UAF$GQ_SYSUAF - SYSUAF fields modified
: 5022      5027 2 |
: 5023      5028 2 | OUTPUTS:
: 5024      5029 2 |
: 5025      5030 2 |     none
: 5026      5031 2 |
: 5027      5032 2 | IMPLICIT OUTPUTS:
: 5028      5033 2 |
: 5029      5034 2 |     none
: 5030      5035 2 |
: 5031      5036 2 | ROUTINE VALUE:
: 5032      5037 2 |
: 5033      5038 2 |     none
: 5034      5039 2 |
: 5035      5040 2 | SIDE EFFECTS:
: 5036      5041 2 |
: 5037      5042 2 |     none
: 5038      5043 2 |
: 5039      5044 2 | --
: 5040      5045 2 |
: 5041      5046 2 | external routine
: 5042      5047 2 |     nsa$event_audit:           ! Kernel mode auditing routine
: 5043      5048 2 |
: 5044      5049 2 | external
: 5045      5050 2 |     nsa$gr_alarmvec : block [,byte], ! Security audit alarm vector
: 5046      5051 2 |     nsa$gr_journvec : block [,byte]; ! Security audit journal vector
: 5047      5052 2 |
: 5048      5053 2 | macro
: 5049      5054 2 |     add_quad_packet(type, a_quad) = ! Add a quadword packet to list
: 5050      5055 2 |     begin
: 5051      5056 2 |     (.arglist_ptr)<0,16> = %name('nsa$sk_pkttyp_', type);
: 5052      5057 2 |     arglist_ptr = .arglist_ptr + 2;
: 5053      5058 2 |     (.arglist_ptr)<0,16> = nsa$sk_arg_mech_quad;
: 5054      5059 2 |     arglist_ptr = .arglist_ptr + 2;
: 5055      5060 2 |     (.arglist_ptr)<0,32> = (.a_quad)<0,32>;
: 5056      5061 2 |     arglist_ptr = .arglist_ptr + 4;
: 5057      5062 2 |     (.arglist_ptr)<0,32> = (.a_quad)<32,32>;
: 5058      5063 2 |     arglist_ptr = .arglist_ptr + 4;
: 5059      5064 2 |     arglist[nsa$b_arg_pktnum] = .arglist[nsa$b_arg_pktnum] + 1;

```



```

: 5117          5122          netbuf[naf$t_node]);
: 5118          P 5123          add_descr_packet(username,
: 5119          P 5124          namelen(naf$s_remuser, netbuf[naf$t_remuser]),
: 5120          5125          netbuf[naf$t_remuser]);
: 5121          P 5126          add_descr_packet(username,
: 5122          P 5127          namelen(naf$s_localuser, netbuf[naf$t_localuser]),
: 5123          5128          netbuf[naf$t_localuser]);
: 5124          5129          if .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_netuaf_mod
: 5125          5130          then
: 5126          5131          begin
: 5127          P 5132          add_descr_packet(nodenam,
: 5128          P 5133          namelen(naf$s_node, netbuf[naf$t_node]),
: 5129          5134          netbuf[naf$t_node]);
: 5130          P 5135          add_descr_packet(username,
: 5131          P 5136          namelen(naf$s_remuser, netbuf[naf$t_remuser]),
: 5132          5137          netbuf[naf$t_remuser]);
: 5133          P 5138          add_descr_packet(username,
: 5134          P 5139          namelen(uaf$s_username, .old_user),
: 5135          5140          .old_user);
: 5136          5141          end;
: 5137          5142          end;
: 5138          5143          arglist[nsa$l_arg_count] = (.arglist_ptr - (arglist + 4)) / 4; ! Set # args
: 5139          5144          $cmkrnl(routin = nsa$event_audit, arglist = arglist); ! Do the security audit
: 5140          5145          $cmkrnl(routin = nsa$event_audit, arglist = arglist); ! Do the security audit
: 5141          5146          $cmkrnl(routin = nsa$event_audit, arglist = arglist); ! Do the security audit
: 5142          5147          $cmkrnl(routin = nsa$event_audit, arglist = arglist); ! Do the security audit
: 5143          5148          1 end;

```

```

.EXTRN NSASEVENT_AUDIT
.EXTRN NSASGR_ALARMVEC
.EXTRN NSASGR_JOURNVEC
.EXTRN SYSSCMKRNL

```

007C 0000 SECURITY\_AUDIT:

						.WORD	Save R2,R3,R4,R5,R6	5009
		56	00000000'	00	9E	00002	MOVAB	NETBUF, R6
		5E	AC	AE	9E	00009	MOVAB	-84(SP), SP
0054	8F	00		00	2C	0000D	MOVCS	#0, (SP), #0, #84, ARGLIST
				6E		00014		5084
		04	00000000G	00	02	E1	BBC	#2, NSASGR_ALARMVEC, 1\$
			08	AE	01	88	BISB2	#1, ARGLIST+8
		04	00000000G	00	02	E1	BBC	#2, NSASGR_JOURNVEC, 2\$
			08	AE	02	88	BISB2	#2, ARGLIST+8
		04	00000000'	00	03	E1	BBC	#3, PCB_STS+3, 3\$
			08	AE	04	88	BISB2	#4, ARGLIST+8
				08	AE	95	TSTB	ARGLIST+8
				01	12	0003C	BNEQ	4\$
				04	04	0003E	RET	
		04		AE	04	AC	MOVL	CODE, ARGLIST+4
				52	0C	AE	MOVAB	ARGLIST+12, ARGLIST_PTR
				02	04	AE	CMPW	ARGLIST+4, #2
					3C	12	BNEQ	6\$
				02	06	AE	CMPW	ARGLIST+6, #2
					0F	13	BEQL	5\$
		82	00030012	8F	D0	00054	MOVL	#196626, (ARGLIST_PTR)+
								5105
								5107

		82	F9F8	C6	7D	0005B		MOVQ	UAF\$GQ SYSUAFF, (ARGLIST_PTR)+	
			09	AF	96	00060		INCB	ARGLIST+9	
FAB0	C6	82	0004000A	8F	D0	00063	5\$:	MOVL	#262154, (ARGLIST_PTR)+	5110
	82	20		20	3A	0006A		LOCC	#32, #32, RECBUF+2	
		20		50	C3	00070		SUBL3	R0, #32, (ARGLIST_PTR)+	
		82	FAB0	C6	9E	00074		MOVAB	RECBUF+4, (ARGLIST_PTR)+	
			09	AE	96	00079		INCB	ARGLIST+9	
		04	06	AE	B1	0007C		CMPL	ARGLIST+6, #4	5111
				7D	13	00080		BEQL	2\$	
		05	06	AE	B1	00082		CMPL	ARGLIST+6, #5	5112
				49	12	00086		BNEQ	7\$	
				75	11	00088		BRB	8\$	5116
		82	00040009	8F	D0	0008A	6\$:	MOVL	#262153, (ARGLIST_PTR)+	5122
	66	20		20	3A	00091		LOCC	#32, #32, NETBUF	
	82	20		50	C3	00095		SUBL3	R0, #32, (ARGLIST_PTR)+	
		82		66	9E	00099		MOVAB	NETBUF, (ARGLIST_PTR)+	
			09	AE	96	0009C		INCB	ARGLIST+9	
20	A6	82	0004000A	8F	D0	0009F		MOVL	#262154, (ARGLIST_PTR)+	5125
	82	20		20	3A	000A6		LOCC	#32, #32, NETBUF+32	
		20		50	C3	000AB		SUBL3	R0, #32, (ARGLIST_PTR)+	
		82	20	A6	9E	000AF		MOVAB	NETBUF+32, (ARGLIST_PTR)+	
			09	AE	96	000B3		INCB	ARGLIST+9	
40	A6	82	0004000A	8F	D0	000B6		MOVL	#262154, (ARGLIST_PTR)+	5128
	82	20		20	3A	000BD		LOCC	#32, #32, NETBUF+64	
		20		50	C3	000C2		SUBL3	R0, #32, (ARGLIST_PTR)+	
		82	40	A6	9E	000C6		MOVAB	NETBUF+64, (ARGLIST_PTR)+	
			09	AE	96	000CA		INCB	ARGLIST+9	
		03	06	AE	B1	000CD		CMPL	ARGLIST+6, #3	5129
				43	12	000D1	7\$:	BNEQ	9\$	
		82	00040009	8F	D0	000D3		MOVL	#262153, (ARGLIST_PTR)+	5134
	66	20		20	3A	000DA		LOCC	#32, #32, NETBUF	
	82	20		50	C3	000DE		SUBL3	R0, #32, (ARGLIST_PTR)+	
		82		66	9E	000E2		MOVAB	NETBUF, (ARGLIST_PTR)+	
			09	AE	96	000E5		INCB	ARGLIST+9	
20	A6	82	0004000A	8F	D0	000E8		MOVL	#262154, (ARGLIST_PTR)+	5137
	82	20		20	3A	000EF		LOCC	#32, #32, NETBUF+32	
		20		50	C3	000F4		SUBL3	R0, #32, (ARGLIST_PTR)+	
		82	20	A6	9E	000F8		MOVAB	NETBUF+32, (ARGLIST_PTR)+	
			09	AE	96	000FC		INCB	ARGLIST+9	
08	BC	82	0004000A	8F	D0	000FF	8\$:	MOVL	#262154, (ARGLIST_PTR)+	5140
	82	20		20	3A	00106		LOCC	#32, #32, OLD USER	
		82	08	AC	D0	0010F		SUBL3	R0, #32, (ARGLIST_PTR)+	
			09	AE	96	00113		MOVAB	OLD USER, (ARGLIST_PTR)+	
		50	04	AE	9E	00116	9\$:	INCB	ARGLIST+9	5141
		52		50	C2	0C 1A		MOVAB	ARGLIST+4, R0	
6E		52		04	C7	0011D		SUBL2	R0, R2	
				5E	DD	00121		DIVL3	#4, R2, ARGLIST	
			00000000G	00	9F	00123		PUSHL	SP	5146
			00000000G	00	FB	00129		PUSHAB	NSASEVENT AUDIT	
				02	FB	00129		CALLS	#2, SYS\$CMKRNL	
				04	00	00130		RET		5148

: Routine Size: 305 bytes, Routine Base: \$CODE\$ + 2A74



0450 AH-EF71A-SE  
VAX/VMS V4.1 SRC LST MCRF UPD

A grid of 16 columns and 16 rows of source code listings. Each cell contains a small window of text, likely a snippet of a program or a specific section of code. The text is dense and appears to be a mix of comments and code lines. Some windows contain more prominent text, such as 'LAFMAIN LIS' in the 5th row, 4th column, and 'LAF' and 'AUTHORIZE MAP' in the 10th row, 1st column. The overall appearance is that of a microfilm strip or a high-density printed document.

