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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      NN      NN
UU      UU      AA        AA  FF        MM      MM      AA        AA  II      NN      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

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LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLL  IIIIII  SSSSSSSS

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.....

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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 *
12 0012 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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28 0028 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
29 0029 1 *
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY:      System Management Utility Program
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1     This program allows the system manager to maintain the user
38 0038 1     authorization file which contains usernames, passwords, quotas,
39 0039 1     and defaults. The following functions are provided:
40 0040 1
41 0041 1     ADD - add a new user record to the authorization file (UAF)
42 0042 1     COPY - copy a user record, give copied record a new name
43 0043 1     DEFAULT - change a default value
44 0044 1     EXIT - exit program and update file
45 0045 1     HELP - ask for explanation
46 0046 1     LIST - complete list of records to file
47 0047 1     MODIFY - change one or more values for a user
48 0048 1     REMOVE - remove a user record
49 0049 1     RENAME - rename a user record (COPY; REMOVE)
50 0050 1     SHOW - display the values from a user record
51 0051 1
52 0052 1 ENVIRONMENT:
53 0053 1
54 0054 1 AUTHOR:      Henry M. Levy, CREATION DATE: 1-June-1977
55 0055 1
56 0056 1 MODIFIED BY:
57 0057 1

```

58	0058	1	V03-024	JRL0036	John R. Lawson, Jr.	07-Aug-1984 17:08
59	0059	1				
60	0060	1				Hide UPGRADE, DOWNGRADE, TMPJNL, PRMJNL privileges. This
61	0061	1				is a temporary work-around; it is marked in the right-hand
62	0062	1				margin with !** in routine PRINT_PRIV.
63	0063	1	V03-023	JRL0027	John R. Lawson, Jr.	25-Jul-1984 11:01
64	0064	1				Add MODIFY/SYSTEM_PASSWORD=xxxxx to modify the system
65	0065	1				password.
66	0066	1	V03-022	JRL0029	John R. Lawson, Jr.	25-Jul-1984 10:47
67	0067	1				Find better names for UAF\$_NEWMSG10 and UAF\$_NEWMSG15
68	0068	1	V03-021	JRL0020	John R. Lawson, Jr.	09-Jul-1984 15:51
69	0069	1				Bark when a proxy name is changed with the RENAME command.
70	0070	1	V03-020	JRL0017	John R. Lawson, Jr.	02-Jul-1984 22:13
71	0071	1				Modify GET_UAF_RECORD so that it does not get the system
72	0072	1				password record.
73	0073	1	V03-029	JRL0013	John R. Lawson, Jr.	02-Jul-1984 12:28
74	0074	1				Display privileges of users in groups less than .EXESGL_SYSUIC
75	0075	1				as 'ALL'.
76	0076	1	V03-028	JRL0010	John R. Lawson, Jr.	25-Jun-1984 15:56
77	0077	1				Changed 'x'/'-' to '#'/'-' in primary/secondary access
78	0078	1				display.
79	0079	1	V03-027	JRL0008	John R. Lawson, Jr.	21-Jun-1984 14:00
80	0080	1				Add support for the /PWDEXPIRED qualifier (pre-expired
81	0081	1				password).
82	0082	1	V03-026	JRL0006	John R. Lawson, Jr.	20-Jun-1984 12:28
83	0083	1				Obliterate operator's console messages
84	0084	1	V03-025	JRL0002	John R. Lawson, Jr.	15-Jun-1984 09:55
85	0085	1				Change all internal messages to calls to LIB\$SIGNAL and
86	0086	1				the message utility -- place all messages in UAFMSG.MSG
87	0087	1	V03-024	LY0494	Larry Yetto	11-JUN-1984 12:59
88	0088	1				Fix noise error message coming from ADD/ID/USER=* caused
89	0089	1				by a flag not properly being set
90	0090	1	V03-023	MHB0150	Mark Bramhall	2-May-1984
91	0091	1				Remove unused reference to TPARSE definitions.
92	0092	1				Add DISRECONNECT flag.
93	0093	1				Add security auditing for SYSUAF/NETUAF changes.
94	0094	1	V03-022	LY0474	Larry Yetto	9-APR-1984 08:32
95	0095	1				Zero the login failure and last login fields
96	0096	1				on a copy operation.
97	0097	1	V03-021	LY0466	Larry Yetto	22-MAR-1984 13:52
98	0098	1				Add support for the rights data base functions
99	0099	1	V03-020	ACG0397	Andrew C. Goldstein,	24-Feb-1984 23:21
100	0100	1				Clean up display formatting
101	0101	1				
102	0102	1				
103	0103	1				
104	0104	1				
105	0105	1				
106	0106	1				
107	0107	1				
108	0108	1				
109	0109	1				
110	0110	1				
111	0111	1				
112	0112	1				
113	0113	1				
114	0114	1				

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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.

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: 172
: 173
: 174
: 175
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: 177
: 178
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: 180

0172 1 !
0173 1 !
0174 1 !
0175 1 !
0176 1 !
0177 1 !
0178 1 !
0179 1 !
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.

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

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: 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;

```



```

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$exit ())%,
304 M 0398 1
305 M 0399 1      :
306 M 0400 1      : Macros to check for success or failure from RMS
307 M 0401 1      rmsbad (string) = (not (rmserr = string)) %,
308 M 0402 1      rmsok (string) = (rmserr = string) %,
309 M 0403 1
310 M 0404 1      :
311 M 0405 1      : Macros to set up and write an FAO string.
312 M 0406 1      faomac (faomsg)[] =
313 M 0407 1          begin
314 M 0408 1              faodsc[dsc$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) = $descriptor (a)%;
335 M 0429 1
336 P 0430 1      sd (
337 P 0431 1          'token1',          'token2',          'brief',          'full',
338 P 0432 1          'add_identifier',    'remove_identifier',
339 P 0433 1          'modify_identifier'
340 P 0434 1      );
341 M 0435 1
342 M 0436 1      field
343 M 0437 1          descr_fields =          ! Define the fields for a DESCRIPTOR
344 M 0438 1              set
345 M 0439 1                  length = [dsc$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 0452 1
359 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 0460 1 own
367 0461 1 sd_attribresource : qualstr_desc ('attributes.resource') ;
368 0462 1
369 0463 1
370 0464 1 EQUATED SYMBOLS:
371 0465 1
372 0466 1 literal
373 0467 1 cmdbufmax = 508, ; maximum command length
374 0468 1 false = 0, ; logical false
375 0469 1 true = 1, ; logical true
376 0470 1 update_records = 0, ; flag for proxy file adjustment
377 0471 1 remove_records = 1,
378 0472 1 copy_flag = 1, ; used in routine copy_uaf
379 0473 1 rename_flag = 1, ; used in routine rename_uaf
380 0474 1 byte_length = 8, ; bits per byte
381 0475 1 word_length = 16, ; bits per word
382 0476 1 long_length = 32, ; bits per longword
383 0477 1 retry_rlk = 8, ; number of retries for a locked record
384 0478 1 sleep_rlk = 500, ; ms to sleep before retrying
385 0479 1 cr = 13,
386 0480 1 lf = 10,
387 0481 1 zero = 0,
388 0482 1 cmdbuflen = 1024; ; size of user command buffer
389 0483 1
390 0484 1 global literal
391 0485 1 encrypt = uaf$c_purdy_v, ; encryption algorithm to use
392 0486 1 disbuflen = 132; ; size of display file output buffer
393 0487 1
394 0488 1 bind
395 0489 1 sysuaf_string = uplit byte ('SYSUAF'),
396 0490 1 netuaf_string = uplit byte ('NETUAF'),
397 0491 1 mod_act_desc = $descriptor ('modified'),
398 0492 1 add_act_desc = $descriptor ('added'),
399 0493 1 rem_act_desc = $descriptor ('removed'),
400 0494 1 fao_lin_desc = $descriptor ('PID=!XL !AS !AS !AS record !AS on !XD'),
401 0495 1 dbl_colon = $descriptor ('::'),
402 0496 1
403 0497 1 Define the system delta time to sleep before retrying to GET a locked record.
404 0498 1
405 0499 1 wakedelta = uplit long (-10*1000*sleep_rlk,-1),
406 0500 1
407 0501 1 Default values for authorization file record. These values are
408 0502 1 only used when a new authorization file is created. If the file
409 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  | defclitabl = cstring ('DCLTABLES'), | default CLI tables
: 416      0510 1  | defacct    = 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  | defdiolm  = 6,                 | default direct I/O limit
: 427      0521 1  | deffillm  = 20,                | default open file limit
: 428      0522 1  | defflags  = 0,                 | default flag bits
: 429      0523 1  | deftcnt   = 10,                | default time queue entries
: 430      0524 1  | defprcnt  = 2,                 | default subprocess count
: 431      0525 1  | defpri    = 4,                 | default process priority
: 432      0526 1  | defquepri = 4,                 | default queue priority
: 433      0527 1  | defwsquota = 200,              | default working set limit
: 434      0528 1  | defdfwscnt = 150,              | "default" working set default size
: 435      0529 1  | defwsextent = 500,             | default working set extent
: 436      0530 1  | defcpulim = 0,                 | default CPU time quota
: 437      0531 1  | defastlim = 10,                | default AST queue limit
: 438      0532 1  | defpgflquota = 10000,          | default paging file limit in pages
: 439      0533 1  | defenqlm  = 10,                | 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 = 1024,            | default maximum detached processes
: 445      0539 2  | defprimedays = (               | default job-wide logical table quota
: 446      0540 2  |               (1 ^ $bitposition (uaf$var_saturday)) or
: 447      0541 3  |               (1 ^ $bitposition (uaf$var_sunday))
: 448      0542 1  |               ),
: 449      0543 1  | defhours   = 0,                | default all hours to allow access
: 450      0544 1  | defpriv    = uplit (           | default privilege vector
: 451      0545 2  |               (
: 452      0546 2  |               (1 ^ $bitposition (prv$var_netmbx)) or
: 453      0547 3  |               (1 ^ $bitposition (prv$var_tmpmbx))
: 454      0548 1  |               ), 0),
: 455      0549 1  | defpwdlength = 6,              | default min password length
: 456      0550 1  | defpwdlife  = uplit (0,0),     | default password lifetime
: 457      0551 1  |
: 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  | sysacct   = cstring ('SYSTEM'),
: 466      0560 1  | syscli    = cstring ('DCL'),

```

```

: 467      0561 1      sysowner      = cstring ('SYSTEM MANAGER'),
468      0562 1      syslgicmd     = cstring (''),
: 469      0563 1      sysgrp       = %'1',
470      0564 1      system       = %'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      sysprcct    = 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 (%'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, disbuf) ;
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       : $fab (                    ! FAB for terminal I/O
: 540      P 0634 1      fac = (get, put),
: 541      P 0635 1      rat = cr,
: 542      P 0636 1      fnm = 'SYS$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 = disbuflen,
    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$c_bln, byte], ! RAB for output
: 690 0784 1 uaf$gg_sysuaff : block [nsa_s_sysuaff, byte], ! SYSUAF auditing flags
: 691 0785 1 uaf$gl_ctlmsk : block [2], ! Control mask for AUTHORIZE
: 692 0786 1 by_account : long initial (false), ! processing by account
: 693 0787 1 match_token : vector [naf$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_CCLASS] = DSC$b_CLASS_D),
:699-1     0794 1      netuaf_exists,      ! A self-explanatory flag...
:700      0795 1      rdb_exists      : long,
:701      0796 1      rmserr      : long,      ! save rms error codes here
:702      0797 1      rightslist_modified : byte,      ! RIGHTSLIST modified flag
:703      0798 1
:704      0799 1      Record buffer for file I/O. Records are generally read into RECBUF,
:705      0800 1      modified, and output.
:706      0801 1
:707      0802 1      recbuf      : block [uaf$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$c_length,
:728      P 0823 1      rac = key,
:729      P 0824 1      fab = naf$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$$_username, recbuf [uaf$t_username]),
: 760      0855 1          rec_encrypt_dsc = uplit (uaf$$_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$_NETLSTMSG,
: 796      0891 1          UAF$_NAOFIL,      UAF$_NAONAF,      UAF$_NOARG,
: 797      0892 1          UAF$_NODEFPWD,    UAF$_NODTOOBIG,   UAF$_NOMODS,
: 798      0893 1          UAF$_NOTUNQ,      UAF$_NOUSERNAME,  UAF$_PREMMSG,
: 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$_REMMSG,
: 802      0897 1          UAF$_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
: 812      0906 1++
: 813      0907
: 814      0908 2 FUNCTIONAL DESCRIPTION:
: 815      0909
: 816      0910      Main procedure of AUTHORIZE. Call SETUP to initialize
: 817      0911      all needed files. Prompt the user for the functions which
: 818      0912      he/she wants, and call the proper function service routine.
: 819      0913
: 820      0914 2 INPUTS:
: 821      0915
: 822      0916      none
: 823      0917
: 824      0918 2 IMPLICIT INPUTS:
: 825      0919
: 826      0920      none
: 827      0921
: 828      0922 2 OUTPUTS:
: 829      0923
: 830      0924      None
: 831      0925
: 832      0926 2 IMPLICIT OUTPUTS:
: 833      0927
: 834      0928      none
: 835      0929
: 836      0930 2 ROUTINE VALUE:
: 837      0931
: 838      0932      none
: 839      0933
: 840      0934 2 SIDE EFFECTS:
: 841      0935
: 842      0936      none
: 843      0937 2 --
: 844      0938
: 845      0939 2 own
: 846      0940      status;
: 847      0941
: 854-6    0942 2 rightslist_modified = false;
: 855      0943 2 netuaf_modified = false;
: 856      0944 2 modify_flag = false;
: 857      0945
: 858      0946
: 859      0947 2 Set up terminal I/O
: 860      0948
: 861      0949
: 862      0950 2 if rmsbad (status = $open (fab = infab))
: 863      0951 2 then
: 864      0952 2     signal_stop (.status);
: 865      0953
: 866      0954 2 if rmsbad (status = $connect (rab = inrab))
: 867      0955 2 then
: 868      0956 2     signal_stop (.status);
: 869      0957
: 870      0958 2 $create (fab = outfab);

```

! note no modifications

```

start - controlling code
: 871      0959 2 $connect (rab = outrab);
: 872      0960
: 873      0961
: 874      0962
: 875      0963
: 876      0964
: 877      0965
: 878      0966
: 879      0967
:001 **NEW** 0968
:002 **NEW** 0969
:003 **NEW** 0970
:004 **NEW** 0971
:005 **NEW** 0972
:006 **NEW** 0973
:007 **NEW** 0974
:008 **NEW** 0975
889-9     0976
890      0977
891      0978
892      0979
893      0980
894      0981
895      0982
896      0983
897      0984
898      0985
899      0986
900      0987
901      0988
902      0989
903      0990
904      0991
905      0992
906      0993
907      0994
908      0995
909      0996
910      0997
911      0998
912      0999
913      1000
914      1001
915      1002
916      1003
:001 **NEW** 1004
918-1     1005
919      1006
920      1007
921      1008
922      1009
923      1010
924      1011
925      1012
926      1013
927      1014
: 928      1015

: Files have been initialized. Prompt user for command line
: and perform requested function.
:
: if lib$get_foreign (cmdlindsc) and .cmdlindsc [DSC$W_LENGTH] neq 0
: then
:   : If defined foreign, and there are commands on the line...
:   begin
:     if (status = cli$dcl_parse (cmdlindsc, authorize_commands, 0, LIB$GET_INPUT, %ascid'UAF> '))
:     then
:       begin
:         cli$dispatch ();
:         return true;
:       end
:     else
:       : See if no CLINT exists (Kludge City, USA 37916)
:       if .status eql cli$_noclint
:       then
:         signal_stop (cli$_noclint)
:       else
:         acc$exit ()
:       end;
:   end;
: while true
: do
:   begin
:     : Input the command line, taking care of continuations. Pull off
:     : the first token, assuming it is the command name, and look it up
:     : in the table of commands.
:     :
:     if get_cmd_line ()
:     then
:       if (status = cli$dcl_parse (cmdlindsc, authorize_commands, 0, LIB$GET_INPUT, %ascid'UAF> '))
:       then
:         begin
:           ch$fill (0, uaf$s_flags, uaf$gl_ctlmsk);
:           cli$dispatch ();
:         end
:       else
:         if .status eql cli$_noclint
:         then
:           signal_stop (cli$_noclint)
:         end;
:   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 6B 6F 74 00000 P.AAB: .ASCII \token1\
                                00006 .BLKB 2
                                00008 P.AAA: .LONG 6
                                0000C .ADDRESS P.AAB
32 6E 65 6B 6F 74 00010 P.AAD: .ASCII \token2\
                                00016 .BLKB 2
                                00018 P.AAC: .LONG 6
                                0001C .ADDRESS P.AAD
66 65 69 72 62 00020 P.AAF: .ASCII \brief\
                                00025 .BLKB 3
                                00028 P.AAE: .LONG 5
                                0002C .ADDRESS P.AAF
6C 6C 75 66 00030 P.AAH: .ASCII \full\
                                00034 P.AAG: .LONG 4
                                00038 .ADDRESS P.AAH
72 65 69 66 69 74 6E 65 64 69 5F 64 64 61 0003C P.AAJ: .ASCII \add_identifier\
                                0004A .BLKB 2
                                0004C P.AAI: .LONG 14
                                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
                                00065 P.AAK: .LONG 17
                                00068 P.AAN: .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
                                00081 P.AAM: .LONG 17
                                00084 P.AAO: .ADDRESS P.AAN
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 P.AAP: .ASCII \SYSUAF\
                                46 41 55 53 59 53 0009F P.AAQ: .ASCII \NETUAF\
                                46 41 55 54 45 4E 000A5 P.AAS: .ASCII \modified\
64 65 69 66 69 64 6F 6D 000AB .BLKB 1
                                000B3 P.AAR: .LONG 8
                                000B4 P.AAU: .ADDRESS P.AAS
                                000B8 P.AAU: .ASCII \added\
                                64 65 64 64 61 000BC .BLKB 3
                                000C1 P.AAT: .LONG 5
                                000C4 P.AAW: .ADDRESS P.AAU
                                000C8 P.AAW: .ASCII \removed\
64 65 76 6F 6D 65 72 000CC .BLKB 1
                                000D3 P.AAV: .LONG 7
                                000D4 P.AAY: .ADDRESS P.AAW
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

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44 25 21 20 6E 6F 20 000FA
                                00101
                                00000025 00104 P.AAX: .BLKB 3
                                00000000 00108 P.AAX: .LONG 37
                                3A 3A 0010C P.ABA: .ADDRESS P.AAY
                                0010E P.ABA: .ASCII \::\
                                00000002 00110 P.AAZ: .BLKB 2
                                00000000 00114 P.AAZ: .LONG 2
                                FFFFFFFF FFB3B4C0 00118 P.ABB: .ADDRESS P.ABA
                                07 00120 P.ABB: .LONG -5000000, -1
54 4C 55 41 46 45 44 00121 P.ABC: .BYTE 7
                                04 00128 P.ABD: .ASCII \DEFAULT\
                                52 45 53 55 00129 P.ABD: .BYTE 4
                                09 0012D P.ABE: .ASCII \USER\
53 45 4C 42 41 54 4C 43 44 0012E P.ABE: .BYTE 9
                                00 00137 P.ABE: .ASCII \DCLTABLES\
                                00138 P.ABF: .BYTE 0
                                00138 P.ABF: .BLKB 0
                                4C 43 44 00139 P.ABG: .BYTE 3
                                00 0013C P.ABG: .ASCII \DCL\
                                0013D P.ABH: .BYTE 0
                                00 0013D P.ABH: .BLKB 0
                                0013E P.ABI: .BYTE 0
                                0013E P.ABI: .BLKB 0
                                5D 52 45 53 55 06 0013E P.ABJ: .BYTE 6
                                5B 0013F P.ABJ: .ASCII \[USER]\
                                00 00145 P.ABK: .BYTE 0
                                00146 P.ABK: .BLKB 0
                                00146 P.ABK: .BLKB 2
                                00000000 00108000 00148 P.ABL: .LONG 1081344, 0
                                00000000 00000000 00150 P.ABL: .LONG 0, 0
                                06 00158 P.ABM: .BYTE 6
4D 45 54 53 59 53 00159 P.ABM: .ASCII \SYSTEM\
                                07 0015F P.ABO: .BYTE 7
52 45 47 41 4E 41 4D 00160 P.ABO: .ASCII \MANAGER\
                                09 00167 P.ABP: .BYTE 9
53 45 4C 42 41 54 4C 43 44 00168 P.ABP: .ASCII \DCLTABLES\
                                06 00171 P.ABQ: .BYTE 6
                                4D 45 54 53 59 53 00172 P.ABQ: .ASCII \SYSTEM\
                                03 00178 P.ABR: .BYTE 3
                                4C 43 44 00179 P.ABR: .ASCII \DCL\
                                0E 0017C P.ABS: .BYTE 14
52 45 47 41 4E 41 4D 20 4D 45 54 53 59 53 0017D P.ABS: .ASCII \SYSTEM MANAGER\
                                00 0018B P.ABT: .BYTE 0
                                0018C P.ABT: .BLKB 0
                                08 0018C P.ABU: .BYTE 8
5D 52 47 4D 53 59 53 5B 0018D P.ABU: .ASCII \[SYSMGR]\
                                00 00195 P.ABV: .BYTE 0
                                00196 P.ABV: .BLKB 0
                                00196 P.ABV: .BLKB 2
                                FFFFFFFF# 00198 P.ABW: .LONG -1[2]
                                00000000 00000000 001A0 P.ABX: .LONG 0, 0
54 54 55 50 4E 49 24 53 59 53 001A8 P.ABY: .ASCII \SYSSINPUT\
54 55 50 54 55 4F 24 53 59 53 001B1 P.ABY: .ASCII \SYSSOUTPUT\
53 49 4C 2E 46 41 55 53 59 53 001BB P.ACA: .ASCII \SYSUAF.LIS\
53 49 4C 2E 46 41 55 54 45 4E 001C5 P.ACB: .ASCII \NETUAF.LIS\
                                46 41 55 53 59 53 001CF P.ACC: .ASCII \SYSUAF\
                                54 41 44 2E 001D5 P.ACD: .ASCII \.DAT\

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      46 41 55 54 45 4E 001D9 P.ACE: .ASCII \NETUAF\
      54 41 44 2E 001DF P.ACF: .ASCII \.DAT\
      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
      26 001F4 P.ACI: .BYTE 38
4F 4E 4D 4C 4B 4A 49 48 47 46 45 44 43 42 41 001F5 .ASCII \ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789$_\
33 32 31 30 5A 59 58 57 56 55 54 53 52 51 50 00204
      5F 24 39 38 37 36 35 34 00213
      20 3E 46 41 55 0A 0021B P.ACJ: .BYTE 6
      03 0021C .ASCII <10>\UAF> \
      20 5F 0A 00222 P.ACK: .BYTE 3
      22 00223 .ASCII <10>\_ \
      44 00226 P.ACL: .BYTE 34
      00227 .ASCII \Do you want to create a new file? \
20 6F 74 20 74 6E 61 77 20 75 6F 79 20 6F 44 00236
69 66 20 77 65 6E 20 61 20 65 74 61 65 72 63 00245
      20 3F 65 6C 00249
      00 00 00 20 3E 46 41 55 0024C P.ACN: .BLKB 3
      010E0005 00254 P.ACM: .ASCII \UAF> \<0><0><0>
      00000000 00258 P.ACM: .LONG 17694725
      00 00 00 20 3E 46 41 55 0025C P.ACP: .ADDRESS P.ACN
      010E0005 00264 P.ACO: .ASCII \UAF> \<0><0><0>
      00000000 00268 P.ACO: .LONG 17694725
      .ADDRESS P.ACP

```

.PSECT \$OWNS,NOEXE,2

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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:

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                                .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
000C0000 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
40000000 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
0C 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]
      0000# 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	2	
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 00CD8      .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
      00 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
00000000 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	UAFKEY1: .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

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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	00E58		.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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UAFMAIN.V04-000

```

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, 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
0584 00F2E .WORD 1412

```

.....

UAF
V04-000
.....

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

.....

.....


```

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
0000 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 00FEB      .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^0000000 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 RABPTR:: .BLKB     4
      00098 UAF$GQ_SYSUAFF::

```

.....

		.BLKB	8
000A0	UAF\$GL_C	TLMASK::	
		.BLKB	8
00000000	000A8	BY_ACCOUNT::	
		.LONG	0
000AC	MATCH_TOKEN::		
		.BLKB	66
000EE		.BLKB	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::	1
44	00705		68
0000	00706		0
00000000	00708		0
00000000	0070C		0
00000000	00710		0
0000#	00714		0[3]
0000	0071A		0
00000000	0071C		0
0000	00720		0
00	00722		0
00	00723		0
0584	00724		1412
0000	00726		0
00000000	00728		0
00000000	0072C		0
00000000	00730		0
00000000	00734	.ADDRESS	RECBUF+4
20	00738	.BYTE	32
00	00739	.BYTE	0
00	0073A	.BYTE	0
00	0073B	.BYTE	0
00000000	0073C	.LONG	0
00000000	00740	.ADDRESS	UAFFAB
00000000	00744	.LONG	0

.....

```
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 007B6 .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_IG::
```

.....

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
DEFLGICMD= P.ABI
DEFGRP= 128
DEFMEM= 128
DEFDIR= P.ABJ
DEFDEV= P.ABK
DEFBIOLM= 6
DEFBYTLM= 4096
DEFDIOLM= 6
DEFILLM= 20
DEFFLAGS= 0
DEFTQCNT= 10
DEFPRCCNT= 2
DEFPRI= 4
DEFQUEPRI= 4
DEFWSQUOTA= 200
DEFDFWSCNT= 150
DEFWSEXTENT= 500
DEFPUTIM= 0
DEFASTLM= 10
DEFPGFLQUOTA= 10000
DEFENQLM= 10
DEFBYTLM= 0
DEFSHRFILLM= 0
DEFMAXJOBS= 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
SYSTQCNT= 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 LBR$OUTPUT_HELP
.EXTRN LIB$GET_FOREIGN
```

```
.EXTRN LIB$GET INPUT, LIB$PUT OUTPUT
.EXTRN FMG$MATCH NAME, CLISDC$ PARSE
.EXTRN CLISDISPATCH, CLISPRESENT
.EXTRN CLISGET VALUE, UPDATE_RECORD
.EXTRN PARSE WILD, LGISHPWD
.EXTRN UAF$ADD_IDENT_RECBUF
.EXTRN UAF$BUILD HOLDER
.EXTRN UAF$INIT_UI, UAF$REMOVE_IDENT_RECBUF
.EXTRN UAF$WRITE RIGHTS
.EXTRN EXESGL SYSUI, RDB HEADER_FLAG
.EXTRN RDB LIST FLAG, ATTRIBUTES
.EXTRN HOLDER, IDENT, AUTHORIZE_COMMANDS
.EXTRN PRVSAB NAMES, LIB$SIGNAL
.EXTRN UAF$_ADDERR, UAF$_ADDMSG
.EXTRN UAF$_BADNODFORM
.EXTRN UAF$_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$_KEYNOTFND, UAF$_KEYNOTUNG
.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$_NOTUNG
.EXTRN UAF$_NOUSERNAME
.EXTRN UAF$_PREMSG, UAF$_PUTERR
.EXTRN UAF$_RDBDONEMSG
.EXTRN UAF$_RDBMDFYERR
.EXTRN UAF$_RDBMDFYERRU
.EXTRN UAF$_RDBMDFYMSG
.EXTRN UAF$_RDBNOMODS, UAF$_REDEF
.EXTRN UAF$_REMERR, UAF$_REMMSG
.EXTRN UAF$_REMSYS, UAF$_RENDEF
.EXTRN UAF$_RENMSG, UAF$_RENSYS
.EXTRN UAF$_RONLY, UAF$_SHOW_ERR
.EXTRN UAF$_SYSMSG1, UAF$_SYSMSG2
.EXTRN UAF$_UAEERR, UAF$_UICERR
.EXTRN UAF$_ZISQUAL, UAF$_ZZPRACREN
.EXTRN SYSSOPEN, SYSSCONNECT
.EXTRN SYSSCREATE

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

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

: 0903

	5B	00000000G	00	9E	00002	MOVAB	LIB\$GET_INPUT, R11	
	5A	00000000G	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
		F9B8	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	E8	00045	BLBS	R0, 1\$	
	68		66	DD	00048	PUSHL	STATUS	0952
		FA08	01	FB	0004A	CALLS	#1, LIB\$STOP	
			C6	9F	0004D	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	E8	0005B	BLBS	R0, 2\$	
	68		66	DD	0005E	PUSHL	STATUS	0956
		FA4C	01	FB	00060	CALLS	#1, LIB\$STOP	
	00000000G	00	C6	9F	00063	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	
		00000000'	34	13	0008A	BEQL	4\$	
			00	9F	0008C	PUSHAB	P.ACM	0975
			5B	DD	00092	PUSHL	R11	
		00000000G	7E	D4	00094	CLRL	-(SP)	
			00	9F	00096	PUSHAB	AUTHORIZE_COMMANDS	
	00000000G	00	57	DD	0009C	PUSHL	R7	
	66		05	FB	0009E	CALLS	#5, CLISDCL_PARSE	
	09		50	D0	000A5	MOVL	R0, STATUS	
	00000000G	00	50	E9	000A8	BLBC	R0, 3\$	
			00	FB	000AB	CALLS	#0, CLISDISPATCH	0978
			51	11	000B2	BRB	7\$	0979
	59		66	D1	000B4	CMPPL	STATUS, R9	0985
			45	13	000B7	BEQL	6\$	
	00000000V	00	00	FB	000B9	CALLS	#0, ACCSEXIT	0980
	00000000V	00	00	FB	000C0	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	
		00000000G	7E	D4	000D2	CLRL	-(SP)	
			00	9F	000D4	PUSHAB	AUTHORIZE_COMMANDS	
	00000000G	00	57	DD	000DA	PUSHL	R7	
	66		05	FB	000DC	CALLS	#5, CLISDCL_PARSE	
	10		50	D0	000E3	MOVL	R0, STATUS	
	6E		50	E9	000E6	BLBC	R0, 5\$	
08			00	2C	000E9	MOVCS	#0, (SP), #0, #8, UAF\$GL_CTLMSK	1007
			9C	A7	000EE			

UAFMAIN
V04-000

start - controlling code

6 7
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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(3)

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\$
CPL 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 |     procpri         : 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$_procpriv;
: 992      1078 2 item_list [40,0,32,0] = procpriv;
: 993      1079 2 item_list [44,0,32,0] = 0;
: 994      1080 2 item_list [48,0,16,0] = 4;
: 995      1081 2 item_list [50,0,16,0] = jpi$_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 $getjpi (itmlst = item_list);           ! Obtain pid, username and privs
: 1001     1087
: 1002     1088 2 username_dsc[0] = namelen (uaf$_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
: 1010     1096 2 newfile = false;                       ! note no new file yet
: 1011     1097
: 1012     1098 2 if rmstbad ($open (fab = uaf$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$_fnf
: 1020     1106 2     then
: 1021     1107 2     begin
: 1022     1108 2     while true
: 1023     1109 2     do
: 1024     1110 2     !
: 1025     1111 2     Ask if a new one is desired
: 1026     1112 2     !
: 1027     1113 2     begin
: 1028     1114 2     ask (newmsg20, cmdbuf[0], cmdbuflen);
: 1029     1115 2     if .cmdbuf [0] eql 'Y'
: 1030     1116 2     then exitloop newfile = true;
: 1031     1117 2     if .cmdbuf [0] eql 'N'
: 1032     1118 2     then acc$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
: 1045     1131
: 1046     1132 2 if .newfile

```

setup - open initial files

```

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

```

setup - open 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         LIBSSIGNAL(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 LIBSSIGNAL(UAF$_NAFCONERR) ! connect error
1126 1212 2
1127 1213 2 Everything opened and connected, establish proper NETUAF addresses
1128 1214 2
1129 1215 2     else
1130 1216 2     begin
1131 1217 2         nafrab [rab$_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 1 end;

```

```

                                .EXTRN SYSSGETJPI, SYSSPUT
                                .EXTRN SYSSIDTOASC
                                OFFC 00000 SETUP: .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 1020
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

```

		55	00000000G	00	9E	0002C	MOVAB	LIBSSIGNAL, R5		
		54	00000000	00	9E	00033	MOVAB	USERNAME_BUF, R4		
		53	00000000	00	9E	0003A	MOVAB	RMSERR, R3		
		5E	B4	AE	9E	00041	MOVAB	-76(SP), SP		
			03190004	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	CLRQ	ITEM_LIST+56	1083	
				7E	7C	00094	CLRQ	-(SP)	1086	
				7E	D4	00096	CLRL	-(SP)		
				0C	AE	9F	00098	PUSHAB	ITEM_LIST	
				7E	7C	0009B	CLRQ	-(SP)		
				7E	D4	0009D	CLRL	-(SP)		
		00000000G	00	07	FB	0009F	CALLS	#7, SYSSGETJPI		
28	64		20	20	3A	000A6	LOCC	#32, #32, USERNAME_BUF	1088	
	A4		20	50	C3	000AA	SUBL3	RO, #32, USERNAME_DSC		
				52	D4	000AF	CLRL	NEWFILE	1096	
				0EFO	C4	9F	000B1	PUSHAB	UAFFAB	1098
			68	01	FB	000B5	CALLS	#1, SYSSOPEN		
			63	50	DD	000B8	MOVL	RO, RMSERR		
			4F	50	E8	000BB	BLBS	RO, 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	63	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, RO	1115	
			59	8F	91	000EB	CMPB	RO, #8\$		
				05	12	000EF	BNEQ	2\$		
			52	01	DD	000F1	MOVL	#1, NEWFILE	1116	
				17	11	000F4	BRB	5\$		
			4E	8F	50	91	000F6	CMPB	RO, #7\$	1117
				03	12	000FA	BNEQ	3\$		
			69	00	FB	000FC	CALLS	#0, ACCSEXIT	1118	
				8F	DD	000FF	PUSHL	#UAF\$ INVRSP	1119	
		00000000G		01	FB	00105	CALLS	#1, LIBSSIGNAL		
			65	CA	11	00108	BRB	1\$	1108	
				00	FB	0010A	CALLS	#0, ACCSEXIT	1123	
			69	52	E9	0010D	BLBC	NEWFILE, 6\$	1132	
			1E	C4	9F	00110	PUSHAB	UAFFAB	1137	
				01	FB	00114	CALLS	#1, SYSSCREATE		
00000000G			00	01	FB	00114	CALLS	#1, SYSSCREATE		

63		50	D0	0011B	MOVL	R0, RMSERR	
OD		50	E8	0011E	BLBS	R0, 6\$	
		63	DD	00121	PUSHL	RMSERR	1143
	00000000G	7E	D4	00123	CLRL	-(SP)	
65		8F	DD	00125	PUSHL	#UAF\$ CREERR	
	05F0	03	FB	0012B	CALLS	#3, LIBSSIGNAL	
6A		C3	9F	0012E	PUSHAB	UAFRAB	1145
63		01	FB	00132	CALLS	#1, SYSSCONNECT	
OD		50	D0	00135	MOVL	R0, RMSERR	
		50	E8	00138	BLBS	R0, 7\$	
		63	DD	0013B	PUSHL	RMSERR	1146
	00000000G	7E	D4	0013D	CLRL	-(SP)	
		8F	DD	0013F	PUSHL	#UAF\$ CONERR	
65		03	FB	00145	CALLS	#3, LIBSSIGNAL	
060E		01	90	00148	MOVAB	#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	0284	8F	B0	00162	MOVW	#644, DEFAULT SIZE	1161
0498	0284	8F	B0	00162	MOVW	#644, DEFAULT SIZE	1161
0618	049C	C4	9E	00169	MOVAB	DEFAULT_RECORD, UAFRAB+40	1162
	05F0	C3	9F	00170	PUSHAB	UAFRAB	1163
68		01	FB	00174	CALLS	#1, SYSSPUT	
63		50	D0	00177	MOVL	R0, RMSERR	
OD		50	E8	0017A	BLBS	R0, 8\$	
		63	DD	0017D	PUSHL	RMSERR	1164
		7E	D4	0017F	CLRL	-(SP)	
	00000000G	8F	DD	00181	PUSHL	#UAF\$ PUTERR	
65		03	FB	00187	CALLS	#3, LIBSSIGNAL	
0618	08	A3	9E	0018A	MOVAB	RECBUF, UAFRAB+40	1165
	05F0	C3	9F	00190	PUSHAB	UAFRAB	1167
68		01	FB	00194	CALLS	#1, SYSSPUT	
63		50	D0	00197	MOVL	R0, RMSERR	
3F		50	E8	0019A	BLBS	R0, 11\$	
		63	DD	0019D	PUSHL	RMSERR	1168
		7E	D4	0019F	CLRL	-(SP)	
	00000000G	8F	DD	001A1	PUSHL	#UAF\$ PUTERR	
65		03	FB	001A7	CALLS	#3, LIBSSIGNAL	
		30	11	001AA	BRB	11\$	1154
0614	049C	C4	9E	001AC	MOVAB	DEFAULT_RECORD, UAFRAB+36	1175
		7E	D4	001B3	CLRL	-(SP)	1176
	FEFB	C7	9F	001B5	PUSHAB	DEFUSER+1	
	FEFA	C7	9A	001B9	MOVZBL	DEFUSER, -(SP)	
00000000V		03	FB	001BE	CALLS	#3, LOCATE_USER	
OD		50	E8	001C5	BLBS	R0, 10\$	
		63	DD	001C8	PUSHL	RMSERR	1177
		7E	D4	001CA	CLRL	-(SP)	
	00000000G	8F	DD	001CC	PUSHL	#UAF\$ DEFERR	
65		03	FB	001D2	CALLS	#3, LIBSSIGNAL	
0498	0612	C3	B0	001D5	MOVW	UAFRAB+34, DEFAULT_SIZE	1178
0614	08	A3	9E	001DC	MOVAB	RECBUF, UAFRAB+36	1181
0618	08	A3	9E	001E2	MOVAB	RECBUF, UAFRAB+40	1182
F8		01	D0	001E8	MOVL	#1, NETUAF_EXISTS	1190
	1030	C4	9F	001EC	PUSHAB	NAFFAB	1195
68		01	FB	001FC	CALLS	#1, SYSSOPEN	
63		50	D0	001F3	MOVL	R0, RMSERR	
20		50	E8	001F6	BLBS	R0, 13\$	

				63	D0	001F9		MOVL	RMSERR, R0		1200
	00018292	50		50	D1	001FC		CMPL	R0, #98962		
		8F		05	12	00203		BNEQ	12\$		
			F8	A3	D4	00205		CLRL	NETUAF_EXISTS		1202
				35	11	00208		BRB	15\$		
				50	DD	0020A	12\$:	PUSHL	R0		1204
				7E	D4	0020C		CLRL	-(SP)		
		00000000G		8F	DD	0020E		PUSHL	#UAF\$ NAONAF		
		65		03	FB	00214		CALLS	#3, LIBSSIGNAL		
			0634	26	11	00217		BRB	15\$		1200
				C3	9F	00219	13\$:	PUSHAB	NAFRAB		1210
		6A		01	FB	0021D		CALLS	#1, SYSSCONNECT		
		63		50	D0	00220		MOVL	R0, RMSERR		
		0B		50	E8	00223		BLBS	R0, 14\$		
				8F	DD	00226		PUSHL	#UAF\$ NAFCONERR		1211
		00000000G		01	FB	0022C		CALLS	#1, LIBSSIGNAL		
		65		0E	11	0022F		BRB	15\$		
	0658	C3	058C	C3	9E	00231	14\$:	MOVAB	NETBUF, NAFRAB+36		1217
	065C	C3	058C	C3	9E	00238		MOVAB	NETBUF, NAFRAB+40		1218
	03	A6	CO	8F	8A	0023F	15\$:	BICB2	#192, IDENT+3		1225
02	A6	00		01	F0	00244		INSV	#1, #0, #14, IDENT+2		1226
		0E		04	B0	0024A		MOVW	#4, IDENT		1227
				7E	7C	0024D		CLRQ	-(SP)		1228
				7E	7C	0024F		CLRQ	-(SP)		
				7E	D4	00251		CLRL	-(SP)		
		00000000G		66	DD	00253		PUSHL	IDENT		
		00018292		06	FB	00255		CALLS	#6, SYSSIDTOASC		
				50	D1	0025C		CMPL	STATUS, #98962		1229
				04	12	00263		BNEQ	16\$		
			FC	A3	D4	00265		CLRL	RDB_EXISTS		1230
				04	04	00268		RET			
		FC	A3	01	D0	00269	16\$:	MOVL	#1, RDB_EXISTS		1231
				04	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
 1259 2
 1260 2
 1261 2
 1262 2
 1263 2
 1264 2
 1265 2
 1266 2
 1267 2
 1268 2
 1269 2
 1270 2
 1271 2
 1272 2
 1273 2
 1274 2
 1275 2
 1276 2
 1277 2
 1278 2
 1279 2
 1280 2
 1281 2
 1282 2
 1283 2
 1284 2
 1285 2
 1286 2
 1287 2
 1288 2
 1289 2
 1290 2

```
add_uaf - insert new user record

: 1206      1291 2 |
: 1207      1292 2 |
: 1208      1293 2 | Make sure a legal username was entered, otherwise the account may not be
: 1209      1294 2 | accessible via LOGIN or the Input Symbiont.
: 1210      1295 2 |
: 1211      1296 2 | incru i to .tokenlen - 1
: 1212      1297 2 | do
: 1213      1298 2 |     if ch$fail (ch$find_ch (.symbol_str<0,8>,
: 1214      1299 2 |                          symbol_str + 1,
: 1215      1300 2 |                          .tokenptr [.i]))
: 1216      1301 2 |     then return LIB$SIGNAL(UAF$_INVUSERNAME);
: 1217      1302 2 | user_dsc[0] = .tokenlen;
: 1218      1303 2 | user_dsc[1] = recbuf[uaf$_username];
: 1219      1304 2 |
: 1220      1305 2 |
: 1221      1306 2 | Move the default record to the current record buffer, so that
: 1222      1307 2 | fields which are not entered will receive the default
: 1223      1308 2 | value. Then insert the username just entered.
: 1224      1309 2 |
: 1225      1310 2 | ch$move (.default_size, default_record, recbuf);
: 1226      1311 2 | ch$copy (.tokenlen, .tokenptr, ' ', uaf$_username, recbuf[uaf$_username]);
: 1227      1312 2 |
: 1228      1313 2 |
: 1229      1314 2 | Call routine to fill in all supplied values. Exit if any errors
: 1230      1315 2 | were found.
: 1231      1316 2 |
: 1232      1317 2 |
: 1233      1318 2 | pwd_flag = true;                                ! plan to supply a password
: 1234      1319 2 | uaf$ab[ra$b$w_rsz] = .default_size;
: 1235      1320 2 | uaf$gl_ctlmsk[uaf$v_add] = true;
: 1236      1321 2 | if not update_record ()
: 1237      1322 2 | then
: 1238      1323 2 |     begin
: 1239      1324 2 |     uaf$gl_ctlmsk[uaf$v_add] = false;
: 1240      1325 2 |     return;
: 1241      1326 2 |     end;
: 1242      1327 2 |
: 1243      1328 2 | uaf$gl_ctlmsk[uaf$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 |     $gettim (timadr = time_buf);
: 1251      1336 2 |     recbuf[uaf$w_salt] = .time_buf<3*8,16>;
: 1252      1337 2 |     recbuf[uaf$b_encrypt] = encrypt;
: 1253      1338 2 |     lgi$hpwd (rec_encrypt dsc, pwddsc, .recbuf[uaf$b_encrypt],
: 1254      1339 2 |               .recbuf[uaf$w_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 ($put (rab = uaf$ab))
: 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      :
: 1272      1357 2      LIB$SIGNAL(UAF$_ADDMSG);
: 1273      1358 2      if (.uaf$gl_ctlmsk[uaf$y_cli]
: 1274      1359 2      and (not .uaf$gl_ctlmsk[uaf$y_clitables]))
: 1275      1360 2      then LIB$SIGNAL(UAF$_CLIWARNMSG);
: 1276      1361 2      security_audit (nsa$K_recid_sysuaf_add);
: 1277      1362 2      modify flag = true;
: 1278      1363 2      if (cli$present ( sd_add_identifier ) and
: 1279      1364 2      .rdb_exists )
: 1280      1365 2      then
: 1281      1366 2      begin
: 1282      1367 2      :
: 1283      1368 2      : Add the appropriate identifiers.
: 1284      1369 2      : Set the resource attribute if /ATTRIB=RESOURCE was specified
: 1285      1370 2      : and then add the appropriate identifiers to the rights data base
: 1286      1371 2      :
: 1287      1372 2      if cli$present (sd_attribresource)
: 1288      1373 2      then attributes = kgb$m_resource
: 1289      1374 2      else attributes = 0 ;
: 1290      1375 2      uaf$add_ident_recbuf ( ) ;
: 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 00000000G	00 9E 00002		MOVAB	LIB\$SIGNAL, R11	
	5A 00000000'	00 9E 00009		MOVAB	PWDDSC, R10	
	59 00000000'	00 9E 00010		MOVAB	SD_TOKEN1, R9	
	58 00000000'	00 9E 00017		MOVAB	TOKENENDSC, R8	
	5E	08 C2 0001E		SUBL2	#8, SP	
		59 DD 00021		PUSHL	R9	: 1279
00000000G	00	01 FB 00023		CALLS	#1, CLISPRESNT	
	12	50 E9 0002A		BLBC	R0, 1\$	
		58 DD 0002D		PUSHL	R8	: 1280
		59 DD 0002F		PUSHL	R9	
00000000G	00	02 FB 00031		CALLS	#2, CLISGET_VALUE	
	04	50 E9 00038		BLBC	R0, 1\$	
		68 B5 0003B		TSTW	TOKENLEN	: 1281
		08 12 0003D		BNEQ	2\$	
	00000000G	8F DD 0003F 1\$:		PUSHL	#UAF\$_NOUSERNAME	: 1282
		34 11 00045		BRB	6\$	
	0C	68 B1 00047 2\$:		CMPW	TOKENLEN, #12	: 1288
		08 1B 0004A		BLEQU	3\$	
	00000000G	8F DD 0004C		PUSHL	#UAF\$_NAMETOOBIG	: 1289

				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	9A	0005D	4\$:	MOVZBL	SYMBOL_STR, R1	1297			
				50	04	AB	D0	00062		MOVL	TOKENPTR, R0	1299			
	01ED	C9		51		6240	3A	00066		LOCC	(I)[R0], R1, SYMBOL_STR+1				
						02	12	0006D		BNEQ	5\$				
						51	D4	0006F		CLRL	R1				
						51	D5	00071	5\$:	TSTL	R1				
						09	12	00073		BNEQ	7\$				
					00000000G	8F	DD	00075		PUSHL	#UAF\$_INVUSERNAME	1300			
						00AF	31	0007B	6\$:	BRW	11\$				
						52	D6	0007E	7\$:	INCL	I	1299			
						52	D1	00080	8\$:	CML	I, R3				
						D8	1B	00083		BLEQU	4\$				
						68	3C	00085		MOVZWL	TOKENLEN, R7	1301			
						57	D0	00088		MOVL	R7, USER_DSC				
					04	AE	24	AB	9E	0008B	MOVAB	RECBUF+4, USER_DSC+4	1302		
						56	FA78	CA	3C	00090	MOVZWL	DEFAULT_SIZE, R6	1310		
	20	AB	FA7C			56	28	00095		MOV3	R6, DEFAULT_RECORD, RECBUF				
						50	04	AB	D0	0009C	MOVL	TOKENPTR, R0	1311		
	20					60	24	57	2C	000A0	MOV3	R7, (R0), #32, #32, RECBUF+4			
								AB		000A5					
						0698	C8	01	D0	000A7	MOVL	#1, PWD_FLAG	1318		
						062A	C8	56	B0	000AC	MOVW	R6, UAFRAB+34	1319		
						A4	AB	02	88	000B1	BISB2	#2, UAF\$GL_CTLMSK	1320		
					00000000G	00	00	FB	000B5	CALLS	#0, UPDATE_RECORD	1321			
						05	AB	50	E8	000BC	BLBS	R0, 9\$			
						A4	AB	02	8A	000BF	BICB2	#2, UAF\$GL_CTLMSK	1324		
								04	000C3	RET		1323			
						A4	AB	02	8A	000C4	9\$:	BICB2	#2, UAF\$GL_CTLMSK	1328	
						3B	0698	C8	E9	000C8	BLBC	PWD_FLAG, T0\$	1330		
						6A	J120	C9	9B	000CD	MOVZBW	DEFPASS, PWDDSC	1333		
						04	AA	0121	C9	9E	000D2	MOVAB	DEFPASS+1, PWDDSC+4	1334	
								0690	C8	9F	000D8	PUSHAB	TIME_BUF	1335	
					00000000G	00	01	FB	000DC	CALLS	#1, SYSSGETTIM				
						0186	C8	0693	C8	B0	000E3	MOVW	TIME_BUF+3, RECBUF+358	1336	
						0188	C8	02	90	000EA	MOVW	#2, RECBUF+360	1337		
								5E	DD	000EF	PUSHL	SP	1338		
						7E	0186	C8	3C	000F1	MOVZWL	RECBUF+358, -(SP)	1339		
						7E	0188	C8	9A	000F6	MOVZBL	RECBUF+360, -(SP)	1338		
								5A	DD	000FB	PUSHL	R10			
								01E4	C9	9F	000FD	PUSHAB	REC_ENCRYPT_DSC		
					00000000G	00	05	FB	00101	CALLS	#5, LGISHPWD				
								0608	C8	9F	00108	10\$:	PUSHAB	UAFRAB	1346
					00000000G	00	01	FB	0010C	CALLS	#1, SYSSPUT				
						18	AB	50	D0	00113	MOVL	R0, RMSERR			
								50	E8	00117	BLBS	R0, 13\$			
								50	E8	00117	BLBS	R0, 13\$			
						50	18	AB	D0	0011A	MOVL	RMSERR, R0	1348		
					000184EC	8F	50	D1	0011E	CML	R0, #99564				
								0A	12	00125	BNEQ	12\$			
								8F	DD	00127	PUSHL	#UAF\$_UAEERR	1349		
						68	00000000G	01	FB	0012D	11\$:	CALLS	#1, LIBSSIGNAL		
								04	00130	RET					
								50	DD	00131	12\$:	PUSHL	R0	1350	

add_uaf - insert new user record

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

			7E	D4	00133		CLRL	-(SP)		
		00000000G	8F	DD	00135		PUSHL	#UAF\$_ADDERR		
		6B	03	FB	0013B		CALLS	#3, LIBSSIGNAL		
				04	0013E		RET			1348
		00000000G	8F	DD	0013F	13\$:	PUSHL	#UAF\$_ADDMSG		1357
		6B	01	FB	00145		CALLS	#1, LIBSSIGNAL		
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, LIBSSIGNAL		
		00010002	8F	DD	0015B	14\$:	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, CLISPRESNT		
			50	E9	00177		BLBC	R0, 17\$		
			A8	E9	0017A		BLBC	RDB_EXISTS, 17\$		1364
			CA	9F	0017E		PUSHAB	SD_ATTRIBRESOURCE		1372
		00000000G	01	FB	00182		CALLS	#1, CLISPRESNT		
			50	E9	00189		BLBC	R0, 15\$		
		00000000G	01	D0	0018C		MOVL	#1, ATTRIBUTES		1373
			06	11	00193		BRB	16\$		
		00000000G	00	D4	00195	15\$:	CLRL	ATTRIBUTES		1374
			00	FB	0019B	16\$:	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
```

```

: 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$_NAFADDMSG);
: 1418      1502              security_audit (nsa$_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, R10	
			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	A8 0002E				
				FA1C	C8 9F 00030		PUSHAB	TOKENDSC	
				00000000'	00 9F 00034		PUSHAB	SD_TOKEN1	1437
			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	A8 0005A				
20	20	04	BE	6E	2C 0005C		MOVCS	REMUSER_LEN, @REMUSER_PTR, #32, #32, -	1448
				E0	A8 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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2-Oct-1984 13:01:10

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

20	68	E0	56 A8	6E	D0	00099	MOVL	REMUSER_LEN, LOCUSER_LEN	1467
				20	28	0009C	MOVCS	#32, NETBUF+32, NETBUF+64	1468
	20		67	06	11	000A1	BRB	6\$	1464
				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
			2A	05	12	000BC	BNEQ	7\$	
				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	00118	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$find_sub (.tokenlen, .tokenptr, 2, .dbl_colon [1]);
: 1469 1552 2
: 1470 1553 2 if .dbl_colon_ptr eql 0                               ! no double colon found
: 1471 1554 2 or .dbl_colon_ptr eql .tokenptr                       ! no node found
: 1472 1555 2 or .dbl_colon_ptr eql (.tokenptr + .tokenlen - 2) ! no remote user found
: 1473 1556 2 then return LIB$SIGNAL(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

```

remote_parse - parses 'node::remoteuser'

```

: 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 2 | 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				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	CPL	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	CPL	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	CPL	@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	
				OC	BC	02 A3 9E 00064	MOVAB	2(R3), @REMUSER_PTR	: 1575
					OC	10 BC D1 00069	CPL	@REMUSER_LEN, #T2	: 1581

UAFMAIN
V04-000

remote_parse - parses "node::remoteuser"

M 8
8-Jan-1985 17:24:07
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[UAF.BUGSRC]UAFMAIN.B32;1

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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 |
1539 1621 2 | local
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$v_rename];
1550 1632 2 |
1551 1633 2 | If this is a COPY directly from the UAF> prompt, the authorization
1552 1634 2 | record need not be locked, and the default and system records may be
1553 1635 2 | copied.  HOWEVER, if this COPY is part of a RENAME operation, the record
1554 1636 2 | must be locked, and the default and system COPY records may not be renamed.
1555 1637 2 | (The RENAME operation is similar to the COPY operation except that
1556 1638 2 | the original record is REMOVE'd.  COPY leaves both records.)
1557 1639 2 |
1558 1640 2 | if not .uaf$gl_ctlmsk[uaf$v_rename]
1559 1641 2 | then
1560 1642 2 |     begin
```

```

copy_uaf - copy user record

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

```

copy_uaf - copy user record

```

: 1618      1700      3      ch$move (uaf$$username, recbuf[uaf$t_username], old_user_buffer);
: 1619      1701      3      ch$copy (.tokenlen, .tokenptr,
: 1620      1702      3      uaf$$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$$lastlogin_i, recbuf[uaf$q_lastlogin_i] ) ;
: 1635      1717      4      ch$fill ( 0, uaf$$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$rab))
: 1642      1724      4      then
: 1643      1725      4      begin
: 1644      1726      4      if .rmserr eql rms$_dup
: 1645      1727      4      then
: 1646      1728      4      return LIBSSIGNAL(UAF$_UACERR)      ! username already exists
: 1647      1729      4      else
: 1648      1730      4      begin
: 1649      1731      4      LIBSSIGNAL(UAF$_ADDERR, 0, .rmserr);
: 1650      1732      4      return false;
: 1651      1733      4      end
: 1652      1734      4      end
: 1653      1735      4      else
: 1654      1736      4      :
: 1655      1737      4      : The copy was successful -- tell the user and set modify flag
: 1656      1738      4      :
: 1657      1739      4      begin
: 1658      1740      4      modify_flag = true;
: 1659      1741      4      security_audit ((if not .uaf$gl_ctlmsk[uaf$v_rename]
: 1660      1742      4      then nsa$sk_recid_sysuaf_cop
: 1661      1743      4      else nsa$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      4      begin
: 1666      1748      4      LIBSSIGNAL(UAF$_COPMSG);
: 1667      1749      4      if (.uaf$gl_ctlmsk[uaf$v_cli]
: 1668      1750      4      and not .uaf$gl_ctlmsk[uaf$v_clitables])
: 1669      1751      4      and .uaf$gl_ctlmsk[uaf$v_clitab_pres]
: 1670      1752      4      then LIBSSIGNAL(UAF$_CLIDARMMSG);
: 1671      1753      4      :
: 1672      1754      4      : Since passwords are folded in with the username, passwords for
: 1673      1755      4      : COPIed records will no longer work--warn the user
: 1674      1756      4      :

```

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      |
: 1685      1767 6      | if cli$present (sd_attribresource)
: 1686      1768 6      | then attributes = kgb$m_resource
: 1687      1769 6      | else attributes = 0 ;
: 1688      1770 6      | uaf$add_ident_recbuf ( ) ;
: 1689      1771 6      | end;
: 1690      1772 5      end;
: 1691      1773 4      end;
: 1692      1774 4      end ;
: 1693      1775 4      end
: 1694      1776 4      |
: 1695      1777 4      | The attempt to GET_USER_RECORD failed...
: 1696      1778 4      |
: 1697      1779 4      | else return false;
: 1698      1780 4      |
: 1699      1781 4      |
: 1700      1782 4      | If we get here, everything succeeded -- return true
: 1701      1783 4      |
: 1702      1784 4      |
: 1703      1785 4      | return true;
: 1704      1786 4      |
: 1705      1787 1      end;

```

		OFFC	00000	.ENTRY	COPY_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-;	
		5B	00000000G	00 9E 00002	R11	1587
		5A	00000000'	00 9E 00009	CLISPRESNT, R11	
		59	00000000'	00 9E 00010	NEWUSERNAME, R10	
		58	00000000G	00 9E 00017	SD TOKEN2, R9	
		57	00000000'	00 9E 0001E	LIBSSIGNAL, R8	
		5E		20 C2 00025	UAF\$GL_CTLMSK, R7	
50	67	01		00 EF 00028	#32, SP	
		50		50 92 0002D	EXTZV #0, #1, UAF\$GL_CTLMSK, R0	1631
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, 1\$	1640
				50 D4 0003B	MOVQ #1, DEF_SYS	1644
				06 11 0003D	CLRL FLAG	1645
		52		01 D0 0003F	BRB 2\$	1640
		50		01 7D 00042	MOVL #1, LOCK_REC	1649
				50 DD 00045	MOVQ #1, FLAG	1651
				51 DD 00047	PUSHL FLAG	1662
				52 DD 00049	PUSHL DEF_SYS	
				03 FB 0004B	PUSHL LOCK_REC	
		00000000V	00		CALLS #3, GET_USER_RECORD	

		03		50	E8	00052		BLBS	R0, 3\$		
				0169	31	00055		BRW	25\$		
		6B		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
		6B		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
		50	01DD	A7	D0	0C09A		MOVL	TOKENPTR, R0		1684
		51	C9	60	3A	0009E		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\$:	CMP	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		
		6A		56	28	000C7		MOVCS	R6, (R0), NEWUSERNAME		
				56	D0	000CB		MOVL	R6, NEWUSERLEN		1694
		6E	FC	C7	20	000CF	12\$:	MOVCS	#32, RECBUF+4, OLD_USER_BUFFER		1700
				50	A7	D0		MOVL	TOKENPTR, R0		1701
		20		60	A7	2C		MOVCS	TOKENLEN, (R0), #32, #32, RECBUF+4		1702
				0080	C7	000DF					
				01	D0	000E2		MOVL	#1, PWD FLAG		1703
			06F4	00	FB	000E7		CALLS	#0, UPD_XTE_RECORD		1705
			00000000G	4D	50	000EE		BLBC	STATUS, 16\$		1706
				14	67	000F1		BLBS	UAF\$GL_CTLMSK, 13\$		1712
				01E0	C7	B4		CLRW	RECBUF+356		1715
		08		00	2C	000F8		MOVCS	#0, (SP), #0, #8, RECBUF+396		1716
				0208	C7	000FD					
		08		00	2C	00100		MOVCS	#0, (SP), #0, #8, RECBUF+404		1717
				0210	C7	00105					
				0664	C7	9F	00108	13\$:	PUSHAB	UAFRAB	1723
				00	01	FB	0010C		CALLS	#1, SYSSPUT	
				A7	50	D0	00113		MOVL	R0, RMSERR	
				27	50	E8	00117		BLBS	R0, 17\$	
				50	A7	D0	0011A		MOVL	RMSERR, R0	1726
			000184EC	8F	50	D1	0011E		CMP	R0, #99564	

		0A	12	00:25	BNEQ	15\$		
	00000000G	8F	DD	00127	PUSHL	#UAF\$ UAEERR		1728
68		01	FB	0012D	CALLS	#1, LIB\$SIGNAL		
			04	00130	RET			1730
		50	DD	00131	PUSHL	R0		1731
		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	D0	00141	MOVL	#1, MODIFY_FLAG		1740
		5E	DD	00145	PUSHL	SP		1741
08		67	E8	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		
	5B	67	E8	0015F	BLBS	UAF\$GL_CTLMSR, 24\$		1745
	00000000G	8F	DD	00162	PUSHL	#UAF\$ COPMSG		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	BLBC	PWD FLAG, 21\$		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	PUSHAB	SD_ADD_IDENTIFIER		1760
		01	FB	00194	CALLS	#1, CLISPRESNT		
68		50	E9	00197	BLBC	R0, 24\$		
23		70	A7	E9	BLBC	RDB_EXISTS, 24\$		1761
1F		80	AA	9F	PUSHAB	SD_ATTRIBRESOURCE		1768
		01	FB	001A1	CALLS	#1, CLISPRESNT		
68		50	E9	001A4	BLBC	R0, 22\$		
09		01	D0	001A7	MOVL	#1, ATTRIBUTES		1769
00000000G	00	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	D0	001BD	MOVL	#1, R0		1785
			04	001C0	RET			
		50	D4	001C1	CLRL	R0		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 2

```

```

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	
	0A	F8	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	
	0D		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	
	0D		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
	F8		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 uafgrab[rab$l_rop] = rab$m_rlk; ! Lock records for writing  
1831 1911 1 rabptr = outrab;  
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$rnf  
1838 1918 1 then  
1839 1919 1 LIBSSIGNAL(UAF$_BADSPC)  
1840 1920 1 else
```

modify_uaf - update user record (s)

```

: 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      3      else
: 1846      1926      3      begin
: 1847      1927      3      if .status and .found_match
: 1848      1928      3      then
: 1849      1929      4      begin
: 1850      1930      4      LIBSSIGNAL(UAF$ MDFYMSG);
: 1851      1931      5      if (.uaf$gl_ctlmsk[uaf$v_cli]
: 1852      1932      5      and not .uaf$gl_ctlmsk[uaf$v_clitables])
: 1853      1933      4      and .uaf$gl_ctlmsk[uaf$v_clitab_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 00066	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

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

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

```

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

```


modify_rec - update a user record action routin

```

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$rab))
1970 2049 2  !   then
1971 2050 2  !     begin
1972 2051 2  !     LIBSSIGNAL(UAF$MDFYERR, 0, .rmserr);

```

modify_rec - update a user record action routin

```

: 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 = $idtoasc ( id      = .old_uic,
: 2000      2079      5      |                       namlen = oldiddesc[length],
: 2001      2080      5      |                       nambuf = oldiddesc ) ;
: 2002      2081      5
: 2003      2082      5      |
: 2004      2083      5      | if not .status
: 2005      2084      5      | then LIB$SIGNAL(UAF$_RDBMDFYERRU, 2,
: 2006      2085      5      |                  .old_uic[uic$v_group],
: 2007      2086      5      |                  .old_uic[uic$v_member], .status)
: 2008      2087      5      |
: 2009      2088      6      | else if .status
: 2010      2089      6      | then
: 2011      2090      6      |     begin
: 2012      2091      6      |         status = $mod_ident ( id      = .old_uic,
: 2013      2092      6      |                             new_value = .new_uic ) ;
: 2014      2093      6      |
: 2015      2094      6      |     if not .status
: 2016      2095      6      |     then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, oldiddesc, .status)
: 2017      2096      7      |     else
: 2018      2097      7      |         begin
: 2019      2098      7      |             rightslist_modified = true ;
: 2020      2099      6      |             LIB$SIGNAL(UAF$_RDBMDFYMSG, 1, oldiddesc);
: 2021      2100      6      |         end ;
: 2022      2101      6      |     end ;
: 2023      2102      4      | end;
: 2024      2103      4      | return true ;
: 2025      2104      4      | end
: 2026      2105      4      | else
: 2027      2106      4      | begin
: 2028      2107      4      |     $release (rab = uaf$rab);
: 2029      2108      4      |     return false
: 2029      2108      3      | end

```

				07FC 00000 MODIFY_REC:		.EXTRN SYSSUPDATE, SYSSMOD_IDENT			
						.EXTRN SYSSRELEASE			
		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		
						MOVL	#17694720, OLDACCDISC	1980	
		28	AE 010E0000	8F	D0 00023	MOVL	OLDACCDISC+4		
						CLRL	#17694720, NEWACCDISC	1981	
						MOVL	NEWACCDISC+4		
			1F 06CC	C8	E9 00031	CLRL	STR WILD, 1\$	2003	
						BLBC	MATCH_TOKEN, R5	2005	
			55 8C	A8	9E 00036	MOVAB	RECBUF+4, R3		
			53	68	9E 0003A	MOVAB	#32, #32, RECBUF+4	2004	
	68		20	20	3A 0003D	LOCC	-32(R0), R2		
			52	EO	A0 9E 00041	MOVAB	R2, R2		
			52		52 CE 00045	MNEGL	MATCH_TOKENLEN, R4	2005	
			54	DO	A8 D0 00048	MOVL	FMGSMATCH_NAME		
					00000000G	JSB	R0, 3\$		
			37		50 E9 00052	BLBC	#1, FOUND MATCH	2008	
	06BC		C8		01 D0 00055	1\$:	MOVZBL	DEFUSER, R4	2010
			54	FF	A9 9A 0005A	MOVZBL	TOKENPTR, R0		
			50	EO	A8 D0 0005E	MOVL	R4, DEFUSER+1, #32, TOKENLEN, (R0)		
DC	AB		20		54 2D 00062	CMPC5			
					60 00068				
					10 13 00069	BEQL	2\$		
			68		20 3A 0006B	LOCC	#32, #32, RECBUF+4	2012	
			50		50 C3 0006F	SUBL3	R0, #32, R0		
			20		54 2D 00073	CMPC5	R4, DEFUSER+1, #32, R0, RECBUF+4	2013	
					68 00078				
					14 12 00079	BNEQ	4\$		
			00000000'	00	01 D0 0007B	2\$:	MOVAB	#1, MOD_DEFAULT	2016
			00000000V	00	00 FB 00082	CALLS	#0, DEFAULT_UAF	2017	
					D8 A8 D6 00089	INCL	CALL_COUNT	2018	
					0122 31 0008C	3\$:	BRW	10\$	2019
			56	02	00 F0 0008F	4\$:	INSV	#0, #30, #2, OLD_UIC	2025
			56	OE	22 A8 F0 00094	INSV	RECBUF+38, #16, #14, OLD_UIC	2026	
					20 A8 B0 0009A	MOVW	RECBUF+36, OLD_UIC	2027	
			58	AE	20 28 0009E	MOVW	#32, RECBUF+52, OLDACCNAME	2028	
			30	AB	20 3A 000A4	LOCC	#32, #32, RECBUF+52	2029	
			30	AE	50 A3 000A9	SUBW3	R0, #32, OLDACCDISC		
					34 AE 9E 000AE	MOVAB	OLDACCNAME, OLDACCDISC+4	2030	
			00000000G	00	00 FB 000B3	CALLS	#0, UPDATE_RECORD	2032	
					03 50 E8 000BA	BLBS	R0, 5\$		
					00F5 31 000BD	BRW	11\$		
			57	02	00 F0 000C0	5\$:	INSV	#0, #30, #2, NEW_UIC	2038
			57	OE	22 A8 F0 000C5	INSV	RECBUF+38, #16, #14, NEW_UIC	2039	
					20 A8 B0 000CB	MOVW	RECBUF+36, NEW_UIC	2040	
			38	AE	20 28 000CF	MOVW	#32, RECBUF+52, NEWACCNAME	2041	
			30	AB	20 3A 000D5	LOCC	#32, #32, RECBUF+52	2042	
			28	AE	50 A3 000DA	SUBW3	R0, #32, NEWACCDISC		

2C	AE	38	AE	9E	000DF	MOVAB	NEWACCNAME, NEWACCDDESC+4	2043
		05E4	C8	9F	000E4	PUSHAB	UAFRAB	2048
00000000G	00		01	FB	000E8	CALLS	#1, SYSSUPDATE	
F4	AB		50	DO	000EF	MOVL	R0, RMSERR	
	13		50	E8	000F3	BLBS	R0, 6\$	
		F4	A8	DD	000F6	PUSHL	RMSERR	2051
			7E	D4	000F9	CLRL	-(SP)	
		00000000G	8F	DD	000FB	PUSHL	#UAF\$ MDFYERR	
	6A		03	FB	00101	CALLS	#3, LTBSSIGNAL	
	50	F4	A8	DO	00104	MOVL	RMSERR, R0	2052
				04	00108	RET		
00000000'	00		01	DO	00109	MOVL	#1, MODIFY_FLAG	2056
		00030002	8F	DD	00110	PUSHL	#196610	2057
00000000V	00		01	FB	00116	CALLS	#1, SECURITY_AUDIT	
			A8	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	R0, 8\$	
	7F	F0	A8	E9	0012E	BLBC	RDB_EXISTS, 10\$	2062
	57		56	D1	00132	CMP	OLD_UIC, NEW_UIC	2069
			7A	13	00135	BEQL	10\$	
	6E	010E0000	8F	DO	00137	MOVL	#17694720, OLDIDDESC	2074
			AE	D4	0013E	CLRL	OLDIDDESC+4	
	6E		20	B0	00141	MOVW	#32, OLDIDDESC	2076
04	AE	08	AE	9E	00144	MOVAB	OLDIDNAME, OLDIDDESC+4	2077
			7E	7C	00149	CLRQ	-(SP)	2080
			7E	D4	0014B	CLRL	-(SP)	
		0C	AE	9F	0014D	PUSHAB	OLDIDDESC	
		10	AE	9F	00150	PUSHAB	OLDIDDESC	
			56	DD	00153	PUSHL	OLD_UIC	
00000000G	00		06	F3	00155	CALLS	#6, SYSSIDTOASC	
	52		50	DO	0015C	MOVL	R0, 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	CLRQ	-(SP)	
			7E	D4	0017D	CLRL	-(SP)	
			56	DD	0017F	PUSHL	OLD_UIC	
00000000G	00		05	FB	00181	CALLS	#5, SYSSMOD_IDENT	
	52		50	DO	00188	MOVL	R0, STATUS	
	12		52	E8	0018B	BLBS	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	A8		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

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6A	03	FB	001AE	CALLS	#3, LIBSSIGNAL	:			
50	01	DO	001B1	10S: MOVL	#1, R0	: 2105			
		04	001B4	RET		:			
00000000G	00	05E4	C8	9F	001B5	11S: PUSHAB	UAFRAB	:	2106
			01	FB	001B9	CALLS	#1, SYSSRELEASE	:	2107
			50	D4	001C0	CLRL	R0	:	2109
			04	001C2	RET			:	

; 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 ($delete (rab=uaf$u))
: 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]

```

```

2089      2167      4      then
2090      2168      5      begin
2091      2169      6      .
2092      2170      7      . If there is a proxy login file, delete entries for
2093      2171      8      . the user just removed from SYSUAF.DAT
2094      2172      9      .
2095      2173      10     if .netuaf exists
2096      2174      11     then adjust proxy (remove_records);
2097      2175      12     LIB$SIGNAL(UAF$_REMMSG);
2098      2176      13     .
2099      2177      14     . Unless specifically requested not to
2100      2178      15     . remove the corresponding identifier from the
2101      2179      16     . rights data base.
2102      2180      17     .
2103      2181      18     if (cli$present ( sd_remove_identifier ) and
2104      2182      19     . rdb_exists )
2105      2183      20     then
2106      2184      21     uaf$remove_ident_recbuf ( ) ;
2107      2185      22     end;
2108      2186      23     end;
2109      2187      24     end;
2110      2188      25     end;

```

				.EXTRN	SYSSDELETE	
			000C 00000	.ENTRY	REMOVE UAF, Save R2,R3	2111
	53	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, 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	R0, 3\$	
		05F0	C2 9F 0001D	PUSHAB	UAFRAB	2157
00000000G	00		01 FB 00021	CALLS	#1, SYSSDELETE	
	62		50 D0 00028	MOVL	R0, RMSERR	
	0E		50 E8 0002B	BLBS	R0, 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, LIB\$SIGNAL	
			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\$	2164
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, LIB\$SIGNAL	
		00000000'	00 9F 0006E	PUSHAB	SD_REMOVE_IDENTIFIER	2181
00000000G	00		01 FB 00074	CALLS	#1, CLISPRESNT	
	0B		50 E9 0007B	BLBC	R0, 3\$	
	07	FC	A2 E9 0007E	BLBC	RDB_EXISTS, 3\$	2182
00000000G	00		00 FB 00082	CALLS	#0, UAF\$REMOVE_IDENT_RECBUF	2184

UAFMAIN
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remove_uaf - remove username from file

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04 00089 3\$: RET

; 2188

; Routine Size: 138 bytes, Routine Base: \$CODE\$ + 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 0000	.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	F8	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\$	

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	C6		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	D0	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	D0	0007C	MOVL	R0, RMSERR	:	
		0B			50	E8	0007F	BLBS	R0, 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
			00000000G		01	FB	00093	CALLS	#1, SECURITY_AUDIT	:	
					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	D0	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$gl_ctlmsk[uaf$v_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   if (cli$present ( sd_modify_identifier ) and
: 2263      2339 4       .rdb_exists )
: 2264      2340 3   then
: 2265      2341 4       begin
: 2266      2342 4         local
: 2267      2343 4           status          : long,
: 2268      2344 4           old_name_buff      : vector [kgb$s_name, byte],
: 2269      2345 4           old_name_desc     : statdesc ;
: 2270      2346 4           new_name_desc      : statdesc ;
: 2271      2347 4
: 2272      2348 4           old_name_desc[length] = kgb$s_name ;
: 2273      2349 4           old_name_desc[pointer] = old_name_buff ;
: 2274      2350 4           new_name_desc[length] = .newuserlen ;
: 2275      2351 4           new_name_desc[pointer] = newusername ;
: 2276      2352 4
: 2277      2353 4           uaf$find_uic ( ) ;          ! Build Identifier from the recbuf
: 2278      2354 4
: 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$_RDBMDFYERRU, 2,
: 2287      2363 4             .ident[uic$v_group],
: 2288      2364 4             .ident[uic$v_member], .status)
: 2289      2365 4           else
: 2290      2366 4             begin
: 2291      2367 4               status = $mod_ident ( id      = .ident,
: 2292      2368 4                 new_name = new_name_desc ) ;
: 2293      2369 4             end ;
: 2294      2370 4
: 2295      2371 4             if not .status
: 2296      2372 4             then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, old_name_desc, .status)
: 2297      2373 4             else
: 2298      2374 4               begin
: 2299      2375 4                 rightslist modified = true ;
: 2300      2376 4                 LIB$SIGNAL(UAF$_RDBMDFYMSG, 1, old_name_desc);
: 2301      2377 4                 end ;
: 2302      2378 4             end ;
: 2303      2379 4           end ;
: 2304      2380 4
: 2305      2381 4       end;
: 2306      2382 4       !
: 2307      2383 4       ! Reset flags
: 2308      2384 4       !
: 2309      2385 4       rename_ph2 = false;
: 2310      2386 4       uaf$gl_ctlmsk[uaf$v_rename] = false;
: 2311      2387 4
: 2312      2388 1 end;

```

rename_uaf - rename user record

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[UAF.BUGSRC]UAFMAIN.B32:1

			007C	00000	.ENTRY	RENAME UAF, Save R2,R3,R4,R5,R6	2281
	56	00000000'	00	9E	MOVAB	NEWUSERLEN, R6	
	55	00000000G	00	9E	MOVAB	IDENT, R5	
	54	00000000'	00	9E	MOVAB	UAF\$GL CTLMSK, R4	
	53	00000G00G	00	9E	MOVAB	LIBSSIGNAL, R3	
	5E		30	C2	SUBL2	#48, SP	
	64		01	88	BISB2	#1, UAF\$GL CTLMSK	2316
FA08	CF		00	FB	CALLS	#0, COPY_UAF	2320
	29		50	E9	BLBC	R0, 2\$	
FE96	CF		00	FB	CALLS	#0, REMOVE UAF	2326
		00000000G	8F	DD	PUSHL	#UAF\$ RENMSG	2327
	63		01	FB	CALLS	#1, LIBSSIGNAL	
	09	06F4	C4	E9	BLBC	PWD FLAG, 1\$	2332
		00000000G	8F	DD	PUSHL	#UAF\$ DEFPWD	2333
	63		01	FB	CALLS	#1, LIBSSIGNAL	
00000000G	00	00000000'	00	9F	PUSHAB	SD_MODIFY IDENTIFIER	2338
	60		01	FB	CALLS	#1, CLISPRESNT	
	5C	70	A4	E9	BLBC	R0, 3\$	2339
08	AE	010E0000	8F	D0	MOVL	#17894720, OLD_NAME_DESC	2345
		0C	AE	D4	CLRL	OLD_NAME_DESC+4	
	6E	010E0000	8F	D0	MOVL	#17894720, NEW_NAME_DESC	2346
		04	AE	D4	CLRL	NEW_NAME_DESC+4	
	08		20	B0	MOVW	#32, OLD_NAME_DESC	2348
	0C	10	AE	9E	MOVAB	OLD_NAME_BUFF, OLD_NAME_DESC+4	2349
	6E		66	B0	MOVW	NEWUSERLEN, NEW_NAME_DESC	2350
04	AE	04	A6	9E	MOVAB	NEWUSERNAME, NEW_NAME_DESC+4	2351
00000000G	00		00	FB	CALLS	#0, UAF\$FIND_UIC	2353
			7E	7C	CLRG	-(SP)	2360
			7E	D4	CLRL	-(SP)	
		14	AE	9F	PUSHAB	OLD_NAME_DESC	
		18	AE	9F	PUSHAB	OLD_NAME_DESC	
00000000G	00		65	DD	PUSHL	IDENT	
	52		06	FB	CALLS	#6, SYSSIDTOASC	
	18		50	D0	MOVL	R0, STATUS	
			52	EB	BLBS	STATUS, 4\$	2361
			52	DD	PUSHL	STATUS	2364
7E			65	3C	MOVZWL	IDENT, -(SP)	
02	A5		00	EF	EXTZV	#0, #14, IDENT+2, -(SP)	2363
			02	DD	PUSHL	#2	2362
		00000000G	8F	DD	PUSHL	#UAF\$ RDBMDFYERR	
	63		05	FB	CALLS	#5, LIBSSIGNAL	
			3A	11	BRB	6\$	
			7E	D4	CLRL	-(SP)	2369
		04	AE	9F	PUSHAB	NEW_NAME_DESC	
			7E	7C	CLRG	-(SP)	
00000000G	00		65	DD	PUSHL	IDENT	
	52		05	FB	CALLS	#5, SYSSMOD_IDENT	
	12		50	D0	MOVL	R0, STATUS	
			52	EB	BLBS	STATUS, 5\$	2371
			52	DD	PUSHL	STATUS	2372
		0C	AE	9F	PUSHAB	OLD_NAME_DESC	
			01	DD	PUSHL	#1	
		00000000G	8F	DD	PUSHL	#UAF\$ RDBMDFYERR	
	63		04	FB	CALLS	#4, LIBSSIGNAL	
			12	11	BRB	6\$	
78	A4		01	90	MOVW	#1, RIGHTSLIST_MODIFIED	2375

UAFMAIN
V04-000

rename_uaf - rename user record

N 10

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[UAF.BUGSRC]UAFMAIN.B32;1

(14)

08 AE 9F 000E6
01 DD 000E9
63 00000000G 8F DD 000EB
03 FB 000F1
64 D8 A6 94 000F4 6S:
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      nafrab[rab$l_rop] = rab$m_rlk;          ! Lock records for writing
: 2363      2438      nafrab[rab$b_rac] = rab$c_seq;
: 2364      2439      $rewind (rab = nafrab);
: 2365      2440
: 2366      2441
: 2367      2442      Until EOF...
: 2368      2443
: 2369      2444
: 2370      2445      while status = get_proxy_record ()

```



```

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

```

: 2428
: 2429
: 2430
: 2431
: 2432
: 2433
: 2434

```

2503 2 LIB$SIGNAL(UAF$_ZZPRACREN, 2, .olduserlen, oldusername);
2504
2505
2506
2507
2508 2 Return to keyed access
2509 1 nafrab[rab$b_rac] = rab$c_key;
end;
    
```

				07FC 00000			.EXTRN SYSSREWIND	
						.ENTRY	ADJUST_PROXY, Save R2,R3,R4,R5,R6,R7,R8,R9,-;	2390
							R10	
		5A	00000000V	00	9E	00002	MOVAB SECURITY_AUDIT, R10	
		59	00000000'	00	9E	00009	MOVAB OLDUSERNAME, R9	
		58	00000000'	00	9E	00010	MOVAB NETBUF+64, R8	
				56	D4	00017	CLRL MODIFIED	2391
	6C	AB	00080000	8F	D0	00019	MOVL #524288, NAFRAB+4	2438
			0086	C8	94	00021	CLRB NAFRAB+30	2439
			68	AB	9F	00025	PUSHAB NAFRAB	2440
		00000000G	00	01	FB	00028	CALLS #1, SYSSREWIND	
		00000000V	00	00	FB	0002F	CALLS #0, GET_PROXY_RECORD	2445
			57	50	D0	00036	MOVL R0, STATUS	
			03	57	E8	00039	BLBS STATUS, 2\$	
				0081	31	0003C	BRW 8\$	
	f.8		20	20	3A	0003F	LOCC #32, #32, NETBUF+64	2460
				02	12	00043	BNEQ 3\$	
				51	D4	00045	CLRL R1	
				51	D5	00047	TSTL BLANK_PTR	
				05	12	00049	BNEQ 4\$	
			50	20	D0	0004B	MOVL #32, LOCUSER_LEN	2462
				07	11	0004E	BRB 5\$	
			52	68	9E	00050	MOVAB NETBUF+64, R2	2464
	50		51	52	C3	00053	SUBL3 R2, BLANK_PTR, LOCUSER_LEN	
			30	AC	E9	00057	BLBC REMOVE, 7\$	2472
			51	FA1C	C8	3C	MOVZWL TOKENLEN, R1	
			50		51	D1	CMPL R1, LOCUSER_LEN	
				CA	12	00063	BNEQ 1\$	
			52	FA20	C8	D0	MOVL TOKENPTR, R2	2473
50		00	62		51	2D	CMPC5 R1, (R2), #0, LOCUSER_LEN, NETBUF+64	
				68		0006F		
				BD	12	00070	BNEQ 1\$	
		F4	A9	01	D0	00072	MOVL #1, NETUAF_MODIFIED	2476
				AB	9F	00076	PUSHAB NAFRAB	2477
		00000000G	00	01	FB	00079	CALLS #1, SYSSDELETE	
				8F	DD	00080	PUSHL #1, 1075	2478
			6A	01	FB	00086	CALLS #1, SECURITY_AUDIT	
				A4	11	00089	BRB 1\$	2469
			56	01	D0	0008B	MOVL #1, MODIFIED	2487
			51	FA	A9	D0	MOVL OLDUSERLEN, R1	2488
			50		51	D1	CMPL R1, LOCUSER_LEN	
				98	12	00095	BNEQ 1\$	
50		00	69	51	2D	00097	CMPC5 R1, OLDUSERNAME, #0, LOCUSER_LEN, NETBUF+64	2490
				68		0009C		
				90	12	0009D	BNEQ 1\$	
	68	FA40	C8	20	28	0009F	MOV3 #32, RECBUF+4, NETBUF+64	2494

00000000G	00	68	A8	9F	000A5	PUSHAB	NAFRAB	:	2495
F4	A9		01	FB	000A8	CALLS	#1, SYSSUPDATE	:	
			01	DD	000AF	MOVL	#1, NETUAF_MODIFIED	:	2496
		00030003	59	DD	000B3	PUSHL	R9	:	2497
	6A		8F	DD	000B5	PUSHL	#196611	:	
			02	FB	000BB	CALLS	#2, SECURITY_AUDIT	:	
	14		C9	11	000BE	BRB	6\$	:	2445
			56	E9	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 |
: 2443      2517 2 | FUNCTIONAL DESCRIPTION:
: 2444      2518 2 |
: 2445      2519 2 |     Change a default value in the default record.
: 2446      2520 2 |
: 2447      2521 2 | INPUTS:
: 2448      2522 2 |
: 2449      2523 2 |     none
: 2450      2524 2 |
: 2451      2525 2 | IMPLICIT INPUTS:
: 2452      2526 2 |
: 2453      2527 2 |     none
: 2454      2528 2 |
: 2455      2529 2 | OUTPUTS:
: 2456      2530 2 |
: 2457      2531 2 |     none
: 2458      2532 2 |
: 2459      2533 2 | IMPLICIT OUTPUTS:
: 2460      2534 2 |
: 2461      2535 2 |     none
: 2462      2536 2 |
: 2463      2537 2 | ROUTINE VALUE:
: 2464      2538 2 |
: 2465      2539 2 |     none
: 2466      2540 2 |
: 2467      2541 2 | SIDE EFFECTS:
: 2468      2542 2 |
: 2469      2543 2 |     none
: 2470      2544 2 |
: 2471      2545 2 |
: 2472      2546 2 |
: 2473      2547 2 | |
: 2474      2548 2 | | Locate default record and load it into RECBUF
: 2475      2549 2 | | if not already there (via an indirect MODIFY DEFAULT)
: 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[ra]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[ra]))
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[ra]);
2531 2605 2
2532 2606 2  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	DEFUSER+1	:
	00000000*	00 9A 00022	MOVZBL	DEFUSER, -(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

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[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, LIBSSIGNAL		
	0458	C7	0612	C6	B0	0005C	MOVW	UAFRAB+34, DEFAULT_SIZE		2582
045C	C7	08	A6	C7	28	00063	MOVW	DEFAULT_SIZE, RECBUF, DEFAULT_RECORD		2583
			05F0	C6	9F	0006C	PUSHAB	UAFRAB		2588
		00	00	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, LIBSSIGNAL		
				04	0008A		RET			
	04	A7	01	D0	0008B	4\$:	MOVL	#1, MODIFY_FLAG		2593
			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, LIBSSIGNAL		
				04	000A8		RET			
			67	D4	000A9	5\$:	CLRL	MOD_DEFAULT		2599
			04	000AB			RET			2573
			05F0	C6	9F	000AC	PUSHAB	UAFRAB		2604
	00000000G	00	01	FB	000B0	6\$:	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 LIBSSIGNAL(UAF$_NAFDNE);
2567 2640 2
2568 2641 2
2569 2642 2 Set up the listing file FAB and connect RAB
2570 2643 2
2571 2644 2 nlstfab[fab$_dlt] = false;
2572 2645 2 if rmsbad ($create (fab = nlstfab))
2573 2646 2 then return LIBSSIGNAL(UAF$_LSTERR, 0, .rmserr);
2574 2647 2
2575 2648 2 if rmsbad ($connect (rab = nlstrab))
2576 2649 2 then return LIBSSIGNAL(UAF$_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 = nlstrab;
2585 2658 2 action = display_proxy;
2586 2659 2 header_flag = true;
2587 2660 2 nfab[rab$_l_rop] = rab$_rrl or rab$_nlk;
2588 2661 2
2589 2662 2 LIBSSIGNAL(UAF$_LSTMSG1);
2590 2663 2
```

```

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     Disconnect RAB and close FAB
2608 2681 2
2609 2682 2 $disconnect (rab = nlstrab);
2610 2683 2 $close (fab = nlstfab);
2611 2684 2
2612 2685 2 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\$_NAFDNE	2639
	65		01 FB 00028		CALLS #1, LIBSSIGNAL	
			04 0002B		RET	
	B5	A4	80 8F 8A 0002C	1\$:	BICB2 #128, NLSTFAB+5	2644
			B0 A4 9F 00031		PUSHAB NLSTFAB	2645
	00000000G	00	01 FB 00034		CALLS #1, SYSSCREATE	
		63	50 D0 0003B		MOVL R0, RMSERR	
		0F	50 E9 0003E		BLBC R0, 2\$	
	00000000G	00	54 DD 00041		PUSHL R4	2648
		63	01 FB 00043		CALLS #1, SYSSCONNECT	
		0A	50 D0 0004A		MOVL R0, RMSERR	
			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	E8	00094	BLBS	R0, 5\$:	
	50		63	DD	00097	MOVL	RMSERR, R0	:	2670
000182B2	8F		50	D1	0009A	CMPL	R0, #98994	:	
		00000000G	08	12	000A1	BNEQ	4\$:	
			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	:	2667
		00000000G	09	11	000B4	BRB	7\$	:	2677
			8F	DD	000B6	PUSHL	#UAF\$_NETLSTMSG	:	
	65		01	FB	000BC	CALLS	#1, LIB\$SIGNAL	:	2682
			54	DD	000BF	PUSHL	R4	:	
00000000G	00		01	FB	000C1	CALLS	#1, SYSSDISCONNECT	:	2683
		B0	A4	9F	000CB	PUSHAB	NLSTFAB	:	2685
00000000G	00		01	FB	000CB	CALLS	#1, SYSSCLOSE	:	
			04	000D2	RET			:	2685

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

list_uaf - list file routine

```

: 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(UAF$_LSTERR, 0, .rmserr);
2680      2752      2
2681      2753      2      if rmsbad ($connect (rab = lstrab))
2682      2754      2      then return LIBSSIGNAL(UAF$_LSTERR, 0, .rmserr);
2683      2755      2
2684      2756      2      |
2685      2757      2      | Request a header record for the file and aim RABPTR at our RAB.
2686      2758      2      |
2687      2759      2
2688      2760      2      header_flag = true;
2689      2761      2      rabptr = lstrab;
2690      2762      2      found_match = false;
2691      2763      2      uafrab[rab$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(UAF$_LSTMSG1);          ! announce starting
2706      2778      2
2707      2779      2      if rmsbad (wild_user (.action))
2708      2780      2      then
2709      2781      2          begin
2710      2782      2              if .rmserr eql rms$_rnf
2711      2783      2              then
2712      2784      2                  LIBSSIGNAL(UAF$_BADSPC)
2713      2785      2              else
2714      2786      2                  LIBSSIGNAL(UAF$_LSTERR, 0, .rmserr);
2715      2787      2                  lstfab[fab$v_dlt] = true;          ! press delete button
2716      2788      2              end
2717      2789      2      else
2718      2790      2          LIBSSIGNAL(UAF$_LSTMSG2);
2719      2791      2
2720      2792      2      $disconnect (rab = lstrab);
2721      2793      2      $close (fab = lstfab);
2722      2794      2      end;
```


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

			58	DD	000EC		PUSHL	R8		:
			03	FB	000EE		CALLS	#3, LIBSSIGNAL		:
B5	65		8F	88	000F1	8\$:	BISB2	#128, LSTFAB+5		: 2787
	A3	80	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		:
			A3	9F	0010A		PUSHAB	LSTFAB		: 2793
00000000G	00	B0	01	FB	0010D		CALLS	#1, SYSSCLOSE		:
			04	00114			RET			: 2794

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

show_user_uaf - display user record

```

: 2724 2795 1 %sbtll '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$OUTPUT.
: 2733 2804
: 2734 2805 INPUTS:
: 2735 2806
: 2736 2807     none
: 2737 2808
: 2738 2809 IMPLICIT INPUTS:
: 2739 2810
: 2740 2811     none
: 2741 2812
: 2742 2813 OUTPUTS:
: 2743 2814
: 2744 2815     none
: 2745 2816
: 2746 2817 IMPLICIT OUTPUTS:
: 2747 2818
: 2748 2819     none
: 2749 2820
: 2750 2821 ROUTINE VALUE:
: 2751 2822
: 2752 2823     none
: 2753 2824
: 2754 2825 SIDE EFFECTS:
: 2755 2826
: 2756 2827     none
: 2757 2828 --
: 2758 2829
: 2759 2830 local
: 2760 2831     action;
: 2761 2832
: 2762 2833
: 2763 2834     Obtain the user specification. This sets wildcard flags and initializes
: 2764 2835     the appropriate key in RECBUF.
: 2765 2836
: 2766 2837
: 2767 2838     if not parse_wild (sd_token1,false)           ! Null string is disallowed.
: 2768 2839     then return;
: 2769 2840
: 2770 2841
: 2771 2842     Obtain qualifiers. This determines which display should be used.
: 2772 2843
: 2773 2844     full_flag = true;
: 2774 2845     brief_flag = false;
: 2775 2846
: 2776 2847     if cli$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_ERR, 0, .rmserr);
: 2813      2884      2      end;
: 2814      2885      2      end;

```

			007C	00000	.ENTRY	SHOW USER UAF, Save R2,R3,R4,R5,R6	: 2796
	56	00000000G	00	9E 00002	MOVAB	LIB\$SIGNAL, R6	:
	55	00000000G	00	9E 00009	MOVAB	CLISPRESNT, R5	:
	54	00000000'	00	9E 00010	MOVAB	SD TOKEN1, R4	:
	53	00000000'	00	9E 00017	MOVAB	BRIEF FLAG, R3	:
	52	00J00000'	00	9E 0001E	MOVAB	RMSERR, R2	:
			7E	D4 00025	CLRL	-(SP)	: 2838
			54	DD 00027	PUSHL	R4	:
	00000000G	00	02	FB 00029	CALLS	#2, PARSE_WILD	:
	7B		50	E9 00030	BLBC	R0, 5\$:
	04	A3	01	D0 00033	MOVL	#1, FULL FLAG	: 2844
			63	D4 00037	CLRL	BRIEF FLAG	: 2845
		20	A4	9F 00039	PUSHAB	SD BRIEF	: 2847
	65		01	FB 0003C	CALLS	#1, CLISPRESNT	:
	09		50	E8 0003F	BLBS	R0, 1\$:
		2C	A4	9F 00042	PUSHAB	SD_FULL	:
	65		01	FB 00045	CALLS	#1, CLISPRESNT	:
	03		50	E8 00048	BLBS	R0, 2\$:

show_user_uf - display user record

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

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

	63		01	7D	0004B	1\$:	MOVQ	#1, BRIEF FLAG	:	2850
08	A3		01	D0	0004E	2\$:	MOVL	#1, HEADER FLAG	:	2858
80	A2	0684	C2	9E	00052		MOVAB	OUTRAB, RABPTR	:	2859
		06C8	C2	D4	00058		CLRL	FOUND MATCH	:	2860
C5F4	C2	00100008	8F	D0	0005C		MOVL	#1048584, UAFRAB+4	:	2861
		00000000G	00	94	00065		CLRB	RDB LIST FLAG	:	2866
	50	00000000V	00	9E	0006B		MOVAB	DISPLAY FULL, ACTION	:	2872
	07		63	E9	00072		BLBC	BRIEF FLAG, 3\$	:	2873
	50	00000000V	00	9E	00075		MOVAB	DISPLAY_BRIEF, ACTION	:	2874
			50	DD	0007C	3\$:	PUSHL	ACTION	:	2876
00000000V	00		01	FB	0007E		CALLS	#1, WILD USER	:	
	62		50	D0	00085		MOVL	R0, RMSERR	:	
	23		50	E8	00088		BLBS	R0, 5\$:	
	50		62	D0	0008B		MOVL	RMSERR, R0	:	2879
000182B2	8F		50	D1	0008E		CMPL	R0, #98994	:	
			0A	12	00095		BNEQ	4\$:	
		00000000G	8F	DD	00097		PUSHL	#UAF\$ BADSPC	:	2881
	66		01	FB	0009D		CALLS	#1, LIBSSIGNAL	:	
				04	000A0		RET		:	
			50	DD	000A1	4\$:	PUSHL	R0	:	2883
			7E	D4	000A3		CLRL	-(SP)	:	
		00000000G	8F	DD	000A5		PUSHL	#UAF\$ SHOW_ERR	:	
	66		03	FB	000AB		CALLS	#3, LIBSSIGNAL	:	
			04	000AE	5\$:		RET		:	2885

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

```

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

			00000000'	00	9F	00022	PUSHAB	SD_TOKEN1			
		00000000G		00	FB	00028	CALLS	#2, CLISGET VALUE		2939	
		00000000'		00	D0	0002F	MOVL	#1, HEADER_FLAG		2944	
				52	3C	00036	MOVZWL	TOKENLEN, R2			
				53	A6	00039	MOVL	TOKENPTR, R3			
63			04	52	25	0003D	LOCC	#37, R2, (R3)			
					02	12	00041	BNEQ	2\$		
					51	D4	00043	CLRL	R1		
					51	D5	00045	TSTL	R1	2\$:	
					0C	12	00047	BNEQ	4\$		
63				52	2A	00049	LOCC	#42, R2, (R3)		2945	
					02	12	0004D	BNEQ	3\$		
					51	D4	0004F	CLRL	R1		
					51	D5	00051	TSTL	R1	3\$:	
					0F	13	00053	BEQL	5\$		
		F8	A6	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	0C	BE	08	AE	2C	0007A	BLBC	R0, 9\$		
					05A4	C6	00081	MOVCS	NODE_LEN, @NODE_PTR, #32, #32, NETBUF	2961	
20	20	04	BE	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	R0, RMSERR		
			24		50	E8	000B4	BLBS	R0, 9\$		
			50	18	A6	D0	000B7	MOVL	RMSERR, R0	2980	
		000182B2	8F		50	D1	000BB	CPL	R0, #98994		
					0A	12	000C2	BNEQ	8\$		
					8F	DD	000C4	PUSHL	#UAF\$ BADSPC	2982	
			67	00000000G	01	FB	000CA	CALLS	#1, LIBSSIGNAL		
						04	000CD	RET			
					50	DD	000CE	PUSHL	R0	2981	
					7E	D4	000D0	CLRL	-(SP)		
					8F	DD	000D2	PUSHL	#UAF\$ SHOW_ERR		
			67	00000000G	03	FB	000D8	CALLS	#3, LIBSSIGNAL		
					04	000DB	9\$:	RET		2986	

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

locate_proxy - access given proxy record (s)

```

2918 2987 1 %sbttl 'locate_proxy - access given proxy record (s)'
2919 2988 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     $rewind (rab = nafrab);
2953 3022     end;
2954 3023
2955 3024 status = get_proxy_record ();
2956 3025
2957 3026 :
2958 3027     Fetch record and call action routine until EOF
2959 3028
2960 3029 if .status
2961 3030 then (.action) ();
2962 3031
2963 3032 if .wild_netuser
2964 3033 then
2965 3034     begin
2966 3035     while status = get_proxy_record ()
2967 3036     do (.action) ();
2968 3037     if .status egl rms$eof
2969 3038     then status = true;
2970 3039     end;
2971 3040
2972 3041 :
2973 3042     Restore keyed access
2974 3043

```

locate_proxy - access given proxy record (s)

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```

: 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:
                                .WORD      Save R2,R3,R4
                                54 00000000V 00 9E 00002  MOVAB  GET PROXY RECORD, R4
                                53 00000000' 00 9E 00009  MOVAB  WILD_NETUSER, R3
                                OF          63 E9 00010  BLBC  WILD_NETUSER, 1$
                                0672      C3 94 00013  CLRB  NAFRAB+30
                                0654      C3 9F 00017  PUSHAB NAFRAB
                                00000000G 00 01 FB 0001B  CALLS #1, SYSSREWIND
                                64          00 FB 00022 1$: CALLS #0, GET PROXY_RECORD
                                52          50 D0 00025  MOVL  R0, STATUS
                                04 04      52 E9 00028  BLBC  STATUS, 2$
                                BC 00      00 FB 0002B  CALLS #0, @ACTION
                                1B 63      E9 0002F 2$: BLBC  WILD_NETUSER, 5$
                                64 00      FB 00032 3$: CALLS #0, GET PROXY_RECORD
                                52          50 D0 00035  MOVL  R0, STATUS
                                06          52 E9 00038  BLBC  STATUS, 4$
                                04 BC      00 FB 0003B  CALLS #0, @ACTION
                                0001827A 8F F1 11 0003F  BRB   3$
                                52 D1 00041 4$: CMPL STATUS, #98938
                                03 12 00048  BNEQ  5$
                                52 01 D0 0004A  MOVL  #1, STATUS
                                0672 C3 01 90 0004D 5$: MOVB  #1, NAFRAB+30
                                12 63 E9 00052  BLBC  WILD_NETUSER, 6$
                                OD          C3 E8 00055  BLBS  FOUND_MATCH, 6$
                                00000000G 00 8F DD 0005A  PUSHL #UAF$_BADSPC
                                50          01 FB 00060  CALLS #1, LIB$SIGNAL
                                52 D0 00067 6$: MOVL  STATUS, R0
                                04 0006A  RET
    
```

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

get_proxy_record - read single proxy record

```

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

```

.EXTRN SYSSGET, SYSSCHDWK
.EXTRN SYSSHIBER

000C 00000 GET_PROXY RECORD:

	52	00000000'	08 D0 00002	1\$:	WORD	Save R2,R3	3052
			00 9F 00005		MOVL	#8, COUNTER	3079
00000000G	00		01 FB 0000B		PUSHAB	NAFRAB	3081
	53		50 D0 00012		CALLS	#1, SYSSGET	
000182AA	8F		53 D1 00015		MOVL	R0, SUCCESS	
			21 12 0001C		CMPL	SUCCESS, #98986	
			52 D7 0001E		BNEQ	2\$	
			1D 19 00020		DECL	COUNTER	3082
			7E D4 00022		BLSS	2\$	
		00000000'	00 9F 00024		CLRL	-(SP)	3084
00000000G	00		7E 7C 0002A		PUSHAB	WAKEDELTA	
			04 FB 0002C		CLRL	-(SP)	
					CALLS	#4, SYSSCHDWK	

UAFMAIN
V04-000

get_proxy_record - read single proxy record

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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 routine display_proxy : novalue =
3023 3090 begin
3024 3091
3025 3092 |++
3026 3093
3027 3094 FUNCTIONAL DESCRIPTION:
3028 3095 This routine formats and outputs a line of a NETUAF.DAT entry
3029 3096
3030 3097 INPUTS:
3031 3098 none
3032 3099
3033 1000 OUTPUTS:
3034 1001 none
3035 1002
3036 1003 SIDE EFFECTS:
3037 1004 none
3038 1005
3039 1006
3040 1007
3041 1008
3042 1009
3043 1100 |--
3044 1101
3045 1102 bind
3046 1103 nafhdr = cstring (' Node Remote User Local User'),
3047 1104 shownaf = cstring ('!6AD::!12AD !12AD');
3048 1105
3049 1106
3050 1107 if .wild_netuser
3051 1108 and not
3052 1109 begin
3053 1110 local
3054 1111 nodelen, usrlen, proxy_buf : vector[naf$s_remname+2,byte];
3055 1112 map
3056 1113 dbl_colon : vector;
3057 1114
3058 1115 nodelen = namelen (naf$s_node, netbuf[naf$t_node]);
3059 1116 usrlen = namelen (naf$s_remuser, netbuf[naf$t_remuser]);
3060 1117 ch$move (.nodelen, netbuf[naf$t_node], proxy_buf [0]);
3061 1118 ch$move (2, .dbl_colon[1], proxy_buf [.nodelen]);
3062 1119 ch$move (.usrlen, netbuf [naf$t_remuser], proxy_buf [.nodelen+2]);
3063 1120
3064 1121 usrlen = .nodelen + .usrlen + 2;
3065 1122 fmg$match_name (.usrlen, proxy_buf, .match_tokenlen, match_token)
3066 1123 end
3067 1124 then
3068 1125 return;
3069 1126
3070 1127 found_match = true;
3071 1128
3072 1129 if .header_flag
3073 1130 then
3074 1131 begin
3075 1132 faomac (nafhdr);
3076 1133 output_null;
3077 1134 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\
72 65 73 55 0027C
14 0028B P.ACR: .BYTE 20
20 20 20 20 44 41 32 31 21 3A 3A 44 41 36 21 0028F .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$PUT, R10
58 00000000' 00 9E 00017 MOVAB DBL COLON+4, R9
5E BC AE 9E 0001E MOVAB RABPTR, R8
47 60 A8 E9 00022 MOVAB -68(SP), SP
060C C8 20 20 3A 00026 BLBC WILD_NETUSER, 1$ : 3117
56 20 50 C3 0002C LOCC #32, #32, NETBUF : 3125
062C 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 60 B0 00043 MOVL DBL COLON+4, R0 : 3128
9E 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 A8 9E 00056 MOVAB 2(USRLEN)[NODELEN], USRLEN : 3131
53 6E 9E 0005A MOVAB MATCH_TOKEN, R5 : 3132
54 5C A8 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 A8 0158 C9 9B 00075 BLBC HEADER_FLAG, 2$ : 3142
MOVZBW NAFHDR, FAODSC

```

UAFMAIN
V04-000

display_proxy - format and output a proxy entry

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	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	
	00000000G	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	
	F8	A8	017B	6B	D4	000A2	CLRL	HEADER FLAG	3144
	FC	A8	017C	C9	9B	000A4	MOVZBW	SHOWNAF, FAODSC	3153
			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			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,*] TFTF All users in the specified group (by member)
3114 3180 2 [* ,Member] TTFF 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 --

```

wild_user - user wild card routine

```

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,                      ! This routine's status
3155 3221 2     lmtkey : block[4,byte];    ! Limiting key value for sequential loop
3156 3222 2
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$v_kge] = true;
3175 3241 2
3176 3242 2
3177 3243 2     LMTKEY need be loaded only IF .UIC_FLAG AND NOT (.GRP_WILD AND .MEM_WILD)
3178 3244 2     but it is simpler to always load it.
3179 3245 2
3180 3246 2
3181 3247 2 lmtkey[lmt_l_uic] = .recbuf[uaf$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 4 |
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$_rnf;
3219      3285 5 |         end;
3220      3286 5 |     end;
3221      3287 5 | end;
3222      3288 5 |
3223      3289 5 | if .status
3224      3290 5 | then
3225      3291 5 |     begin
3226      3292 5 |
3227      3293 5 |     Feed the action routine the first record. In the case of an explicit
3228      3294 5 |     username specification this will be the only record.
3229      3295 5 |
3230      3296 5 |     while .status
3231      3297 5 |     do
3232      3298 5 |         begin
3233      3299 5 |             if (
3234      3300 5 |                 if .grp_wild and not .mem_wild
3235      3301 5 |                 then .recbuf[uaf$w_mem] eql .lmtkey[lmt_w_mem]
3236      3302 5 |                 else true
3237      3303 5 |             )
3238      3304 5 |             then status = (.action) ();
3239      3305 5 |             if not .status then exitloop;
3240      3306 5 |             if not (.str_wild or .uic_flag)
3241      3307 5 |             then exitloop;
3242      3308 5 |             status = get_uaf_record ();
3243      3309 5 |             if not .status then exitloop;
3244      3310 5 |             if .uic_flag
3245      3311 5 |             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 5 |                 begin
3257      3323 5 |                     if .lmtkey[lmt_w_grp] nequ .recbuf[uaf$w_grp]
3258      3324 5 |                     then exitloop;
3259      3325 5 |                     end;
3260      3326 5 |                 if not (.grp_wild or .mem_wild)

```

wild_user - user wild card routine

```

3261      then
3262      [Group,Member]
3263      begin
3264      if .lmtkey[lmt_l_uic] nequ .recbuf[uaf$l_uic]
3265      then exitloop;
3266      end;
3267      end;
3268      ! end of wild carding loop
3269      if .status eql rms$_eof
3270      then status = true;
3271      ! Hitting EOF is ok
3272      end;
3273      if .str wild and not .found_match
3274      then LIB$SIGNAL(UAF$_BADSPC);
3275      !
3276      ! The RAB must be returned to its former state before exiting.
3277      uafrab[rab$b_rac] = rab$c_key;
3278      if .uic_flag
3279      then
3280      begin
3281      uafrab[rab$b_krf] = 0;
3282      uafrab[rab$l_kbf] = recbuf[uaf$t_username];
3283      uafrab[rab$b_ksz] = uaf$s_username;
3284      end;
3285      !
3286      ! Reset parse count
3287      call_count = 0;
3288      .status
3289      end;
3290
3291
3292
3293
3294
3295
3296
3297

```

			001C 00000	.ENTRY	WILD USER, Save R2,R3,R4	3157
	54	00000000V	00 9E 00002	MOVAB	GET_OAF_RECORD, R4	
	53	00000000'	00 9E 00009	MOVAB	GRP_WILD, R3	
	5E		04 C2 00010	SUBL2	#4, SP	
	0E	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, SYSSREWIND	
	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	08	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	00	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 routine display_brief =
3301 3366 begin
3302 3367
3303 3368 |++
3304 3369
3305 3370 FUNCTIONAL DESCRIPTION:
3306 3371
3307 3372 Provide an ASCII listing of the most important record information
3308 3373 (username, owner, etc.) for each record supplied.
3309 3374
3310 3375 INPUTS:
3311 3376
3312 3377 none
3313 3378
3314 3379 IMPLICIT INPUTS:
3315 3380
3316 3381 RABPTR - RMS data structure for the file
3317 3382
3318 3383 OUTPUTS:
3319 3384
3320 3385 none
3321 3386
3322 3387 IMPLICIT OUTPUTS:
3323 3388
3324 3389 none
3325 3390
3326 3391 ROUTINE VALUE:
3327 3392
3328 3393 none
3329 3394
3330 3395 SIDE EFFECTS:
3331 3396
3332 3397 none
3333 3398 |--
3334 3399
3335 3400 bind
3336 3401 P lststr1 = cstring (' Owner Username UIC Account Privs',
3337 3402 ' Pri Directory'),
3338 3403 lststr2 = cstring ('!20AC !12AD !15XU !8AF !6AC !2UL !AC!AC');
3339 3404
3340 3405 |
3341 3406 | Output a header if one was requested.
3342 3407
3343 3408 if .header_flag
3344 3409 then
3345 3410 begin
3346 3411 faomac (lststr1);
3347 3412 output_null;
3348 3413 header_flag = false;
3349 3414 end;
3350 3415
3351 3416 if .str_wild and not fmg$match_name (namelen (uaf$s_username,recbuf[uaf$t_username]),
3352 3417 recbuf[uaf$t_username],
3353 3418 .match_tokenlen, match_token)
3354 3419 then return true;
3355 3420

```


display_brief - writes a brief user display

I 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

```

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	43	49	55	002C3		.ASCII	\UIC	Account	Privs	Pri	Directory\
44	20	69	72	50	20	73	76	69	72	50	20	20	74	6E	002CD							
35	31	21	20	44	41	32	31	21	20	43	41	30	32	21	002DC	P.ACT:	.BYTE	39				
32	21	20	43	41	36	21	20	46	41	38	21	20	55	25	002F3		.ASCII	\!20AC !12AD !15%U !8AF !6AC !2UL !AC!AC\				
						43	41	21	43	41	21	20	4C	55	002F4							
															00303							
															00312							

LSTSTR1= P.ACS
LSTSTR2= P.ACT

														.PSECT		SCODES, NOWRT, 2			
														07FC 0000		DISPLAY_BRIEF:			
						5A	00000000'	00	9E	00002		.WORD	Save R2, R3, R4, R5, R6, R7, R8, R9, R10	3365					
						59	00000000G	00	9E	00009		MOVAB	HEADER FLAG, R10						
						58	00000000G	00	9E	00010		MOVAB	SYSSFA0, R9						
						57	00000000'	00	9E	00017		MOVAB	SYSSPUT, R8						
						56	00000000'	00	9E	0001E		MOVAB	LSTSTR1, R7						
						28		6A	E9	00025		MOVAB	RABPTR, R6						
						F8	A6	67	9B	00028		BLBC	HEADER FLAG, 1\$	3408					
						FC	A6	A7	9E	0002C		MOVZBW	LSTSTR1, FA0DSC	3411					
								01	A7	9E	0002C		MOVAB	LSTSTR1+1, FA0DSC+4					
								F0	A6	9F	00031		PUSHAB	DISDSC					
						7E	66		22	C1	00034		ADDL3	#34, RABPTR, -(SP)					

				69	F8	A6	9F	00038	PUSHAB	FAODSC			
						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	1\$:	BLBC	STR WID, 2\$	3416	
				55	18	A6	9E	00055		MOVAB	MATCH_TOKEN, R5	3417	
				53	008C	C6	9E	00059		MOVAB	RECBUF+4, R3		
	008C	C6		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, 3\$		
				0084	8F	20	0748	C6	01	DD	00078	2\$:	3421
						6E		00	2C	0007D			3427
							FF6C	C6		00084			
						F8	A6	4F	A7	9B	00087		
						FC	A6	50	A7	9E	0008C		3439
								011C	C6	9F	00091		
								00FC	C6	9F	00095		
							7E	028C	C6	9A	00099		
								00AC	C6	DD	0009E		
								0224	C6	9F	000A2		
						00000000V	00	02	FB	000A6			
								50	DD	000AD			
							00BC	C6	9F	000AF			
								08	DD	000B3			
							00AC	C6	DD	000B5			
							00BC	C6	9F	000B9			
								0C	DD	000BD			
							00DC	C6	9F	000BF			
							F0	A6	9F	000C3			
								7E	66	22	C1	000C6	
							F8	A6	9F	0C0CA			
								69	0D	FB	000CD		
									66	DD	000D0		
								68	01	FB	000D2		
								50	01	DD	000D5	3\$:	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 (prvadr, 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     PRVADR - 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     prvadr : 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 .prvadr[prv$u_cmkrnl]
3428 3492 2 or .prvadr[prv$u_cmexec]
3429 3493 2 or .prvadr[prv$u_sysnam]
3430 3494 2 or .prvadr[prv$u_detach]
3431 3495 2 or .prvadr[prv$u_log_io]
3432 3496 2 or .prvadr[prv$u_setprv]
3433 3497 2 or .prvadr[prv$u_phy_io]
3434 3498 2 or .prvadr[prv$u_pfnmap]
3435 3499 2 or .prvadr[prv$u_sysprv]

```

```

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$prmbbx]
3460 3524 2 or .privadr[priv$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, NOWRT, 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	79	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 0000	CLASSIFY_PRIV:		
			52 00000000'	MOVAB	Save R2	3444
			50 04	MOVAB	LSTPRVA, R2	3491
			35 60	BLBS	PRVADR, R0	3492
31			60 01	BBS	(R0), 1\$	3493
2D			60 02	BBS	#1, (R0), 1\$	3494
29			60 05	BBS	#2, (R0), 1\$	3495
			60 60	TSTB	#5, (R0), 1\$	3496
			25 19	J001E	(R0)	3497
21			60 0E	BBS	1\$	3498
1D			60 16	BBS	#14, (R0), 1\$	3499
19			60 1A	BBS	#22, (R0), 1\$	3500
15			60 1C	BBS	#26, (R0), 1\$	3501
10	04		60 1E	BBS	#28, (R0), 1\$	3502
0C			60 03	BBS	#3, 4(R0), 1\$	3503
00000000G 00	0A	AC	60 1D	BBS	#29, (R0), 1\$	3504
			10 00	CMPZV	#0, #16, UIC+2, EXESGL_SYSUIC	3505
			05 1A	BGTRU	2\$	3506
			51 62	MOVAB	LSTPRVA, R1	3507
			6D 11	BRB	10\$	3508
16			60 06	BBS	#6, (R0), 3\$	3509
12			60 15	BBS	#21, (R0), 3\$	3510
			0E 04	BLBS	4(R0), 3\$	3511
09	04		60 A0	BBS	#1, 4(R0), 3\$	3512
04			60 01	BBS	#6, 4(R0), 3\$	3513
06	04		60 06	BBS	#25, (R0), 4\$	3514
			51 19	BBC	#25, (R0), 4\$	3515
			51 04	MOVAB	LSTPRVB, R1	3516
			4D 11	BRB	10\$	3517
0C			60 0C	BBS	#12, (R0), 5\$	3518
08			60 0D	BBS	#13, (R0), 5\$	3519
			04 02	BLBS	2(R0), 5\$	3520
06			60 12	BBC	#18, (R0), 6\$	3521
			51 0A	MOVAB	LSTPRVC, R1	3522
			37 11	BRB	10\$	3523
20			60 03	BBS	#3, (R0), 7\$	3524
1C			60 04	BBS	#4, (R0), 7\$	3525
18			60 09	BBS	#9, (R0), 7\$	3526
14			60 0A	BBS	#10, (R0), 7\$	3527
10			60 0B	BBS	#11, (R0), 7\$	3528
0C			60 13	BBS	#19, (R0), 7\$	3529
08			60 17	BBS	#23, (R0), 7\$	3530
			04 03	BLBS	3(R0), 7\$	3531
			60 A0	EB	0009C	3532

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

```

: 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)f),
: 3529 3592 2 |     secdays     = cstring ('Secondary days: !7(AC)'),
: 3530 3593 2 |     norestrict  = cstring ('No access restrictions'),
: 3531 3594 2 |     accesshdr1  = cstring (
: 3532 3595 2 |     'Primary 00000000011111111112222 Secondary 00000000011111111112222'),
: 3533 3596 2 |     accesshdr2  = cstring (
: 3534 3597 2 |     'Day Hours 012345678901234567890123 Day Hours 012345678901234567890123'),

```

display_full - writes the full user display

```

3535 3598 ~ netaccess = cstring ('Network: !AD !AD'),
3536 3599 ~ bataccess = cstring ('Batch: !AD !AD'),
3537 3600 ~ locaccess = cstring ('Local: !AD !AD'),
3538 3601 ~ diaaccess = cstring ('Dialup: !AD !AD'),
3539 3602 ~ remaccess = cstring ('Remote: !AD !AD'),
3540 3603 ~ expiration = cstring ('Expiration: !AD Pwdminimum: !2UL Login Fails: !5UL'),
3541 3604 ~ pwddata = cstring ('Pwdlifetime: !AD Pwdchange: !AD !AD'),
3542 3605 ~ lastlogin = cstring ('Last Login: !AD (interactive), !AD (non-interactive)'),
3543 3606 ~ quota1 = cstring ('Maxjobs: !5UL Fillm: !5UL Bytlm: !9UL'),
3544 3607 ~ quota2 = cstring ('Maxacctjobs: !5UL Shrfillm: !5UL Pbytlm: !9UL'),
3545 3608 ~ quota3 = cstring ('Maxdetach: !5UL BIOlm: !5UL JTquota: !9UL'),
3546 3609 ~ quota4 = cstring ('Prclm: !5UL BIOlm: !5UL WSdef: !9UL'),
3547 3610 ~ quota5 = cstring ('Prio: !5UL ASTlm: !5UL WSquo: !9UL'),
3548 3611 ~ quota6 = cstring ('Queprio: !5UL TQElm: !5UL WSextent: !9UL'),
3549 3612 ~ quota7 = cstring ('CPU: !13AD Enqlm: !5UL Pglquo: !9UL'),
3550 3613 ~ privs = cstring ('Authorized Privileges: '),
3551 3614 ~ defprivs = cstring ('Default Privileges: '),
3552 3615 ~
3553 3616 ~ nullstr = cstring (''),
3554 3617 ~
3555 3618 ~ mon = cstring (' Mon'),
3556 3619 ~ tue = cstring (' Tue'),
3557 3620 ~ wed = cstring (' Wed'),
3558 3621 ~ thu = cstring (' Thu'),
3559 3622 ~ fri = cstring (' Fri'),
3560 3623 ~ sat = cstring (' Sat'),
3561 3624 ~ sun = cstring (' Sun'),
3562 3625 ~ noday = cstring (' '),
3563 3626 ~
3564 3627 ~ cputime = recbuf[uaf$l_cputim]; ! CPU limit in hundredths of a second
3565 3628 ~
3566 3629 ~ own
3567 3630 ~ flags_vrctor : vector [32] preset (
3568 3631 ~ [$bitposition (uaf$V_audit)] = cstring (' Audit'),
3569 3632 ~ [$bitposition (uaf$V_captive)] = cstring (' Captive'),
3570 3633 ~ [$bitposition (uaf$V_defcli)] = cstring (' Defcli'),
3571 3634 ~ [$bitposition (uaf$V_disctly)] = cstring (' Disctly'),
3572 3635 ~ [$bitposition (uaf$V_nomail)] = cstring (' Dismail'),
3573 3636 ~ [$bitposition (uaf$V_dismail)] = cstring (' Disnewmail'),
3574 3637 ~ [$bitposition (uaf$V_disreconnect)] = cstring (' Disreconnect'),
3575 3638 ~ [$bitposition (uaf$V_disreport)] = cstring (' Disreport'),
3576 3639 ~ [$bitposition (uaf$V_disacct)] = cstring (' Disuser'),
3577 3640 ~ [$bitposition (uaf$V_diswelcom)] = cstring (' Diswelcome'),
3578 3641 ~ [$bitposition (uaf$V_genpwd)] = cstring (' Genpwd'),
3579 3642 ~ [$bitposition (uaf$V_lockpwd)] = cstring (' Lockpwd'),
3580 3643 ~ [$bitposition (uaf$V_pwd_expired)] = cstring (' Pwd_expired'),
3581 3644 ~ [$bitposition (uaf$V_pwd2_expired)] = cstring (' Pwd2_expired'),
3582 3645 ~ );
3583 3646 ~
3584 3647 ~ local
3585 3648 ~ count, : count for string being built
3586 3649 ~ lcount, : count of chars on current line
3587 3650 ~ string : vector [160, byte], : buffer to build display string
3588 3651 ~ flag_string : ref vector [,byte], : pointer to flag string
3589 3652 ~ delta_time : vector [long, 2], : Scratch area for system delta time
3590 3653 ~ PTR, : pointer into UAF$Q_PWD_DATE quadword
3591 3654 ~ 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$$username,recbuf[uaf$t_username]),
: 3601      3664      2          recbuf[uaf$t_username],
: 3602      3665      2          .match_token[en, match_token)
: 3603      3666      2 then return true;
: 3604      3667      2
: 3605      3668      2 found_match = true;
: 3606      3669      2
: 3607      3670      2 output_null;
: 3608      3671      2
: 3609      P 3672      2 faomac (username,
: 3610      P 3673      2          uaf$$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$t_account],
: 3615      P 3678      2          .recbuf[uaf$l_uic],
: 3616      3679      2          .recbuf[uaf$l_uic]);
: 3617      3680      2
: 3618      P 3681      2 faomac (cli_table,
: 3619      P 3682      2          recbuf[uaf$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$l_flags], .j]
: 3635      3698      2     and (flag_string = .flags_vector [.j]) neq 0
: 3636      3699      2     then
: 3637      3700      4         begin
: 3638      3701      4         if .lcount + .flag_string[0] gtru 80
: 3639      3702      4         then
: 3640      3703      5             begin
: 3641      3704      5             ch$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$V_monday]      then noday      else mon,
3656      P 3719      2          if .recbuf[uaf$V_tuesday]      then noday      else tue,
3657      P 3720      2          if .recbuf[uaf$V_wednesday]      then noday      else wed,
3658      P 3721      2          if .recbuf[uaf$V_thursday]      then noday      else thu,
3659      P 3722      2          if .recbuf[uaf$V_friday]      then noday      else fri,
3660      P 3723      2          if .recbuf[uaf$V_saturday]      then noday      else sat,
3661      3724      2          if .recbuf[uaf$V_sunday]      then noday      else sun);
3662      3725      2
3663      P 3726      2      faomac (secdays,
3664      P 3727      2          if .recbuf[uaf$V_monday]      then mon      else noday,
3665      P 3728      2          if .recbuf[uaf$V_tuesday]      then tue      else noday,
3666      P 3729      2          if .recbuf[uaf$V_wednesday]      then wed      else noday,
3667      P 3730      2          if .recbuf[uaf$V_thursday]      then thu      else noday,
3668      P 3731      2          if .recbuf[uaf$V_friday]      then fri      else noday,
3669      P 3732      2          if .recbuf[uaf$V_saturday]      then sat      else noday,
3670      3733      2          if .recbuf[uaf$V_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 (locaccess, 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$b_remote_access_p]);
3687      3750      2          end;
3688      3751      2
3689      P 3752      2      convert time (recbuf[uaf$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      P 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 e[se 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\			
														21	00355						
46	41	32	33	21	20	20	3A	74	6E	75	6F	63	63	41	00361	P.ADC:	.BYTE	33			
21	28	20	55	25	21	20	20	20	20	3A	43	49	55	20	00362		.ASCII	\Account: !32AF UIC: !%U (!%I)\			
												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	20	00384		.ASCII	\CLI: !32AC Tables: !AC\			
														10	00393						
41	21	43	41	21	20	20	3A	74	6C	75	61	66	65	44	0039F	P.ADE:	.BYTE	16			
														43	003A0		.ASCII	\Default: !AC!AC\			
														0D	003AF						
			43	41	21	20	20	20	3A	44	4D	43	49	47	4C	003B0	P.ADF:	.BYTE	13		
														10	003B1		.ASCII	\LGICMD: !AC\			
41	21	20	3A	73	67	61	6C	46	20	6E	69	67	6F	4C	003BE	P.ADG:	.BYTE	16			
														44	003BF		.ASCII	\Login Flags: !AD\			
														0F	003CE						
20	20	20	20	20	20	20	20	20	20	20	20	20	0A	0D	003CF	P.ADH:	.BYTE	15			
														15	003D0		.ASCII	<13><10>\			
20	20	3A	73	79	61	64	20	79	72	61	6D	69	72	50	003DF	P.ADI:	.BYTE	21			
									29	43	41	28	37	21	003E0		.ASCII	\Primary days: !7(AC)\			
														15	003EF						
3A	73	79	61	64	20	79	72	61	64	6E	6F	63	65	53	003F5	P.ADJ:	.BYTE	21			
									29	43	41	28	37	21	003F6		.ASCII	\Secondary days: !7(AC)\			
														16	00405						
72	74	73	65	72	20	73	73	65	63	63	61	20	6F	4E	0040B	P.ADK:	.BYTE	22			
								73	6E	6F	69	74	63	69	0040C		.ASCII	\No access restrictions\			
														46	0041B						
30	30	30	30	30	20	20	20	79	72	61	6D	69	72	50	00422	P.ADL:	.BYTE	70			
31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	00423		.ASCII	\Primary 0000000001111111112222	Seco\		
														32	00432						
30	30	30	30	30	6F	63	65	53	20	20	32	32	32	32	00441						
32	32	32	32	31	31	31	31	31	31	31	31	31	31	30	0044B		.ASCII	\ndary 0000000001111111112222\			
														46	00448						
34	33	32	31	30	20	73	72	75	6F	48	20	79	61	44	0045A	P.ADM:	.BYTE	70			
39	38	37	36	35	34	33	32	31	30	39	38	37	36	35	0046A		.ASCII	\Day Hours 012345678901234567890123	Day \		
														35	00479						
38	37	36	35	34	33	32	31	30	20	20	33	32	31	30	00488						
33	32	31	30	39	38	37	36	35	34	33	32	31	30	48	00492		.ASCII	\Hours 012345678901234567890123\			
														39	004A1						

```

20 20 44 41 21 20 20 3A 6B 72 6F 77 74 65 1C 004B0 P.ADN: .BYTE 28
44 41 21 20 20 20 20 20 20 20 20 20 20 4E 004B1 .ASCII \Network: !AD !AD\
44 41 21 20 20 20 20 20 20 20 20 20 20 1C 004C0
20 20 44 41 21 20 20 20 20 3A 68 63 74 61 42 004CD P.ADD: .BYTE 28
44 41 21 20 20 20 20 20 20 20 20 20 20 42 004CE .ASCII \Batch: !AD !AD\
20 20 44 41 21 20 20 20 20 3A 6C 61 63 6F 4C 004DD
44 41 21 20 20 20 20 20 20 20 20 20 20 1C 004EA P.ADP: .BYTE 28
44 41 21 20 20 20 20 20 20 20 20 20 20 4C 004EB .ASCII \Local: !AD !AD\
20 20 44 41 21 20 20 20 20 3A 70 75 6C 61 69 44 004FA
44 41 21 20 20 20 20 20 20 20 20 20 20 1C 00507 P.ADQ: .BYTE 28
44 41 21 20 20 20 20 20 20 20 20 20 20 44 00508 .ASCII \Dialup: !AD !AD\
20 20 44 41 21 20 20 20 20 3A 65 74 6F 6D 65 52 00517
44 41 21 20 20 20 20 20 20 20 20 20 20 1C 00524 P.ADR: .BYTE 28
44 41 21 20 20 20 20 20 20 20 20 20 20 52 00525 .ASCII \Remote: !AD !AD\
44 41 21 20 20 20 20 20 20 20 20 20 20 37 00534
44 41 21 20 3A 6E 6F 69 74 61 72 69 70 78 45 00541 P.ADS: .BYTE 55
3A 6D 75 6D 69 6E 69 6D 64 77 50 20 20 20 20 45 00542 .ASCII \Expiration: !AD Pwdminimum: !2UL Lo\
6F 4C 20 20 20 4C 55 32 21 20 00551
4C 55 35 21 20 3A 73 6C 69 61 46 20 6E 69 67 00560 .ASCII \gin fails: !5UL\
20 20 20 3A 65 6D 69 74 65 66 69 6C 64 77 50 00579 P.ADT: .BYTE 45
63 64 77 50 20 20 20 20 44 41 21 20 20 20 20 50 0057A .ASCII \Pwdlifetime: !AD Pwdchange: !A\
41 21 20 20 3A 65 67 6E 61 68 00589
44 41 21 20 44 00598 .ASCII \D !AD\
44 41 21 20 34 005A7 P.ADU: .BYTE 52
44 41 21 20 3A 6E 69 67 6F 4C 20 74 73 61 4C 005A8 .ASCII \Last Login: !AD (interactive), !AD (non-
2C 29 65 76 69 74 63 61 72 65 74 6E 69 28 20 20 005B7 .ASCII
29 65 76 69 74 63 61 72 65 74 6E 69 21 20 20 005C6
35 21 20 20 20 20 20 3A 73 62 6F 6A 78 61 4D 005DC P.ADV: .ASCII \interactive)\
20 20 20 20 20 3A 6D 6C 6C 69 46 20 20 4C 55 005DD .BYTE 50
6C 74 79 42 20 20 4C 55 35 21 005EC .ASCII \Maxjobs: !5UL Fillm: !5UL Bytl\
4C 55 39 21 20 20 20 20 3A 6D 00605
35 21 20 3A 73 62 6F 6A 74 63 63 61 78 61 4D 0060F P.ADW: .BYTE 50
20 20 3A 6D 6C 6C 69 72 68 53 20 20 4C 55 00610 .ASCII \Maxacctjobs: !5UL Shrfillm: !5UL Pbyt\
74 79 62 50 20 20 4C 55 35 21 0061F
4C 55 39 21 20 20 20 20 3A 6D 6C 0062E
35 21 20 20 20 20 3A 68 63 61 74 65 64 78 61 4D 00638 P.ADX: .ASCII \lm: !9UL\
20 20 20 20 20 3A 6D 6C 4F 49 44 20 20 4C 55 00642 .BYTE 50
75 71 54 4A 20 20 4C 55 35 21 00643 .ASCII \Maxdetach: !5UL BIOlm: !5UL JTqu\
4C 55 39 21 20 20 20 20 3A 61 74 6F 00652
35 21 20 20 20 20 20 20 20 3A 6D 6C 63 72 50 00661 P.ADY: .ASCII \ota: !9UL\
20 20 20 20 20 3A 6D 6C 4F 49 44 20 20 4C 55 00668 .BYTE 50
4C 55 39 21 20 20 20 20 3A 66 00675 .ASCII \Prclm: !5UL DIOlm: !5UL WSex\
65 64 53 57 20 20 4C 55 35 21 00676
4C 55 39 21 20 20 20 20 3A 66 00685
35 21 20 20 20 20 20 20 20 20 3A 6F 59 72 50 00694 P.ADZ: .ASCII \f: !9UL\
20 20 20 20 20 3A 6D 6C 54 53 41 20 20 4C 55 0069E .BYTE 50
75 71 53 57 20 20 4C 55 35 21 006A8 .ASCII \Prio: !5UL ASTlm: !5UL WSqu\
4C 55 39 21 20 20 20 20 3A 6F 006A9
35 21 20 20 20 20 20 20 20 20 3A 6F 69 72 70 65 75 32 006B8 P.AEA: .ASCII \o: !9UL\
4C 55 39 21 20 20 20 20 3A 6F 006C7 .BYTE 50
35 21 20 20 20 20 20 20 20 20 3A 6F 69 72 70 65 75 32 006DB .ASCII \Queprio: !5UL TQELm: !5UL WSex\
4C 55 39 21 20 20 20 20 3A 6F 69 72 70 65 75 51 006DC

```

```

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: !5UL Pqflquo: !\
      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 00752 P.AED: .BYTE 20
65 6C 69 76 69 72 50 20 74 6C 75 61 66 65 44 00753 .ASCII \Default Privileges: \
      20 3A 73 65 67 00762
      00 00767 P.AEE: .BYTE 0
      00768 .BLKB 0
      6E 6F 4D 20 0076B P.AEF: .BLKB 0
      04 00769 P.AEG: .BYTE 4
      65 75 54 20 0076E P.AEG: .ASCII \ Mon\
      04 00772 P.AEH: .BYTE 4
      64 65 57 20 00773 P.AEH: .ASCII \ Tue\
      04 00777 P.AEI: .BYTE 4
      75 68 54 20 00778 P.AEI: .ASCII \ Wed\
      04 0077C P.AEJ: .BYTE 4
      69 72 46 20 0077D P.AEJ: .ASCII \ Thu\
      04 00781 P.AEK: .BYTE 4
      74 61 53 20 00782 P.AEK: .ASCII \ Fri\
      04 00786 P.AEL: .BYTE 4
      6E 75 53 20 00787 P.AEL: .ASCII \ Sat\
      04 00788 P.AEM: .BYTE 4
      20 20 20 20 0078C P.AEM: .ASCII \ Sun\
      06 00790 P.AEN: .BYTE 6
      74 69 64 75 41 20 00791 P.AEN: .ASCII \ \
      08 00797 P.AEO: .BYTE 8
      65 76 69 74 70 61 43 20 00798 P.AEO: .ASCII \ Audit\
      07 007A0 P.AEP: .BYTE 8
      69 6C 63 66 65 44 20 007A1 P.AEP: .ASCII \ Captive\
      08 007A8 P.AEQ: .BYTE 7
      79 6C 74 63 73 69 44 20 007A9 P.AEQ: .ASCII \ Defcli\
      08 007B1 P.AER: .BYTE 8
      6C 69 61 6D 73 69 44 20 007B2 P.AER: .ASCII \ Disctly\
      0B 007BA P.AES: .BYTE 8
      6C 69 61 6D 77 65 6E 73 69 44 20 007BB P.AES: .ASCII \ Dismail\
      0D 007C6 P.AET: .BYTE 11
      74 63 65 6E 6E 6F 63 65 72 73 69 44 20 007C7 P.AET: .ASCII \ Disnewmail\
      0A 007D4 P.AEU: .BYTE 13
      74 72 6F 70 65 72 73 69 44 20 007D5 P.AEU: .ASCII \ Disreconnect\
      08 007DF P.AEV: .BYTE 10
      72 65 73 75 73 69 44 20 007E0 P.AEV: .ASCII \ Disreport\
      0B 007E8 P.AEW: .BYTE 8
      65 6D 6F 63 6C 65 77 73 69 44 20 007E9 P.AEW: .ASCII \ Disuser\
      07 007F4 P.AEX: .BYTE 11
      64 77 70 6E 65 47 20 007F5 P.AEX: .ASCII \ Diswelcome\
      08 007FC P.AEY: .BYTE 7
      64 77 70 6B 63 6F 4C 20 007FD P.AEY: .ASCII \ Genpwd\
      0C 00805 P.AEZ: .BYTE 8
      0C 00805 P.AEZ: .ASCII \ Lockpwd\
      0C 00805 P.AEZ: .BYTE 12

```

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

	64	65	72	69	70	78	65	5F	64	77	50	20	00806		
												0D	00812		
65	72	64	65	72	69	70	78	65	5F	32	64	77	50	20	00813
		69	70	78	65	2D	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 SOWNS,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

.BLKB 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
NORESTRICT= P.ADK
ACCESSHDR1= P.ADL
ACCESSHDR2= P.ADM
NETACCESS= P.ADN
BATACCESS= P.ADO
LOCACCESS= P.ADP
DIAACCESS= P.ADQ
REMACCESS= 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

				OFFC 00000	DISPLAY_FULL:		
					.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	3542
		5E	FF1C	CE 9E 00002	MOVAB	-228(SP), SP	3663
		31	00000000'	00 E9 00007	BLBC	STR WILD, 1\$	3664
		55	00000000'	00 9E 0000E	MOVAB	MATCH_TOKEN, R5	3663
		53	00000000'	00 9E 00015	MOVAB	RECBUF+4, R3	3663
00000000'	00	20		20 3A 0001C	LOCC	#32, #32, RECBUF+4	3663
		52	E0	A0 9E 00024	MOVAB	-32(R0), R2	3664
		52		52 CE 00028	MNEGL	R2, R2	3664
		54	00000000'	00 D0 0002B	MOVL	MATCH_TOKENLEN, R4	3666
			00000000G	00 16 00032	JSB	FMGSMATCH_NAME	3666
		04		50 E8 00038	BLBS	R0, 1\$	3666
		50		01 D0 0003B	MOVL	#1, R0	3668
				04 0003E	RET		3668
00000000'	00			01 D0 0003F	MOVL	#1, FOUND_MATCH	3674
		50	00000000'	00 D0 00046	MOVL	RABPTR, R0	3674
			22	A0 B4 0004D	CLRW	34(R0)	3674
				50 DD 00050	PUSHL	R0	3674
00000000G	00			01 FB 00052	CALLS	#1, SYSSPUT	3674
00000000'	00	00000000'		00 9B 00059	MOVZBW	USERNAME, FAODSC	3674
00000000'	00	00000000'		00 9E 00064	MOVAB	USERNAME+1, FAODSC+4	3674
		00000000'		00 9F 0006F	PUSHAB	RECBUF+84	3674
		00000000G		00 9F 00075	PUSHAB	RECBUF+4	3674
				20 DD 0007B	PUSHL	#32	3674
7E 00000000'	00	00000000'		00 9F 0007D	PUSHAB	DISDSC	3674
		00000000'		22 C1 00083	ADDL3	#34, RABPTR, -(SP)	3674
		00000000G		00 9F 0008B	PUSHAB	FAODSC	3674
		00000000'		06 FB 00091	CALLS	#6, SYSSFAO	3674
		00000000G		00 DD 00098	PUSHL	RABPTR	3674
00000000G	00	00000000'		01 FB 0009E	CALLS	#1, SYSSPUT	3674
00000000'	00	00000000'		00 9B 000A5	MOVZBW	ACCOUNT, FAODSC	3679
00000000'	00	00000000'		00 9E 000B0	MOVAB	ACCOUNT+1, FAODSC+4	3679
		50 00000000'		00 D0 000BB	MOVL	RECBUF+36, R0	3679
				50 DD 000C2	PUSHL	R0	3679
				50 DD 000C4	PUSHL	R0	3679
		00000000'		00 9F 000C6	PUSHAB	RECBUF+52	3679
		00000000'		20 DD 000CC	PUSHL	#32	3679
7E 00000000'	00	00000000'		00 9F 000CE	PUSHAB	DISDSC	3679
		00000000'		22 C1 000D4	ADDL3	#34, RABPTR, -(SP)	3679
		00000000G		00 9F 000DC	PUSHAB	FAODSC	3679
		00000000'		07 FB 000E2	CALLS	#7, SYSSFAO	3679
		00000000G		00 DD 000E9	PUSHL	RABPTR	3679
00000000G	00	00000000'		01 FB 000EF	CALLS	#1, SYSSPUT	3683
00000000'	00	00000000'		00 9B 000F6	MOVZBW	CLI_TABLE, FAODSC	3683
00000000'	00	00C00000'		00 9E 00101	MOVAB	CLI_TABLE+1, FAODSC+4	3683
		00000000'		00 9F 0010C	PUSHAB	RECBUF+308	3683
		00000000'		00 9F 00112	PUSHAB	RECBUF+276	3683
		00000000'		00 9F 00118	PUSHAB	DISDSC	3683
7E 00000000'	00	00000000'		22 C1 0011E	ADDL3	#34, RABPTR, -(SP)	3683
		00000000'		00 9F 00126	PUSHAB	FAODSC	3683
		00000000G		05 FB 0012C	CALLS	#5, SYSSFAO	3683
		00000000'		00 DD 00133	PUSHL	RABPTR	3683
00000000G	00	00000000'		01 FB 00139	CALLS	#1, SYSSPUT	3687
00000000'	00	00000000'		00 9B 00140	MOVZBW	DEFAULT, FAODSC	3687
00000000'	00	00000000'		00 9E 0014B	MOVAB	DEFAULT+1, FAODSC+4	3687
		00000000'		00 9F 00156	PUSHAB	RECBUF+148	3687
		00000000'		00 9F 0015C	PUSHAB	RECBUF+116	3687

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

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	BBC	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	CMP	R8, #80		
				18 1B 001FB	BLEQU	3\$		
	58	00000000'	00	9A 001FD	MOVZBL	FLAG_PAD, R8		3704
44 AE47 00000000'	00			58 2B 00204	MOVCL	R8, FLAG_PAD+1, STRING[COUNT]		
	57			58 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	AA			50 2B 00218	MOVCL	R0, 1(FLAG_STRING), STRING[COUNT]		
	50			6A 9A 0021F	MOVZBL	(FLAG_STRING), R0		3709
	57			50 C0 00222	ADDL2	R0, COUNT		
	50			6A 9A 00225	MOVZBL	(FLAG_STRING), R0		3710
	56			50 C0 00228	ADDL2	R0, LCOUNT		
AD	59			1F F3 0022B	AOBLEQ	#31, J, 2\$		3694
00000000'	00			5B B0 0022F	MOVW	R11, FAODSC		3715
00000000'	00	00000000'	00	9E 00236	MOVAB	FLAGS+1, FAODSC+4		
		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			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			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 07 11 002C0 MOVAB NODAY, R0
50 00000000' 00 07 11 002C7 BRB 10$
50 00000000' 00 50 DD 002C9 9$: MOVAB FRI, R0
09 00000000' 00 50 DD 002D0 10$: PUSHL R0
50 00000000' 00 03 E1 002D2 BBC #3, RECBUF+514, 11$
50 00000000' 00 07 11 002DA MOVAB NODAY, R0
50 00000000' 00 07 11 002E1 BRB 12$
09 00000000' 00 50 DD 002E3 11$: MOVAB THU, R0
50 00000000' 00 02 E1 002EA 12$: PUSHL R0
50 00000000' 00 07 11 002EC BBC #2, RECBUF+514, 13$
50 00000000' 00 07 11 002F4 MOVAB NODAY, R0
50 00000000' 00 07 11 002FB BRB 14$
09 00000000' 00 50 DD 002FD 13$: MOVAB WED, R0
50 00000000' 00 50 DD 00304 14$: PUSHL R0
50 00000000' 00 01 E1 00306 BBC #1, RECBUF+514, 15$
50 00000000' 00 07 11 0030E MOVAB NODAY, R0
50 00000000' 00 07 11 00315 BRB 16$
50 00000000' 00 50 DD 00317 15$: MOVAB TUE, R0
09 00000000' 00 50 DD 0031E 16$: PUSHL R0
50 00000000' 00 09 E9 00320 BLBC RECBUF+514, 17$
50 00000000' 00 07 11 00327 MOVAB NODAY, R0
50 00000000' 00 07 11 0032E BRB 18$
50 00000000' 00 50 DD 00330 17$: MOVAB MON, R0
50 00000000' 00 50 DD 00337 18$: PUSHL R0
7E 00000000' 00 00 9F 00339 PUSHAB DISDSC
00000000G 00 22 C1 0033F ADDL3 #34, RABPTR, -(SP)
00000000G 00 00 9F 00347 PUSHAB FAODSC
00000000G 00 0A FB 0034D CALLS #10, SYSS$FAO
00000000G 00 00 DD 00354 PUSHL RABPTR
00000000G 00 01 FB 0035A CALLS #1, SYSS$PUT
00000000G 00 00 9B 00361 MOVZBW SECDAYS, FAODSC
09 00000000' 00 00 9E 0036C MOVAB SECDAYS+1, FAODSC+4
09 00000000' 00 06 E1 00377 BBC #6, RECBUF+514, 19$
50 00000000' 00 07 11 0037F MOVAB SUN, R0
50 00000000' 00 07 11 00386 BRB 20$
09 00000000' 00 50 DD 00388 19$: MOVAB NODAY, R0
50 00000000' 00 05 E1 0038F 20$: PUSHL R0
50 00000000' 00 06 9E 00391 BBC #5, RECBUF+514, 21$
50 00000000' 00 07 11 003A0 MOVAB SAT, R0
09 00000000' 00 50 DD 003A2 21$: BRB 22$
50 00000000' 00 50 DD 003A9 22$: MOVAB NODAY, R0
09 00000000' 00 04 E1 003AB BBC #4, RECBUF+514, 23$
50 00000000' 00 07 11 003B3 MOVAB FRI, R0
50 00000000' 00 07 11 003BA BRB 24$
09 00000000' 00 50 DD 003BC 23$: MOVAB NODAY, R0
50 00000000' 00 03 E1 003C3 24$: PUSHL R0
09 00000000' 00 03 E1 003C5 BBC #3, RECBUF+514, 25$
50 00000000' 00 07 11 003CD MOVAB THU, R0
50 00000000' 00 07 11 003D4 BRB 26$
09 00000000' 00 50 DD 003D6 25$: MOVAB NODAY, R0
50 00000000' 00 02 E1 003DD 26$: PUSHL R0
09 00000000' 00 02 E1 003DF BBC #2, RECBUF+514, 27$
50 00000000' 00 09 E9 003E7 MOVAB WED, R0

```

display_full - writes the full user display

N 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

			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 00413		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	0A FB 00440		CALLS	#10, SYSSFAO			
		00000000'	00 DD 00447		PUSHL	RABPTR			
	00000000G	00	01 FB 0044D		CALLS	#1, SYSSPUT			
00000000'	52	00000000'	00 22 C1 00454		ADDL3	#34, RABPTR, R2			3738
	00	1E	00 02 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	00000000'	00 9F 0048A		PUSHAB	FAODSC			
			03 FB 00490		CALLS	#3, SYSSFAO			
00000000G	00	00000000'	00 DD 00497		PUSHL	RABPTR			
			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	00000000'	03 FB 004CB		CALLS	#3, SYSSFAO			
			00 DD 004D2		PUSHL	RABPTR			
00000000G	00	00000000'	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)			
			00 9F 00503		PUSHAB	FAODSC			
00000000G	00	00000000'	03 FB 00509		CALLS	#3, SYSSFAO			
			00 DD 00510		PUSHL	RABPTR			
00000000G	00	00000000'	01 FB 00516		CALLS	#1, SYSSPUT			
		00000000'	00 9F 0051D		PUSHAB	RECBUF+472			3745
		00000000'	00 9F 00523		PUSHAB	NETACCESS			
00000000V	00	00000000'	02 FB 00529		CALLS	#2, DISPLAY_HOURS			
		00000000'	00 9F 00530		PUSHAB	RECBUF+478			3746
		00000000'	00 9F 00536		PUSHAB	BACCESS			
00000000V	00	00000000'	02 FB 0053C		CALLS	#2, DISPLAY_HOURS			
		00000000'	00 9F 00543		PUSHAB	RECBUF+484			3747

display_full - writes the full user display

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	35\$:	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, -(SP)		
			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	005F8	CMPL	(PTR), #-1		3760
			15	12	005FF	BNEQ	36\$		
FFFFFFFF	8F	04	A0	D1	00601	CMPL	4(PTR), #-1		
			0B	12	00609	BNEQ	36\$		
14 AE 00000000'	00		11	28	0060B	MOVCL	#17, P.AFB, TIME2		3761
			0E	11	00614	BRB	37\$		
		14	AE	9F	00616	36\$:	PUSHAB	TIME2	3763
			11	DD	00619		PUSHL	#17	
			50	DD	0061B		PUSHL	PTR	
00J00000V	00		03	FB	0061D	CALLS	#3, CONVERT_TIME		
			5E	DD	00624	37\$:	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	DD	0064B	PUSHL	SP		
50 00000000'	00	00000000'	00	C9	0064D	BISL3	RECBUF+392, RECBUF+388, R0		
			04	12	00659	BNEQ	38\$		
			7E	D4	0065B	CLRL	-(SP)		
			02	11	0065D	BRB	39\$		
			11	DD	0065F	38\$:	PUSHL	#17	
		1C	AE	9F	00661	39\$:	PUSHAB	TIME2	
			11	DD	00664		PUSHL	#17	
		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)		

		00000000'	00	9F	00679	PUSHAB	FAODSC			
		00000000G	00	09	FB	0067F	CALLS	#9, SYSSFAO		
		00000000'	00	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	C1	006DD	ADDL3	#34, RABPTR, -(SP)			
		00000000G	00	9F	006E5	PUSHAB	FAODSC			
		00000000G	00	07	FB	006EB	CALLS	#7, SYSSFAO		
			00	DD	006F2	PUSHL	RABPTR			
		00000000G	00	01	FB	006FB	CALLS	#1, SYSSPUT		
51		00000000'	00	01	EF	006FF	EXTZV	#1, #31, CPU TIME, R1	3778	
			1F	01	EF	006FF				
		00000000'	00	E9	00708	BLBC	CPU TIME, 40\$		3779	
			09	00	00000000'					
			50	8F	DO	0070F	MOVL	#-100000, R0		
				02	11	00716	BRB	41\$		
				50	D4	00718	CLRL	R0		
3C	AE		50	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	00	3C	0074F	MOVZWL	RECBUF+536, -(SP)		
			7E	00	3C	00756	MOVZWL	RECBUF+518, -(SP)		
			00	9F	0075D	PUSHAB	DISDSC			
7E		00000000'	00	C1	00763	ADDL3	#34, RABPTR, -(SP)			
		00000000'	00	9F	0076B	PUSHAB	FAODSC			
		00000000G	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	0079B	PUSHL	RECBUF+564			
			7E	00	3C	007A1	MOVZWL	RECBUF+538, -(SP)		
			7E	00	3C	007AB	MOVZWL	RECBUF+520, -(SP)		
			00	9F	007AF	PUSHAB	DISDSC			
7E		00000000'	00	C1	007B5	ADDL3	#34, RABPTR, -(SP)			
			00	9F	007BD	PUSHAB	FAODSC			
		00000000G	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		06	FB 00815	CALLS	#6, SYSSFAO	
		00000000'	00	DD 0081C	PUSHL	RABPTR	
00000000G	00		01	FB 00822	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 00829	MOVZBW	QUOTA4, FAODSC	3800
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		06	FB 00867	CALLS	#6, SYSSFAO	
		00000000'	00	DD 0086E	PUSHL	RABPTR	
00000000G	00		01	FB 00874	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 0087B	MOVZBW	QUOTA5, FAODSC	3805
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		06	FB 008B9	CALLS	#6, SYSSFAO	
		00000000'	00	DD 008C0	PUSHL	RABPTR	
00000000G	00		01	FB 008C6	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 008CD	MOVZBW	QUOTA6, FAODSC	3810
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		06	FB 0090B	CALLS	#6, SYSSFAO	
		00000000'	00	DD 00912	PUSHL	RABPTR	
00000000G	00		01	FB 00918	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 0091F	MOVZBW	QUOTA7, FAODSC	3815
00000000'	00	00000000'	00	9E 0092A	MOVAB	QUOTA7+1, FAODSC+4	
		00000000'	00	DD 00935	PUSHL	RECBUF+552	
	7E	00000000'	00	3C 0093B	MOVZWL	RECBUF+534, -(SP)	
		30	AE	9F 00942	PUSHAB	TIME1	
			0D	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		07	FB 0095B	CALLS	#7, SYSSFAO	
		00000000'	00	DD 00962	PUSHL	RABPTR	
00000000G	00		01	FB 00968	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 0096F	MOVZBW	PRIVS, FAODSC	3817
00000000'	00	00000000'	00	9E 0097A	MOVAB	PRIVS+1, FAODSC+4	

display_full - writes the full user display

		00000000'	00	9F 00985	PUSHAB	DISDSC		
7E	00000000'	00	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		3818
	00000000V	00	01	FB 009B3	CALLS	#1, PRINT PRIV		
	00000000'	00	00	9B 009BA	MOVZBW	DEFPRIVS, -FAODSC		3820
	00000000'	00	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		3821
	00000000V	00	01	FB 009FE	CALLS	#1, PRINT PRIV		
		1B 00000000'	00	E9 00A05	BLBC	RDB_EXISTS, 428		3827
	00000000G	00	00	FB 00A0C	CALLS	#0, UAF\$BUILD HOLDER		3830
	00000000G	00	01	90 00A13	MOVB	#1, RDB_HEADER_FLAG		3831
		00000000G	00	9F 00A1A	PUSHAB	HOLDER		3832
	00000000G	00	01	FB 00A20	CALLS	#1, UAF\$WRITE_RIGHTS		
			04	00A27 428:	RET			3836

; 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 2 begin
: 3778 3840 2
: 3779 3841 2 ++
: 3780 3842 2
: 3781 3843 2 FUNCTIONAL DESCRIPTION:
: 3782 3844 2
: 3783 3845 2     Displays the hourly access for primary and secondary days
: 3784 3846 2     for one access type.
: 3785 3847 2
: 3786 3848 2 INPUTS:
: 3787 3849 2
: 3788 3850 2     format_string: address of FAO string for display
: 3789 3851 2     hour_vector: address of UAF record hourly vector
: 3790 3852 2     RABPTR - RMS data structure for the file
: 3791 3853 2
: 3792 3854 2 IMPLICIT INPUTS:
: 3793 3855 2
: 3794 3856 2     none
: 3795 3857 2
: 3796 3858 2 OUTPUTS:
: 3797 3859 2
: 3798 3860 2     none
: 3799 3861 2
: 3800 3862 2 IMPLICIT OUTPUTS:
: 3801 3863 2
: 3802 3864 2     none
: 3803 3865 2
: 3804 3866 2 ROUTINE VALUE:
: 3805 3867 2
: 3806 3868 2     none
: 3807 3869 2
: 3808 3870 2 SIDE EFFECTS:
: 3809 3871 2
: 3810 3872 2     none
: 3811 3873 2 --
: 3812 3874 2
: 3813 3875 2
: 3814 3876 2 Display strings.
: 3815 3877 2
: 3816 3878 2
: 3817 3879 2 map
: 3818 3880 2     hour_vector : ref bitvector;
: 3819 3881 2
: 3820 3882 2 literal
: 3821 3883 2     yeschar      = '#';
: 3822 3884 2     nochar       = '-';
: 3823 3885 2
: 3824 3886 2 bind
: 3825 3887 2     noaccess     = cstring ('----- No access -----');
: 3826 3888 2     fullaccess   = cstring ('##### Full access #####');
: 3827 3889 2
: 3828 3890 2 local
: 3829 3891 2     pri_access   : vector [24, byte],    ! Character string for primary access
: 3830 3892 2     sec_access   : vector [24, byte];    ! Character string for secondary access
: 3831 3893 2

```


display_hours - display hourly restrictions

```

: 3832 3894 2 if . (hour_vector[0])<0,24> eql 0
: 3833 3895 2 then ch$move (24, fullaccess+1, pri_access)
: 3834 3896 2 else if . (hour_vector[0])<0,24> eql 'xxxxxx'
: 3835 3897 2 then ch$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[.j]
: 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$move (24, fullaccess+1, sec_access)
: 3846 3908 2 else if . (hour_vector[0])<24,24> eql 'xxxxxx'
: 3847 3909 2 then ch$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[.j+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	00835	.ASCII	\----- No access -----\			
														73	00844					
65	63	63	61	20	6C	6C	75	46	20	23	23	23	23	18	0084D	P.AFD:	.BYTE	24		
														23	0084E	.ASCII	\##### Full access #####\			
														73	0085D					

NOACCESS=
FULLACCESS=

P.AFC
P.AFD

01FC 00000 DISPLAY_HOURS:

										.PSECT \$CODE\$,NOWRT,2									
										.WORD		Save R2,R3,R4,R5,R6,R7,R8	3838						
										58	00000000*	00	9E	00002	MOVAB	FULLACCESS+1, R8			
										57	00000000*	00	9E	00009	MOVAB	FAODSC, R7			
										5E		30	C2	00010	SUBL2	#48, SP			
										56		08	AC	D0	00013	MOVL	HOUR_VECTOR, R6	3894	
00			66			18			00	ED	00017	CMPZV	#0, #24, (R6), #0						
										07		12	0001C	BNEQ	1\$				
										18	AE	68		18	28	0001E	MOVC3	#24, FULLACCESS+1, PRI_ACCESS	3895
										29		11	00023	BRB	6\$				

UAFMAIN
V04-000

display_hours - display hourly restrictions

H 15

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

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00FFFFFF	8F	66	18	00	ED	00025	18:	CMPZV	#0, #24, (R6), #16777215	3896	
				08	12	0002E		BNEQ	2\$	3897	
		18	AE	E7	AB	18	28	00030	MOV C3	#24, NOACCESS+1, PRI_ACCESS	
				16	11	00036		BRB	6\$	3898	
		07			66	50	D4	00038	2\$: CLRL	J	
				50	E1	0003A	3\$:	BBC	J, (R6), 4\$	3901	
				2D	90	0003E		MOV B	#45, PRI_ACCESS[J]	3902	
				05	11	00043		BRB	5\$	3903	
				23	90	00045	4\$:	MOV B	#35, PRI_ACCESS[J]	3904	
		EC			50	17	F3	0004A	5\$: AOBLEQ	#23, J, 3\$	
	50	66			18	18	EF	0004E	6\$: EXTZV	#24, #24, (R6), R0	
				06	12	00053		BNEQ	7\$	3906	
		6E			68	18	28	00055	MOV C3	#24, FULLACCESS+1, SEC_ACCESS	
				28	11	00059		BRB	12\$	3907	
				50	D1	0005B	7\$:	CMP L	R0, #16777215	3908	
				07	12	00062		BNEQ	8\$	3909	
		6E			E7	AB	18	28	00064	MOV C3	#24, NOACCESS+1, SEC_ACCESS
				18	11	00069		BRB	12\$	3910	
				50	D4	0006B	8\$:	CLRL	J	3911	
				A0	9E	0006D	9\$:	MOV AB	24(R0), R1	3912	
		06			66	51	E1	00071	BBC	R1, (R6), 10\$	
				2D	90	00075		MOV B	#45, SEC_ACCESS[J]	3914	
				04	11	00079		BRB	11\$	3915	
				23	90	0007B	10\$:	MOV B	#35, SEC_ACCESS[J]	3916	
		EA			50	17	F3	0007F	11\$: AOBLEQ	#23, J, 9\$	
				04	BC	9B	00083	12\$:	MOVZBW	@FORMAT STRING, FAODSC	
	04	A7			04	AC	01	C1	00087	ADD L3	#1, FORMAT_STRING, FAODSC+4
				5E	DD	0008D		PUSHL	SP	3921	
				18	DD	0008F		PUSHL	#24	3922	
				20	AE	9F	00091		PUSH AB	PRI_ACCESS	
				18	DD	00094		PUSHL	#24	3923	
				F8	A7	9F	00096		PUSH AB	DISDSC	
		7E			08	A7	22	C1	00099	ADD L3	#34, RABPTR, -(SP)
				57	DD	0009E		PUSHL	R7	3924	
				07	FB	000A0		CALLS	#7, SYSS\$FAO	3925	
				08	A7	DD	000A7		PUSHL	RABPTR	
				01	FB	000AA		CALLS	#1, SYSS\$PUT	3926	
				04	000B1			RET		3927	

: Routine Size: 178 bytes, Routine Base: \$CODE\$ + 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         $asctim (timadr = .time, timbuf = string_desc);
3918 3979 2     end;

```

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; 3919

convert_time - convert time value to string
3980 1 end;

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```

                .PSECT SPLITS, NOWRT, NOEXE, 2
29 65 6E 6F 6E 28 00866 P.AFE: .ASCII \ (none)\
                .EXTRN SYSSASCTIM
                .PSECT $CODE$, NOWRT, 2
                007C 00000 CONVERT_TIME:
                .WORD Save R2,R3,R4,R5,R6           : 3924
                .SUBL2 #8, SP
                .MOVL TIME, R6                       : 3967
                .BISL3 4(R6), (R6), R0
                .BNEQ 1$
                .SUBL3 #6, LENGTH, R0
                .MOVC5 #0, (SP), #32, R0, @BUFFER    : 3970
                .ADDL3 LENGTH, BUFFER, R0
                .MOVC3 #6, P.AFE, -6(R0)
                .RET
                .MOVQ LENGTH, STRING_DESC            : 3971
                .CLRL -(SP)                           : 3976
                .PUSHL R6                               : 3978
                .PUSHAB STRING_DESC
                .CLRL -(SP)
                .CALLS #4, SYSSASCTIM
                .RET                                     : 3980

50          5E           08   04   08   C2   00002
          56           04   AC   D0   00005
50          66           04   A6   C9   00009
          1C           12   0000E
          50          08   AC   06   C3   00010
20          6E           00   00   2C   00015
          0C           BC   0001A
          50          0C   AC   08   AC   C1   0001C
FA A0 00000000' 00     06   28   00022
          04           04   0002B
          6E           08   AC   7D   0002C 1$:
          7E           D4   00030
          56           DD   00032
          08           AE   9F   00034
          7E           D4   00037
          0C           04   FB   00039
          00           04   00040
OC0000000G 00

```

; Routine Size: 65 bytes. Routine Base: \$CODE\$ + 21B5

print_priv - print privilege bits

```

3921 3981 1 %sbttl 'print_priv - print privilege bits'
3922 3982 1 routine print_priv (prvadr) : novalue =
3923 3983 2 begin
3924 3984 2
3925 3985 2 ++
3926 3986 2
3927 3987 2 FUNCTIONAL DESCRIPTION:
3928 3988 2
3929 3989 2 Routine to output the names of the privilege bits set
3930 3990 2 in the privilege vector supplied.
3931 3991 2
3932 3992 2 INPUTS:
3933 3993 2
3934 3994 2 PRVADR - Address of the privilege vector
3935 3995 2
3936 3996 2 IMPLICIT INPUTS:
3937 3997 2
3938 3998 2 PRV$AB_NAMES - table of privilege names and bit numbers
3939 3999 2
3940 4000 2 OUTPUTS:
3941 4001 2
3942 4002 2 none
3943 4003 2
3944 4004 2 IMPLICIT OUTPUTS:
3945 4005 2
3946 4006 2 none
3947 4007 2
3948 4008 2 ROUTINE VALUE:
3949 4009 2
3950 4010 2 none
3951 4011 2
3952 4012 2 SIDE EFFECTS:
3953 4013 2
3954 4014 2 none
3955 4015 2
3956 4016 2 --
3957 4017 2
3958 4018 2 Local
3959 4019 2 pointer, ! current location in PRV$AB_NAMES
3960 4020 2 prvcnt, ! number of names in DISBUF
3961 4021 2 symlen, ! length of bit name string
3962 4022 2 symmin, ! minimum symbol length
3963 4023 2 symval; ! value (bit number)
3964 4024 2
3965 4025 2
3966 4026 2 Initialize the buffer.
3967 4027 2
3968 4028 2
3969 4029 2 disbuf = ' ': ! insert blank at start
3970 4030 2 prvcnt = 0;
3971 4031 2 rabptr[rab$w_rsz] = 1;
3972 4032 2 pointer = prv$ab_names; ! point to symbol name table
3973 4033 2
3974 4034 2 while (symmin = . (.pointer)<0,8>) neq 0 ! pick up min symbol size
3975 4035 2 do
3976 4036 2 begin
3977 4037 2

```

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>	:	3982
				44	41	52	47	4E	57	4F	44	00874	P.AFG:	.ASCII	\DOWNGRADE\<0><0><0>	:	4029
				00	00	4C	4E	4A	50	4D	54	00880	P.AFH:	.ASCII	\TMPJNL\<0><0>	:	4030
				00	00	4C	4E	4A	4D	52	50	00888	P.AFI:	.ASCII	\PRMJNL\<0><0>	:	4031
												.PSECT SCODES, NOWRT, 2					
												OFFC 0000 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'			00	D0	0000B			CLRL	PRVCNT	:	4030	
				A0				01	B0	00012			MOVL	RABPTR, R0	:	4031	
				57	00000000G			00	9E	00016			MOVW	#1, 34(R0)	:	4032	
				5B				67	9A	0001D	1\$:		MOVAB	PRVSAB NAMES, POINTER	:	4032	
								03	12	00020			MOVZBL	(POINTER), SYMMIN	:	4034	
								0098	31	00022			BNEQ	2\$	:	4044
								57	D6	00025	2\$:		BRW	6\$	:	4045
				5A				87	9A	00027			INCL	POINTER	:	4047	
				58				87	9A	0002A			MOVZBL	(POINTER)+, SYMVAL	:	4049	
	03		04	BC				5A	E0	0002D			MOVZBL	(POINTER)+, SYMLEN	:	4049	
								0082	31	00032			BBS	SYMVAL, @PRVADR, 3\$	:	4050
07				00				67	58	2D	00035	3\$:	BRW	5\$	:	4050
								00000000'	00		0003A			CMPC5	SYMLEN, (POINTER), #0, #7, P.AFF	:	4051
								76	13	0003F			BEQL	5\$	:	4051
09				00				67	58	2D	00041		CMPC5	SYMLEN, (POINTER), #0, #9, P.AFG	:	4052	
								00000000'	00		00046			BEQL	5\$:	4052
06				00				67	6A	13	0004B		CMPC5	SYMLEN, (POINTER), #0, #6, P.AFH	:	4053	
								00000000'	00		00052			BEQL	5\$:	4053
06				00				67	5E	13	00057		CMPC5	SYMLEN, (POINTER), #0, #6, P.AFI	:	4062	
								00000000'	00		0005E			BEQL	5\$:	4062
								52	13	00063			MOVL	RABPTR, R0	:	4065	
				50	00000000'			00	D0	00065			MOVZWL	34(R0), R1	:	4065	
				51		22		A0	3C	0006C			ADDL2	SYMLEN, R1	:	4066	
				51				58	C0	00070			CMP	R1, #63	:	4066	
				3F				51	D1	00073			BLEQ	4\$	:	4074
								16	15	00076			PUSHL	R0	:	4074	
								50	DD	00078			CALLS	#1, SYSSPUT	:	4075	
				00000000G	00			01	FB	0007A			CLRL	PRVCNT	:	4075	
								59	D4	00081			MOVL	RABPTR, R0	:	4076	
								00	D0	00083			MOVW	#1, 34(R0)	:	4076	
				22	50	00000000'		01	B0	0008A			MOVL	RABPTR, R0	:	4074	
					50	00000000'		00	D0	0008E	4\$:		MOVAB	34(R0), R6	:	4074	
					56		22	A0	9E	00095			MOVZWL	(R6), R0	:	4075	
					50			66	3C	00099			MOVB	#32, DISBUF[R0]	:	4075	
					00000000'	0040		20	90	0009C			INCL	(R6)	:	4076	
								66	B6	000A4			MOVZWL	(R6), R0	:	4076	
								66	3C	000A6			MOVC3	SYMLEN, (POINTER), DISBUF[R0]	:	4077	
				00000000'	0040			67	58	28	000A9		ADDW2	SYMLEN, (R6)	:	4077	
								66	58	A0	000B2		INCL	PRVCNT	:	4078	
								59	D6	000B5					:	4078	

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print_priv - print privilege bits

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57	58	C0	000B7	5\$:	ADDL2	SYMLN, POINTER	:	4081
	FF60	31	000BA		BRW	1\$:	4034
	59	D5	000BD	6\$:	TSTL	PRVCNT	:	4088
	0D	15	000BF		BLEQ	7\$:	
00000000G 00	00	DD	000C1		PUSHL	RABPTR	:	4089
	01	FB	000C7		CALLS	#1, SYSSPUT	:	
	04	000CE	7\$:		RET		:	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_rtype] = 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
: 4093      4152      2
: 4094      4153      2
: 4095      4154      2
: 4096      4155      2
: 4097      4156      2
: 4098      4157      2
: 4099      4158      2
: 4100      4159      2
: 4101      4160      2
: 4102      4161      2
: 4103      4162      2
: 4104      4163      2
: 4105      4164      2
: 4106      4165      2
: 4107      4166      2
: 4108      4167      2
: 4109      4168      2
: 4110      4169      2
: 4111      4170      2
: 4112      4171      2
: 4113      4172      2
: 4114      4173      2
: 4115      4174      2
: 4116      4175      2
: 4117      4176      2
: 4118      4177      2
: 4119      4178      2
: 4120      4179      2
: 4121      4180      2
: 4122      4181      2
: 4123      4182      2
: 4124      4183      2
: 4125      4184      2
: 4126      4185      2
: 4127      4186      2
: 4128      4187      2
: 4129      4188      2
: 4130      4189      2
: 4131      4190      2
: 4132      4191      2
: 4133      4192      2
: 4134      4193      2
: 4135      4194      2
: 4136      4195      2
: 4137      4196      2
: 4138      4197      2
: 4139      4198      2
: 4140      4199      2
: 4141      4200      2
: 4142      4201      2
: 4143      4202      2
: 4144      4203      2
: 4145      4204      2
: 4146      4205      2

:
: quadword privilege mask
:
ch$move (8, defpriv, default_record[uaf$q_priv]);
ch$move (8, defpriv, default_record[uaf$q_def_priv]);
:
: directory name is counted string
:
ch$copy (.defdir<0,8> + 1, defdir, %char (' '),
        uaf$s_defdir, default_record[uaf$t_defdir]);
:
: device name is counted string
:
ch$copy (.defdev<0,8> + 1, defdev, %char (' '),
        uaf$s_defdev, default_record[uaf$t_defdev]);
:
: CLI name is counted string
:
ch$copy (.defcli<0,8> + 1, defcli, %char (' '),
        uaf$s_defcli, default_record[uaf$t_defcli]);
:
: owner name is counted string
:
ch$copy (.defowner<0,8> + 1, defowner, %char (' '),
        uaf$s_owner, default_record[uaf$t_owner]);
:
: login command file name is counted string
:
ch$copy (.deflgicmd<0,8> + 1, deflgicmd, %char (' '),
        uaf$s_lgicmd, default_record[uaf$t_lgicmd]);
:
: fill in default CLI tables
:
ch$copy (.defclitabl<0,8> + 1, defclitabl, %char (' '),
        uaf$s_clitables, default_record[uaf$t_clitables]);
:
ch$move (8, defpwdlife, default_record[uaf$q_pwd_lifetime]);
default_record[uaf$b_pwd_length] = defpwdlength;
default_record[uaf$w_grp] = defgrp;
default_record[uaf$w_mem] = defmem;
default_record[uaf$w_bioltm] = defbioltm;
default_record[uaf$l_bytltm] = defbyltm;
default_record[uaf$w_dioim] = defdioim;
default_record[uaf$w_fillm] = deffillm;

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```
4147 4206 2 default_record[uafl_flags] = defflags;
4148 4207 2 default_record[uafl_tqcnt] = deftqcnt;
4149 4208 2 default_record[uafl_prcnt] = defprcnt;
4150 4209 2 default_record[uafl_wsquota] = defwsquota;
4151 4210 2 default_record[uafl_wsextent] = defwsextent;
4152 4211 2 default_record[uafl_dfwscnt] = defdfwscnt;
4153 4212 2 default_record[uafl_cputim] = defcputim;
4154 4213 2 default_record[uafl_astlm] = defastlm;
4155 4214 2 default_record[uafl_pgflquota] = defpgflquota;
4156 4215 2 default_record[uafl_enqlm] = defenqlm;
4157 4216 2 default_record[uafl_pbytlm] = defpbytlm;
4158 4217 2 default_record[uafl_shrfillm] = defshrfillm;
4159 4218 2 default_record[uafl_b_pri] = defpri;
4160 4219 2 default_record[uafl_b_quepri] = defquepri;
4161 4220 2 default_record[uafl_b_maxjobs] = defmaxjobs;
4162 4221 2 default_record[uafl_b_maxdetach] = defmaxdetach;
4163 4222 2 default_record[uafl_b_jtquota] = defjtquota;
4164 4223 2 default_record[uafl_b_maxacctjobs] = defmaxacctjobs;
4165 4224 2 default_record[uafl_b_primedays] = defprimedays;
4166 4225 2 default_record[uafl_b_network_access_p] = defhours;
4167 4226 2 default_record[uafl_b_network_access_s] = defhours;
4168 4227 2 default_record[uafl_b_batch_access_p] = defhours;
4169 4228 2 default_record[uafl_b_batch_access_s] = defhours;
4170 4229 2 default_record[uafl_b_local_access_p] = defhours;
4171 4230 2 default_record[uafl_b_local_access_s] = defhours;
4172 4231 2 default_record[uafl_b_dialup_access_p] = defhours;
4173 4232 2 default_record[uafl_b_dialup_access_s] = defhours;
4174 4233 2 default_record[uafl_b_remote_access_p] = defhours;
4175 4234 2 default_record[uafl_b_remote_access_s] = defhours;
4176 4235 2
4177 4236 2 ch$fill (0, uafl_c fixed, recbuf);
4178 4237 2 recbuf[uafl_b_version] = uafl_c version1;
4179 4238 2 recbuf[uafl_b_rtype] = uafl_c user id;
4180 4239 2 ch$copy (.sysuser<0,8>, sysuser+1, %char (' '),
4181 4240 2 uafl_s_username, recbuf[uafl_t_username]);
4182 4241 2 ch$copy (.sysact<0,8>, sysact+1, %char (' '),
4183 4242 2 uafl_s_account, recbuf[uafl_t_account]);
4184 4243 2 ch$move (8, syspriv, recbuf[uafl_q_priv]);
4185 4244 2 ch$move (8, syspriv, recbuf[uafl_q_def_priv]);
4186 4245 2 ch$copy (.sysdir<0,8> + 1, sysdir, %char (' '),
4187 4246 2 uafl_s_defdir, recbuf[uafl_t_defdir]);
4188 4247 2 ch$copy (.sysdev<0,8> + 1, sysdev, %char (' '),
4189 4248 2 uafl_s_defdev, recbuf[uafl_t_defdev]);
4190 4249 2 ch$copy (.syscli<0,8> + 1, syscli, %char (' '),
4191 4250 2 uafl_s_defcli, recbuf[uafl_t_defcli]);
4192 4251 2 ch$copy (.sysowner<0,8> + 1, sysowner, %char (' '),
4193 4252 2 uafl_s_owner, recbuf[uafl_t_owner]);
4194 4253 2 ch$copy (.syslgicmd<0,8> + 1, deflgicmd, %char (' '),
4195 4254 2 uafl_s_lgicmd, recbuf[uafl_t_lgicmd]);
4196 4255 2 ch$copy (.sysclitabl<0,8> + 1, sysclitabl, %char (' '),
4197 4256 2 uafl_s_clitables, recbuf[uafl_t_clitables]);
4198 4257 2
4199 4258 2 pwddsc[dsc$w_length] = .syspass<0,8>;
4200 4259 2 pwddsc[dsc$a_pointer] = syspass+1;
4201 4260 2 user_desc[dsc$w_length] = .sysuser<0,8>;
4202 4261 2 user_desc[dsc$a_pointer] = sysuser+1;
4203 4262 2 %gettim (timadr = time_buf);
```

! Obtain a 16 bit salt

```

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

```

03FC 0000 BUILD_INI RECS:

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

			68	0101	8F	B0	00022	MOVW	#257, DEFAULT_RECORD	4135	
			50	E8	A9	9A	00027	MOVZBL	DEFUSER, R0	4140	
20		20	E9	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	34	50	2C	00037	MOVCS	R0, DEFACT+1, #32, #32, DEFAULT_RECORD+52	4148	
						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	
			50	06	A9	9A	0004C	MOVZBL	DEFDIR, R0	4161	
0040	8F		20	06	50	D6	00050	INCL	R0		
					50	2C	00052	MOVCS	R0, DEFDIR, #32, #64, DEFAULT_RECORD+148	4162	
					0094	C8	0005A				
			50	0D	A9	9A	0005D	MOVZBL	DEFDEV, R0	4168	
20		20	0D	A9	50	D6	00061	INCL	R0		
					50	2C	00063	MOVCS	R0, DEFDEV, #32, #32, DEFAULT_RECORD+116	4169	
					74	A8	00069				
20		20	69		50	D6	0006E	MOVZBL	DEFCLI, R0	4175	
					50	2C	00070	INCL	R0		
					0114	C8	00075	MOVCS	R0, DEFCLI, #32, #32, DEFAULT_RECORD+276	4176	
			50	04	A9	9A	00078	MOVZBL	DEFOWNER, R0	4182	
20		20	04	A9	50	D6	0007C	INCL	R0		
					50	2C	0007E	MOVCS	R0, DEFOWNER, #32, #32, DEFAULT_RECORD+84	4183	
					54	A8	00084				
			50	05	A9	9A	00086	MOVZBL	DEFLGICMD, R0	4189	
0040	8F		20	05	50	D6	0008A	INCL	R0		
					50	2C	0008C	MOVCS	R0, DEFLGICMD, #32, #64, DEFAULT_RECORD+212	4190	
					00D4	C8	00094				
			50	F5	A9	9A	00097	MOVZBL	DEFCLITABL, R0	4195	
20		20	F5	A9	50	D6	0009B	INCL	R0		
					50	2C	0009D	MOVCS	R0, DEFCLITABL, #32, #32, -	4196	
					0134	C8	000A3				
	0174	C8	18	A9	08	28	000A6	MOVCS	#8, DEFPWDLIFE, DEFAULT_RECORD+372	4198	
			016A	C8	06	90	000AD	MOVB	#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	00060006	8F	D0	000C1	MOVL	#393222, DEFAULT_RECORD+526	4202
					01D4	C8	D4	000CA	CLRL	DEFAULT_RECORD+468	4206
			020C	C8		02	B0	000CE	MOVW	#2, DEFAULT_RECORD+524	4208
			021C	C8	C8	8F	9A	000D3	MOVZBL	#200, DEFAULT_RECORD+540	4209
			0224	C8	01F4	8F	3C	000D9	MOVZWL	#500, DEFAULT_RECORD+548	4210
			0220	C8	96	8F	9A	000E0	MOVZBL	#150, DEFAULT_RECORD+544	4211
					022C	C8	D4	000E6	CLRL	DEFAULT_RECORD+556	4212
			0212	C8	000A000A	8F	D0	000EA	MOVL	#655370, DEFAULT_RECORD+530	4207
			0228	C8	2710	8F	3C	000F3	MOVZWL	#1000, DEFAULT_RECORD+552	4214
			0216	C8	0014000A	8F	D0	000FA	MOVL	#1310730, DEFAULT_RECORD+534	4215
					0234	C8	D4	00103	CLRL	DEFAULT_RECORD+564	4216
					021A	C8	B4	00107	CLRW	DEFAULT_RECORD+538	4217
			0204	C8	0404	8F	3C	0010B	MOVZWL	#1028, DEFAULT_RECORD+516	4218
			0238	C8	0400	8F	3C	00112	MOVZWL	#1024, DEFAULT_RECORD+568	4222
					0208	C8	D4	00119	CLRL	DEFAULT_RECORD+520	4223
			0202	C8	60	8F	90	0011D	MOVB	#96, DEFAULT_RECORD+514	4224
01D8	C8	18	00	00	00	F0	00123	INSV	#0, #0, #24, DEFAULT_RECORD+472	4225	
01DB	C8	18	00	00	00	F0	0012A	INSV	#0, #0, #24, DEFAULT_RECORD+475	4226	
01DE	C8	18	00	00	00	F0	00131	INSV	#0, #0, #24, DEFAULT_RECORD+478	4227	
01E1	C8	18	00	00	00	F0	00138	INSV	#0, #0, #24, DEFAULT_RECORD+481	4228	

	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	0026F	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
01D8	C7	18	00	00	F0	002C7	INSV	#0, #0, #24, RECBUF+472	: 4296
01DB	C7	18	00	00	F0	002CE	INSV	#0, #0, #24, RECBUF+475	: 4297
01DE	C7	18	00	00	F0	002D5	INSV	#0, #0, #24, RECBUF+478	: 4298
01E1	C7	18	00	00	F0	002DC	INSV	#0, #0, #24, RECBUF+481	: 4299
01E4	C7	18	00	00	F0	002E3	INSV	#0, #0, #24, RECBUF+484	: 4300
01E7	C7	18	00	00	F0	002EA	INSV	#0, #0, #24, RECBUF+487	: 4301
01EA	C7	18	00	00	F0	002F1	INSV	#0, #0, #24, RECBUF+490	: 4302
01ED	C7	18	00	00	F0	002F8	INSV	#0, #0, #24, RECBUF+493	: 4303
01F0	C7	18	00	00	F0	002FF	INSV	#0, #0, #24, RECBUF+496	: 4304
01F3	C7	18	00	00	F0	00306	INSV	#0, #0, #24, RECBUF+499	: 4305
				04	00	0030D	RET		: 4306

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

```

: 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 |
: 4256      4314 2 |
: 4257      4315 2 |
: 4258      4316 2 |
: 4259      4317 2 |
: 4260      4318 2 |
: 4261      4319 2 |
: 4262      4320 2 |
: 4263      4321 2 |
: 4264      4322 2 |
: 4265      4323 2 |
: 4266      4324 2 |
: 4267      4325 2 |
: 4268      4326 2 |
: 4269      4327 2 |
: 4270      4328 2 |
: 4271      4329 2 |
: 4272      4330 2 |
: 4273      4331 2 |
: 4274      4332 2 |
: 4275      4333 2 |
: 4276      4334 2 |
: 4277      4335 2 |
: 4278      4336 2 |
: 4279      4337 2 |
: 4280      4338 2 |
: 4281      4339 2 |
: 4282      4340 2 |
: 4283      4341 2 |
: 4284      4342 2 |
: 4285      4343 2 |
: 4286      4344 2 |
: 4287      4345 2 |
: 4288      4346 2 |
: 4289      4347 2 |
: 4290      4348 2 |
: 4291      4349 2 |
: 4292      4350 2 |
: 4293      4351 2 |
: 4294      4352 2 |
: 4295      4353 2 |
: 4296      4354 2 |
: 4297      4355 2 |
: 4298      4356 2 |
: 4299      4357 2 |
: 4300      4358 2 |
: 4301      4359 2 |
: 4302      4360 2 |
: 4303      4361 2 |
: 4304      4362 2 |
: 4305      4363 2 |

```

FUNCTIONAL DESCRIPTION:
 This routine pulls the next token out of the command buffer, assuming it is the username, and looks up the UAF record for that name. If the record is found, it is loaded into RECBUF (by routine LOCATE_USER).

INPUTS:
 LOCK_RECORD - specifies that the GET shall lock the record
 PERMANENT_OK - specifies that the DEFAULT and SYSTEM records are allowed

IMPLICIT INPUTS:
 TOKENPTR - address of delimiter following last token processed, which was the command name.
 TOKENLEN - global variable to contain length of current token

OUTPUTS:
 none

IMPLICIT OUTPUTS:
 none

ROUTINE VALUE:
 true -> user record found
 false -> user record not found

SIDE EFFECTS:
 none

builtin nullparameter;

Is this the second phase of a RENAME?
 if .rename_ph2
 then
 begin
 if .netuaf_exists
 then adjust_proxy (update_records);
 ch\$move (.olduserlen, oldusername, .tokenptr);
 tokenlen = .olduserlen;
 rename_ph2 = false;
 end

get_user_record - get username and lookup recor

```
4306 4364 2 |
4307 4365 2 | Not the second phase of a RENAME. Get first token, and if this
4308 4366 2 | is the first phase of a RENAME (COPY phase), save token for
4309 4367 2 | the second phase (REMOVE phase).
4310 4368 2 |
4311 4369 2 | else
4312 4370 2 |   begin
4313 4371 2 |     Get token
4314 4372 2 |
4315 4373 2 |       if not cli$present (sd_token1)
4316 4374 2 |         or not cli$get_value (sd_token1, tokendsc)
4317 4375 2 |         or .tokenlen eql 0
4318 4376 2 |         then return LIB$SIGNAL(UAF$_NOUSERNAME);
4319 4377 2 |
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	
		57	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, CLISPRESENT	
				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, CLISGET_VALUE	
				67	B5	0005A	BLBC	R0, 3\$	
				08	12	0005C	TSTW	TOKENLEN	4376
				08	12	0005C	BNEQ	4\$	
		00000000G		8F	DD	0005E	PUSHL	#UAF\$_NOUSERNAME	4377
				7B	11	00064	BRB	11\$	
			03	6C	91	00066	CMPB	(AP), #3	4382
				1A	1F	00069	BLSSU	5\$	
				0C	AC	D5	TSTL	12(AP)	
				15	13	0006E	BEQL	5\$	
				56	67	3C	MOVZWL	TOKENLEN, R6	4385
				50	A7	D0	MOVL	TOKENPTR, R0	
20	20			60	56	2C	MOVW	R6, (R0), #32, #32, OLDUSERNAME	
					A8				
					56	D0	MOVL	R6, OLDUSERLEN	4386
					01	90	MOVW	#1, RENAME_PH2	4387
					AC	E8	BLBS	PERMANENT OK, 12\$	4391
					5C	08	MOVZBL	DEFUSER, R1	4394
					51	0118	MOVZBL	DEFUSER, R1	
					50	04	MOVL	TOKENPTR, R0	
67	20	0119			C9	51	CMPC5	R1, DEFUSER+1, #32, TOKENLEN, (R0)	
					60				
					1A	12	BNEQ	8\$	
					03	6C	CMPB	(AP), #3	4396
					05	1F	BLSSU	6\$	
					0C	AC	TSTL	12(AP)	
					08	12	BNEQ	7\$	
					08	12	BNEQ	7\$	
		00000000G		8F	DD	000A6	PUSHL	#UAF\$_REMDEF	4398
				33	11	000AC	BRB	11\$	
		00000000G		8F	DD	000AE	PUSHL	#UAF\$_RENDEF	4400

67	20	0151	51	0150	2B 11 000B4	8\$:	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					
			03		1C 12 000C7		BNEQ	12\$		
					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	9\$:	PUSHL	#UAF\$_REMSYS		4407
					06 11 000D9		BRB	11\$		
				00000000G	8F DD 000DB	10\$:	PUSHL	#UAF\$_REMSYS		4409
			6A		01 FB 000E1	11\$:	CALLS	#1, LIB\$SIGNAL		
					04 000E4		RET			
				04	AC DD 000E5	12\$:	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\$		
					01 D0 000F8		MOVL	#1, R0		4414
					04 000FB		RET			
					A7 D0 000FC	13\$:	MOVL	RMSERR, R0		4416
			000182B2		50 D1 00100		CMPL	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	14\$:	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	15\$:	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 0000 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
	09			OC	AC	E9 00016	BLBC LOCK RECORD 1\$: 4469
	67	00080000	8F	D0	0001A	07 11 00021	MOVL #524288, UA:RAB+4 : 4470
	67	00100008	8F	D0	00023	1\$:	BRB 2\$: 4471
	00000000V	00	00	FB	0002A	2\$:	MOVL #1048584, UAFRAB+4 : 4473
	FAOC	C7	50	D0	00031		CALLS #0, GET UAF_RECJRD
		02	50	E8	00036		MOVL R0, RMSERR
			56	D4	00039		BLBS R0, 3\$
		50	56	D0	0003B	3\$:	CLRL FOUND : 4474
			04	0003E			MOVL FOUND, R0 : 4476
							RET : 4477

; 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 GET 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 = $get (rab = uafrab)) eql rms$ rlk)
: 4469 4525 3 |     or ch$eql(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 | dc
: 4473 4529 2 |     if $schdwk (daytim = wakedelta) then $hiter;
: 4474 4530 2 |
: 4475 4531 2 | .success
: 4476 4532 1 | end;

```

										.PSECT \$SPLITS,NOWRT,NOEXE,2									
72	6F	77	73	73	61	50	2B	6D	65	74	73	79	53	3C	00890	P.AFJ:	.ASCII	\<System+Password>\<0><0><0>	:
										00	00	00	3E	64	0089F				:
										.PSECT \$CODE\$,NOWRT,2									
										003C 00000 GET_UAF_RECORD:									
										.WORD		Save R2,R3,R4,R5	:	4479					
										54 00000000'		08 D0 00002	MOV	#8, COUNTER	:	4523			
										00000000G 00		00 9F 00005	1\$:	PUSHAB	UAFRAB	:	4524		
										000182AA 55		01 FB 0000B		CALLS	#1, SYSSGET				
										000182AA 8F		50 D0 00012		MOV	R0, SUCCESS				
										11 20 00000000'		55 D1 00015		CMPL	SUCCESS, #98986				
										00000000'		10 13 0001C		BEQL	2\$				
										00000000'		20 2D 0001E		CMPC5	#32, RECBUF+4, #32, #17, P.AFJ	:	4525		
										00000000'		00							
										00000000'		21 12 0002C		BNEQ	3\$				
										00000000'		54 D7 0002E	2\$:	DECL	COUNTER	:	4527		
										00000000'		1D 19 00030		BLSS	3\$				
										00000000'		7E D4 00032		CLRL	-(SP)	:	4529		
										00000000G 00		00 9F 00034		PUSHAB	WAKEDELTA				
										00000000G BF		7E 7C 0003A		CLRQ	-(SP)				
										00000000G 00		04 FB 0003C		CALLS	#4, SYSSCHDWK				
										00000000G 00		50 E9 00043		BLBC	R0, 1\$				
										00000000G 00		00 FB 00046		CALLS	#0, SYSSHIBER				
										00000000G 50		B6 11 0004D		BRB	1\$				
										00000000G 00		55 D0 0004F	3\$:	MOV	SUCCESS, R0	:	4532		
										00000000G 00		04 00052		RET					

; Routine Size: 83 bytes, Routine Base: \$CODE\$ + 273E

```

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 eql RMS$_EOF;
: 007 **NEW** 4578 2
: 008 **NEW** 4579 2     if .STATUS eql RMS$_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
								00000000	008B0		.ADDRESS	P.AFL

⋮

.PSECT \$CODE\$,NOWRT,2

				000C	00000	GET_CMD_LINE:						
						.WORD				Save R2,R3		: 4534
	53	00000000	00	9E	00002	MOVAB				CMDLINDSC, R3		⋮
		00000000	00	9F	00009	1\$: PUSHAB				P.AFK		: 4576
			53	DD	0000F	PUSHL				R3		⋮
00000000G	00		02	FB	00011	CALLS				#2, LIB\$GET_INPUT		⋮
	52		50	D0	00018	MOVL				R0, STATUS		⋮
	50		63	9E	0001B	MOVAB				CMDLINDSC, R0		: 4577
			09	12	0001E	BNEQ				2\$		⋮
0001827A	8F		52	D1	00020	CMPL				STATUS, #98938		⋮
			E0	12	00027	BNEQ				1\$		⋮
0001827A	8F		52	D1	00029	2\$: CMPL				STATUS, #98938		: 4579
			07	12	00030	BNEQ				3\$		⋮
00000000V	00		00	FB	00032	CALLS				#0, EXIT UAF		: 4580
	50		52	D0	00039	3\$: MOVL				STATUS, R0		: 4582
			04	0003C	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 $get (rab=inrab) eql rms$_eof
: 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 %'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
0090	C2	04	AC	00	9E	00002	MOVAB	INSIZE, R2		4627
		0094	C2	04	BC	90	ADDL3	#1, STRING, INRAB+48		4628
		0084	C2	08	AC	D0	MOVB	@STRING, INRAB+52		4629
		0080	C2	0C	AC	B0	MOVL	BUFFER, INRAB+36		4630
				60	A2	9F	MOVW	LEN, INRAB+32		4637
		00000000G	00		01	FB	PUSHAB	INRAB		
		0001827A	8F		50	D1	CALLS	#1, SYSSGET		
					07	12	CMPL	R0, #98938		
		00000000V	00		00	FB	BNEQ	1\$		
			62	0082	C2	3C	CALLS	#0, EXIT_UAF		4638
					24	13	MOVZWL	INRAB+34, INSIZE		4640
	51		62		01	C3	BEQL	5\$		
					50	D4	SUBL3	#1, INSIZE, R1		4643
					17	11	CLRL	I		
		61	8F	08	BC40	91	BRB	4\$		
					0D	1F	CMPB	@BUFFER[I], #97		4646
		7A	8F	08	BC40	91	BLSSU	3\$		
					05	1A	CMPB	@BUFFER[I], #122		
		08	BC40		20	8A	BGTRU	3\$		
					50	D6	BICB2	#32, @BUFFER[I]		4647
			51		50	D1	INCL	I		4643
					E4	1B	CMPL	I, R1		
					04	00067	BLEQU	2\$		
							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 OUTPUT:
: 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     bufdsc[1] = buffer;
: 4686      4698 2
: 4687      4699 2     code = $getmsg (msgid = .msgid, msglen = bufdsc[0], bufadr = bufdsc[0]);
: 4688      4700 2
: 4689      4701 2
: 4690      4702 2     Output internal message.  Then output system error or error number.
: 4691      4703 2
: 4692      4704 2     faodsc[dsc$w_length] = . (faostr)<0,8>;           ! input string descriptor
: 4693      4705 2     faodsc[dsc$a_pointer] = .faostr+1;
: 4694      4706 2 P $faol (ctrstr = faodsc
: 4695      4707 2 P     outlen = outrab[rab$w_rsz],

```

```

: 4696 P 4708 2      outbuf = disdsc.
: 4697   4709 2      prmlst = p1);
: 4698   4710 2
: 4699   4711 2      $put (rab = outrab);
: 4700   4712 2
: 4701   4713 2      if .code egl ss$ msgnotfnd
: 4702   4714 2      then LIB$SIGNAL(UAF$_SYMSG2, 1, .msgid)
: 4703   4715 2      else LIB$SIGNAL(UAF$_SYMSG1, 1, bufdsc[0]);
: 4704   4716 1      end;

```

				000C 00000	
	53	00000000	00	9E 00002	
	5E	FF34	CE	9E 00009	
	7E	C8	8F	9A 0000E	
04	AE	08	AE	9E 00012	
	7E		0F	7D 00017	
			08	AE 9F 0001A	
			0C	AE 9F 0001D	
			08	AC DD 00020	
	00000000G	00	05	FB 00023	
		52	50	DD 0002A	
		63	04	BC 9B 0002D	
04	A3	04	AC	01 C1 00031	
			0C	AC 9F 00037	
			F8	A3 9F 0003A	
			072E	C3 9F 0003D	
	00000000G	00	53	DD 00041	
			04	FB 00043	
		070C	C3	9F 0004A	
	00000000G	00	01	FB 0004E	
	00000621	8F	52	D1 00055	
			0D	12 0005C	
			08	AC DD 0005E	
			01	DD 00061	
		00000000G	8F	DD 00063	
			0A	11 00069	
			5E	DD 0006B 1\$:	
			01	DD 0006D	
	00000000G	00	8F	DD 0006F 2\$:	
			03	FB 00075	
			04	0007C	

.EXTRN SYSSGETMSG, SYSSFAOL

.ENTRY	FMT SYS_MSG, Save R2,R3	: 4652
MOVAB	FAODSC, R3	
MOVAB	-204(SP), SP	
MOVZBL	#200, BUFDSC	: 4696
MOVAB	BUFFER, BUFDSC+4	: 4697
MOVQ	#15, -(SP)	: 4699
PUSHAB	BUFDSC	
PUSHAB	BUFDSC	
PUSHL	MSGID	
CALLS	#5, SYSSGETMSG	
MOVL	R0, CODE	
MOVZBW	@FAOSTR, FAODSC	: 4704
ADDL3	#1, FAOSTR, FAODSC+4	: 4705
PUSHAB	P1	: 4709
PUSHAB	DISDSC	
PUSHAB	OUTRAB+34	
PUSHL	R3	
CALLS	#4, SYSSFAOL	
PUSHAB	OUTRAB	: 4711
CALLS	#1, SYSSPUT	
CMP	CODE, #1569	: 4713
BNEQ	1\$	
PUSHL	MSGID	: 4714
PUSHL	#1	
PUSHL	#UAF\$_SYMSG2	
BRB	2\$	
PUSHL	SP	: 4715
PUSHL	#1	
PUSHL	#UAF\$_SYMSG1	
CALLS	#3, LIB\$SIGNAL	
RET		: 4716

; Routine Size: 125 bytes, Routine Base: \$CODE\$ + 2836

```

: 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 $faol (ctrstr = faodsc,
: 4747      4758 2     outlen = outrab[ra$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 2 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

```

UAFMAIN
V04-000

faout - output formatted message

L 1
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04 A2 04 AC

08	01	C1	0000D
F8	AC	9F	00013
072E	A2	9F	00016
	C2	9F	00019
	52	DD	0001D
	04	FB	0001F
	C2	9F	00026
	01	FB	0002A
	50	D4	00031
	04		00033

ADDL3	#1, STRING, FAODSC+4
PUSHAB	P1
PUSHAB	DISDSC
PUSHAB	OUTRAB+34
PUSHL	R2
CALLS	#4, SYSSFAOL
PUSHAB	OUTRAB
CALLS	#1, SYSSPUT
CLRL	R0
RET	

00000000G 00

00000000G 00

070C

: 4756
: 4750
:
:
:
:
: 4762
:
: 4765
:

; Routine Size: 52 bytes, Routine Base: \$CODE\$ + 28B3

help_uaf - help routine

```

: 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 4832 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
                                00000007 008BC P.AFM: .LONG 7
                                00000000' 008C0 .ADDRESS P.AFN

```

```

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

```

UAFMAIN
V04-000

help_uaf - help routine

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

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

; 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 $close (fab = uaffab);
: 4858      4867 2
: 4859      4868 2
: 4860      4869 2 ! Inform user of file modifications.
: 4861      4870 2
: 4862      4871 2
: 4863      4872 2 if .modify_flag
: 4864      4873 2 then
: 4865      4874 2
: 4866      4875 2 ! File has been modified
: 4867      4876 2
: 4868      4877 2     LIB$SIGNAL(UAF$_DONEMSG)           ! tell user all is done
: 4869      4878 2 else
: 4870      4879 2
: 4871      4880 2 ! Here, no modifications were made to file.
: 4872      4881 2
: 4873      4882 2     LIB$SIGNAL(UAF$_NOMODS);
: 4874      4883 2
: 4875      4884 2 if .netuaf_exists
: 4876      4885 2 then
: 4877      4886 2     begin
: 4878      4887 2         if not .netuaf_modified
: 4879      4888 2         then
: 4880      4889 2             LIB$SIGNAL(UAF$_NAFNOMODS)
: 4881      4890 2         else
: 4882      4891 2             LIB$SIGNAL(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      if .rightslist_modified
: 4889      4898      then
: 4890      4899      |
: 4891      4900      | File has been mcdified
: 4892      4901      |
: 4893      4902      |     LIB$$SIGNAL(UAF$_RDBDONEMSG)
: 4894      4903      |
: 4895      4904      | else
: 4896      4905      |
: 4897      4906      |     Here, no modifications were made to file.
: 4898      4907      |
: 4899      4908      |     LIB$$SIGNAL(UAF$_RDBNOMODS);
: 4900      4909      | end ;
: 4901      4910      2 $exit (code = true);
: 4902      4911      1 end;

```

! tell user all is done

		.EXTRN SYS\$EXIT		
		001C 00000	.ENTRY EXIT UAF, Save R2,R3,R4	: 4840
54	00000000'	00 9E 00002	MOVAB UAFFAB, 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 0002B	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	: 4911
		04 00071	RET	

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

UAFMAIN
V04-000

SIGNAL_SYNTAX - Report missing qualifier

E 2
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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```
: 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;
```

```
00000000G 00 00000000G 8F DD 00002  
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	: 4920
		01 DD 00002	PUSHL	#1	: 4938
00000000G 00		01 FB 00004	CALLS	#1, SYS\$EXIT	: 4939
		04 0000B	RET		

; 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$L_RBF];
: 4959      4965 2 |       ROP = .UAFRAB[RAB$L_ROP];
: 4960      4966 2 |       |
: 4961      4967 2 |       |   Get new password and encrypt it
: 4962      4968 2 |       |
: 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$Q_PWD]);
: 4971      4977 2 |       |
: 4972      4978 2 |       |   Fill in fields of the UAF record
: 4973      4979 2 |       |
: 4974      4980 2 |       |
: 4975      4981 2 |       |
: 4976      4982 2 |       ch$copy(17, UPLIT('<System+Password>'), ' '
: 4977      4983 2 |         UAF$S_USERNAME, RECBUF[UAF$T_USERNAME]);
: 4978      4984 2 |       RECBUF[UAF$W_SALT] = 0;
: 4979      4985 2 |       |
: 4980      4986 2 |       |   Modify the RAB for our needs
: 4981      4987 2 |       |
: 4982      4988 2 |       |
: 4983      4989 2 |       |
: 4984      4990 2 |       UAFRAB[RAB$V_UIF] = 1;
: 4985      4991 2 |       UAFRAB[RAB$W_RSZ] = UAF$C_LENGTH;
: 4986      4992 2 |       UAFRAB[RAB$L_RBF] = RECBUF;
: 4987      4993 2 |       |
: 4988      4994 2 |       |   Modify the system password
: 4989      4995 2 |       |
: 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$$_RBF] = .RBF;
: 4999      5005      2 UAFRAB[RAB$$_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 2B 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 2B 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
08      00      6E      FB44      C8      2C      00048 1$:
20      20      24      A9      11      2C      00050 2$:
                                F9F4      C8      00056
                                FB56      C8      84      00059
                                DC      A8      10      88      0005D
                                FA      A8      0584      8F      B0      00061

```


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

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[UAF.BUGSRC]UAFMAIN.B32;1

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	68	F9F0	C8	9E	00067
		D8	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

```

: 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$GQ_SYSUAFF - SYSUAF fields modified
: 5022      5027 2
: 5023      5028 2 OUTPUTS:
: 5024      5029 2
: 5025      5030 2     none
: 5026      5031 2
: 5027      5032 2 IMPLICIT OUTPUTS:
: 5028      5033 2
: 5029      5034 2     none
: 5030      5035 2
: 5031      5036 2 ROUTINE VALUE:
: 5032      5037 2
: 5033      5038 2     none
: 5034      5039 2
: 5035      5040 2 SIDE EFFECTS:
: 5036      5041 2
: 5037      5042 2     none
: 5038      5043 2
: 5039      5044 2 |--
: 5040      5045 2
: 5041      5046 2 external routine
: 5042      5047 2     nsa$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$k_pkttyp_', type);
: 5052      5057 2     arglist_ptr = .arglist_ptr + 2;
: 5053      5058 2     (.arglist_ptr)<0,16> = nsa$k_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;

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: 5060      5065      2
: 5061      5066      add_descr_packet(type, len, ptr) = : Add a descriptor packet to list
: 5062      5067      begin
: 5063      5068      (.arglist_ptr)<0,16> = %name('nsa$k_pkttyp_', type);
: 5064      5069      arglist_ptr = .arglist_ptr + 2;
: 5065      5070      (.arglist_ptr)<0,16> = nsa$k_arg_mech_descr;
: 5066      5071      arglist_ptr = .arglist_ptr + 2;
: 5067      5072      (.arglist_ptr)<0,32> = len;
: 5068      5073      arglist_ptr = .arglist_ptr + 4;
: 5069      5074      (.arglist_ptr)<0,32> = ptr;
: 5070      5075      arglist_ptr = .arglist_ptr + 4;
: 5071      5076      arglist[nsa$b_arg_pktnum] = .arglist[nsa$b_arg_pktnum] + 1;
: 5072      5077      end%;
: 5073      5078
: 5074      5079      local
: 5075      5080      arglist      : block      ! Argument list for NSA$EVENT_AUDIT
: 5076      5081      [nsa$k_arghdr_length + ((2 + 2 + 8) * 6), byte],
: 5077      5082      arglist_ptr;      ! Packet fill in pointer
: 5078      5083
: 5079      5084      ch$fill(0, %allocation(arglist), arglist); ! Clear out the argument list
: 5080      5085
: 5081      5086      if .nsa$gr_alarmvec[nsa$v_evt_uaf]      ! If alarm auditing,
: 5082      5087      then arglist[nsa$v_arg_flag_alarm] = true; ! perform alarm audit
: 5083      5088
: 5084      5089      if .nsa$gr_journvec[nsa$v_evt_uaf]      ! If journal auditing,
: 5085      5090      then arglist[nsa$v_arg_flag_journ] = true; ! perform journal audit
: 5086      5091
: 5087      5092      if .pcb_sts[$bitposition(pcb$v_secaudit)] ! If mandatory auditing,
: 5088      5093      then arglist[nsa$v_arg_flag_mandy] = true; ! perform mandatory audit
: 5089      5094
: 5090      5095      if .arglist[nsa$b_arg_flag] eql 0      ! If no audit requested,
: 5091      5096      then return;      ! simply exit
: 5092      5097
: 5093      5098      arglist[nsa$l_arg_id] = .code;      ! Set audit record type/subtype
: 5094      5099
: 5095      5100      arglist_ptr = arglist[nsa$t_arg_list]; ! Address packet(s) in arg list
: 5096      5101
: 5097      5102      if .arglist[nsa$w_arg_type] eql nsa$k_rectyp_sysuaf
: 5098      5103      then      ! For SYSUAF records...
: 5099      5104      begin
: 5100      5105      if .arglist[nsa$w_arg_subtype] neq nsa$k_rectyp_sysuaf_del
: 5101      5106      then
: 5102      5107      add_quad_packet(sysuaff, uaf$gq_sysuaff);
: 5103      5108      add_descr_packet( usernam,
: 5104      5109      namelen(uaf$s_username, recbuf[uaf$t_username]),
: 5105      5110      recbuf[uaf$t_username]);
: 5106      5111
: 5107      5112      if .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_sysuaf_cop
: 5108      5113      or .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_sysuaf_ren
: 5109      5114      then
: 5110      5115      add_descr_packet( usernam,
: 5111      5116      namelen(uaf$s_username, .old_user),
: 5112      5117      .old_user);
: 5113      5118      end
: 5114      5119      else      ! For NETUAF records...
: 5115      5120      begin
: 5116      5121      add_descr_packet( nodenam,

```

```

: 5117          5122          netbuf[nafst_node]);
: 5118          P 5123          add_descr_packet(username,
: 5119          P 5124          namelen(naf$s_remuser, netbuf[nafst_remuser]),
: 5120          5125          netbuf[nafst_remuser]);
: 5121          P 5126          add_descr_packet(username,
: 5122          P 5127          namelen(naf$s_localuser, netbuf[nafst_localuser]),
: 5123          5128          netbuf[nafst_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$s_node, netbuf[nafst_node]),
: 5129          5134          netbuf[nafst_node]);
: 5130          P 5135          add_descr_packet(username,
: 5131          P 5136          namelen(naf$s_remuser, netbuf[nafst_remuser]),
: 5132          5137          netbuf[nafst_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, arglst = arglist); ! Do the security audit
: 5140          5145          $cmkrnl(routin = nsa$event_audit, arglst = arglist); ! Do the security audit
: 5141          5146          $cmkrnl(routin = nsa$event_audit, arglst = arglist); ! Do the security audit
: 5142          5147          $cmkrnl(routin = nsa$event_audit, arglst = arglist); ! Do the security audit
: 5143          5148          1 end;

```

```

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

```

007C 0000 SECURITY_AUDIT:

		56	00000000'	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6	5009
		5E	AC	AE	9E	00009	MOVAB	NETBUF, R6	
0054	8F	00		00	2C	0000D	MOVAB	-84(SP), SP	5084
				6E		00014	MOVCS	#0, (SP), #0, #84, ARGLIST	
		04	00000000G	00	02	E1 00015	BBC	#2, NSASGR_ALARMVEC, 1\$	5086
			08	AE	01	88 0001D	BISB2	#1, ARGLIST+8	5087
		04	00000000G	00	02	E1 00021	BBC	#2, NSASGR_JOURNVEC, 2\$	5089
			08	AE	02	88 00029	BISB2	#2, ARGLIST+8	5090
		04	00000000'	00	03	E1 0002D	BBC	#3, PCB_STS+3, 3\$	5092
			08	AE	04	88 00035	BISB2	#4, ARGLIST+8	5093
				08	AE	95 00039	TSTB	ARGLIST+8	5095
				01	12	0003C	BNEQ	4\$	
					04	0003E	RET		
		04		AE	04	AC D0 0003F	MOVL	CODE, ARGLIST+4	5098
				52	0C	AE 9E 00044	MOVAB	ARGLIST+12, ARGLIST_PTR	5100
				02	04	AE B1 00048	CMPW	ARGLIST+4, #2	5102
					3C	12 0004C	BNEQ	6\$	
				02	06	AE B1 0004E	CMPW	ARGLIST+6, #2	5105
					0F	13 00052	BEQL	5\$	
		82	00030012	8F	D0	00054	MOVL	#196626, (ARGLIST_PTR)+	5107

security_audit - perform a security audit

M 2
8-Jan-1985 17:24:07 VAX-11 Bliss-32 V4.0-742
2-Oct-1984 13:01:10 [UAF.BUGSRC]UAFMAIN.B32;1

		82	F9F8	C6	7D	0005B		MOVQ	UAF\$GQ SYSUAFF, (ARGLIST_PTR)+	
			09	AE	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+4	
		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		CMPW	ARGLIST+6, #4	5111
				7D	13	00080		BEQL	8\$	
		05	06	AE	B1	00082		CMPW	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		CMPW	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		50	C3	0010B		SUBL3	R0, #32, (ARGLIST_PTR)+	
			08	AC	D0	0010F		MOVL	OLD USER, (ARGLIST_PTR)+	
			09	AE	96	00113		INCB	ARGLIST+9	
		50	04	AE	9E	00116	9\$:	MOVAB	ARGLIST+4, R0	5141
		52		50	C2	0011A		SUBL2	R0, R2	
6E		52		04	C7	0011D		DIVL3	#4, R2, ARGLIST	
				5E	DD	00121		PUSHL	SP	5146
		00000000G	00	00000000G	00	9F	00123	PUSHAB	NSASEVENT AUDIT	
				02	FB	00129		CALLS	#2, SYSSCMKRNL	5148
				04	00	00130		RET		

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

: 5145
: 5146
5149 1 end
5150 0 eludom

! End of module

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	2316	NOVEC,NOWRT, RD, NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$OWNS	4364	NOVEC, WRT, RD, NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$GLOBALS	2032	NOVEC, WRT, RD, NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	11173	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
. ABS .	0	NOVEC,NOWRT,NORD, NOEXE,NOSHR, LCL, ABS, CON,NOPIC,ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA18:[SYSLIB]LIB.L32;1	18619	300	1	1000	00:01.4

COMMAND QUALIFIERS

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

: Size: 11173 code + 8712 data bytes
: Run Time: 02:11.0
: Elapsed Time: 05:57.8
: Lines/CPU Min: 2358
: Lexemes/CPU-Min: 38325
: Memory Used: 654 pages
: Compilation Complete

LAFFPARSE
LIS

BOOTDRUVP
LIS

UMBUVAXIP
LIS

UVIROM

UMBUVAXIP
MAP

CONIO
LIS

UVMS

REMOVE
COM