





```

1      0001 0 module uafparse (
2      0002 0     language (bliss32),
:001  JRL0038 0003 0     ident = 'V04-001',
4-1   0004 0     addressing_mode(external=general, nonexternal=general)) =
5      0005 1 begin
6      0006 1
7      0007 1 *****
8      0008 1 *
9      0009 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
10     0010 1 *   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
11     0011 1 *   ALL RIGHTS RESERVED.
12     0012 1 *
13     0013 1 *   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
14     0014 1 *   ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
15     0015 1 *   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
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17     0017 1 *   OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
18     0018 1 *   TRANSFERRED.
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20     0020 1 *   THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
21     0021 1 *   AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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24     0024 1 *   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
25     0025 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
26     0026 1 *
27     0027 1 *
28     0028 1 *****
29     0029 1
30     0030 1 **
31     0031 1 FACILITY:      System Management Utility Program
32     0032 1
33     0033 1 ABSTRACT:      Parsing subroutines for the AUTHORIZE utility
34     0034 1
35     0035 1 ENVIRONMENT:
36     0036 1
37     0037 1 AUTHOR:        Henry M. Levy      , CREATION DATE: 1-June-1977
38     0038 1
39     0039 1 MODIFIED BY:
40     0040 1
:001  JRL0038 0041 1     V04-001 JRL0038      John R. Lawson, Jr.      10-Oct-1984 09:04
:002  JRL0038 0042 1     Packet MHB0151 from FT2 has somehow disappeared, replace:
:003  JRL0038 0043 1
:004  JRL0038 0044 1     V03-016 MHB0151      Mark Bramhall          26-Apr-1984
:005  JRL0038 0045 1     Fix external addressing mode.
:006  JRL0038 0046 1     Change IPARSE tables PSECT naming to $TPA_XXX.
:007  JRL0038 0047 1     Add disreconnect flag.
:008  JRL0038 0048 1     Add security auditing for SYSUAF/NETUAF changes.
:009  JRL0038 0049 1
:010  JRL0038 0050 1     This packet was in FT2, but nothing later.
:011  JRL0038 0051 1
41     0052 1     V03-022 JRL0035      John R. Lawson, Jr.      07-Aug-1984 15:49
42     0053 1     Fix PWD_EXPIRED login flag to be set with passwords.
43     0054 1
44     0055 1     V03-021 JRL0022      John R. Lawson, Jr.      09-Jul-1984 13:40
45     0056 1     Supply missing brackets (if necessary) on /DIRECTORY.
46     0057 1

```

47 0058 1  
 48 0059 1  
 49 0060 1  
 50 0061 1  
 51 0062 1  
 52 0063 1  
 53 0064 1  
 54 0065 1  
 55 0066 1  
 56 0067 1  
 57 0068 1  
 58 0069 1  
 59 0070 1  
 60 0071 1  
 61 0072 1  
 62 0073 1  
 63 0074 1  
 64 0075 1  
 65 0076 1  
 66 0077 1  
 67 0078 1  
 68 0079 1  
 69 0080 1  
 70 0081 1  
 71 0082 1  
 72 0083 1  
 73 0084 1  
 74 0085 1  
 75 0086 1  
 76 0087 1  
 77 0088 1  
 78 0089 1  
 79 0090 1  
 80 0091 1  
 81 0092 1  
 82 0093 1  
 83 0094 1  
 84 0095 1  
 85 0096 1  
 86 0097 1  
 87 0098 1  
 88 0099 1  
 89 0100 1  
 90 0101 1  
 91 0102 1  
 92 0103 1  
 93 0104 1  
 94 0105 1  
 95 0106 1  
 96 0107 1  
 97 0108 1  
 98 0109 1  
 99 0110 1  
 100 0111 1  
 101 0112 1  
 102 0113 1  
 103 0114 1

V03-020 JRL0011 John R. Lawson, Jr. 02-Jul-1984 14:40  
 Add literal WORD\_UNSIGNED\_LENGTH (=17) for unsigned  
 words in WS info.

V03-019 JRL0012 John R. Lawson, Jr. 21-Jun-1984 15:56  
 Add /GENERATE qualifier to generate random passwords.

V03-018 JRL0008 John R. Lawson, Jr. 20-Jun-1984 14:19  
 Add /PWDEXPIRED qualifier to allow pre-expired passwords.

V03-017 JRL0007 John R. Lawson, Jr. 20-Jun-1984 14:18  
 Add /PWDLIFETIME=NONE qualifier.

V03-016 JRL0002 John R. Lawson, Jr. 15-Jun-1984 12:54  
 Change all messages to calls to LIBSSIGNAL, place all  
 messages in a .MSG file

V03-015 LY0475 Larry Yetto 9-APR-1984 08:34  
 If /NOEXPIRATION or /NOPWDLIFE is specified then  
 zero the field in the UAF record.

V03-014 LY0467 Larry Yetto 22-MAR-1984 13:53  
 Add support for the rights data base functions

V03-013 ACG0397 Andrew C. Goldstein, 6-Feb-1984 16:25  
 Add DISREPORT flag to UAF; fix bugs in storing secondary  
 password

V03-012 ACG0388 Andrew C. Goldstein, 12-Jan-1984 18:52  
 Add command input to handle new UAF features;  
 general code cleanup

V03-011 ACG0385 Andrew C. Goldstein, 6-Jan-1984 14:18  
 V4 UAF format change

V03-010 TMK0001 Todd M. Katz 11-Oct-1983  
 Add JQUOTA (job-wide logical name table creation quota)  
 qualifier.

V03-009 LMP0153 L. Mark Pilant, 13-Sep-1983 11:41  
 Add minimal support for alphanumeric UICs.

008 JWT0105 Jim Teague 04-Apr-1983  
 Finish up long filename stuff.

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

006 WMC0001 Wayne Cardoza 15-Mar-1983  
 Add MAXDETACH qualifier

005 JWT0076 Jim Teague 13-Dec-1982  
 Fix bug in parsing UIC specs.

004 JWT0046 Jim Teague 30-Jul-1982  
 Check null password string earlier in GETPASSWORD



116	0126	1	:		
117	0127	1	:	Require files:	
118	0128	1	:		
119	0129	1	:	require	
120	0130	1	:	'lib\$:uafreq';	
121	0226	1	:		
122	0227	1	:	TABLE OF CONTENTS:	
123	0228	1	:		
124	0229	1	:		
125	0230	1	:	forward routine	
126	0231	1	:		
127	0232	1	:	update_record,	modify all specified fields
128	0233	1	:	getaccess,	get access flag bits
129	0234	1	:	check_primary,	verify 'primary' keyword
130	0235	1	:	check_secondary,	verify 'secondary' keyword
131	0236	1	:	set_range,	set hourly restriction bits
132	0237	1	:	getcpum,	get cpu time quota
133	0238	1	:	getdevice,	get default device name
134	0239	1	:	getdirectory,	get default directory
135	0240	1	:	checkvalue,	check UFD group and member value
136	0241	1	:	checklength,	check directory name length
137	0242	1	:	getflags,	get flag bits
138	0243	1	:	getpflags,	get old per day login flags
139	0244	1	:	getrestrict,	get old hourly restriction values
140	0245	1	:	getprimedays,	get primary day list
141	0246	1	:	getpriv,	get process privileges
142	0247	1	:	getuic,	get user identification code
143	0248	1	:	parse_uic,	obtain UIC group and member
144	0249	1	:	parse_wild,	parse wildcarded user specification
145	0250	1	:	parse_wild_uic,	parse wildcarded UIC
146	0251	1	:	getstring,	get string from input
147	0252	1	:	getval,	get numeric value from user
148	0253	1	:	cvtnum,	convert decimal ascii to binary
149	0254	1	:	UAF\$GENERATE,	generate necessary passwords
150	0255	1	:	GETPASSWORD,	update password fields
151	0256	1	:	AUTHORIZE_GENERATE;	Interface to PL/I
152	0257	1	:		
153	0258	1	:		
154	0259	1	:	external routine	
155	0260	1	:		
156	0261	1	:	GENERATE PASSWORDS,	
157	0262	1	:	SYSSASSIGN,	
158	0263	1	:	SYSSDASSGN,	
159	0264	1	:	SYSSQIOW,	
160	0265	1	:	LIB\$GET_VM,	
161	0266	1	:	STR\$UPCASE,	
001 !JRL0038	0267	1	:	lib\$tparse,	
002 !JRL0038	0268	1	:	lib\$lookup_key,	
165-3	0269	1	:	cli\$dcl_parse,	
166	0270	1	:	cli\$present,	
167	0271	1	:	cli\$get_value,	
168	0272	1	:	faout,	output formatted message
169	0273	1	:	lgi\$hpwd,	hash password routine
170	0274	1	:	lib\$cvd_time,	convert ASCII to system delta time
171	0275	1	:	lib\$cvd_time,	convert ASCII to system abs time
172	0276	1	:	prv\$setpriv;	set privilege bits based on
173	0277	1	:		privilege names

```

174      0278 1
175      0279 1
176      0280 1  INCLUDE FILES:
177      0281 1
178      0282 1
179      0283 1  library 'SYSS$LIBRARY:TPAMAC';
180      0284 1  library 'SYSS$LIBRARY:LIB';
181      0285 1
182      0286 1
183      0287 1  MACROS:
184      0288 1
185      0289 1
186      0290 1  macro
187      M 0291 1  cstring[] = (uplit byte (%charcount (%string (%remaining)),
188      0292 1  %string (%remaining)))%,
189      0293 1
190      0294 1  Macro to create string descriptor for command parameters and
191      0295 1  qualifiers
192      0296 1
193      0297 1
194      M 0298 1  sd[a] =
195      0299 1  bind %name ('SD_', a) = $descriptor (a)%;
196      0300 1
197      0301 1
198      P 0302 1  sd (
199      P 0303 1  'token1',      'token2',      'account',      'astlm',
200      P 0304 1  'biolm',       'bytlm',       'cli',          'cputime',
201      P 0305 1  'device',      'diolm',       'directory',    'enqlm',
202      P 0306 1  'fillm',       'flags',       'lgicmd',       'maxjobs',
203      P 0307 1  'owner',       'password',    'pbytlm',       'pflags',
204      P 0308 1  'pgflquota',   'p_restrict', 'prclm',        'priority',
205      P 0309 1  'privileges', 'sflags',      's_restrict',  'shrfillm',
206      P 0310 1  'tqelm',       'uic',         'wdefault',     'wextent',
207      P 0311 1  'wsquote',     'display',     'primedays',   'maxacctjobs',
208      P 0312 1  'maxdetach',  'clitables',  'jquota',       'access',
209      P 0313 1  'batch',       'defprivileges', 'dialup',       'expiration',
210      P 0314 1  'interactive', 'local',       'network',      'pwdlifetime',
211      P 0315 1  'padminum',   'quepriority', 'remote',
212      0316 1  );
213      0317 1
214      0318 1  The definition table for flag bits for UAF$B_FLAGS.
215      0319 1
216      0320 1
217      0321 1  literal
001 !JRL0038 0322 1  num_flags      = 14,      ! number of FLAG_TABLE entries
219-1 0323 1  num_opflags    = 2,      ! number of OPFLAG_TABLE entries
220      0324 1  num_pdflags    = 7;      ! number of entries in prime days table
221      0325 1
222      0326 1  own
223      0327 1  flag_table : vector [2 * num_flags + 1, long] initial (
224      0328 1  2 * num_flags,
225      0329 1  uplit (%ascic 'DISCTLY'),      $bitposition (uaf$V_disctly),
226      0330 1  uplit (%ascic 'DEFCLI'),       $bitposition (uaf$V_defcli),
227      0331 1  uplit (%ascic 'LOCKPWD'),      $bitposition (uaf$V_lockpwd),
228      0332 1  uplit (%ascic 'CAPTIVE'),      $bitposition (uaf$V_captive),
229      0333 1  uplit (%ascic 'DISUSER'),      $bitposition (uaf$V_disact),
230      0334 1  uplit (%ascic 'DISWELCOME'),   $bitposition (uaf$V_diswelcom),

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231      0335 1      uplit (%ascic 'DISNEWMAIL'), $bitposition (uaf$u_dismail),
232      0336 1      uplit (%ascic 'DISMAIL'), $bitposition (uaf$u_nomail),
233      0337 1      uplit (%ascic 'GENPWD'), $bitposition (uaf$u_genpwd),
234      0338 1      uplit (%ascic 'PWD EXPIRED'), $bitposition (uaf$u_pwd_expired),
235      0339 1      uplit (%ascic 'PWD2 EXPIRED'), $bitposition (uaf$u_pwd2_expired),
236      0340 1      uplit (%ascic 'AUDIT'), $bitposition (uaf$u_audit),
001 !JRL0038 0341 1      uplit (%ascic 'DISREPORT'), $bitposition (uaf$u_disreport),
002 !JRL0038 0342 1      uplit (%ascic 'DISRECONNECT'), $bitposition (uaf$u_disreconnect),
238-1    0343 1      ),
239      0344 1      ;
240      0345 1      The definition table for flag bits for UAF$B_PDAYFLAGS and UAF$B_SDAYFLAGS.
241      0346 1      ;
242      0347 1      opflag_table : vector [2 * num_opflags + 1, long] initial (
243      0348 1      2 * num_opflags,
244      0349 1      uplit (%ascic 'DISDIALUP'), uaf$k_disdialup,
245      0350 1      uplit (%ascic 'DISNETWORK'), uaf$k_disnetwork ! Disneyworld ??
246      0351 1      ),
247      0352 1      ;
248      0353 1      The definition table for flag bits for UAF$B_PRIMEDAYS.
249      0354 1      ;
250      0355 1      pdflag_table : vector [2 * num_pdflags + 1, long] initial (
251      0356 1      2 * num_pdflags,
252      0357 1      uplit (%ascic 'MONDAY'), $bitposition (uaf$u_monday),
253      0358 1      uplit (%ascic 'TUESDAY'), $bitposition (uaf$u_tuesday),
254      0359 1      uplit (%ascic 'WEDNESDAY'), $bitposition (uaf$u_wednesday),
255      0360 1      uplit (%ascic 'THURSDAY'), $bitposition (uaf$u_thursday),
256      0361 1      uplit (%ascic 'FRIDAY'), $bitposition (uaf$u_friday),
257      0362 1      uplit (%ascic 'SATURDAY'), $bitposition (uaf$u_saturday),
258      0363 1      uplit (%ascic 'SUNDAY'), $bitposition (uaf$u_sunday)
259      0364 1      );
260      0365 1      ;
261      0366 1      ;
262      0367 1      ;
263      0368 1      EQUATED SYMBOLS:
264      0369 1      ;
265      0370 1      ;
266      0371 1      literal
267      0372 1      false = 0, ! logical false
268      0373 1      true = 1, ! logical true
269      0374 1      ;
270      0375 1      network_access = 1^0, ! mask representing /NETWORK_ACCESS
271      0376 1      batch_access = 1^1, ! mask representing /BATCH_ACCESS
272      0377 1      local_access = 1^2, ! mask representing /LOCAL_ACCESS
273      0378 1      dialup_access = 1^3, ! mask representing /DIALUP_ACCESS
274      0379 1      remote_access = 1^4, ! mask representing /REMOTE_ACCESS
275      0380 1      interactive_access = ! mask representing /INTERACTIVE_ACCESS
276      0381 1      local_access or dialup_access or remote_access,
277      0382 1      access_access = ! mask representing /ACCESS
278      0383 1      interactive_access or network_access or batch_access,
279      0384 1      ;
280      0385 1      oyte_length = 8, ! bits per byte
281      0386 1      word_length = 16, ! bits per word
282      0387 1      word_unsigned_length
283      0388 1      = 17, ! for WS info
284      0389 1      long_length = 32, ! bits per longword
285      0390 1      ;
286      0391 1      ;

```







```

: 400      P 0506 1 $state (
: 401      P 0507 1      ('_'),
: 402      P 0508 1      (tpa$ eos, tpa$ exit, set_range)
: 403      P 0509 1      );
: 404      P 0510 1
: 405      P 0511 1 $state (
: 406      P 0512 1      (tpa$ decimal,, set_range)
: 407      P 0513 1      );
: 408      P 0514 1
: 409      P 0515 1 $state (terminal,
: 410      P 0516 1      (tpa$ eos, tpa$ exit)
: 411      P 0517 1      );
: 412      P 0518 1
: 413      P 0519 1
: 414      P 0520 1
: 415      P 0521 1
: 416      P 0522 1
: 001 !JRL0038 0523 1 $init_state (restrict_states, restrict_keys, $tpa);
: 418-1      P 0524 1
: 419      P 0525 1 $state (
: 420      P 0526 1      (tpa$ decimal,,, right_bit)
: 421      P 0527 1      );
: 422      P 0528 1
: 423      P 0529 1 $state (
: 424      P 0530 1      ('_'),
: 425      P 0531 1      (tpa$ eos, tpa$ exit, set_range)
: 426      P 0532 1      );
: 427      P 0533 1
: 428      P 0534 1 $state (
: 429      P 0535 1      (tpa$ decimal,, set_range)
: 430      P 0536 1      );
: 431      P 0537 1
: 432      P 0538 1 $state (
: 433      P 0539 1      (tpa$ eos, tpa$ exit)
: 434      P 0540 1      );
: 435      P 0541 1
: 436      P 0542 1
: 437      P 0543 1
: 438      P 0544 1
: 439      P 0545 1
: 001 !JRL0038 0546 1 $init_state (uic_states, uic_keys, $tpa);
: 441-i      P 0547 1
: 442      P 0548 1 $state (
: 443      P 0549 1      (tpa$ ident, tpa$ exit,,, converted_uic)
: 444      P 0550 1      );
: 445      P 0551 1
: 446      P 0552 1
: 447      P 0553 1
: 448      P 0554 1
: 449      P 0555 1
: 001 !JRL0038 0556 1 $init_state (dir_states, dir_keys, $tpa);
: 451-1      P 0557 1
: 452      P 0558 1 $state (
: 453      P 0559 1      (('ufd'), end_state),
: 454      P 0560 1      (('subdir'), end_state),
: 455      P 0561 1      (('['),
: 456      P 0562 1      (('<'))

```

```

: 457      0563 1      );
: 458      0564 1
: 459      P 0565 1 $state (,
: 460      P 0566 1      ( (ufd)),
: 461      P 0567 1      ( (subdir))
: 462      0568 1      );
: 463      0569 1
: 464      P 0570 1 $state (
: 465      P 0571 1      (f,').
: 466      P 0572 1      ('>')
: 467      0573 1      );
: 468      0574 1
: 469      P 0575 1 $state (end_state,
: 470      P 0576 1      (tpa$_eos, tpa$_exit)
: 471      0577 1      );
: 472      0578 1
: 473      P 0579 1 $state (ufd,
: 474      P 0580 1      (tpa$_octal, checkvalue)
: 475      0581 1      );
: 476      0582 1
: 477      P 0583 1 $state (
: 478      P 0584 1      (f,')
: 479      0585 1      );
: 480      0586 1
: 481      P 0587 1 $state (,
: 482      P 0588 1      (tpa$_octal, tpa$_exit, checkvalue)
: 483      0589 1      );
: 484      0590 1
: 485      P 0591 1 $state (subdir,
: 486      P 0592 1      (tpa$_symbol, checklength)
: 487      0593 1      );
: 488      0594 1
: 489      P 0595 1 $state (
: 490      P 0596 1      (f, 'subdir),
: 491      P 0597 1      (tpa$_lambda, tpa$_exit)
: 492      0598 1      );
```

update\_record - modify all specified fields

```

494 0599 1 %sbttl 'update_record - modify all specified fields'
495 0600 1 global routine update_record =
496 0601 2 begin
497 0602 2
498 0603 2 :++
499 0604 2
500 0605 2 : FUNCTIONAL DESCRIPTION:
501 0606 2
502 0607 2 : Scan the remainder of the user's input command line for parameters
503 0608 2 : and parameter values. Pull off each parameter keyword and check
504 0609 2 : that it is valid, then call the associated routine to process
505 0610 2 : the supplied value or string.
506 0611 2
507 0612 2 : INPUTS:
508 0613 2
509 0614 2 : none
510 0615 2
511 0616 2 : IMPLICIT INPUTS:
512 0617 2
513 0618 2
514 0619 2 : OUTPUTS:
515 0620 2
516 0621 2 : none
517 0622 2
518 0623 2 : IMPLICIT OUTPUTS:
519 0624 2
520 0625 2 : none
521 0626 2
522 0627 2 : ROUTINE VALUE:
523 0628 2
524 0629 2 : true -> all keywords and parameters were specified correctly
525 0630 2
526 0631 2 : SIDE EFFECTS:
527 0632 2
528 0633 2 : none
529 0634 2 :--
530 0635 2 status = false;
531 0636 2 primary = false;
532 0637 2 secondary = false;
533 0638 2 no_flag = false;
534 0639 2
001 JRL0038 0640 2 uaf$gq_sysuaff[0,0,32,0] = 0;
002 JRL0038 0641 2 uaf$gq_sysuaff[4,0,32,0] = 0;
003 JRL0038 0642 2 %assume(nsa_s_sysuaff, eql, 8);
004 JRL0038 0643 2
535 0644 2 :
536 0645 2 : If this is part of a series of calls from WILD_USER, the command
537 0646 2 : line must be reparsed after the first call
538 0647 2
539 0648 2 if .call_count neq 0
540 0649 2 then
541 0650 2 cli$dcl_parse (cmdlindsc, authorize_commands);
542 0651 2
543 0652 2
544 0653 2 if CLISP$PRESENT(%ascid'GENERATE_PASSWORD')
545 0654 2 and (CLISP$PRESENT(SD_PASSWORD) neq CLISP$ABSENT) then
546 0655 2 begin

```

```

: 547 0656 3
: 548 0657 LIBSSIGNAL(UAF$_ZCONFLICT);
: 549 0658
: 550 0659 end
: 551 0660 else if CLIPRESENT(%ascid'GENERATE_PASSWORD')
: 552 0661 or (CLIPRESENT(SD_PASSWORD) neq CLIP_ABSENT) then
: 553 0662 begin
: 554 0663
:001 !JRL0038 0664 uaf$gq_sysuaff[nsa_v_password] = true;
:002 !JRL0038 0665
: 555 0666 if CLIPRESENT(%ascid'GENERATE_PASSWORD') then
: 556 0667 UAF$GENERATE();
: 557 0668 if not GETPASSWORD() then
: 558 0669 return FALSE;
: 559 0670 RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
: 560 0671 STATUS = TRUE;
: 561 0672
: 562 0673 end;
: 563 0674
: 564 0675
: 565 0676 if .uaf$gl_ctlmsk[uaf$v_rename]
: 566 0677 then
: 567 0678 return true;
: 568 0679
: 569 0680
: 570 0681 ! Check that we're not at the end of the command line. Continue
: 571 0682 ! processing parameters until the end is reached.
: 572 0683 !
: 573 0684
: 574 0685 cli_status = cli$present (sd_access);
: 575 0686 if .cli_status
: 576 0687 or .cli_status eql cli$_negated
: 577 0688 then
: 578 0689 begin
:001 !JRL0038 0690 uaf$gq_sysuaff[nsa_v_access] = true;
: 579 0691 if not getaccess (sd_access, access_access, .cli_status)
: 580 0692 then return false;
: 581 0693 status = true;
: 582 0694 end;
: 583 0695
: 584 0696 cli_status = cli$present (sd_interactive);
: 585 0697 if .cli_status
: 586 0698 or .cli_status eql cli$_negated
: 587 0699 then
: 588 0700 begin
:001 !JRL0038 0701 uaf$gq_sysuaff[nsa_v_interactive] = true;
: 589 0702 if not getaccess (sd_interactive, interactive_access, .cli_status)
: 590 0703 then return false;
: 591 0704 status = true;
: 592 0705 end;
: 593 0706
: 594 0707 cli_status = cli$present (sd_batch);
: 595 0708 if .cli_status
: 596 0709 or .cli_status eql cli$_negated
: 597 0710 then
: 598 0711 begin
:001 !JRL0038 0712 uaf$gq_sysuaff[nsa_v_batch] = true;

```

```

update_record - modify all specified fields
: 599      0713      3      if not getaccess (sd_batch, batch_access, .cli_status)
: 600      0714      3      then return false;
: 601      0715      3      status = true;
: 602      0716      3      end;
: 603      0717      3
: 604      0718      2      cli_status = cli$present (sd_dialup);
: 605      0719      2      if .cli_status
: 606      0720      2      or .cli_status eql cli$_negated
: 607      0721      2      then
: 608      0722      2      begin
: 001 JRL0038 0723      2      uaf$gq_sysuaff[nsa_v_dialup] = true;
: 609      0724      2      if not getaccess (sd_dialup, dialup_access, .cli_status)
: 610      0725      2      then return false;
: 611      0726      2      status = true;
: 612      0727      2      end;
: 613      0728      2
: 614      0729      2      cli_status = cli$present (sd_network);
: 615      0730      2      if .cli_status
: 616      0731      2      or .cli_status eql cli$_negated
: 617      0732      2      then
: 618      0733      2      begin
: 001 JRL0038 0734      2      uaf$gq_sysuaff[nsa_v_network] = true;
: 619      0735      2      if not getaccess (sd_network, network_access, .cli_status)
: 620      0736      2      then return false;
: 621      0737      2      status = true;
: 622      0738      2      end;
: 623      0739      2
: 624      0740      2      cli_status = cli$present (sd_local);
: 625      0741      2      if .cli_status
: 626      0742      2      or .cli_status eql cli$_negated
: 627      0743      2      then
: 628      0744      2      begin
: 001 JRL0038 0745      2      uaf$gq_sysuaff[nsa_v_local] = true;
: 629      0746      2      if not getaccess (sd_local, local_access, .cli_status)
: 630      0747      2      then return false;
: 631      0748      2      status = true;
: 632      0749      2      end;
: 633      0750      2
: 634      0751      2      cli_status = cli$present (sd_remote);
: 635      0752      2      if .cli_status
: 636      0753      2      or .cli_status eql cli$_negated
: 637      0754      2      then
: 638      0755      2      begin
: 001 JRL0038 0756      2      uaf$gq_sysuaff[nsa_v_remote] = true;
: 639      0757      2      if not getaccess (sd_remote, remote_access, .cli_status)
: 640      0758      2      then return false;
: 641      0759      2      status = true;
: 642      0760      2      end;
: 643      0761      2
: 644      0762      2      if cli$present (sd_account)
: 645      0763      2      then
: 646      0764      2      begin
: 001 JRL0038 0765      2      uaf$gq_sysuaff[nsa_v_account] = true;
: 647      0766      2      cli$get_value (sd_account, tokendsc);
: 648      0767      2      !** if not getstring (recbuf[uaf$t_account], uaf$s_account, filled_string)
: 649      0768      2      if not getstring (recbuf[uaf$t_account], 8, filled_string)
: 650      0769      2      then return false;

```

```

: 651      0770      3      status = true;
: 652      0771      2      end;
: 653      0772      2      ~~~~~
: 654      0773      2      if cli$present (sd_astlm)
: 655      0774      2      then
: 656      0775      2      begin
:001 !JRL0038 0776      2      uaf$gq_sysuaff[nsa_v_astlm] = true;
: 657      0777      2      cli$get_value (sd_astlm, tokendsc);
: 658      0778      2      if not getval (recbuf[uaf$w_astlm], word_length)
: 659      0779      2      then return false;
: 660      0780      2      status = true;
: 661      0781      2      end;
: 662      0782      2      ~~~~~
: 663      0783      2      if cli$present (sd_biolm)
: 664      0784      2      then
: 665      0785      2      begin
:001 !JRL0038 0786      2      uaf$gq_sysuaff[nsa_v_biolm] = true;
: 666      0787      2      cli$get_value (sd_biolm, tokendsc);
: 667      0788      2      if not getval (recbuf[uaf$w_biolm], word_length)
: 668      0789      2      then return false;
: 669      0790      2      status = true;
: 670      0791      2      end;
: 671      0792      2      ~~~~~
: 672      0793      2      if cli$present (sd_bytlm)
: 673      0794      2      then
: 674      0795      2      begin
:001 !JRL0038 0796      2      uaf$gq_sysuaff[nsa_v_bytlm] = true;
: 675      0797      2      cli$get_value (sd_bytlm, tokendsc);
: 676      0798      2      if not getval (recbuf[uaf$l_bytlm], long_length)
: 677      0799      2      then return false;
: 678      0800      2      status = true;
: 679      0801      2      end;
: 680      0802      2      ~~~~~
: 681      0803      2      if cli$present (sd_cli)
: 682      0804      2      then
: 683      0805      2      begin
:001 !JRL0038 0806      2      uaf$gq_sysuaff[nsa_v_cli] = true;
: 684      0807      2      cli$get_value (sd_cli, tokendsc);
: 685      0808      2      if not getstring (recbuf[uaf$t_defcli], uaf$s_defcli, counted_string)
: 686      0809      2      then return false;
: 687      0810      2      uaf$gl_ctlmsk[uaf$v_clitab_pres] =
: 688      0811      2      (.vector [recbuf[uaf$t_clitables], 0; .byte] nq 0);
: 689      0812      2      uaf$gl_ctlmsk[uaf$v_cli] = true;
: 690      0813      2      status = true;
: 691      0814      2      end;
: 692      0815      2      ~~~~~
: 693      0816      2      if cli$present (sd_clitables)
: 694      0817      2      then
: 695      0818      2      begin
:001 !JRL0038 0819      2      uaf$gq_sysuaff[nsa_v_clitables] = true;
: 696      0820      2      cli$get_value (sd_clitables, tokendsc);
: 697      0821      2      if not getstring (recbuf[uaf$t_clitables], uaf$s_clitables, counted_string)
: 698      0822      2      then return false;
: 699      0823      2      uaf$gl_ctlmsk[uaf$v_clitables] = true;
: 700      0824      2      status = true;
: 701      0825      2      end;
: 702      0826      2      ~~~~~

```



```

: 703      0827 2 if cli$present (sd_cputime)
: 704      0828 2 then
: 705      0829 2     begin
:001 !JRL0038 0830 2     uaf$gq_sysuaff[nsa_v_cputime] = true;
: 706      0831 2     cli$get_value (sd_cputime, tokendsc);
: 707      0832 2     if not getcputim (?)
: 708      0833 2     then return false;
: 709      0834 2     status = true;
: 710      0835 2     end;
: 711      0836 2
: 712      0837 2 if cli$present (sd_defprivileges)
: 713      0838 2 then
: 714      0839 2     begin
:001 !JRL0038 0840 2     uaf$gq_sysuaff[nsa_v_defprivileges] = true;
: 715      0841 2     if not getpriv (sd_defprivileges, recbuf[uaf$q_def_priv])
: 716      0842 2     then return false;
: 717      0843 2     status = true;
: 718      0844 2     end;
: 719      0845 2
: 720      0846 2 if cli$present (sd_device)
: 721      0847 2 then
: 722      0848 2     begin
:001 !JRL0038 0849 2     uaf$gq_sysuaff[nsa_v_device] = true;
: 723      0850 2     cli$get_value (sd_device, tokendsc);
: 724      0851 2     if not getdevice (?)
: 725      0852 2     then return false;
: 726      0853 2     status = true;
: 727      0854 2     end;
: 728      0855 2
: 729      0856 2 if cli$present (sd_diolm)
: 730      0857 2 then
: 731      0858 2     begin
:001 !JRL0038 0859 2     uaf$gq_sysuaff[nsa_v_diolm] = true;
: 732      0860 2     cli$get_value (sd_diolm, tokendsc);
: 733      0861 2     if not getval (recbuf[uaf$w_diolm], word_length)
: 734      0862 2     then return false;
: 735      0863 2     status = true;
: 736      0864 2     end;
: 737      0865 2
: 738      0866 2 if cli$present (sd_directory)
: 739      0867 2 then
: 740      0868 2     begin
:001 !JRL0038 0869 2     uaf$gq_sysuaff[nsa_v_directory] = true;
: 741      0870 2     cli$get_value (sd_directory, tokendsc);
: 742      0871 2     if not getdirectory ()
: 743      0872 2     then return false;
: 744      0873 2     status = true;
: 745      0874 2     end;
: 746      0875 2
: 747      0876 2 if cli$present (sd_enqlm)
: 748      0877 2 then
: 749      0878 2     begin
:001 !JRL0038 0879 2     uaf$gq_sysuaff[nsa_v_enqlm] = true;
: 750      0880 2     cli$get_value (sd_enqlm, tokendsc);
: 751      0881 2     if not getval (recbuf[uaf$w_enqlm], word_length)
: 752      0882 2     then return false;
: 753      0883 2     status = true;

```

```

: 754      0884      2      end;
: 755      0885
: 756      0886      cli_status = cli$present (sd_expiration) ;
: 757      0887      if .cli_status eql cli$_negated
: 758      0888      then
: 759      0889      begin
:001 !JRL0038 0890      uaf$gq_sysuaff[nsa_v_expiration] = true;
: 760      0891      ch$fill ( 0, uaf$s_expiration, recbuf[uaf$q_expiration] ) ;
: 761      0892      status = true ;
: 762      0893      end
: 763      0894      else
: 764      0895      if .cli_status
: 765      0896      then
: 766      0897      begin
:001 !JRL0038 0898      uaf$gq_sysuaff[nsa_v_expiration] = true;
: 767      0899      cli$get_value (sd_expiration, tokendsc);
: 768      0900      if not (status = (lib$cvt_time (tokendsc, recbuf[uaf$q_expiration])))
: 769      0901      then
: 770      0902      begin
: 771      0903      signal (.status);
: 772      0904      return false;
: 773      0905      end;
: 774      0906      status = true;
: 775      0907      end;
: 776      0908
: 777      0909      if cli$present (sd_fillm)
: 778      0910      then
: 779      0911      begin
:001 !JRL0038 0912      uaf$gq_sysuaff[nsa_v_fillm] = true;
: 780      0913      cli$get_value (sd_fillm, tokendsc);
: 781      0914      if not getval (recbuf[uaf$w_fillm], word_length)
: 782      0915      then return false;
: 783      0916      status = true;
: 784      0917      end;
: 785      0918
: 786      0919      if cli$present (sd_flags)
: 787      0920      then
: 788      0921      begin
:001 !JRL0038 0922      uaf$gq_sysuaff[nsa_v_flags] = true;
: 789      0923      if not getflags ()
: 790      0924      then return false;
: 791      0925      status = true;
: 792      0926      end;
: 793      0927
: 794      0928      if cli$present (sd_jtquota)
: 795      0929      then
: 796      0930      begin
:001 !JRL0038 0931      uaf$gq_sysuaff[nsa_v_jtquota] = true;
: 797      0932      cli$get_value (sd_jtquota, tokendsc);
: 798      0933      if not getval (recbuf[uaf$l_jtquota], long_length)
: 799      0934      then return false;
: 800      0935      status = true;
: 801      0936      end;
: 802      0937
: 803      0938      if cli$present (sd_lgicmd)
: 804      0939      then
: 805      0940      begin

```

```

:001 !JRL0038 0941      uaf$gq_sysuaff[nsa_v_lgicmd] = true;
      806      0942      cli$get_value (sd_lgicmd, tokendsc);
      807      0943      if not getstring (recbuf[uaf$t_lgicmd], uaf$s_lgicmd, counted_string)
      808      0944      then return false;
      809      0945      status = true;
      810      0946      end;
      811      0947
      812      0948      if cli$present (sd_maxjobs)
      813      0949      then
      814      0950      begin
:001 !JRL0038 0951      uaf$gq_sysuaff[nsa_v_maxjobs] = true;
      815      0952      cli$get_value (sd_maxjobs, tokendsc);
      816      0953      if not getval (recbuf[uaf$w_maxjobs], word_length)
      817      0954      then return false;
      818      0955      status = true;
      819      0956      end;
      820      0957
      821      0958      if cli$present (sd_maxacctjobs)
      822      0959      then
      823      0960      begin
:001 !JRL0038 0961      uaf$gq_sysuaff[nsa_v_maxacctjobs] = true;
      824      0962      cli$get_value (sd_maxacctjobs, tokendsc);
      825      0963      if not getval (recbuf[uaf$w_maxacctjobs], word_length)
      826      0964      then return false;
      827      0965      status = true;
      828      0966      end;
      829      0967
      830      0968      if cli$present (sd_maxdetach)
      831      0969      then
      832      0970      begin
:001 !JRL0038 0971      uaf$gq_sysuaff[nsa_v_maxdetach] = true;
      833      0972      cli$get_value (sd_maxdetach, tokendsc);
      834      0973      if not getval (recbuf[uaf$w_maxdetach], word_length)
      835      0974      then return false;
      836      0975      status = true;
      837      0976      end;
      838      0977
      839      0978      if cli$present (sd_owner)
      840      0979      then
      841      0980      begin
:001 !JRL0038 0981      uaf$gq_sysuaff[nsa_v_owner] = true;
      842      0982      cli$get_value (sd_owner, tokendsc);
      843      0983      if not getstring (recbuf[uaf$t_owner], uaf$s_owner, counted_string)
      844      0984      then return false;
      845      0985      status = true;
      846      0986      end;
      847      0987
      848      0988      if cli$present (sd_pbytlm)
      849      0989      then
      850      0990      begin
:001 !JRL0038 0991      uaf$gq_sysuaff[nsa_v_pbytlm] = true;
      851      0992      cli$get_value (sd_pbytlm, tokendsc);
      852      0993      if not getval (recbuf[uaf$t_pbytlm], long_length)
      853      0994      then return false;
      854      0995      status = true;
      855      0996      end;
      856      0997

```

```

: 857      0998 2 if cli$present (sd_pgflquota)
: 858      0999   then
: 859      1000     begin
:001 !JRL0038 1001     uaf$gq_sysuaff[nsa_v_pgflquota] = true;
: 860      1002     cli$get_value (sd_pgflquota, tokendsc);
: 861      1003     if not getval (recbuf[uaf$l_pgflquota], 3 * byte_length)
: 862      1004     then return false;
: 863      1005     status = true;
: 864      1006     end;
: 865      1007
: 866      1008   if cli$present (sd_p_restrict)
: 867      1009   then
: 868      1010     begin
:001 !JRL0038 1011     uaf$gq_sysuaff[nsa_v_p_restrict] = true;
: 869      1012     if not getrestrict (sd_p_restrict)
: 870      1013     then return false;
: 871      1014     status = true;
: 872      1015     end;
: 873      1016
: 874      1017   if cli$present (sd_s_restrict)
: 875      1018   then
: 876      1019     begin
:001 !JRL0038 1020     uaf$gq_sysuaff[nsa_v_s_restrict] = true;
: 877      1021     secondary = true;
: 878      1022     if not getrestrict (sd_s_restrict)
: 879      1023     then return false;
: 880      1024     status = true;
: 881      1025     end;
: 882      1026
: 883      1027   if cli$present (sd_pflags)
: 884      1028   then
: 885      1029     begin
:001 !JRL0038 1030     uaf$gq_sysuaff[nsa_v_pflags] = true;
: 886      1031     primary = true;
: 887      1032     if not getpflags (sd_pflags)
: 888      1033     then return false;
: 889      1034     status = true;
: 890      1035     end;
: 891      1036
: 892      1037   if cli$present (sd_sflags)
: 893      1038   then
: 894      1039     begin
:001 !JRL0038 1040     uaf$gq_sysuaff[nsa_v_sflags] = true;
: 895      1041     if not getpflags (sd_sflags)
: 896      1042     then return false;
: 897      1043     status = true;
: 898      1044     end;
: 899      1045
: 900      1046   if cli$present (sd_prclm)
: 901      1047   then
: 902      1048     begin
:001 !JRL0038 1049     uaf$gq_sysuaff[nsa_v_prclm] = true;
: 903      1050     cli$get_value (sd_prclm, tokendsc);
: 904      1051     if not getval (recbuf[uaf$w_prcnt], word_length)
: 905      1052     then return false;
: 906      1053     status = true;
: 907      1054     end;

```

```

: 908      1055      2
: 909      1056      2
: 910      1057      2
: 911      1058      2
:001 :JRL0038 1059      2
: 912      1060      2
: 913      1061      2
: 914      1062      2
: 915      1063      2
: 916      1064      2
: 917      1065      2
: 918      1066      2
: 919      1067      2
:001 :JRL0038 1068      2
: 920      1069      2
: 921      1070      2
: 922      1071      2
: 923      1072      2
: 924      1073      2
: 925      1074      2
: 926      1075      2
: 927      1076      2
: 928      1077      2
:001 :JRL0038 1078      2
: 929      1079      2
: 930      1080      2
: 931      1081      2
: 932      1082      2
: 933      1083      2
: 934      1084      2
: 935      1085      2
: 936      1086      2
: 937      1087      2
:001 :JRL0038 1088      2
:002 :JRL0038 1089      2
:003 :JRL0038 1090      2
:004 :JRL0038 1091      2
: 940-2    1092      2
: 941      1093      2
: 942      1094      2
: 943      1095      2
: 944      1096      2
: 945      1097      2
:001 :JRL0038 1098      2
:002 :JRL0038 1099      2
:003 :JRL0038 1100      2
:004 :JRL0038 1101      2
: 948-2    1102      2
: 949      1103      2
: 950      1104      2
: 951      1105      2
: 952      1106      2
: 953      1107      2
: 954      1108      2
: 955      1109      2
:001 :JRL0038 1110      2
:002 :JRL0038 1111      2

```

```

if cli$present (sd_primedays)
then
begin
uaf$gq_sysuaff[nsa_v_primedays] = true;
if not getprimedays (?)
then return false;
status = true;
end;

if cli$present (sd_priority)
then
begin
uaf$gq_sysuaff[nsa_v_priority] = true;
cli$get_value (sd_priority, tokendsc);
if not getval (recbuf[uaf$b_pri], byte_length)
then return false;
status = true;
end;

if cli$present (sd_privileges)
then
begin
uaf$gq_sysuaff[nsa_v_privileges] = true;
if not getpriv (sd_privileges, recbuf[uaf$q_priv])
then return false;
status = true;
end;

CLI_STATUS = CLIPRESENT(%ascid'PWDEXPIRED');
if .CLI_STATUS eql CLIS_NEGATED then
begin
local TIME: long;
uaf$gq_sysuaff[nsa_v_pwdlifetime] = true;
TIME = RECBUF[UAF$Q_PWD_DATE];
.TIME = 0; (.TIME+%upval) = 0;
uaf$gq_sysuaff[nsa_v_flags] = true;
RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
STATUS = TRUE;
end
else if .CLI_STATUS then
begin
local TIME: long;
uaf$gq_sysuaff[nsa_v_pwdlifetime] = true;
TIME = RECBUF[UAF$Q_PWD_DATE];
.TIME = -1; (.TIME+%upval) = -1;
uaf$gq_sysuaff[nsa_v_flags] = true;
RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
STATUS = TRUE;
end;

cli_status = cli$present (sd_pwdlifetime) ;
if .cli_status eql cli$negated
then
begin
uaf$gq_sysuaff[nsa_v_pwdlifetime] = true;
ch$fill ( 0, uaf$s_pwd_lifetime, recbuf[uaf$q_pwd_lifetime] ) ;

```

update\_record - modify all specified fields

```

:003 !JRL0038 1112      uaf$gq_sysuaff[nsa_v_flags] = true;
:003-1 1113      RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
:003 1114      status = true;
:003 1115      end
:003 1116      else
:003 1117      if .cli_status
:003 1118      then
:003 1119      begin
:001 !JRL0038 1120      uaf$gq_sysuaff[nsa_v_pwdlifetime] = true;
:001 1121      cli$get_value (sd_pwdlifetime, tokendsc);
:001 1122      if ch$eq(.tokendsc[dsc$w_length], .tokendsc[dsc$a_pointer],
:001 1123      4, uplit(%ascii'NONE')) then
:001 1124      begin
:001 1125      ch$fill(0, uaf$s_pwd_lifetime, recbuf[uaf$q_pwd_lifetime]);
:001 1126      status = true;
:001 1127      end
:001 1128      else
:001 1129      if not (status = lib$cvt_dtime (tokendsc, recbuf[uaf$q_pwd_lifetime]))
:001 1130      then
:001 1131      begin
:001 1132      signal (.status);
:001 1133      return false;
:001 1134      end;
:001 !JRL0038 1135      uaf$gq_sysuaff[nsa_v_flags] = true;
:001 1136      RECBUF[UAF$V_PWD_EXPIRED] = FALSE;
:001 1137      status = true;
:001 1138      end;
:001 1139      if cli$present (sd_pwdminimum)
:001 1140      then
:001 1141      begin
:001 !JRL0038 1142      uaf$gq_sysuaff[nsa_v_pwdminimum] = true;
:001 1143      cli$get_value (sd_pwdminimum, tokendsc);
:001 1144      if not getval (recbuf[uaf$b_pwd_length], byte_length)
:001 1145      then return false;
:001 1146      status = true;
:001 1147      end;
:001 1148      if cli$present (sd_quepriority)
:001 1149      then
:001 1150      begin
:001 !JRL0038 1151      uaf$gq_sysuaff[nsa_v_quepriority] = true;
:001 1152      cli$get_value (sd_quepriority, tokendsc);
:001 1153      if not getval (recbuf[uaf$b_quepri], byte_length)
:001 1154      then return false;
:001 1155      status = true;
:001 1156      end;
:001 1157      if cli$present (sd_shrfillm)
:001 1158      then
:001 1159      begin
:001 !JRL0038 1160      uaf$gq_sysuaff[nsa_v_shrfillm] = true;
:001 1161      cli$get_value (sd_shrfillm, tokendsc);
:001 1162      if not getval (recbuf[uaf$w_shrfillm], word_length)
:001 1163      then return false;
:001 1164      status = true;
:001 1165      end;
:001 1166      end;
:001 1167      end;
:001 1168

```



: 1060  
: 1061  
: 1062  
1226 2  
1227 2 return .status;  
1228 1 end;

```

                                .TITLE  UAFPARSE
                                .IDENT  \V04-001\
                                .PSECT  $TPA_KEY1,NOWRT,  SHR,  PIC,1
00000 ;TPASKEYSTO
      U.2: .BLKB 0
      59 52 41 4D 49 52 50 00000 ;TPASKEYST
      U.4: .ASCII \PRIMARY\
      FF 00007 ;TPASKEYSTO
      00008 ;TPASKEYSTO
      U.11: .BLKB 0
      59 52 41 44 4E 4F 43 45 53 00008 ;TPASKEYST
      U.13: .ASCII \SECONDARY\
      FF 00011 ;TPASKEYFILL
      FF 00012 ;TPASKEYFILL
      U.21: .BYTE -1
                                .PSECT  $TPA_STATE,NOWRT,  SHR,  PIC,1
00000 ACCESS_STATES::
      .BLKB 0
      F100 00000 ;TPASTYPE
      U.5: .WORD -3840
      00000000V 00002 ;TPASACTION
      U.6: .LONG <<CHECK_PRIMARY-U.6>-4>
      00000000* 00006 ;TPASADDR
      U.7: .LONG <<PRIMARY-U.7>-4>
      00000001 0000A ;TPASMASK
      U.8: .LONG 1
      0000* 0000E ;TPASTARGET
      U.10: .WORD <<U.9-U.10>-2>
      F101 00010 ;TPASTYPE
      U.14: .WORD -3839
      00000000V 00012 ;TPASACTION
      U.15: .LONG <<CHECK_SECONDARY-U.15>-4>
      00000000* 00016 ;TPASADDR
      U.16: .LONG <<SECONDARY-U.16>-4>
      00000001 0001A ;TPASMASK
      U.17: .LONG 1
      0000* 0001E ;TPASTARGET
      U.18: .WORD <<U.9-U.18>-2>
      45F3 00020 ;TPASTYPE
      U.19: .WORD 17907
      00000000* 00022 ;TPASADDR
      U.20: .LONG <<RIGHT_BIT-U.20>-4>
      002D 00026 ;TPASTYPE
      U.22: .WORD 45
      95F7 00028 ;TPASTYPE
      U.23: .WORD -27145
      00000000V 0002A ;TPASACTION
      U.24: .LONG <<SET_RANGE-U.24>-4>

```



```

      FFFF 0002E :TPASTARGET
                U.25: .WORD -1
      85F3 00030 :TPASTYPE
                U.26: .WORD -31245
00000000V 00032 :TPASACTION
                U.27: .LONG <<SET_RANGE-U.27>-4>
                00036 :TERMINAL
                U.9: .BLKB 0
      15F7 00036 :TPASTYPE
                U.28: .WORD 5623
      FFFF 00038 :TPASTARGET
                U.29: .WORD -1
                0003A .BLKB 2
                0003C RESTRICT_STATES:
                .BLKB 0
      45F3 0003C :TPASTYPE
                U.31: .WORD 17907
00000000* 0003E :TPASADDR
                U.32: .LONG <<RIGHT_BIT-U.32>-4>
      002D 00042 :TPASTYPE
                U.33: .WORD 45
      95F7 00044 :TPASTYPE
                U.34: .WORD -27145
00000000V 00046 :TPASACTION
                U.35: .LONG <<SET_RANGE-U.35>-4>
      FFFF 0004A :TPASTARGET
                U.36: .WORD -1
      85F3 0004C :TPASTYPE
                U.37: .WORD -31245
00000000V 0004E :TPASACTION
                U.38: .LONG <<SET_RANGE-U.38>-4>
      15F7 00052 :TPASTYPE
                U.39: .WORD 5623
      FFFF 00054 :TPASTARGET
                U.40: .WORD -1
                00056 .BLKB 2
                00058 UIC_STATES:
                .BLKB 0
      55EC 00058 :TPASTYPE
                U.42: .WORD 21996
00000000* 0005A :TPASADDR
                U.43: .LONG <<CONVERTED_UIC-U.43>-4>
      FFFF 0005E :TPASTARGET
                U.44: .WORD -1
                00060 DIR_STATES:
                .BLKB 0
      19F8 00060 :TPASTYPE
                U.46: .WORD 6648
      0000* 00062 :TPASSUBEXP
                U.48: .WORD <<U.47-U.48>-2>
      0000* 00064 :TPASTARGET
                U.50: .WORD <<U.49-U.50>-2>
      19F8 00066 :TPASTYPE
                U.51: .WORD 6648
      0000* 00068 :TPASSUBEXP
                U.53: .WORD <<U.52-J.53>-2>
      0000* 0006A :TPASTARGET

```

```

005B 0006C U.54: .WORD <<U.49-U.54>-2>
;TPASTYPE
043C 0006E U.55: .WORD 91
;TPASTYPE
09F8 00070 U.56: .WORD 1084
;TPASTYPE
0000* 00072 U.57: .WORD 2552
;TPASSUBEXP
0DF8 00074 U.58: .WORD <<U.47-U.58>-2>
;TPASTYPE
0000* 00076 U.59: .WORD 3576
;TPASSUBEXP
005D 00078 U.60: .WORD <<U.52-U.60>-2>
;TPASTYPE
043E 0007A U.61: .WORD 93
;TPASTYPE
0007C U.62: .WORD 1086
;END STATE
15F7 0007C U.49: .BLKB 0
;TPASTYPE
FFFF 0007E U.63: .WORD 5623
;TPASTARGET
00080 U.64: .WORD -1
;UFD
85F4 00080 U.47: .BLKB 0
;TPASTYPE
00000000V 00082 U.65: .WORD -31244
;TPASACTION
042C 00086 U.66: .LONG <<CHECKVALUE-U.66>-4>
;TPASTYPE
95F4 00088 U.67: .WORD 1068
;TPASTYPE
00000000V 0008A U.68: .WORD -27148
;TPASACTION
FFFF 0008E U.69: .LONG <<CHECKVALUE-U.69>-4>
;TPASTARGET
00090 U.70: .WORD -1
;SUBDIR
85F1 00090 U.52: .BLKB 0
;TPASTYPE
00000000V 00092 U.71: .WORD -31247
;TPASACTION
102E 00096 U.72: .LONG <<CHECKLENGTH-U.72>-4>
;TPASTYPE
0000* 00098 U.73: .WORD 4142
;TPASTARGET
15F6 0009A U.74: .WORD <<U.52-U.74>-2>
;TPASTYPE
FFFF 0009C U.75: .WORD 5622
;TPASTARGET
U.76: .WORD -1
;PSECT $TPA_KEY0,NOWRT, SHR, PIC,1
0000 ACCESS_KEYS:
;BLKB 0
0000 ;TPASKEY0

```

```

0000* 00000 U.1: .BLKB 0
;TPASKEY
0000* 00002 U.3: .WORD <U.2-U.1>
;TPASKEY
00004 U.12: .WORD <U.11-U.1>
RESTRICT_KEYS::
;BLKB 0
00004 ;TPASKEY0
U.30: .BLKB 0
00004 UIC_KEYS::
;BLKB 0
00004 ;TPASKEY0
U.41: .BLKB 0
00004 DIR_KEYS::
;BLKB 0
00004 ;TPASKEY0
U.45: .BLKB 0

.PSECT $PLITS,NOWRT,NOEXE,2

31 6E 65 6B 6F 74 00000 P.AAB: .ASCII \token1\
00006 ;BLKB 2
0000R P.AAA: .LONG 6
00000000' 0000C .ADDRESS P.AAB
32 6E 65 6B 6F 74 00010 P.AAD: .ASCII \token2\
00016 ;BLKB 2
00000006' 00018 P.AAC: .LONG 6
00000000' 0001C .ADDRESS P.AAD
74 6F 75 6F 63 63 61 00020 P.AAF: .ASCII \account\
00027 ;BLKB 1
00000007' 00028 P.AAE: .LONG 7
00000000' 0002C .ADDRESS P.AAF
6D 6C 74 73 61 00030 P.AAH: .ASCII \astlm\
00035 ;BLKB 3
00000005' 00038 P.AAG: .LONG 5
00000000' 0003C .ADDRESS P.AAH
6D 6C 6F 69 62 00040 P.AAJ: .ASCII \biolm\
00045 ;BLKB 3
00000005' 00048 P.AAI: .LONG 5
00000000' 0004C .ADDRESS P.AAJ
6D 6C 74 79 62 00050 P.AAL: .ASCII \bytlm\
00055 ;BLKB 3
00000005' 00058 P.AAK: .LONG 5
00000000' 0005C .ADDRESS P.AAL
69 6C 63 00060 P.AAN: .ASCII \cli\
00063 ;BLKB 1
00000003' 00064 P.AAM: .LONG 3
00000000' 00068 .ADDRESS P.AAN
65 6D 69 74 75 70 63 0006C P.AAP: .ASCII \cputime\
00073 ;BLKB 1
00000007' 00074 P.AAO: .LONG 7
00000000' 00078 .ADDRESS P.AAP
65 63 69 76 65 64 0007C P.AAR: .ASCII \device\
00082 ;BLKB 2
00000006' 00084 P.AAQ: .LONG 6
00000000' 00088 .ADDRESS P.AAR
6D 6C 6F 69 64 0008C P.AAT: .ASCII \diolm\

```

									00091		.BLKB	3					
									00094	P.AAS:	.LONG	5					
									00098		.ADDRESS	P.AAT					
79	72	6F	74	63	65	72	69	64	0009C	P.AAV:	.ASCII	\directory\					
									000A5		.BLKB	3					
									000A8	P.AAU:	.LONG	9					
									000AC		.ADDRESS	P.AAV					
				6D	6C	71	6E	65	000B0	P.AAX:	.ASCII	\enqlm\					
									000B5		.BLKB	3					
									000B8	P.AAW:	.LONG	5					
									000BC		.ADDRESS	P.AAX					
				6D	6C	6C	69	66	000C0	P.AAZ:	.ASCII	\fillm\					
									000C5		.BLKB	3					
									000C8	P.AAY:	.LONG	5					
									000CC		.ADDRESS	P.AAZ					
				73	67	61	6C	66	000D0	P.ABB:	.ASCII	\flags\					
									000D5		.BLKB	3					
									000D8	P.ABA:	.LONG	5					
									000DC		.ADDRESS	P.ABB					
				64	6D	63	69	67	5C	000E0	P.ABD:	.ASCII	\lgicmd\				
									000E6		.BLKB	2					
									000E8	P.ABC:	.LONG	6					
									000EC		.ADDRESS	P.ABD					
				73	62	6F	6A	78	61	6D	000F0	P.ABF:	.ASCII	\maxjobs\			
									000F7		.BLKB	1					
									000F8	P.ABE:	.LONG	7					
									000FC		.ADDRESS	P.ABF					
						72	65	6E	77	6F	00100	P.ABH:	.ASCII	\owner\			
									00105		.BLKB	3					
									00108	P.ABG:	.LONG	5					
									0010C		.ADDRESS	P.ABH					
				64	72	6F	77	73	73	61	70	00110	P.ABJ:	.ASCII	\password\		
									00118	P.ABI:	.LONG	8					
									0011C		.ADDRESS	P.ABJ					
						6D	6C	74	79	62	70	00120	P.ABL:	.ASCII	\pbytlm\		
									00126		.BLKB	2					
									00128	P.ABK:	.LONG	6					
									0012C		.ADDRESS	P.ABL					
						73	67	61	6C	66	70	00130	P.ABN:	.ASCII	\pflags\		
									00136		.BLKB	2					
									00138	P.ABM:	.LONG	6					
									0013C		.ADDRESS	P.ABN					
				61	74	6F	75	71	6C	66	67	70	00140	P.ABP:	.ASCII	\pgflquota\	
									00149		.BLKB	3					
									0014C	P.ABO:	.LONG	9					
									00150		.ADDRESS	P.ABP					
				74	63	69	72	74	73	65	72	5F	70	00154	P.ABR:	.ASCII	\p_restrict\
									0015E		.BLKB	2					
									00160	P.ABQ:	.LONG	10					
									00164		.ADDRESS	P.ABR					
						6D	6C	63	72	70			00168	P.ABT:	.ASCII	\prclm\	
									0016D		.BLKB	3					
									00170	P.ABS:	.LONG	5					
									00174		.ADDRESS	P.ABT					
				79	74	69	72	6F	69	72	70		00178	P.ABV:	.ASCII	\priority\	
									00180	P.ABU:	.LONG	8					
									00184		.ADDRESS	P.ABV					

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update\_record - modify all specified fields

C 5  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.EUGSRC]UAF PARSE.B32;1

73	65	67	65	6C	69	76	69	72	70	00188	P.ABX:	.ASCII	\privileges\			
										00192		.BLKB	2			
									0000000A	00194	P.ABW:	.LONG	10			
									00000000	00198		.ADDRESS	P.ABX			
			73	67	61	6C	66	73		0019C	P.ABZ:	.ASCII	\sflags\			
										001A2		.BLKB	2			
									00000006	001A4	P.ABY:	.LONG	6			
									00000000	001A8		.ADDRESS	P.ABZ			
74	63	69	72	74	73	65	72	5F	73	001AC	P.ACB:	.ASCII	\s_restrict\			
										001B6		.BLKB	2			
									0000000A	001B8	P.ACA:	.LONG	10			
									00000000	001BC		.ADDRESS	P.ACB			
			6D	6C	6C	69	66	72	68	73	001C0	P.ACD:	.ASCII	\shrfillm\		
										00000008	001C8	P.ACC:	.LONG	8		
										00000000	001CC		.ADDRESS	P.ACD		
						6D	6C	65	71	74	001D0	P.ACF:	.ASCII	\tqelm\		
										001D5		.BLKB	3			
									00000005	001D8	P.ACE:	.LONG	5			
									00000000	001DC		.ADDRESS	P.ACF			
								63	69	75	001E0	P.ACH:	.ASCII	\uic\		
										001E3		.BLKB	1			
									00000003	001E4	P.ACG:	.LONG	3			
									00000000	001E8		.ADDRESS	P.ACH			
			74	6C	75	61	66	65	64	73	77	001EC	P.ACJ:	.ASCII	\wsdefault\	
										001F5		.BLKB	3			
									00000009	001F8	P.ACI:	.LONG	9			
									00000000	001FC		.ADDRESS	P.ACJ			
			74	6E	65	74	78	65	73	77	00200	P.ACL:	.ASCII	\wsextent\		
										00000008	00208	P.ACK:	.LONG	8		
										00000000	0020C		.ADDRESS	P.ACL		
						61	74	6F	75	71	73	77	00210	P.ACN:	.ASCII	\wsquota\
										00217		.BLKB	1			
									00000007	00218	P.ACM:	.LONG	7			
									00000000	0021C		.ADDRESS	P.ACN			
						79	61	6C	70	73	69	64	00220	P.ACP:	.ASCII	\display\
										00227		.BLKB	1			
									00000007	00228	P.ACO:	.LONG	7			
									00000000	0022C		.ADDRESS	P.ACP			
			73	79	61	64	65	6D	69	72	70	00230	P.ACR:	.ASCII	\primedays\	
										00239		.BLKB	3			
									00000009	0023C	P.ACQ:	.LONG	9			
									00000000	00240		.ADDRESS	P.ACR			
73	62	6F	6A	74	65	63	61	78	61	6D	00244	P.ACT:	.ASCII	\maxacctjobs\		
										0024F		.BLKB	1			
									00000008	00250	P.ACS:	.LONG	11			
									00000000	00254		.ADDRESS	P.ACT			
			68	63	61	74	65	64	78	61	6D	00258	P.ACV:	.ASCII	\maxdetach\	
										00261		.BLKB	3			
									00000009	00264	P.ACU:	.LONG	9			
									00000000	00268		.ADDRESS	P.ACV			
			73	65	6C	62	61	74	69	6C	63	0026C	P.ACX:	.ASCII	\clitables\	
										00275		.BLKB	3			
									00000009	00278	P.ACW:	.LONG	9			
									00000000	0027C		.ADDRESS	P.ACX			
						61	74	6F	75	71	74	6A	00280	P.ACZ:	.ASCII	\jtquota\
										00287		.BLKB	1			
									00000007	00288	P.ACY:	.LONG	7			

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update\_record - modify all specified fields

```

00 00 44 44 45 52 49 50 58 45 5F 44 57 50 0B 003B4 P.AEG: .ASCII <6>\GENPWD\<0>
00 00 44 45 52 49 50 58 45 5F 32 44 57 50 0C 003BC P.AEH: .ASCII <11>\PWD_EXPIRED\
00 00 44 45 52 49 50 58 45 5F 32 44 57 50 0C 003C8 P.AEI: .ASCII <12>\PWD2_EXPIRED\<0><0><0>
00 00 44 45 52 49 50 58 45 5F 32 44 57 50 0C 003D7
00 00 54 00 00 54 52 4F 50 45 52 53 49 44 09 003D8 P.AEJ: .ASCII <5>\AUDIT\<0><0>
00 00 54 43 45 4E 4E 4F 43 45 52 53 49 44 0C 003E0 P.AEK: .ASCII <9>\DISREPORT\<0><0>
00 00 54 43 45 4E 4E 4F 43 45 52 53 49 44 0C 003EC P.AEL: .ASCII <12>\DISRECONNECT\<0><0><0>
00 00 50 55 4C 41 49 44 53 49 44 09 003FB
00 00 4B 52 4F 57 54 45 4E 53 49 44 0A 003FC P.AEM: .ASCII <9>\DISDIALUP\<0><0>
00 00 50 55 4C 41 49 44 53 49 44 0A 00408 P.AEN: .ASCII <10>\DISNETWORK\<0>
00 00 59 41 44 44 4E 4F 4D 06 00414 P.AEO: .ASCII <6>\MONDAY\<0>
00 00 59 41 44 53 45 4E 44 55 54 07 0041C P.AEP: .ASCII <7>\TUESDAY\
00 00 00 59 41 44 53 52 55 48 54 08 00424 P.AEQ: .ASCII <9>\WEDNESDAY\<0><0>
00 00 00 59 41 44 53 52 55 48 54 08 00430 P.AER: .ASCII <8>\THURSDAY\<0><0><0>
00 00 00 59 41 44 52 55 54 41 53 08 0043C P.AES: .ASCII <6>\FRIDAY\<0>
00 00 00 59 41 44 52 55 54 41 53 08 00444 P.AET: .ASCII <8>\SATURDAY\<0><0><0>
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00450 P.AEU: .ASCII <F>\SUNDAY\<0>
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00458 P.AEV: .ASCII \C123456789ABCDEF\
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00467
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00468 P.AEX: .ASCII \NO\
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 0046A .BLKB 2
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00000002 0046C P.AEW: .LONG 2
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00000000' 00470 .ADDRESS P.AEX
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00 00 00 45 4E 45 47 00474 P.AEZ: .ASCII \GENERATE_PASSWORD\<0><0><0>
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00 00 00 44 52 00483
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 010E0011 00488 P.AEY: .LONG 17694737
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00000000' 0048C .ADDRESS P.AEZ
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 4E 45 47 00490 P.AFB: .ASCII \GENERATE_PASSWORD\<0><0><0>
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00 00 00 44 52 0049F
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 010E0011 004A4 P.AFA: .LONG 17694737
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00000000' 004A8 .ADDRESS P.AFB
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 4E 45 47 004AC P.AFD: .ASCII \GENERATE_PASSWORD\<0><0><0>
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00 00 00 44 52 004BB
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 010E0011 004C0 P.AFC: .LONG 17694737
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00000000' 004C4 .ADDRESS P.AFD
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00 00 44 45 52 49 50 58 45 44 57 50 004CB P.AFF: .ASCII \PWDEXPIRED\<0><0>
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 010E000A 004D4 P.AFE: .LONG 17694730
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 00000000' 004D8 .ADDRESS P.AFF
45 44 43 42 41 39 38 37 36 35 34 33 32 31 30 45 4E 4F 4E 004DC P.AFG: .ASCII \NONE\

```

.PSECT \$OWNS,NOEXE,2

```

0000001C 00000 FLAG_TABLE:
00000000' 00004 .LONG 28
00000000' 00008 .ADDRESS P.ADY
00000000' 0000C .LONG 0
00000001' 00010 .ADDRESS P ADZ
00000000' 00014 .LONG 1
00000002' 00018 .ADDRESS P.AEA
00000000' 0001C .LONG 2
00000003' 00020 .ADDRESS P.AEB
00000000' 00024 .LONG 3
00000004' 00028 .ADDRESS P.AEC
00000000' 0002C .LONG 4
00000005' 00030 .ADDRESS P.AED
00000000' 00034 .LONG 5
00000000' 00034 .ADDRESS P.AEE

```

```

00000006 00038 .LONG 6
00000000 0003C .ADDRESS P.AEF
00000007 00040 .LONG 7
00000000 00044 .ADDRESS P.AEG
00000008 00048 .LONG 8
00000000 0004C .ADDRESS P.AEH
00000009 00050 .LONG 9
00000000 00054 .ADDRESS P.AEI
0000000A 00058 .LONG 10
00000000 0005C .ADDRESS P.AEJ
0000000B 00060 .LONG 11
00000000 00064 .ADDRESS P.AEK
0000000C 00068 .LONG 12
00000000 0006C .ADDRESS P.AEL
0000000D 00070 .LONG 13
00000004 00074 OPFLAG_TABLE:
          .LONG 4
00000000 00078 .ADDRESS P.AEM
00000001 0007C .LONG 1
00000000 00080 .ADDRESS P.AEN
00000002 00084 .LONG 2
0000000E 00088 PDFLAG_TABLE:
          .LONG 14
00000000 0008C .ADDRESS P.AEO
00000000 00090 .LONG 0
00000000 00094 .ADDRESS P.AEP
00000001 00098 .LONG 1
00000000 0009C .ADDRESS P.AEQ
00000002 000A0 .LONG 2
00000000 000A4 .ADDRESS P.AER
00000003 000A8 .LONG 3
00000000 000AC .ADDRESS P.AES
00000004 000B0 .LONG 4
00000000 000B4 .ADDRESS P.AET
00000005 000B8 .LONG 5
00000000 000BC .ADDRESS P.AEU
00000006 000C0 .LONG 6
          000C4 STATUS: .BLKB 4
          000C8 CLI_STATUS:
          .BLKB 4
00000002 00000008 000CC TPARSE_BLOCK:
          .LONG 8 2
          000D4 .BLKB 28
          000F0 CONVERTED_UIC:
          .BLKB 4
          000F4 ADDRESS: .BLKB 4
          000F8 LEFT_BIT:
          .BLKB 4
          000FC RIGHT_BIT:
          .BLKB 4
          00100 PRIMARY_ACCESS:
          .BLKB 4
          00104 SECONDARY_ACCESS:
          .BLKB 4
00000000 00108 NO_FLAG: .LONG 0
00000000 0010C PRIMARY: .LONG 0
00000000 00110 SECONDARY:

```

.....



.LONG 0

```

SD_TOKEN1= P.AAA
SD_TOKEN2= P.AAC
SD_ACCOUNT= P.AAE
SD_ASTLM= P.AAG
SD_BIOLM= P.AAJ
SD_BYTLM= P.AAK
SD_CLI= P.AAM
SD_CPU:IME= P.AAO
SD_DEVICE= P.AAQ
SD_DIOLM= P.AAS
SD_DIRECTORY= P.AAU
SD_ENQLM= P.AAW
SD_FILLM= P.AAY
SD_FLAGS= P.ABA
SD_LGICMD= P.ABC
SD_MAXJOBS= P.ABE
SD_OWNER= P.ABJ
SD_PASSWORD= P.ABI
SD_PBYTLM= P.ABK
SD_PFLAGS= P.ABM
SD_PGFLQUOTA= P.ABO
SD_P RESTRICT= P.ABQ
SD_PRCLM= P.ABS
SD_PRIORITY= P.ABU
SD_PRIVILEGES= P.ABW
SD_SFLAGS= P.ABY
SD_S RESTRICT= P.ACA
SD_SRRFILLM= P.ACC
SD_TQELM= P.ACE
SD_UIC= P.ACG
SD_WSDEFAULT= P.ACI
SD_WSEXTENT= P.ACK
SD_WSQUOTA= P.ACM
SD_DISPLAY= P.ACO
SD_PRIMEDAYS= P.ACQ
SD_MAXACCTJOBS= P.ACS
SD_MAXDETACH= P.ACU
SD_CLITABLES= P.ACW
SD_JTQUOTA= P.ACY
SD_ACCESS= P.ADA
SD_BATCH= P.ADC
SD_DEFPRIVILEGES= P.ADE
SD_DIALUP= P.ADG
SD_EXPIRATION= P.ADI
SD_INTERACTIVE= P.ADK
SD_LOCAL= P.ADM
SD_NETWORK= P.ADO
SD_PWDLIFETIME= P.ADQ
SD_PWDMINIMUM= P.ADS
SD_QUEPRIORITY= P.ADU
SD_REMOTE= P.ADW
NUMBERS= P.AEV
NO_DSC= P.AEW
.EXTRN GENERATE PASSWORDS
.EXTRN SYSS$ASSIGN, SYSS$DASSGN

```





update\_record - modify all specified fields

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

00000000V	00	0190	C6	9F	0013D	PUSHAB	SD_BATCH		
	5D		03	FB	00141	CALLS	#3, GETACCESS		
	67		50	E9	00148	BLBC	RO, 19\$		
			01	D0	0014B	MOVL	#1, STATUS		0715
	69	01B8	C6	9F	0014E	PUSHAB	SD_DIALUP		0718
	A7		01	FB	00152	CALLS	#1, CLIPRESENT		
04	09		50	D0	00155	MOVL	RO, CLI_STATUS		
00000000G	8F		50	E8	00159	BLBS	RO, 15\$		0719
			50	D1	0015C	C MPL	RO, #CLIS_NEGATED		0720
	01	A8	19	12	00163	BNEQ	17\$		
			08	88	00165	BISB2	#8, UAF\$GQ_SYSUAFF+1		0723
			50	DD	00169	PUSHL	RO		0724
			08	DD	0016B	PUSHL	#8		
00000000V	00	01B8	C6	9F	0016D	PUSHAB	SD_DIALUP		
	5D		03	FB	00171	CALLS	#3, GETACCESS		
	67		50	E9	00178	BLBC	RO, 22\$		
			01	D0	0017B	MOVL	#1, STATUS		0726
	69	0200	C6	9F	0017E	PUSHAB	SD_NETWORK		0729
	A7		01	FB	00182	CALLS	#1, CLIPRESENT		
04	09		50	D0	00185	MOVL	RO, CLI_STATUS		
00000000G	8F		50	E8	00189	BLBS	RO, 18\$		0730
			50	D1	0018C	C MPL	RO, #CLIS_NEGATED		0731
	03	A8	19	12	00193	BNEQ	20\$		
			02	88	00195	BISB2	#2, UAF\$GQ_SYSUAFF+3		0734
			50	DD	00199	PUSHL	RO		0735
			01	DD	0019B	PUSHL	#1		
00000000V	00	0200	C6	9F	0019D	PUSHAB	SD_NETWORK		
	5E		03	FB	001A1	CALLS	#3, GETACCESS		
	67		50	E9	001A8	BLBC	RO, 25\$		
			01	D0	001AB	MOVL	#1, STATUS		0737
	69	01F0	C6	9F	001AE	PUSHAB	SD_LOCAL		0740
	A7		01	FB	001B2	CALLS	#1, CLIPRESENT		
04	09		50	D0	001B5	MOVL	RO, CLI_STATUS		
00000000G	8F		50	E8	001B9	BLBS	RO, 21\$		0741
			50	D1	001BC	C MPL	RO, #CLIS_NEGATED		0742
	02	A8	19	12	001C3	BNEQ	23\$		
			20	88	001C5	BISB2	#32, UAF\$GQ_SYSUAFF+2		0745
			50	DD	001C9	PUSHL	RO		0746
			04	DD	001CB	PUSHL	#4		
00000000V	00	01F0	C6	9F	001CD	PUSHAB	SD_LOCAL		
	5D		03	FB	001D1	CALLS	#3, GETACCESS		
	67		50	E9	001D8	BLBC	RO, 27\$		
			01	D0	001DB	MOVL	#1, STATUS		0748
	69	024C	C6	9F	001DE	PUSHAB	SD_REMOTE		0751
	A7		01	FB	001E2	CALLS	#1, CLIPRESENT		
04	09		50	D0	001E5	MOVL	RO, CLI_STATUS		
00000000G	8F		50	E8	001E9	BLBS	RO, 24\$		0752
			50	D1	001EC	C MPL	RO, #CLIS_NEGATED		0753
	04	A8	1A	12	001F3	BNEQ	26\$		
		80	8F	88	001F5	BISB2	#128, UAF\$GQ_SYSUAFF+4		0756
			50	DD	001FA	PUSHL	RO		0757
			10	DD	001FC	PUSHL	#16		
00000000V	00	024C	C6	9F	001FE	PUSHAB	SD_REMOTE		
	58		03	FB	00202	CALLS	#3, GETACCESS		
	67		50	E9	00209	BLBC	RO, 29\$		
			01	D0	0020C	MOVL	#1, STATUS		0759
		FF10	C6	9F	0020F	PUSHAB	SD_ACCOUNT		0762

69	01	FB	00213	CALLS	#1, CLISPRESENT	
25	50	E9	00216	BLBC	R0, 28\$	
68	02	88	00219	BISB2	#2, UAF\$GQ_SYSUAFF	0765
	5B	DD	0021C	PUSHL	R11	0766
00000000G	00	FF10	C6	9F	0021E	
	02	FB	00222	PUSHAB	SD_ACCOUNT	
	02	DD	00229	CALLS	#2, CLISGET_VALUE	
	08	DD	0022B	PUSHL	#8	0768
00000000V	00	FE60	CA	9F	0022D	
	03	FB	00231	PUSHAB	RECBUF+52	
55	50	E9	00238	CALLS	#3, GETSTRING	
67	01	DD	0023B	BLBC	R0, 31\$	
	FF20	C6	9F	0023E	28\$:	MOVL #1, STATUS
	01	FB	00242	PUSHAB	SD_ASTLM	0770
69	50	E9	00245	CALLS	#1, CLISPRESENT	0773
22	04	88	00248	BLBC	R0, 30\$	
68	5B	DD	0024B	BISB2	#4, UAF\$GQ_SYSUAFF	0776
	FF20	C6	9F	0024D	PUSHL	R11
00000000G	00		02	FB	00251	PUSHAB SD_ASTLM
			10	DD	00258	CALLS #2, CLISGET_VALUE
		40	AA	9F	0025A	PUSHL #16
00000000V	00		02	FB	0025D	PUSHAB RECBUF+532
55	50	E9	00264	CALLS	#2, GETVAL	
67	01	DD	00267	BLBC	R0, 33\$	
	FF30	C6	9F	0026A	30\$:	MOVL #1, STATUS
	01	FB	0026E	PUSHAB	SD_BIOLM	0780
69	50	E9	00271	CALLS	#1, CLISPRESENT	0783
22	10	88	00274	BLBC	R0, 32\$	
68	5B	DD	00277	BISB2	#16, UAF\$GQ_SYSUAFF	0786
	FF30	C6	9F	00279	PUSHL	R11
00000000G	00		02	FB	0027D	PUSHAB SD_BIOLM
			10	DD	00284	CALLS #2, CLISGET_VALUE
		3A	AA	9F	00286	PUSHL #16
00000000V	00		02	FB	00289	PUSHAB RECBUF+526
59	50	E9	00290	CALLS	#2, GETVAL	
67	01	DD	00293	BLBC	R0, 35\$	
	FF40	C6	9F	00296	31\$:	MOVL #1, STATUS
	01	FB	0029A	PUSHAB	SD_BYTLM	0790
69	50	E9	0029D	CALLS	#1, CLISPRESENT	0793
22	20	88	002A0	BLBC	R0, 34\$	
68	5B	DD	002A3	BISB2	#32, UAF\$GQ_SYSUAFF	0796
	FF40	C6	9F	002A5	PUSHL	R11
00000000G	00		02	FB	002A9	PUSHAB SD_BYTLM
			20	DD	002B0	CALLS #2, CLISGET_VALUE
		5C	AA	9F	002B2	PUSHL #32
00000000V	00		02	FB	002B5	PUSHAB RECBUF+560
77	50	E9	002BC	CALLS	#2, GETVAL	
67	01	DD	002BF	BLBC	R0, 38\$	
	FF4C	C6	9F	002C2	33\$:	MOVL #1, STATUS
	01	FB	002C6	PUSHAB	SD_CLI	0800
69	50	E9	002C9	CALLS	#1, CLISPRESENT	0803
40	8F	88	002CC	BLBC	R0, 37\$	
68	5B	DD	002D0	BISB2	#64, UAF\$GQ_SYSUAFF	0806
	FF4C	C6	9F	002D2	PUSHL	R11
00000000G	00		02	FB	002D6	PUSHAB SD_CLI
			01	DD	002D0	CALLS #2, CLISGET_VALUE
			20	DD	002DF	PUSHL #1
						PUSHL #32

			FF40	CA 9F 002E1	PUSHAB	RECBUF+276		
	00000000V	00		03 FB 002E5	CALLS	#3, GETSTRING		
		76		50 E9 002EC	BLBC	RO, 40\$		
				50 D4 002EF	CLRL	RO		0811
			FF60	CA 95 002F1	TSTB	RECBUF+308		
				02 13 002F5	BEQL	36\$		
				50 D6 002F7	INCL	RO		
0000C000G	00	01		50 F0 002F9	INSV	RO, #5, #1, UAF\$GL_CTLMSK		
	00000000G	00		08 88 00302	BISB2	#8, UAF\$GL_CTLMSK		0812
		67		01 D0 00309	MOVL	#1, STATUS		0813
			0160	C6 9F 0030C	PUSHAB	SD_CLITABLES		0816
		69		01 FB 00310	CALLS	#1, CLISPRESENT		
		20		50 E9 00313	BLBC	RO, 39\$		
		58	80	8F 88 00316	BISB2	#128, UAF\$GQ_SYSUAFF		0819
				5B DD 0031A	PUSHL	R11		0820
			0160	C6 9F 0031C	PUSHAB	SD_CLITABLES		
	00000000G	00		02 FB 00320	CALLS	#2, CLISGET_VALUE		
				01 DD 00327	PUSHL	#1		0821
				20 DD 00329	PUSHL	#32		
			FF60	CA 9F 0032B	PUSHAB	RECBUF+308		
	00000000V	00		03 FB 0032F	CALLS	#3, GETSTRING		
		76		50 E9 00336	BLBC	RO, 43\$		
	00000000G	00		10 88 00339	BISB2	#16, UAF\$GL_CTLMSK		0823
		67		01 D0 00340	MOVL	#1, STATUS		0824
			FF5C	C6 9F 00343	PUSHAB	SD_CPUTIME		0827
		69		01 FB 00347	CALLS	#1, CLISPRESENT		
		1E		50 E9 0034A	BLBC	RO, 41\$		
	01	AB		01 88 0034D	BISB2	#1, UAF\$GQ_SYSUAFF+1		0830
				5B DD 00351	PUSHL	R11		0831
			FF5C	C6 9F 00353	PUSHAB	SD_CPUTIME		
	00000000G	00		02 FB 00357	CALLS	#2, CLISGET_VALUE		
	00000000V	00		00 FB 0035E	CALLS	#0, GETCPUTM		0832
		74		50 E9 00365	BLBC	RO, 45\$		
		67		01 D0 00368	MOVL	#1, STATUS		0834
			01AB	C6 9F 0036B	PUSHAB	SD_DEFPRIVILEGES		0837
		69		01 FB 0036F	CALLS	#1, CLISPRESENT		
		18		50 E9 00372	BLBC	RO, 42\$		
	01	AB		02 88 00375	BISB2	#2, UAF\$GQ_SYSUAFF+1		0840
			D0	AA 9F 00379	PUSHAB	RECBUF+420		0841
			01AB	C6 9F 0037C	PUSHAB	SD_DEFPRIVILEGES		
	00000000V	00		02 FB 00380	CALLS	#2, GETPRIV		
		78		50 E9 00387	BLBC	RO, 47\$		
		67		01 D0 0038A	MOVL	#1, STATUS		0843
			FF6C	C6 9F 0038D	PUSHAB	SD_DEVICE		0846
		69		01 FB 00391	CALLS	#1, CLISPRESENT		
		1E		50 E9 00394	BLBC	RO, 44\$		
	01	AB		04 88 00397	BISB2	#4, UAF\$GQ_SYSUAFF+1		0849
				5B DD 0039B	PUSHL	R11		0850
			FF6C	C6 9F 0039D	PUSHAB	SD_DEVICE		
	00000000G	00		02 FB 003A1	CALLS	#2, CLISGET_VALUE		
	00000000V	00		00 FB 003A8	CALLS	#0, GETDEVICE		0851
		7C		50 E9 003AF	BLBC	RO, 49\$		
		67		01 D0 003B2	MOVL	#1, STATUS		0853
			FF7C	C6 9F 003B5	PUSHAB	SD_DIOLM		0856
		69		01 FB 003B9	CALLS	#1, CLISPRESENT		
		23		50 E9 003BC	BLBC	RO, 46\$		
	01	AB		10 88 003BF	BISB2	#16, UAF\$GQ_SYSUAFF+1		0859

			5B DD 003C3	PUSHL R11	0860
		FF7C	C6 9F 003C5	PUSHAB SD_DIOLM	
00000000G	00		02 FB 003C9	CALLS #2, CLISGET_VALUE	
			10 DD 003D0	PUSHL #16	0861
00000000V	00	3C	AA 9F 003D2	PUSHAB RECBUF+528	
	4F		02 FB 003D5	CALLS #2, GETVAL	
	67		50 E9 003DC 45\$:	BLBC R0, 49\$	
			01 DO 003DF	MOVL #1, STATUS	0863
	69	90	A6 9F 003E2 46\$:	PUSHAB SD_DIRECTORY	0866
	1D		01 FB 003E5	CALLS #1, CLISPRESENT	
01	A8		50 E9 003E8	BLBC R0, 48\$	
			20 88 003EB	BISB2 #32, UAF\$GQ_SYSUAFF+1	0869
			5B DD 003EF	PUSHL R11	0870
00000000G	00	90	A6 9F 003F1	PUSHAB SD_DIRECTORY	
00000000V	00		02 FB 003F4	CALLS #2, CLISGET_VALUE	
	29		00 FB 003FB	CALLS #0, GETDIRECTORY	0871
	67		50 E9 00402 47\$:	BLBC R0, 49\$	
			01 DO 00405	MOVL #1, STATUS	0873
	69	A0	A6 9F 00408 48\$:	PUSHAB SD_ENQLM	0876
	23		01 FB 0040B	CALLS #1, CLISPRESENT	
01	A8		50 E9 0040E	BLBC R0, 5'	
		40	8F 88 00411	BISB2 #64, UAF\$GQ_SYSUAFF+1	0879
			5B DD 00416	PUSHL R11	0880
00000000G	00	A0	A6 9F 00418	PUSHAB SD_ENQLM	
			02 FB 0041B	CALLS #2, CLISGET_VALUE	
			10 DD 00422	PUSHL #16	0881
00000000V	00	42	AA 9F 00424	PUSHAB RECBUF+534	
	77		02 FB 00427	CALLS #2, GETVAL	
	67		50 E9 0042E 49\$:	BLBC R0, 54\$	
			01 DO 00431	MOVL #1, STATUS	0883
	69	01CC	C6 9F 00434 50\$:	PUSHAB SD_EXPIRATION	0886
	A7		01 FB 00438	CALLS #1, CLISPRESENT	
00000000G	8F		50 DO 0043B	MOVL R0, CLI_STATUS	
			50 D1 0043F	CMP R0, #CLIS_NEGATED	0887
			0E 12 00446	BNEQ 51\$	
08	00	01	A8 80 8F 88 00448	BISB2 #128, UAF\$GQ_SYSUAFF+1	0890
			00 2C 0044D	MOVCS #0, (SP), #0, #8, RECBUF+364	0891
			98 AA 00452		
			2A 11 00454	BRB 52\$	0892
	2A		50 E9 00456 51\$:	BLBC R0, 53\$	0895
01	A8	80	8F 88 00459	BISB2 #128, UAF\$GQ_SYSUAFF+1	0898
			5B DD 0045E	PUSHL R11	0899
00000000G	00	01CC	C6 9F 00460	PUSHAB SD_EXPIRATION	
			02 FB 00464	CALLS #2, CLISGET_VALUE	
		98	AA 9F 0046B	PUSHAB RECBUF+364	0900
			5B DD 0046E	PUSHL R11	
00000000G	00		02 FB 00470	CALLS #2, LIB\$CVT_TIME	
	67		50 DO 00477	MOVL R0, STATUS	
	03		50 E8 0047A	BLBS R0, 52\$	
			0364 31 0047D	BRW 92\$	
	67		01 DO 00480 52\$:	MOVL #1, STATUS	0906
		B0	A6 9F 00483 53\$:	PUSHAB SD_FILLM	0909
	69		01 FB 00486	CALLS #1, CLISPRESENT	
	22		50 E9 00489	BLBC R0, 55\$	
02	A8		01 88 0048C	BISB2 #1, UAF\$GQ_SYSUAFF+2	0912
			5B DD 00490	PUSHL R11	0913
		B0	A6 9F 00492	PUSHAB SD_FILLM	

update\_record - modify all specified fields

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[UAF.BUGSRC]UAF PARSE.B32;1

00000000G	00		02	FB	00495	CALLS	#2, CLISGET_VALUE	
			10	DD	0049C	PUSHL	#16	0914
		44	AA	9F	0049E	PUSHAB	RECBUF+536	
00000000V	00		02	FB	004A1	CALLS	#2, GETVAL	
	74		50	E9	004AB	BLBC	RO, 58\$	
	67		01	DD	004AB	MOVL	#1, STATUS	0716
		C0	A6	9F	004AE	PUSHAB	SD_FLAGS	0919
	69		01	FB	004B1	CALLS	#1, CLISPRESENT	
	11		50	E9	004B4	BLBC	RO, 56\$	
02	A8		C2	88	004B7	BISB2	#2, UAF\$GQ_SYSUAFF+2	0922
00000000V	00		00	FB	004BB	CALLS	#0, GETFLAGS	0923
	5A		50	E9	004C2	BLBC	RO, 58\$	
	67		01	DD	004C5	MOVL	#1, STATUS	0925
		0170	C6	9F	004C8	PUSHAB	SD_JTQUOTA	0928
	69		01	FB	004CC	CALLS	#1, CLISPRESENT	
	23		50	E9	004CF	BLBC	RO, 57\$	
02	A8		08	88	004D2	BISB2	#8, UAF\$GQ_SYSUAFF+2	0931
			5B	DD	004D6	PUSHL	R11	0932
		0170	C6	9F	004D8	PUSHAB	SD_JTQUOTA	
00000000G	00		02	FB	004DC	CALLS	#2, CLISGET_VALUE	
			20	DD	004E3	PUSHL	#32	0933
		64	AA	9F	004E5	PUSHAB	RECBUF+568	
00000000V	00		02	FB	004E8	CALLS	#2, GETVAL	
	59		50	E9	004EF	BLBC	RO, 60\$	
	67		01	DD	004F2	MOVL	#1, STATUS	0935
		D0	A6	9F	004F5	PUSHAB	SD_LGICMD	0938
	69		01	FB	004FB	CALLS	#1, CLISPRESENT	
	27		50	E9	004FB	BLBC	RO, 59\$	
02	A8		10	88	004FE	BISB2	#16, UAF\$GQ_SYSUAFF+2	0941
			5B	DD	00502	PUSHL	R11	0942
		D0	A6	9F	00504	PUSHAB	SD_LGICMD	
00000000G	00		02	FB	00507	CALLS	#2, CLISGET_VALUE	
	7E		01	DD	0050E	PUSHL	#1	0943
		40	8F	9A	00510	MOVZBL	#64, -(SP)	
		FF00	CA	9F	00514	PUSHAB	RECBUF+212	
00000000V	00		03	FB	00518	CALLS	#3, GETSTRING	
	56		50	E9	0051F	BLBC	RO, 62\$	
	67		01	DD	00522	MOVL	#1, STATUS	0945
		E0	A6	9F	00525	PUSHAB	SD_MAXJOBS	0948
	69		01	FB	00528	CALLS	#1, CLISPRESENT	
	23		50	E9	0052B	BLBC	RO, 61\$	
02	A8		80	8F	0052E	BISB2	#128, UAF\$GQ_SYSUAFF+2	0951
			5B	DD	00533	PUSHL	R11	0952
		E0	A6	9F	00535	PUSHAB	SD_MAXJOBS	
00000000G	00		02	FB	00538	CALLS	#2, CLISGET_VALUE	
			10	DD	0053F	PUSHL	#16	0953
		32	AA	9F	00541	PUSHAB	RECBUF+518	
00000000V	00		02	FB	00544	CALLS	#2, GETVAL	
	58		50	E9	0054B	BLBC	RO, 64\$	
	67		01	DD	0054E	MOVL	#1, STATUS	0955
		0138	C6	9F	00551	PUSHAB	SD_MAXACCTJOBS	0958
	69		01	FB	00555	CALLS	#1, CLISPRESENT	
	23		50	E9	00558	BLBC	RO, 63\$	
03	A8		01	88	0055B	BISB2	#1, UAF\$GQ_SYSUAFF+3	0961
			5B	DD	0055F	PUSHL	R11	0962
		0138	C6	9F	00561	PUSHAB	SD_MAXACCTJOBS	
00000000G	00		02	FB	00565	CALLS	#2, CLISGET_VALUE	





03	A8	40	8F	88	0063A	BISB2	#64, UAF\$GQ_SYSUAFF+3	1011
00000000V	00	48	A6	9F	0063F	PUSHAB	SD_P RESTRICT	1012
	60		01	FB	00642	CALLS	#1, GETRESTRICT	
	67		50	E9	00649	BLBC	RO, 76\$	
			01	D0	0064C	MOVL	#1, STATUS	1014
		00A0	C6	9F	0064F	PUSHAB	SD_S RESTRICT	1017
	69		01	FB	00653	CALLS	#1, CLISPRESENT	
	19		50	E9	00656	BLBC	RO, 74\$	
05	A8		02	88	00659	BISB2	#2, UAF\$GQ_SYSUAFF+5	1020
4C	A7		01	D0	0065D	MOVL	#1, SECONDARY	1021
00000000V	00	00A0	C6	9F	00661	PUSHAB	SD_S RESTRICT	1022
	68		01	FB	00665	CALLS	#1, GETRESTRICT	
	67		50	E9	0066C	BLBC	RO, 78\$	
			01	D0	0066F	MOVL	#1, STATUS	1024
	69	20	A6	9F	00672	PUSHAB	SD_P LAGS	1027
	18		01	FB	00675	CALLS	#1, CLISPRESENT	
	03		50	E9	00678	BLBC	RO, 75\$	
48	A7		20	88	0067B	BISB2	#32, UAF\$GQ_SYSUAFF+3	1030
00000000V	00	20	01	D0	0067F	MOVL	#1, PRIMARY	1031
	62		A6	9F	00683	PUSHAB	SD_P LAGS	1032
	67		01	FB	00686	CALLS	#1, GETPFLAGS	
			50	E9	0068D	BLBC	RO, 80\$	
	69	008C	01	D0	00690	MOVL	#1, STATUS	1034
	15		C6	9F	00693	PUSHAB	SD_S LAGS	1037
	05		01	FB	00697	CALLS	#1, CLISPRESENT	
	A8		50	E9	0069A	BLBC	RO, 77\$	
00000000V	00	008C	01	88	0069D	BISB2	#1, UAF\$GQ_SYSUAFF+5	1040
	6E		C6	9F	006A1	PUSHAB	SD_S LAGS	1041
	67		01	FB	006A5	CALLS	#1, GETPFLAGS	
			50	E9	006AC	BLBC	RO, 82\$	
	69	58	01	D0	006AF	MOVL	#1, STATUS	1043
	22		A6	9F	006B2	PUSHAB	SD_P LAGS	1046
	04		01	FB	006B5	CALLS	#1, CLISPRESENT	
	A8		50	E9	006B8	BLBC	RO, 79\$	
00000000G	00	58	01	88	006BB	BISB2	#1, UAF\$GQ_SYSUAFF+4	1047
			5B	DD	006BF	PUSHL	R11	1050
			A6	9F	006C1	PUSHAB	SD_P LAGS	
			02	FB	006C4	CALLS	#2, CLISGET_VALUE	
			10	DD	006CB	PUSHL	#16	1051
00000000V	00	38	AA	9F	006CD	PUSHAB	RECBUF+524	
	63		02	FB	006D0	CALLS	#2, GETVAL	
	67		50	E9	006D7	BLBC	RO, 84\$	
			01	D0	006DA	MOVL	#1, STATUS	1053
	69	0124	C6	9F	006DD	PUSHAB	SD_P LAGS	1056
	11		01	FB	006E1	CALLS	#1, CLISPRESENT	
	04		50	E9	006E4	BLBC	RO, 81\$	
00000000V	00		02	88	006E7	BISB2	#2, UAF\$GQ_SYSUAFF+4	1059
	48		06	FB	006EB	CALLS	#0, GETPRIMEDAYS	1060
	67		50	E9	006F2	BLBC	RO, 84\$	
			01	D0	006F5	MOVL	#1, STATUS	1062
	69	68	A6	9F	006F8	PUSHAB	SD_P LAGS	1065
	22		01	FB	006FB	CALLS	#1, CLISPRESENT	
	04		50	E9	006FE	BLBC	RO, 83\$	
00000000G	00	68	04	88	00701	BISB2	#4, UAF\$GQ_SYSUAFF+4	1068
			5B	DD	00705	PUSHL	R11	1069
			A6	9F	00707	PUSHAB	SD_P LAGS	
			02	FB	0070A	CALLS	#2, CLISGET_VALUE	

			08	DD	00711	PUSHL	#8		1070
		30	AA	9F	00713	PUSHAB	RECBUF+516		
00000000V	00		02	FB	00716	CALLS	#2, GETVAL		
	1D		50	E9	0071D	BLBC	R0, 84\$		
	67		01	D0	00720	MOVL	#1, STATUS		1072
		7C	A6	9F	00723	PUSHAB	SD_PRIVILEGES		1075
	69		01	FB	00726	CALLS	#1, CLISPRESENT		
	1A		50	E9	00729	BLBC	R0, 86\$		
04	A8		08	88	0072C	BISB2	#8, UAF\$GQ_SYSUAFF+4		1078
		C8	AA	9F	00730	PUSHAB	RECBUF+412		1079
		7C	A6	9F	00733	PUSHAB	SD_PRIVILEGES		
00000000V	00		02	FB	00736	CALLS	#2, GETPRIV		
	03		50	E8	0073D	BLBS	R0, 85\$		
			023F	31	00740	BRW	109\$		
	67		01	D0	00743	MOVL	#1, STATUS		1081
		03BC	C6	9F	00746	PUSHAB	P.AFE		1084
	69		01	FB	0074A	CALLS	#1, CLISPRESENT		
04	A7		50	D0	0074D	MOVL	R0, CLI STATUS		
00000000G	8F		50	D1	00751	CMPL	R0, #CLIS_NEGATED		1085
			0C	12	00758	BNEQ	87\$		
04	A8		10	88	0075A	BISB2	#16, UAF\$GQ_SYSUAFF+4		1088
	50	A8	AA	9E	0075E	MOVAB	RECBUF+380, TIME		1089
			60	7C	00762	CLRQ	(TIME)		1090
			12	11	00764	BRB	88\$		1091
	1A		50	E9	00766	BLBC	R0, 89\$		1095
04	A8		10	88	00769	BISB2	#16, UAF\$GQ_SYSUAFF+4		1098
	50	A8	AA	9E	0076D	MOVAB	RECBUF+380, TIME		1099
	60		01	CE	00771	MNEGL	#1, (TIME)		1100
04	A0		01	CE	00774	MNEGL	#1, 4(TIME)		
02	A8		02	88	00778	BISB2	#2, UAF\$GQ_SYSUAFF+2		1101
01	AA		02	8A	0077C	BICB2	#2, RECBUF+469		1102
	67		01	D0	00780	MOVL	#1, STATUS		1103
		0214	C6	9F	00783	PUSHAB	SD_PWDLIFETIME		1106
	69		01	FB	00787	CALLS	#1, CLISPRESENT		
04	A7		50	D0	0078A	MOVL	R0, CLI STATUS		
00000000G	8F		50	D1	0078E	CMPL	R0, #CLIS_NEGATED		1107
			0D	12	00795	BNEQ	90\$		
08	00	04	10	88	00797	BISB2	#16, UAF\$GQ_SYSUAFF+4		1110
			00	2C	0079B	MOVCS	#0, (SP), #0, #8, RECBUF+372		1111
			A0	AA	007A0				
			4C	11	007A2	BRB	94\$		1112
	54		50	E9	007A4	BLBC	R0, 95\$		1117
04	A8		10	88	007A7	BISB2	#16, UAF\$GQ_SYSUAFF+4		1120
			5B	DD	007AB	PUSHL	R11		1121
		0214	C6	9F	007AD	PUSHAB	SD_PWDLIFETIME		
00000000G	00		02	FB	007B1	CALLS	#2, CLISGET_VALUE		
04	00	04	AB	D0	007B8	MOVL	TOKENDSC+4, R0		1122
			6B	2D	007BC	CMPCS	TOKENDSC, (R0), #0, #4, P.AFG		
		03C4	C6		007C1				
			0C	12	007C4	BNEQ	91\$		
08	00		00	2C	007C6	MOVCS	#0, (SP), #0, #8, RECBUF+372		1125
			A0	AA	007CB				
			01	D0	007CD	MOVL	#1, STATUS		1126
	67		1E	11	007D0	BRB	94\$		1122
		A0	AA	9F	007D2	PUSHAB	RECBUF+372		1129
			5B	DD	007D5	PUSHL	R11		
00000000G	00		02	FB	007D7	CALLS	#2, LIB\$CVT_DTIME		

	67		50	D0	007DE		MOVL	R0, STATUS		
	0C		50	E8	007E1		BLBS	R0, 94\$		
00000000G	00		67	DD	007E4	92\$:	PUSHL	STATUS		1132
			01	FB	007E6		CALLS	#1, LIBSSIGNAL		
		0192	31	007ED		93\$:	BRW	109\$		1133
02	A8		02	88	007F0	94\$:	BISB2	#2, UAF\$GQ_SYSUAFF+2		1135
01	AA		02	8A	007F4		RICB2	#2, RECBUF+469		1136
	67		01	D0	007F8		MOVL	#1, STATUS		1137
		0228	C6	9F	007FB	95\$:	PUSHAB	SD_PWDMINIMUM		1140
	69		01	FB	007FF		CAL S	#1, CLISPRESENT		
	23		50	E9	00802		BLBC	R0, 96\$		
04	A8		20	88	00805		BISB2	#32, UAF\$GQ_SYSUAFF+4		1143
		0228	5B	DD	00809		PUSHL	R11		1144
00000000G	00		C6	9F	0080B		PUSHAB	SD_PWDMINIMUM		
			02	FB	0080F		CALLS	#2, CLISGET_VALUE		
		96	08	DD	00816		PUSHL	#8		1145
00000000V	00		AA	9F	00818		PUSHAB	RECBUF+362		
	C8		02	FB	0081B		CALLS	#2, GETVAL		
	67		50	E9	00822		BLBC	R0, 93\$		
		023C	01	D0	00825		MOVL	#1, STATUS		1147
	69		C6	9F	00828	96\$:	PUSHAB	SD_QUEPRIORITY		1150
	24		01	FB	0082C		CALLS	#1, CLISPRESENT		
04	A8		50	E9	0082F		BLBC	R0, 97\$		
		40	8F	88	00832		BISB2	#64, UAF\$GQ_SYSUAFF+4		1153
		023C	5B	DD	00837		PUSHL	R11		1154
00000000G	00		C6	9F	00839		PUSHAB	SD_QUEPRIORITY		
			02	FB	0083D		CALLS	#2, CLISGET_VALUE		
		31	08	DD	00844		PUSHL	#8		1155
00000000V	00		AA	9F	00846		PUSHAB	RECBUF+517		
	9A		02	FB	00849		CALLS	#2, GETVAL		
	67		50	E9	00850		BLBC	R0, 93\$		
		00B0	01	D0	00853		MOVL	#1, STATUS		1157
	69		C6	9F	00856	97\$:	PUSHAB	SD_SHRFILLM		1160
	23		01	FB	0085A		CALLS	#1, CLISPRESENT		
05	A8		50	E9	0085D		BLBC	R0, 98\$		
			04	88	00860		BISB2	#4, UAF\$GQ_SYSUAFF+5		1163
		00B0	5B	DD	00864		PUSHL	R11		1164
00000000G	00		C6	9F	00866		PUSHAB	SD_SHRFILLM		
			02	FB	0086A		CALLS	#2, CLISGET_VALUE		
		46	10	DD	00871		PUSHL	#16		1165
00000000V	00		AA	9F	00873		PUSHAB	RECBUF+538		
	7F		02	FB	00876		CALLS	#2, GETVAL		
	67		50	E9	0087D		BLBC	R0, 101\$		
		00C0	01	D0	00880		MOVL	#1, STATUS		1167
	69		C6	9F	00883	98\$:	PUSHAB	SD_TQELM		1170
	23		01	FB	00887		CALLS	#1, CLISPRESENT		
05	A8		50	E9	0088A		BLBC	R0, 99\$		
			08	88	0088D		BISB2	#8, UAF\$GQ_SYSUAFF+5		1173
		00C0	5B	DD	00891		PUSHL	R11		1174
00000000G	00		C6	9F	00893		PUSHAB	SD_TQELM		
			02	FB	00897		CALLS	#2, CLISGET_VALUE		
		3E	10	DD	0089E		PUSHL	#16		1175
00000000V	00		AA	9F	008A0		PUSHAB	RECBUF+530		
	52		02	FB	008A3		CALLS	#2, GETVAL		
	67		50	E9	008AA		BLBC	R0, 101\$		
		00CC	01	D0	008AD		MOVL	#1, STATUS		1177
			C6	9F	008B0	99\$:	PUSHAB	SD_UIC		1180

update\_record - modify all specified fields

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	69		01	FB	008B4		CALLS	#1, CLISPRESNT	
	1E		50	E9	008B7		BLBC	R0, 100\$	
05	A8		10	88	008BA		BISB2	#16, UAF\$GQ_SYSUAFF+5	1183
			5B	DD	008BE		PUSHL	R11	1184
		00CC	C6	9F	008C0		PUSHAB	SD_UIC	
00000000G	00		02	FB	008C4		CALLS	#2, CLISGET_VALUE	
00000000V	00		00	FB	008CB		CALLS	#0, GETUIC	1185
	5B		50	E9	008D2		BLBC	R0, 103\$	
	67		01	D0	008D5		MOVL	#1, STATUS	1187
		00E0	C6	9F	008D8	100\$:	PUSHAB	SD_WSDEFAULT	1190
	69		01	FB	008DC		CALLS	#1, CLISPRESNT	
	26		50	E9	008DF		BLBC	R0, 102\$	
05	A8		20	88	008E2		BISB2	#32, UAF\$GQ_SYSUAFF+5	1193
			5B	DD	008E6		PUSHL	R11	1194
		00E0	C6	9F	008E8		PUSHAB	SD_WSDEFAULT	
00000000G	00		02	FB	008EC		CALLS	#2, CLISGET_VALUE	
			11	DD	008F3		PUSHL	#17	1195
		4C	AA	9F	008F5		PUSHAB	RECBUF+544	
00000000V	00		02	FB	008FB		CALLS	#2, GETVAL	
	5F		50	E9	008FF	101\$:	BLBC	R0, 105\$	
		4E	AA	B4	00902		CLRW	RECBUF+546	1197
	67		01	D0	00905		MOVL	#1, STATUS	1198
		00F0	C6	9F	00908	102\$:	PUSHAB	SD_WSEXTENT	1201
	69		01	FB	0090C		CALLS	#1, CLISPRESNT	
	27		50	E9	0090F		BLBC	R0, 104\$	
05	A8		8F	88	00912		BISB2	#64, UAF\$GQ_SYSUAFF+5	1204
		40	5B	DD	00917		PUSHL	R11	1205
		00F0	C6	9F	00919		PUSHAB	SD_WSEXTENT	
00000000G	00		02	FB	0091D		CALLS	#2, CLISGET_VALUE	
			11	DD	00924		PUSHL	#17	1206
		50	AA	9F	00926		PUSHAB	RECBUF+548	
00000000V	00		02	FB	00929		CALLS	#2, GETVAL	
	4F		50	E9	00930	103\$:	BLBC	R0, 109\$	
		52	AA	B4	00933		CLF	RECBUF+550	1208
	67		01	D0	00936		MOVL	#1, STATUS	1209
		0100	C6	9F	00939	104\$:	PUSHAB	SD_WSQUOTA	1212
	69		01	FB	0093D		CALLS	#1, CLISPRESNT	
	27		50	E9	00940		BLBC	R0, 106\$	
05	A8		8F	88	00943		BISB2	#128, UAF\$GQ_SYSUAFF+5	1215
		80	5B	DD	00948		PUSHL	R11	1216
		0100	C6	9F	0094A		PUSHAB	SD_WSQUOTA	
00000000G	00		02	FB	0094E		CALLS	#2, CLISGET_VALUE	
			11	DD	00955		PUSHL	#17	1217
		48	AA	9F	00957		PUSHAB	RECBUF+540	
00000000V	00		02	FB	0095A		CALLS	#2, GETVAL	
	1E		50	E9	00961	105\$:	BLBC	R0, 109\$	
		4A	AA	B4	00964		CLRW	RECBUF+542	1219
	67		01	D0	00967		MOVL	#1, STATUS	1220
08 00000000G	00		02	E0	0096A	106\$:	BBS	#2, UAF\$GL_CTLMSK, 107\$	1223
04 00000000G	00		01	E1	00972		BBC	#1, UAF\$GL_CTLMSK, 108\$	
	50		01	D0	0097A	107\$:	MOVL	#1, R0	1225
			04	0097D			RET		
	50		67	D0	0097E	108\$:	MOVL	STATUS, R0	1227
			04	00981			PET		
			50	D4	00982	109\$:	CLRL	R0	1228
			04	00984			PET		

UAFPARSE  
V04-001

update\_record - modify all specified fields

; Routine Size: 2437 bytes, Routine Base: \$CODE\$ + 0000

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UA  
VO

```

1064 1229 1 %sbtll 'getaccess - get hourly and daily access control flags'
1065 1230 1 routine getaccess (qual_name, access_type, qual_status) =
1066 1231 2 begin
1067 1232 2
1068 1233 2 |++
1069 1234 2
1070 1235 2 FUNCTIONAL DESCRIPTION:
1071 1236 2
1072 1237 2 Parse the value list for hourly login restrictions on the
1073 1238 2 selected access modes.
1074 1239 2
1075 1240 2 INPUTS:
1076 1241 2
1077 1242 2 qual_name - descriptor of qualifier name to use
1078 1243 2 access_type - bitvector representing the access modes to be affected
1079 1244 2 qual_status - status from cli$present for qualifier
1080 1245 2
1081 1246 2 IMPLICIT INPUTS:
1082 1247 2
1083 1248 2 none
1084 1249 2
1085 1250 2 OUTPUTS:
1086 1251 2
1087 1252 2 none
1088 1253 2
1089 1254 2 IMPLICIT OUTPUTS:
1090 1255 2
1091 1256 2 none
1092 1257 2
1093 1258 2 ROUTINE VALUE:
1094 1259 2
1095 1260 2 true -> all keywords and parameters were specified correctly
1096 1261 2
1097 1262 2 SIDE EFFECTS:
1098 1263 2
1099 1264 2 none
1100 1265 2 --
1101 1266 2
1102 1267 2 map
1103 1268 2 access_type : bitvector;
1104 1269 2
1105 1270 2 STRUCTURE
1106 1271 2 threebytevector [i; n, ext=0] =
1107 1272 2 [n*3]
1108 1273 2 (threebytevector+i*3)<0, 24, ext>;
1109 1274 2
1110 1275 2 $ASSUME ($BYTEOFFSET (uaf$b_network_access_s), EQL, $BYTEOFFSET (uaf$b_network_access_p)+3);
1111 1276 2 $ASSUME ($BYTEOFFSET (uaf$b_batch_access_p), EQL, $BYTEOFFSET (uaf$b_network_access_s)+3);
1112 1277 2 $ASSUME ($BYTEOFFSET (uaf$b_batch_access_s), EQL, $BYTEOFFSET (uaf$b_batch_access_p)+3);
1113 1278 2 $ASSUME ($BYTEOFFSET (uaf$b_local_access_p), EQL, $BYTEOFFSET (uaf$b_batch_access_s)+3);
1114 1279 2 $ASSUME ($BYTEOFFSET (uaf$b_local_access_s), EQL, $BYTEOFFSET (uaf$b_local_access_p)+3);
1115 1280 2 $ASSUME ($BYTEOFFSET (uaf$b_dialup_access_p), EQL, $BYTEOFFSET (uaf$b_local_access_s)+3);
1116 1281 2 $ASSUME ($BYTEOFFSET (uaf$b_dialup_access_s), EQL, $BYTEOFFSET (uaf$b_dialup_access_p)+3);
1117 1282 2 $ASSUME ($BYTEOFFSET (uaf$b_remote_access_p), EQL, $BYTEOFFSET (uaf$b_dialup_access_s)+3);
1118 1283 2 $ASSUME ($BYTEOFFSET (uaf$b_remote_access_s), EQL, $BYTEOFFSET (uaf$b_remote_access_p)+3);
1119 1284 2
1120 1285 2 bind

```

```

1121      1286      2          access_vector = recbuf[uaf$b_network_access_p]
1122      1287      2          : threebytevector;
1123      1288      2
1124      1289      2
1125      1290      2      : Initialize output values.
1126      1291      2
1127      1292      2      primary_access = -1;
1128      1293      2      secondary_access = -1;
1129      1294      2      if not .qual_status then no_flag = true;
1130      1295      2
1131      1296      2
1132      1297      2      : Fetch value list items and parse them.
1133      1298      2
1134      1299      2      while true
1135      1300      2      do
1136      1301      2          begin
1137      1302      2              if not cli$get_value (.qual_name, tokendsc)
1138      1303      2              then exitloop;
1139      1304      2
1140      1305      2              tparse_block[tpa$l_stringcnt] = .tokenlen;
1141      1306      2              tparse_block[tpa$l_stringptr] = .tokenptr;
1142      1307      2              if not lib$parse (tparse_block, access_states, access_keys)
1143      1308      2              then return LIB$SIGNAL(UAF$BADVALUE, 2, .tokenlen, .tokenptr);
1144      1309      2              end;
1145      1310      2
1146      1311      2
1147      1312      2      : Default omitted values.
1148      1313      2
1149      1314      2      if not .primary and not .secondary
1150      1315      2      then secondary_access = .primary_access;
1151      1316      2      if .primary and not .secondary
1152      1317      2      then secondary_access = 0;
1153      1318      2      if .secondary and not .primary and .primary_access eql -1
1154      1319      2      then primary_access = 0;
1155      1320      2
1156      1321      2      if not .no_flag
1157      1322      2      then
1158      1323      2          begin
1159      1324      2              primary_access = not .primary_access;
1160      1325      2              secondary_access = not .secondary_access;
1161      1326      2          end;
1162      1327      2
1163      1328      2
1164      1329      2      : Write the specified fields in the UAF record.
1165      1330      2
1166      1331      2      incr j from 0 to 4
1167      1332      2      do
1168      1333      2          begin
1169      1334      2              if .access_type[.j]
1170      1335      2              then
1171      1336      2                  begin
1172      1337      2                      access_vector [.j*2+0] = .primary_access;
1173      1338      2                      access_vector [.j*2+1] = .secondary_access;
1174      1339      2                  end;
1175      1340      2              end;
1176      1341      2
1177      1342      2      true

```



003C 00000 GETACCESS:

	55	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5	1230
	54	00000000G	00	9E	00009	MOVAB	TOKENPTR, R5	
	53	00000000'	00	9E	00010	MOVAB	TOKENLEN, R4	
	63		01	CE	00017	MOVAB	PRIMARY_ACCESS, R3	
04	A3		01	CE	0001A	MNEGI	#1, PRIMARY_ACCESS	1292
04	04	0C	AC	EB	0001E	MNEGL	#1, SECONDARY_ACCESS	1293
08	A3		01	D0	00022	BLBS	QUAL STATUS, T\$	1294
		00000000G	00	9F	00026	MOVL	#1, NO FLAG	
		04	AC	DD	0002C	PUSHAB	TOKENESC	1302
00000000G	00		02	FB	0002F	PUSHL	QUAL NAME	
	36		50	E9	00036	CALLS	#2, CLISGET_VALUE	
D4	A3		64	3C	00039	BLBC	R0, 2\$	1305
D8	A3		65	D0	0003D	MOVZWL	TOKENLEN, TPARSE_BLOCK+8	
		00000000'	00	9F	00041	MOVL	TOKENPTR, TPARSE_BLOCK+12	1306
		00000000'	00	9F	00047	PUSHAB	ACCESS_KEYS	1307
		CC	A3	9F	0004D	PUSHAB	ACCESS_STATES	
00000000G	00		03	FB	00050	PUSHAB	TPARSE_BLOCK	
	CC		50	EB	00057	CALLS	#3, LIBSTPARSE	
			65	DD	0005A	BLBS	R0, 1\$	
	7E		64	3C	0005C	PUSHL	TOKENPTR	1308
		00000000G	02	DD	0005F	MOVZWL	TOKENLEN, -(SP)	
00000000G	00		8F	DD	00061	PUSHL	#2	
			04	FB	00067	PUSHL	#UAF\$ BADVALUE	
			04	0006E	CALLS	#4 LIBSSIGNAL		
	50	0C	A3	D0	0006F	RET		
	08		50	EB	00073	MOVL	PRIMARY, R0	1314
	04	10	A3	EB	00076	BLBS	R0, 4\$	
04	A3		63	D0	0007A	BLBS	SECONDARY, 3\$	
	07		50	E9	0007E	MOVL	PRIMARY_ACCESS, SECONDARY_ACCESS	1315
	07	10	A3	EB	00081	BLBC	R0, 5\$	1316
		04	A3	D4	00085	BLBS	SECONDARY, 6\$	
	0E	10	A3	E9	00088	CLRL	SECONDARY_ACCESS	1317
	08		50	EB	0008C	BLBC	SECONDARY, 7\$	1318
FFFFFFFF	8F		63	D1	0008F	BLBS	R0, 7\$	
			02	12	00096	CMPL	PRIMARY_ACCESS, #-1	
			63	D4	00098	BNEQ	7\$	
	08	08	A3	EB	0009A	CLRL	PRIMARY_ACCESS	1319
	63		63	D2	0009E	BLBS	NO FLAG, 8\$	1321
04	A3	04	A3	D2	000A1	MCOML	PRIMARY_ACCESS, PRIMARY_ACCESS	1324
			50	D4	000A6	MCOML	SECONDARY_ACCESS, SECONDARY_ACCESS	1325
			50	E1	000AB	CLRL	J	1331
21	08	AC	50	E1	000AB	BBC	J, ACCESS_TYPE, 10\$	1334
52		50	01	78	000AD	ASHL	#1, J, R2	1337
51		52	03	C5	000B1	MULL3	#3, R2, R1	
00000000G0041	18	00	63	F0	000B5	INSV	PRIMARY_ACCESS, #0, #24, ACCESS_VECTOR[R1]	
	51	52	03	C5	000BF	MULL3	#3, R2, R1	1338
00000000G0041	18	00	04	A3	F0	INSV	SECONDARY_ACCESS, #0, #24, ACCESS_VECTOR+3-[R1]	
			04	F3	000CE	AOBLEQ	#4, J, 9\$	1331
	D6	50	01	D0	000D2	MOVL	#1, R0	1343



check\_primary - check presence of PRIMARY keywo

6  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

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

```

: 1180      1344 1 %sbttl 'check_primary - check presence of PRIMARY keyword'
: 1181      1345 1 routine check_primary =
: 1182      1346 2 begin
: 1183      1347 2 not .primary and not .secondary
: 1184      1348 1 end;

```

```

                                0000 00000 CHECK_PRIMARY:
                                .WORD   Save nothing
                                BISL3    SECONDARY, PRIMARY, R0
                                MCOML    R0, R0
                                RET
50 00000000' 00 00000000' 00 C9 00002
                    50      50 D2 0000E
                                04 00011

```

: 1345  
: 1347  
: 1346  
: 1348

: Routine Size: 18 bytes, Routine Base: \$CODE\$ + 0A5D

: 1  
: 1  
: 1  
: 1  
: 1  
: 1  
: 1

: R

```

: 1186      1349 1 %sbttl 'check_secondary - check presence of SECONDARY keyword'
: 1187      1350 1 routine check_secondary =
: 1188      1351 2 begin
: 1189      1352 2 not .secondary
: 1190      1353 1 end;

```

```

0000 00000 CHECK_SECONDARY:
50 00000000' 00 D2 00002 .WORD Save nothing
04 00009 MCOML SECONDARY, R0
PET

```

```

: 1350
: 1351
: 1353

```

; Routine Size: 10 bytes, Routine Base: %CODE\$ + 0A6D

set\_range - set hourly restriction bits

```

: 1192 1354 1 %sbttl 'set_range - set hourly restriction bits'
: 1193 1355 1 global routine set_range =
: 1194 1356 2 begin
: 1195 1357 2
: 1196 1358 2 ++
: 1197 1359 2
: 1198 1360 2 FUNCTIONAL DESCRIPTION:
: 1199 1361 2
: 1200 1362 2 Set or clear appropriate hourly login restriction bits
: 1201 1363 2
: 1202 1364 2 INPUTS:
: 1203 1365 2
: 1204 1366 2 none
: 1205 1367 2
: 1206 1368 2 IMPLICIT INPUTS:
: 1207 1369 2
: 1208 1370 2
: 1209 1371 2 OUTPUTS:
: 1210 1372 2
: 1211 1373 2 none
: 1212 1374 2
: 1213 1375 2 ROUTINE VALUE:
: 1214 1376 2
: 1215 1377 2 true -> successful completion
: 1216 1378 2 false -> error in flag name
: 1217 1379 2 --
: 1218 1380 2
: 1219 1381 2 builtin
: 1220 1382 2 ap;
: 1221 1383 2
: 1222 1384 2 map
: 1223 1385 2 ap : ref block [,byte];
: 1224 1386 2
: 1225 1387 2 local
: 1226 1388 2 address,
: 1227 1389 2 width,
: 1228 1390 2 leftmost,
: 1229 1391 2 wrap;
: 1230 1392 2
: 1231 1393 2
: 1232 1394 2 Point to the flags longword to use.
: 1233 1395 2
: 1234 1396 2 if .secondary
: 1235 1397 2 then address = secondary_access
: 1236 1398 2 else address = primary_access;
: 1237 1399 2
: 1238 1400 2
: 1239 1401 2 Get the ending bit - note that this is the same as the starting
: 1240 1402 2 bit for a single hour.
: 1241 1403 2
: 1242 1404 2 left_bit = .ap[tpa$l_number];
: 1243 1405 2
: 1244 1406 2
: 1245 1407 2 Make sure hour is not out of range
: 1246 1408 2
: 1247 1409 2 if .left_bit gtru 23
: 1248 1410 2 or .right_bit gtru 23

```

set\_range - set hourly restriction bits

```

: 1249      1411 2 then
: 1250      1412 2     return false;
: 1251      1413 2
: 1252      1414 2
: 1253      1415 2  : Clear out the default field value if this is the first real value.
: 1254      1416 2
: 1255      1417 2  if ..address eq! -1
: 1256      1418 2  then .address = 0;
: 1257      1419 2
: 1258      1420 2  wrap = false;
: 1259      1421 2  leftmost = .left_bit;
: 1260      1422 2
: 1261      1423 2
: 1262      1424 2  : If the starting bit is greater than the ending bit, allow field to wrap
: 1263      1425 2
: 1264      1426 2  if .left_bit lss .right_bit
: 1265      1427 2  then
: 1266      1428 3  begin
: 1267      1429 3  leftmost = 23;
: 1268      1430 3  wrap = true;
: 1269      1431 2  end;
: 1270      1432 2
: 1271      1433 2
: 1272      1434 2  : Set field width(s) and set appropriate bits
: 1273      1435 2
: 1274      1436 2  width = .leftmost - .right_bit + 1;
: 1275      1437 2
: 1276      1438 2  (.address)<.right_bit, .width> = -1;
: 1277      1439 2
: 1278      1440 2  if .wrap
: 1279      1441 2  then (.address)<0, .left_bit+1> = -1;
: 1280      1442 2
: 1281      1443 2  return true;
: 1282      1444 2
: 1283      1445 1  end;

```

			003C 00000	.ENTRY	SET RANGE, Save R2,R3,R4,R5	: 1355
55	00000000'	00	9E 00002	MOVAB	LEFT_BIT, R5	: 1396
06	18	A5	E9 00009	BLBC	SECONDARY, 1\$	: 1397
53	0C	A5	9E 0000D	MOVAB	SECONDARY_ACCESS, ADDRESS	
		04	11 00011	BRB	2\$	
53	08	A5	9E 00013 1\$:	MOVAB	PRIMARY_ACCESS, ADDRESS	: 1395
65	1C	AC	D0 00017 2\$:	MOVL	28(AP), LEFT_BIT	: 1404
54		65	D0 0001B	MOVL	LEFT_BIT, R4	: 1409
17		54	D1 0001E	CMPL	R4, #23	
		47	1A 00021	BGTRU	6\$	
17	04	A5	D1 00023	CMPL	RIGHT_BIT, #23	: 1410
		41	1A 00027	BGTRU	6\$	
	FFFFFFF	63	D1 00029	CMPL	(ADDRESS), #-1	: 1417
		02	12 00030	BNEQ	3\$	
		65	D4 00032	CLRL	(ADDRESS)	: 1418
		52	D4 00034 3\$:	CLRL	WRAP	: 1420
50		54	D0 00036	MOVL	R4, LEFTMOST	: 1421



getcputim - get cpu time quota

```

: 1285      1446 1 %sbttl 'getcputim - get cpu time quota'
: 1286      1447 1 global routine getcputim =
: 1287      1448 2 begin
: 1288      1449 2
: 1289      1450 2 ++
: 1290      1451 2
: 1291      1452 2 FUNCTIONAL DESCRIPTION:
: 1292      1453 2
: 1293      1454 2     Fill in the CPU time limit in the proper field in RECBUF.
: 1294      1455 2
: 1295      1456 2 INPUTS:
: 1296      1457 2
: 1297      1458 2     none
: 1298      1459 2
: 1299      1460 2 OUTPUTS:
: 1300      1461 2
: 1301      1462 2     none
: 1302      1463 2
: 1303      1464 2 ROUTINE VALUE:
: 1304      1465 2
: 1305      1466 2     true -> success
: 1306      1467 2     false -> invalid value supplied
: 1307      1468 2
: 1308      1469 2 --
: 1309      1470 2
: 1310      1471 2 local
: 1311      1472 2     delta_time      : vector [2, long], ! system delta time temporary
: 1312      1473 2     cpu_time,         ! CPU time work variables
: 1313      1474 2     remainder;
: 1314      1475 2
: 1315      1476 2 builtin
: 1316      1477 2     ediv;
: 1317      1478 2
: 1318      1479 2
: 1319      1480 2 : Convert ASCII to system delta time
: 1320      1481 2
: 1321      1482 2
: 1322      1483 2 if not lib$cvd_dtime (tokendsc, delta_time)
: 1323      1484 2 then
: 1324      1485 2     return LIB$SIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
: 1325      1486 2
: 1326      1487 2
: 1327      1488 2 : Convert system delta time to a longword value which is in .01 sec. units
: 1328      1489 2
: 1329      1490 2
: 1330      1491 2 if (ediv (%ref (-200000), delta_time, cpu_time, remainder) and psl$m_v) neq 0
: 1331      1492 2 then
: 1332      1493 2     return LIB$SIGNAL(UAF$_VALTOOBIG, 2, .tokenlen, .tokenptr);
: 1333      1494 2
: 1334      1495 2 recbuf[uaf$l_cputim] = (.cpu_time ^ 1) + (if .remainder eql 0 then 0 else 1);
: 1335      1496 2
: 1336      1497 2 true
: 1337      1498 2 end;

```



			003C 00000		.ENTRY	GETCPUTIM, Save R2,R3,R4,R5	:	1447
	55	00000000G	0C 9E 00002		MOVAB	TOKENLEN, R5	:	
	54	00000000G	00 9E 00009		MOVAB	TOKENPTR, R4	:	
	5E		08 C2 00010		SUBL2	#8, SP	:	
			5E DD 00013		PUSHL	SP	:	1483
		00000000G	00 9F 00015		PUSHAB	TOKENDSC	:	
	00		02 FB 0001B		CALLS	#2, LIB\$CVT_DTIME	:	
	0F		50 EB 00022		BLBS	R0, 1\$	:	
			64 DD 00025		PUSHL	TOKENPTR	:	1485
	7E		65 3C 00027		MOVZWL	TOKENLEN, -(SP)	:	
			02 DD 0002A		PUSHL	#2	:	
		00000000G	8F DD 0002C		PUSHL	#UAF\$_BADVALUE	:	
			1C 11 00032		BRB	2\$	:	
53	52	6E	FFFCF2C0	8F 7B 00034 1\$:	EDIV	#-200000, DELTA_TIME, CPU_TIME, REMAINDER	:	1491
				50 DC 0003D	MOVPSL	R0	:	
	15	50		01 E1 0003F	BBC	#1, R0, 3\$	:	
				64 DD 00043	PUSHL	TOKENPTR	:	1493
		7E		65 3C 00045	MOVZWI	TOKENLEN, -(SP)	:	
				02 DD 00048	PUSHL	#2	:	
		00000000G	00	8F DD 0004A	PUSHL	#UAF\$ VALTOOBIG	:	
				04 F3 00050 2\$:	CALLS	#4, LIB\$SIGNAL	:	
				04 00057	RET		:	
				53 D5 00058 3\$:	TSTL	REMAINDER	:	1495
				04 12 0005A	BNEQ	4\$	:	
				50 D4 0005C	CLRL	R0	:	
				03 11 0005E	BRB	5\$	:	
		50		01 D0 00060 4\$:	MOVL	#1, R0	:	
		00000000G	00	6042 3E 00063 5\$:	MOVAW	(R0)[CPU_TIME], RECBUF+556	:	
			50	01 D0 0006B	MOVL	#1, R0	:	1498
				04 0006E	RET		:	

; Routine Size: 111 bytes, Routine Base: \$CODE\$ + 0AE4

```

1339 1499 1 %sbttl 'getdevice - get default device name'
1340 1500 1 global routine getdevice =
1341 1501 2 begin
1342 1502 3
1343 1503 4 ++
1344 1504 5
1345 1505 6 FUNCTIONAL DESCRIPTION:
1346 1506 7
1347 1507 8     Fill in the default device name in RECBUF.
1348 1508 9     Will also append an ending colon if omitted.
1349 1509 10
1350 1510 11 INPUTS:
1351 1511 12
1352 1512 13     none
1353 1513 14
1354 1514 15 OUTPUTS:
1355 1515 16
1356 1516 17     none
1357 1517 18
1358 1518 19 ROUTINE VALUE:
1359 1519 20
1360 1520 21     true -> update successful
1361 1521 22     false -> error in specification
1362 1522 23 --
1363 1523 24
1364 1524 25 local
1365 1525 26     strlen;
1366 1526 27
1367 1527 28 if not getstring (recbuf[uaf$t_defdev], uaf$s_defdev, counted_string)
1368 1528 29 then
1369 1529 30     return false;
1370 1530 31
1371 1531 32
1372 1532 33     Check to see that string has ending ':'
1373 1533 34     and add one if not.
1374 1534 35     If string length is zero, then field has been removed so
1375 1535 36     there's no need for the check.
1376 1536 37
1377 1537 38
1378 1538 39 strlen = .(recbuf[uaf$t_defdev])<0,8>;           ! get string length
1379 1539 40
1380 1540 41 if .strlen eql 0
1381 1541 42 then
1382 1542 43     return true;
1383 1543 44
1384 1544 45 if .(recbuf[uaf$t_defdev] + .strlen)<0,8> neq colon
1385 1545 46 then
1386 1546 47     begin
1387 1547 48     if .strlen geq uaf$s_defdev-1
1388 1548 49     then
1389 1549 50         return LIB$SIGNAL(UAF$ INVDEV, 2, .tokenlen, .tokenptr);
1390 1550 51         (recbuf[uaf$t_defdev]+.strlen+1)<0,8> = colon;
1391 1551 52         (recbuf[uaf$t_defdev])<0,8> = .strlen + 1;
1392 1552 53     end;
1393 1553 54 return true;
1394 1554 55 end;

```

			000C 00000	.ENTRY	GETDEVICE, Save R2,R3	: 1500	
	53	00000000G	00 9E 00002	MOVAB	RECBUF+116, R3	: 1527	
			01 DD 00009	PUSHL	#1		
			20 DD 0000B	PUSHL	#32		
			53 DD 0000D	PUSHL	R3		
00000000V	00		03 FB 0000F	CALLS	#3, GETSTRING		
	3A		50 E9 00016	BLBC	R0, 3\$		
	52		63 9A 00019	MOVZBL	RECBUF+116, STRLEN	: 1538	
			31 13 0001C	BEQL	2\$	: 1540	
	3A		6342 91 0001E	CMPB	RECBUF+116[STRLEN], #58	: 1544	
			2B 13 00022	BEQL	2\$		
	1F		52 D1 00024	C MPL	STRLEN, #31	: 1547	
			1D 19 00027	BLSS	1\$		
		00000000G	00 DD 00029	PUSHL	TOKENPTR	: 1549	
	7E	00000000G	00 3C 0002F	MOVZWL	TOKENLEN, -(SP)		
			02 DD 00036	PUSHL	#2		
		00000000G	8F DD 00038	PUSHL	#UAF\$ INVDEV		
00000000G	00		04 FB 0003E	CALLS	#4, LIB\$SIGNAL		
			04 00045	RET			
	01	A342	3A 90 00046	1\$:	MOVB	#58, RECBUF+117[STRLEN]	: 1550
63		52	01 81 0004B	ADDB3	#1, STRLEN, RECBUF+116	: 1551	
		50	01 D0 0004F	2\$:	MOVL	#1, R0	: 1553
			04 00052	RET			
			50 D4 00053	3\$:	CLRL	R0	: 1554
			04 00055	RET			

: Routine Size: 86 bytes, Routine Base: \$CODE\$ + UB53

getdirectory - get default directory

```

: 1396 1555 1 %sbttl 'getdirectory - get default directory'
: 1397 1556 1 global routine getdirectory =
: 1398 1557 2 begin
: 1399 1558 2 +
: 1400 1559 2
: 1401 1560 2 FUNCTIONAL DESCRIPTION:
: 1402 1561 2
: 1403 1562 2 This routine parses the user default directory and places
: 1404 1563 2 it into the buffer if the form is correct. If delimiters
: 1405 1564 2 are not present, they are added.
: 1406 1565 2
: 1407 1566 2 INPUTS:
: 1408 1567 2
: 1409 1568 2 none
: 1410 1569 2
: 1411 1570 2 OUTPUTS:
: 1412 1571 2
: 1413 1572 2 none
: 1414 1573 2
: 1415 1574 2 IMPLICIT INPUTS:
: 1416 1575 2
: 1417 1576 2 TOKENLEN = length of default directory string
: 1418 1577 2 TOKENPTR = pointer to default directory string
: 1419 1578 2
: 1420 1579 2 --
: 1421 1580 2 local BRACKETLESS;
: 1422 1581 2
: 1423 1582 2 :
: 1424 1583 2 : Crank directory spec through tparse
: 1425 1584 2 :
: 1426 1585 2 tparse_block [tpa$l_stringcnt] = .tokenlen;
: 1427 1586 2 tparse_block [tpa$l_stringptr] = .tokenptr;
: 1428 1587 2 :
: 1429 1588 2 if not lib$tparse (tparse_block, dir_states, dir_keys)
: 1430 1589 2 then
: 1431 1590 2 return LIB$SIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
: 1432 1591 2 :
: 1433 1592 2 :
: 1434 1593 2 : Did the string have enclosing brackets (matching is guaranteed
: 1435 1594 2 by the command parser) ??
: 1436 1595 2 :
: 1437 1596 2 BRACKETLESS = ((.tokenptr)<0,8> neq '[') and ((.tokenptr)<0,8> neq '<');
: 1438 1597 2 :
: 1439 1598 2 :
: 1440 1599 2 : Make sure that the string isn't too long
: 1441 1600 2 :
: 1442 1601 2 if (((.tokenlen+i) geq uaf$s_defdir) and not .BRACKETLESS)
: 1443 1602 2 or ((.tokenlen+3) geq uaf$s_defdir)
: 1444 1603 2 then
: 1445 1604 2 return LIB$SIGNAL(UAF$_INVSTR, 2, .tokenlen, .tokenptr);
: 1446 1605 2 :
: 1447 1606 2 :
: 1448 1607 2 : Move the string into the UAF record
: 1449 1608 2 :
: 1450 1609 2 if .BRACKETLESS then
: 1451 1610 2 begin
: 1452 1611 2 vector[recbuf[uaf$t_defdir], 0;, byte] = .tokenlen + 2;

```



getdirectory - get default directory

J 7  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

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

			06	BB	00082	5\$:	PUSHR	#M<R1,R2>		1604
			02	DD	00084		PUSHL	#2		
			8F	DD	00086		PUSHL	#UAF\$ INVSTR		
	00000000G	00	04	FB	0008C	6\$:	CALLS	#4, LIB\$SIGNAL		
					04		RET			
		50	69	3C	00094	7\$:	MOVZWL	TOKENLEN, R0		1611
		51	68	D0	00097		MOVL	TOKENPTR, R1		1613
		1A	53	E9	0009A		BLBC	BRACKETLESS, 8\$		1609
		56	02	A0	9E		MOVAB	2(R0), R6		1611
		67		56	90		MOVB	R6, RECBUF+148		
3E		01	A7	5B	8F		MOVB	#91, RECBUF+149		1612
			61		50		MOVCS	R0, (R1), #32, #62, RECBUF+150		1614
				02	A7					
		6746	5D	8F	90		MOVB	#93, RECBUF+148[R6]		1615
				0A	11		BRB	9\$		1609
				50	90		MOVB	R0, RECBUF+148		1619
3F		20	61		50	8\$:	MOVCS	R0, (R1), #32, #63, RECBUF+149		1621
				01	A7					
			50		01	9\$:	MOVL	#1, R0		1624
					04		RET			1626

; Routine Size: 197 bytes, Routine Base: \$CODE\$ + 0BA9

checkvalue - check UFD group and member value

```

: 1469      1627 1 %sbttl 'checkvalue - check UFD group and member value'
: 1470      1628 1 routine checkvalue =
: 1471      1629 2 begin
: 1472      1630 2 builtin ap;
: 1473      1631 2 map ap: ref block [,byte];
: 1474      1632 2 if .ap[tpa$1_number] gtr %o'377' then return false else return true;
: 1475      1633 1 end;

```

```

                                0C00 0000 CHECKVALUE:
                                .WORD      Save nothing
000000FF  8F      1C      AC  D1 00002      CMPL  28(AP), #255
                                03  15 0000A      BLEQ  1$
                                50  D4 0000C      CLRL  R0
                                G4 0000E      RET
                                50      01  D0 0000F 1$:      MOVL  #1, R0
                                04 00012      RET
: 1628
: 1632
: 1633

```

; Routine Size: 19 bytes, Routine Base: \$CODE\$ + 0C6E

```

: 1477      1634 1 %sbttl 'checklength - check directory name length'
: 1478      1635 1 routine checklength =
: 1479      1636 2 begin
: 1480      1637 2 builtin ap;
: 1481      1638 2 map ap: ref block [,byte];
: 1482      1639 2 if .ap[tpa$!_tokencnt] gtr 39 then return false else return true;
: 1483      1640 1 end;

```

```

                                0000 0000 CHECKLENGTH:
                                .WORD  Save nothing
                                CMPL  16(AP), #39
                                BLEQ  1$
                                CLRL  R0
                                RET
                                50      01  D0 0000B 1$:  MOVL  #1, R0
                                04 0000E  RET
                                : 1635
                                : 1639
                                :
                                : 1640

```

: Routine Size: 15 bytes, Routine Base: \$CODE\$ + 0CB1



getflags - get flag bits

```

: 1485      1641 1 %sbttl 'getflags - get flag bits'
: 1486      1642 1 global routine getflags =
: 1487      1643 1 begin
: 1488      1644 1
: 1489      1645 1 ++
: 1490      1646 1
: 1491      1647 1 FUNCTIONAL DESCRIPTION:
: 1492      1648 1
: 1493      1649 1     Get login flag bit settings.
: 1494      1650 1
: 1495      1651 1 INPUTS:
: 1496      1652 1
: 1497      1653 1     none
: 1498      1654 1
: 1499      1655 1 IMPLICIT INPUTS:
: 1500      1656 1
: 1501      1657 1     FLAG_TABLE - table of flag bit numbers and ascii names
: 1502      1658 1
: 1503      1659 1 OUTPUTS:
: 1504      1660 1
: 1505      1661 1     none
: 1506      1662 1
: 1507      1663 1 ROUTINE VALUE:
: 1508      1664 1
: 1509      1665 1     true -> successful completion
: 1510      1666 1     false -> error in flag name
: 1511      1667 1 --
: 1512      1668 1
: 1513      1669 1 local
: 1514      1670 1
: 1515      1671 1     status,
: 1516      1672 1     keyword_dsc      : vector [2],
: 1517      1673 1     no_flag,
: 1518      1674 1     code,                ! return from find_val
: 1519      1675 1     ientry;
: 1520      1676 1
: 1521      1677 1     Retrieve flag values as long as there are any present
: 1522      1678 1
: 1523      1679 1
: 1524      1680 1 while cli$get_value (sd_flags, tokendsc) do
: 1525      1681 1
: 1526      1682 1     Initialize keyword descriptor
: 1527      1683 1
: 1528      1684 1     begin
: 1529      1685 1     keyword_dsc [0] = .tokenlen;
: 1530      1686 1     keyword_dsc [1] = .tokenptr;
: 1531      1687 1     no_flag = false;
: 1532      1688 1
: 1533      1689 1
: 1534      1690 1     If 'NO' prefix specified, set no flag and adjust the
: 1535      1691 1     keyword descriptor to remove the 'NO'
: 1536      1692 1
: 1537      1693 1     if ch$eql (2, .no_dsc [1], 2, .keyword_dsc [1])
: 1538      1694 1     then
: 1539      1695 1     begin
: 1540      1696 1     keyword_dsc [0] = .keyword_dsc [0] - 2;
: 1541      1697 1     keyword_dsc [1] = .keyword_dsc [1] + 2;

```

getflags - get flag bits

```

: 1542      1698 4      no_flag = true;
: 1543      1699      end;
: 1544      1700
: 1545      1701      if (status = lib$lookup_key (keyword_dsc, flag_table, code))
: 1546      1702      then
: 1547      1703          valid flag, set bit
: 1548      1704          (recbuf[uaf$l_flags])<.code,1> = not .no_flag
: 1549      1705      else
: 1550      1706          select .status of
: 1551      1707              set
: 1552      1708                  ambiguous keyword?
: 1553      1709                  [lib$_ambkey] : signal (cli$_abkeyw);
: 1554      1710                  unrecognized keyword?
: 1555      1711                  [lib$_unrkey] : signal (cli$_ivkeyw);
: 1556      1712                  whatever, always return an error if we're in here
: 1557      1713                  [always]      : return false;
: 1558      1714      tes;
: 1559      1715      end;
: 1560      1716      return true;
: 1561      1717      end;
: 1562      1718
: 1563      1719
: 1564      1720
: 1565      1721
: 1566      1722
: 1567      1723
: 1568      1724
: 1569      1725
: 1570      1726
: 1571      1727

```

			001C 00000	.ENTRY	GETFLAGS, Save R2,R3,R4	1642
54	00000000G	00	9E 00002	MOVAB	LIB\$SIGNAL, R4	
5E		0C	C2 00009	SUBL2	#12, SP	
	00000000G	00	9F 0000C 1\$:	PUSHAB	TOKENDSC	1680
	00000000'	00	9F 00012	PUSHAB	SD_FLAGS	
00000000G	00	02	FB 00018	CALLS	#2, CLI\$GET_VALUE	
	76	50	E9 0001F	BLBC	R0, 5\$	
04	AE 00000000G	00	3C 00022	MOVZWL	TOKENLEN, KEYWORD_DSC	1685
08	AE 00000000G	00	D0 0002A	MOVL	TOKENPTH, KEYWORD_DSC+4	1686
		52	D4 00032	CLRL	NO_FLAG	1687
	50 00000000'	00	D0 00034	MOVL	NO_DSC+4, R0	1693
08	BE	60	B1 0003B	CMPW	(R0), @KEYWORD_DSC+4	
		0B	12 0003F	BNEQ	2\$	
04	AE	02	C2 00041	SUBL2	#2, KEYWORD_DSC	1696
08	AE	02	C0 00045	ADDL2	#2, KEYWORD_DSC+4	1697
	52	01	D0 00049	MOVL	#1, NO_FLAG	1698
		5E	DD 0004C 2\$:	PUSHL	SP	1701
	C0000000'	00	9F 0004E	PUSHAB	FLAG_TABLE	
	0C	AE	9F 00054	PUSHAB	KEYWORD_DSC	
00000000G	00	03	FB 00057	CALLS	#3, LIB\$LOOKUP_KEY	
	53	50	DC 0005E	MOVL	R0, STATUS	
	0E	53	E9 00061	BLBC	STATUS, 3\$	

getflags - get flag bits

8 8  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:0

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

00000000G	00	01	50 6E	52 D2 00064	MCOML	NO_FLAG, R0	1706	
				50 F0 00067	INSV	R0, CODE, #1, RECBUF+468		
				9A 11 00070	BRB	1\$		
		00000000G	8F	53 D1 00072	3\$:	CMPL	STATUS, #LIB\$_AMBKEY	1713
				09 12 00079	BNEQ	4\$		
		00000000G	64	8F DD 0007B	PUSHL	#CLIS ABKEYW		
				01 FB 00081	CALLS	#1, LIB\$SIGNAL		
		00000000G	8F	53 D1 00084	4\$:	CMPL	STATUS, #LIB\$_UNRKEY	1717
				0F 12 0008B	BNEQ	6\$		
		00000000G	64	8F DD 0008D	PUSHL	#CLIS IVKEYW		
				01 FB 00093	CALLS	#1, LIB\$SIGNAL		
			50	04 11 00096	BRB	6\$	1721	
				01 D0 00098	5\$:	MOVL	#1, R0	1726
				04 0009B	RET			
				50 D4 0009C	6\$:	CLRL	R0	1727
				04 0009E	RET			

; Routine Size: 159 bytes, Routine Base: \$CODE\$ + 0C90

getpflags - get old per day login flags

```

: 1573      1728 1 %sbttl 'getpflags - get old per day login flags'
: 1574      1729 1 global routine getpflags (qual_name) =
: 1575      1730 2 begin
: 1576      1731 2
: 1577      1732 2 ++
: 1578      1733 2
: 1579      1734 2 : FUNCTIONAL DESCRIPTION:
: 1580      1735 2
: 1581      1736 2     Get prime day login flag bit settings.
: 1582      1737 2
: 1583      1738 2 : INPUTS:
: 1584      1739 2
: 1585      1740 2     qual_name - address of descriptor for qualifier name
: 1586      1741 2
: 1587      1742 2 : IMPLICIT INPUTS:
: 1588      1743 2
: 1589      1744 2     OPFLAG TABLE - table of flag bit numbers and ascii names
: 1590      1745 2     PRIMARY - true if getting primary day, false if secondary
: 1591      1746 2
: 1592      1747 2 : OUTPUTS:
: 1593      1748 2
: 1594      1749 2     none
: 1595      1750 2
: 1596      1751 2 : ROUTINE VALUE:
: 1597      1752 2
: 1598      1753 2     true -> successful completion
: 1599      1754 2     false -> error in flag name
: 1600      1755 2 --
: 1601      1756 2
: 1602      1757 2 local
: 1603      1758 2     status,
: 1604      1759 2     keyword_dsc      : vector [2],
: 1605      1760 2     no_flag,
: 1606      1761 2     code,                ! return from find_val
: 1607      1762 2     ientry;
: 1608      1763 2
: 1609      1764 2
: 1610      1765 2 : Retrieve keywords as long as any are present
: 1611      1766 2
: 1612      1767 2 while cli$get_value (.qual_name, tokendsc) do
: 1613      1768 2
: 1614      1769 2     begin
: 1615      1770 2     keyword_dsc [0] = .tokenlen;
: 1616      1771 2     keyword_dsc [1] = .tokenptr;
: 1617      1772 2     no_flag = 0;
: 1618      1773 2
: 1619      1774 2
: 1620      1775 2     : Test for presence of 'NO'prefix. If present, adjust descriptor
: 1621      1776 2     to remove it, and set no_flag.
: 1622      1777 2
: 1623      1778 2     if ch$eql (2, .no_dsc [1], 2, .keyword_dsc [1])
: 1624      1779 2     then
: 1625      1780 2
: 1626      1781 2         begin
: 1627      1782 2         keyword_dsc [0] = .keyword_dsc [0] - 2;
: 1628      1783 2         keyword_dsc [1] = .keyword_dsc [1] + 2;
: 1629      1784 2         no_flag = -1;

```

```

: 1630      1785      3      end,
: 1631      1786      3      if (status = lib$lookup_key (keyword_dsc, opflag_table, code))
: 1632      1787      4      then
: 1633      1788      3      |
: 1634      1789      3      | valid flag, set bit
: 1635      1790      3      |
: 1636      1791      3      | case .code from uaf$k_disdialup to uaf$k_disnetwork of
: 1637      1792      3      | set
: 1638      1793      3      | [uaf$k_disdialup]:
: 1639      1794      3      | begin
: 1640      1795      4      |   if .primary
: 1641      1796      4      |   then recbuf[uaf$b_dialup_access_p] = not .no_flag
: 1642      1797      4      |   else recbuf[uaf$b_dialup_access_s] = not .no_flag;
: 1643      1798      4      |   end;
: 1644      1799      3      | [uaf$k_disnetwork]:
: 1645      1800      3      | begin
: 1646      1801      4      |   if .primary
: 1647      1802      4      |   then recbuf[uaf$b_remote_access_p] = not .no_flag
: 1648      1803      4      |   else recbuf[uaf$b_remote_access_s] = not .no_flag;
: 1649      1804      4      |   end;
: 1650      1805      3      | tes
: 1651      1806      3      | else
: 1652      1807      3      |   select .status of
: 1653      1808      3      |   set
: 1654      1809      3      |   |
: 1655      1810      3      |   | ambiguous keyword?
: 1656      1811      3      |   | [lib$_ambkey] : signal (cli$_abkeyw);
: 1657      1812      3      |   |
: 1658      1813      3      |   | unrecognized keyword?
: 1659      1814      3      |   | [lib$_unrkey] : signal (cli$_ivkeyw);
: 1660      1815      3      |   | whatever, always return an error if we're in here
: 1661      1816      3      |   | [always]      : return false;
: 1662      1817      3      |   | tes;
: 1663      1818      3      |   |
: 1664      1819      3      |   |
: 1665      1820      3      |   |
: 1666      1821      3      |   |
: 1667      1822      3      |   |
: 1668      1823      3      |   |
: 1669      1824      2      | end;
: 1670      1825      2      |
: 1671      1826      2      | return true;
: 1672      1827      1      | end;

```

```

                                003C 00000      .ENTRY  GETPFLAGS, Save R2,R3,R4,R5      : 1729
55 00000000G 00 9E 00002      MOVAB   LIB$SIGNAL, R5
54 00000000G 00 9E 00009      MOVAB   RECBUF+490, R4
5E                                0C C2 00010      SUBL2   #12, SP
                                00 9F 00013 1$:      PUSHAB  TOKENDSC
                                04 AC DD 00019      PUSHL   QUAL_NAME
00000000G 00 02 FB 0001C      CALLS   #2, [LIB$GET_VALUE]
                                50 E8 00023      BLBS    R0, 2$
                                009F 31 00026      BRW     12$

```

1767

getpflags - get old per day login flags

8  
2-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

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

	04	AE	00000000G	00	3C	00029	2\$:	MOVZWL	TOKENLEN, KEYWORD_DSC	1770	
	08	AE	00000000G	00	D0	00031		MOVL	TOKENPTR, KEYWORD_DSC+4	1771	
				52	D4	00039		CLRL	NO_FLAG	1772	
	08	50	00000000'	00	D0	0003B		MOVL	NO_DSC+4, R0	1778	
		BE		60	B1	00042		CMPW	(R0), @KEYWORD_DSC+4		
				08	12	00046		BNEQ	3\$		
	04	AE		02	C2	00048		SUBL2	#2, KEYWORD_DSC	1782	
	08	AE		02	C0	0004C		ADDL2	#2, KEYWORD_DSC+4	1783	
		52		01	CE	00050		MNEGL	#1, NO_FLAG	1784	
			00000000'	5E	DD	00053	3\$:	PUSHL	SP	1787	
			OC	00	9F	00055		PUSHAB	OPFLAG TABLE		
				AE	9F	0005B		PUSHAB	KEYWORD_DSC		
	00000000G	00		03	FB	0005E		CALLS	#3, LIB\$LOOKUP_KEY		
		53		50	D0	00065		MOVL	R0, STATUS		
		37		53	E9	00068		BLBC	STATUS, 10\$		
		51	00000000'	00	D0	0006B		MOVL	PRIMARY, R1	1796	
		50		52	D2	00072		MCOML	NO_FLAG, R0	1797	
	01	01		6E	CF	00075		CASEL	CODE, #1, #1	1792	
		0016		0004		00079	4\$:	.WORD	5\$-4\$, -		
									8\$-4\$		
				51	E9	0007D	5\$:	BLBC	R1, 7\$	1796	
64	18	00		50	F0	00080		INSV	R0, #0, #24, RECBUF+490	1797	
				8C	11	00085	6\$:	BRB	1\$		
03	A4	18	00	50	F0	00087	7\$:	INSV	R0, #0, #24, RECBUF+493	1798	
				84	11	0008D		BRB	1\$	1792	
			08	51	E9	0008F	8\$:	BLBC	R1, 9\$	1802	
06	A4	18	00	50	F0	00092		INSV	R0, #0, #24, RECBUF+496	1803	
				EB	11	00098		BRB	6\$		
09	A4	18	00	50	F0	0009A	9\$:	INSV	R0, #0, #24, RECBUF+499	1804	
				E3	11	000A0		BRB	6\$	1792	
		00000000G	8F	53	D1	000A2	10\$:	CMPL	STATUS, #LIB\$_AMBKEY	1813	
				09	12	000A9		BNEQ	11\$		
			00000000G	8F	DD	000AB		PUSHL	#CLIS_ABKEYW		
		65		01	FB	000B1		CALLS	#1, LIB\$SIGNAL		
		00000000G	8F	53	D1	000B4	11\$:	CMPL	STATUS, #LIB\$_UNRKEY	1817	
				0F	12	000BB		BNEQ	13\$		
			00000000G	8F	DD	000BD		PUSHL	#CLIS_IVKEYW		
		65		01	FB	000C3		CALLS	#1, LIB\$SIGNAL		
				04	11	000C6		BRB	13\$	1821	
				50	01	D0	000C8	12\$:	MOVL	#1, R0	1826
					04	000CB		RET			
				50	D4	000CC	13\$:	CLRL	R0	1827	
				04	000CE			RET			

; Routine Size: 207 bytes, Routine Base: \$CODE\$ + 0D2F

```

1674 1828 1 %sbttl 'getrestrict - parse hourly restriction ranges'
1675 1829 1 global routine getrestrict (qual_name) =
1676 1830 2 begin
1677 1831 2
1678 1832 2 :++
1679 1833 2
1680 1834 2 FUNCTIONAL DESCRIPTION:
1681 1835 2
1682 1836 2 Parse hourly login restrictions for primary or secondary days
1683 1837 2
1684 1838 2 INPUTS:
1685 1839 2
1686 1840 2 qual_name - descriptor of qualifier name to use
1687 1841 2
1688 1842 2 IMPLICIT INPUTS:
1689 1843 2
1690 1844 2
1691 1845 2 OUTPUTS:
1692 1846 2
1693 1847 2 none
1694 1848 2
1695 1849 2 ROUTINE VALUE:
1696 1850 2
1697 1851 2 true -> successful completion
1698 1852 2 false -> error in flag name
1699 1853 2 --
1700 1854 2
1701 1855 2 : Initialize output values.
1702 1856 2
1703 1857 2
1704 1858 2 primary_access = 0;
1705 1859 2 secondary_access = 0;
1706 1860 2
1707 1861 2
1708 1862 2 : Fetch value list items and parse them.
1709 1863 2
1710 1864 2 while true
1711 1865 2 do
1712 1866 2 begin
1713 1867 2 if not cli$get_value (.qual_name, tokendsc)
1714 1868 2 then exitloop;
1715 1869 2
1716 1870 2 tparse_block[tpa$l_stringcnt] = .tokenlen;
1717 1871 2 tparse_block[tpa$l_stringptr] = .tokenptr;
1718 1872 2 if not lib$tparse (tparse_block, access_states, access_keys)
1719 1873 2 then return LIB$SIGNAL(UAF$BADVALUE, 2, .tokenlen, .tokenptr);
1720 1874 2 end;
1721 1875 2
1722 1876 2
1723 1877 2 : Write the modified fields into the UAF record.
1724 1878 2
1725 1879 2 if not .secondary
1726 1880 2 then
1727 1881 2 begin
1728 1882 2 recbuf[uaf$b_network_access_p] = .primary_access;
1729 1883 2 recbuf[uaf$b_batch_access_p] = .primary_access;
1730 1884 2 recbuf[uaf$b_local_access_p] = .primary_access;

```

```

: 1731 1885 3      recbuf[uaf$b_dialup_access_p] = .primary_access;
: 1732 1886 3      recbuf[uaf$b_remote_access_p] = .primary_access;
: 1733 1887 3      end
: 1734 1888 3      else
: 1735 1889 3      begin
: 1736 1890 3      recbuf[uaf$b_network_access_s] = .secondary_access;
: 1737 1891 3      recbuf[uaf$b_batch_access_s] = .secondary_access;
: 1738 1892 3      recbuf[uaf$b_local_access_s] = .secondary_access;
: 1739 1893 3      recbuf[uaf$b_dialup_access_s] = .secondary_access;
: 1740 1894 3      recbuf[uaf$b_remote_access_s] = .secondary_access;
: 1741 1895 3      end;
: 1742 1896 3
: 1743 1897 2      true
: 1744 1898 1      end;

```

				003C 00000	.ENTRY	GETRESTRICT, Save R2,R3,R4,R5	1829
		55	00000000G	00 9E 00002	MOVAB	TOKENPTR, R5	
		54	00000000G	00 9E 00009	MOVAB	TOKENLEN, R4	
		53	00000000'	00 9E 00010	MOVAB	PRIMARY_ACCESS, R3	
		52	00000000G	00 9E 00017	MOVAB	RECBUF+472, R2	
				63 7C 0001E	CLRQ	PRIMARY_ACCESS	1858
			00000000G	00 9F 00020	PUSHAB	TOKENDST	1867
			04	AC DD 00026	PUSHL	QUAL_NAME	
		00000000G	00	02 FB 00029	CALLS	#2, CLISGET_VALUE	
		36		50 E9 00030	BLBC	R0, 2\$	
	D4	A3		64 3C 00033	MOVZWL	TOKENLEN, TPARSE_BLOCK+8	1870
	D8	A3		65 D0 00037	MOVL	TOKENPTR, TPARSE_BLOCK+12	1871
			00000000'	00 9F 0003B	PUSHAB	ACCESS_KEYS	1872
			00000000'	00 9F 00041	PUSHAB	ACCESS_STATES	
			CC	A3 9F 00047	PUSHAB	TPARSE_BLOCK	
		00000000G	00	03 FB 0004A	CALLS	#3, LIBSTPARSE	
		CC		50 E8 00051	BLBS	R0, 1\$	
				65 DD 00054	PUSHL	TOKENPTR	1873
		7E		64 3C 00056	MOVZWL	TOKENLEN, -(SP)	
				02 DD 00059	PUSHL	#2	
		00000000G	00	8F DD 0005B	PUSHL	#UAF\$ BADVALUE	
				04 FB 00061	CALLS	#4, LIBSSIGNAL	
				04 00068	RET		
		22	10	A3 E8 00069	BLBS	SECONDARY, 3\$	1879
		50		63 D0 0006D	MOVL	PRIMARY_ACCESS, R0	1882
	06	A2	18	50 F0 00070	INSV	R0, #0, #24, RECBUF+472	
	0C	A2	18	50 F0 00075	INSV	R0, #0, #24, RECBUF+478	1883
	12	A2	18	50 F0 0007B	INSV	R0, #0, #24, RECBUF+484	1884
	1E	A2	18	50 F0 00081	INSV	R0, #0, #24, RECBUF+490	1885
				50 F0 00087	INSV	R0, #0, #24, RECBUF+496	1886
				22 11 0008C	BRB	4\$	1879
		50	04	A3 D0 0008F	MOVL	SECONDARY_ACCESS, R0	1890
	03	A2	18	50 F0 00093	INSV	R0, #0, #24, RECBUF+475	
	09	A2	18	50 F0 00099	INSV	R0, #0, #24, RECBUF+481	1891
	0F	A2	18	50 F0 0009F	INSV	R0, #0, #24, RECBUF+487	1892
	15	A2	18	50 F0 000A5	INSV	R0, #0, #24, RECBUF+493	1893
	1B	A2	18	50 F0 000AB	INSV	R0, #0, #24, RECBUF+499	1894
				01 D0 000B1	MOVL	#1, R0	1898



UAFPARSE  
V04-001

getrestrict - parse hourly restriction ranges

H 8  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

VAX-11 BI ss-32 V4.0-742  
[UAF.BUGSRC]UAFPARSE.B32;1

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(15)

04 000B4

RET

; Routine Size: 181 bytes. Routine Base: \$CODE\$ + 0DFE

UA  
VC

.....

```

getprimedays - get primary day list

: 1746 1899 1 %sbttl 'getprimedays - get primary day list'
: 1747 1900 1 global routine getprimedays =
: 1748 1901 2 begin
: 1749 1902 2
: 1750 1903 2 :++
: 1751 1904 2
: 1752 1905 2 FUNCTIONAL DESCRIPTION:
: 1753 1906 2
: 1754 1907 2     Get list of day considered prime days.
: 1755 1908 2
: 1756 1909 2 INPUTS:
: 1757 1910 2
: 1758 1911 2     none
: 1759 1912 2
: 1760 1913 2 IMPLICIT INPUTS:
: 1761 1914 2
: 1762 1915 2     PDFLAG_TABLE - table of flag bit numbers and ascii names
: 1763 1916 2
: 1764 1917 2 OUTPUTS:
: 1765 1918 2
: 1766 1919 2     none
: 1767 1920 2
: 1768 1921 2 ROUTINE VALUE:
: 1769 1922 2
: 1770 1923 2     true -> successful completion
: 1771 1924 2     false -> error in flag name
: 1772 1925 2 --
: 1773 1926 2
: 1774 1927 2 local
: 1775 1928 2     status,
: 1776 1929 2     keyword_dsc      : vector [2],
: 1777 1930 2     no_flag,
: 1778 1931 2     code,              ! return from find_val
: 1779 1932 2     ientry;
: 1780 1933 2
: 1781 1934 2
: 1782 1935 2     Retrieve keywords as long as they are present
: 1783 1936 2
: 1784 1937 2 while cli$get_value (sd_primedays, tokendsc) do
: 1785 1938 2
: 1786 1939 2     begin
: 1787 1940 2     keyword_dsc [0] = .tokenlen;
: 1788 1941 2     keyword_dsc [1] = .tokenptr;
: 1789 1942 2     no_flag = false;
: 1790 1943 2
: 1791 1944 2
: 1792 1945 2     Test for presence of the 'NO' prefix.  If present, adjust the
: 1793 1946 2     descriptor to remove it, and set no_flag
: 1794 1947 2
: 1795 1948 2     if ch$eql (2, .no_dsc [1], 2, .keyword_dsc [1])
: 1796 1949 2     then
: 1797 1950 2     begin
: 1798 1951 2     keyword_dsc [0] = .keyword_dsc [0] - 2;
: 1799 1952 2     keyword_dsc [1] = .keyword_dsc [1] + 2;
: 1800 1953 2     no_flag = true;
: 1801 1954 2     end;
: 1802 1955 2

```

getprimedays - get primary day list

```

: 1803 1956 4 if (status = lib$lookup_key (keyword_dsc, pdflag_table, code))
: 1804 1957 then
: 1805 1958     valid flag, set bit
: 1806 1959     (recbuf[uaf$b_primedays])<.code,1> = .no_flag
: 1807 1960 else
: 1808 1961     select .status of
: 1809 1962     set
: 1810 1963     ambiguous keyword?
: 1811 1964     [lib$_ambkey] : signal (cli$_abkeyw);
: 1812 1965     unrecognized keyword?
: 1813 1966     [lib$_unrkey] : signal (cli$_ivkeyw);
: 1814 1967     whatever, always return an error if we're in here
: 1815 1968     [always]      : return false;
: 1816 1969     tes;
: 1817 1970
: 1818 1971
: 1819 1972
: 1820 1973
: 1821 1974
: 1822 1975
: 1823 1976
: 1824 1977
: 1825 1978
: 1826 1979     end;
: 1827 1980
: 1828 1981     return true;
: 1829 1982     end;

```

			001C 00000	.ENTRY	GETPRIMEDAYS, Save R2,R3,R4	: 1900
	54	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R4	
	5E		0C C2 00009	SUBL2	#12, SP	
		00000000G	00 9F 0000C	PUSHAB	TOKENDSC	: 1937
		00000000'	00 9F 00012	PUSHAB	SD_PRIMEDAYS	
	00000000G	00	02 FB 00018	CALLS	#2, CLI\$GET_VALUE	
	73		50 E9 0001F	BLBC	R0, 5\$	
	04	AE 00000000G	00 3C 00022	MOVZWL	TOKENLEN, KEYWORD_DSC	: 1940
	08	AE 00000000G	00 D0 0002A	MOVL	TOKENPTR, KEYWORD_DSC+4	: 1941
			52 D4 00032	CLRL	NO_FLAG	: 1942
		50 00000000'	00 D0 00034	MOVL	NO_DSC+4, R0	: 1948
	08	BE	60 B1 0003B	CMPW	(R0), @KEYWORD_DSC+4	
			0B 12 0003F	BNEQ	2\$	
	04	AE	02 C2 00041	SUBL2	#2, KEYWORD_DSC	: 1951
	08	AE	02 C0 00045	ADDL2	#2, KEYWORD_DSC+4	: 1952
		52	01 D0 00049	MOVL	#1, NO_FLAG	: 1953
			5E DD 0004C	PUSHL	SP	: 1956
		00000000'	00 9F 0004E	PUSHAB	PDFLAG_TABLE	
		0C	AE 9F 00054	PUSHAB	KEYWORD_DSC	
	00000000G	00	03 FB 00057	CALLS	#3, LIB\$LOOKUP_KEY	
	53		50 D0 0005E	MOVL	R0, STATUS	
	00000000G	00	53 E9 00061	BLBC	STATUS, 3\$	
00000000G	00	01	52 F0 00064	INSV	NO_FLAG, CODE, #1, RECBUF+514	: 1961
			9D 11 0006D	BRB	1\$	
	00000000G	8F	53 D1 0006F	CMPL	STATUS, #LIB\$_AMBKEY	: 1968

UAFPARSE  
V04-001

getprimedays - get primary day list

K 8  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

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		09	12	00076		BNEQ	4\$
		8F	DD	00078		PUSHL	#CLIS_ARKEYW
	64	01	FB	0007E		CALLS	#1, LIBSSIGNAL
00000000G	8F	53	D1	00081	4\$:	CPL	STATUS, #LIBS_UNRKEY
		0F	12	00088		BNEQ	6\$
		8F	DD	0008A		PUSHL	#CLIS_IVKEYW
	64	01	FB	00090		CALLS	#1, LIBSSIGNAL
		04	11	00093		BRB	6\$
	50	01	D0	00095	5\$:	MOVL	#1, R0
			04	00098		RET	
		50	D4	00099	6\$:	CLRL	R0
			04	0009B		RET	

.....  
 ..... 1972  
 .....  
 ..... 1976  
 ..... 1981  
 ..... 1982  
 .....

; Routine Size: 156 bytes, Routine Base: \$CODE\$ + 0EB3

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getpriv - get process privileges

```

1831 1983 1 %sbttl 'getpriv - get process privileges'
1832 1984 1 global routine getpriv (qual_name, privadr) =
1833 1985 1 begin
1834 1986 1
1835 1987 1 ++
1836 1988 1
1837 1989 1 FUNCTIONAL DESCRIPTION:
1838 1990 1
1839 1991 1 Process privilege mask specification and set or
1840 1992 1 clear proper bits in privilege quadword in RECBUF.
1841 1993 1
1842 1994 1 INPUTS:
1843 1995 1
1844 1996 1 qual_name - descriptor of qualifier name to use
1845 1997 1 privadr - address to store privilege bits
1846 1998 1
1847 1999 1 IMPLICIT INPUTS:
1848 2000 1
1849 2001 1 none
1850 2002 1
1851 2003 1 OUTPUTS:
1852 2004 1
1853 2005 1 none
1854 2006 1
1855 2007 1 IMPLICIT OUTPUTS:
1856 2008 1
1857 2009 1 none
1858 2010 1
1859 2011 1 ROUTINE VALUE:
1860 2012 1
1861 2013 1 true -> input processed successfully
1862 2014 1 false -> error in privilege specification
1863 2015 1
1864 2016 1 SIDE EFFECTS:
1865 2017 1
1866 2018 1 none
1867 2019 1 --
1868 2020 1
1869 2021 1
1870 2022 1 Loop through if this is a list and check all of the names.
1871 2023 1 Set or clear appropriate bits depending on the 'NO' prefix.
1872 2024 1
1873 2025 1
1874 2026 1 while cli$get_value (.qual_name, tokendsc) do
1875 2027 1 begin
1876 2028 1
1877 2029 1 select prv$setpriv (tokendsc, .privadr) of
1878 2030 1
1879 2031 1 set
1880 2032 1
1881 2033 1 Privilege name not found
1882 2034 1
1883 2035 1 [prv$_invnam]:
1884 2036 1 return LIB$SIGNAL(UAF$PRVNOTFND, 2, .tokenlen, .tokenptr);
1885 2037 1
1886 2038 1
1887 2039 1 Privilege name not unique

```

getpriv - get process privileges

M 8  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFPARSE.B32:1

```

: 1888      2040      3
: 1889      2041      |
: 1890      2042      | [priv$notung]:
: 1891      2043      |   return LIB$SIGNAL(UAF$PRVNOTUNG, 2, .tokenlen, .tokenptr);
: 1892      2044      |
: 1893      2045      |   tes:
: 1894      2046      |
: 1895      2047      |   end:
: 1896      2048      | return true;
: 1897      2049      | 1 end;

```

		003C	00000	.ENTRY	GETPRIV, Save R2,R3,R4,R5	: 1984
55	00000000G	00	9E 00002	MOVAB	TOKENDSC, R5	
54	00003000G	00	9E 00009	MOVAB	TOKENLEN, R4	
53	00000000G	00	9E 00010	MOVAB	TOKENPTR, R3	
		55	DD 00017	PUSHL	R5	: 2026
	04	AC	DD 00019	PUSHL	QUAL_NAME	
00000000G	00	02	FB 0001C	CALLS	#2, [LIB\$GET_VALUE	
	45	50	E9 00023	BLBC	R0, 4\$	
	08	AC	DD 00026	PUSHL	PRIVADR	: 2029
		55	DD 00029	PUSHL	R5	
00000000G	00	02	FB 0002B	CALLS	#2, PRV\$SETPRIV	
	52	50	D0 00032	MOVL	R0, R2	
00000000G	8F	52	D1 00035	CML	R2, #PRV\$INVNAM	: 2035
		0F	12 0003C	BNEQ	2\$	
	7E	63	DD 0003E	PUSHL	TOKENPTR	: 2036
		64	3C 00040	MOVZWL	TOKENLEN, -(SP)	
		02	DD 00043	PUSHL	#2	
	00000000G	8F	DD 00045	PUSHL	#UAF\$PRVNOTFND	
		16	11 0004B	BRB	3\$	
00000000G	8F	52	D1 0004D	CML	R2, #PRV\$NOTUNG	: 2041
		C1	12 00054	BNEQ	1\$	
	7E	63	DD 00056	PUSHL	TOKENPTR	: 2042
		64	3C 00058	MOVZWL	TOKENLEN, -(SP)	
		02	DD 0005B	PUSHL	#2	
	00000000G	8F	DD 0005D	PUSHL	#UAF\$PRVNOTUNG	
00000000G	00	04	FB 00063	CALLS	#4, LIB\$SIGNAL	
			04 0006A	RET		
	50	01	D0 0006B	MOVL	#1, R0	: 2048
		04	0006E	RET		: 2049

; Routine Size: 111 bytes, Routine Base: \$CODE\$ + 0F4F

getuic - get user identification code

```

: 1899      2050 1 %sbttl 'getuic - get user identification code'
: 1900      2051 1 global routine getuic =
: 1901      2052 2 begin
: 1902      2053 2
: 1903      2054 2 :++
: 1904      2055 2
: 1905      2056 2 FUNCTIONAL DESCRIPTION:
: 1906      2057 2
: 1907      2058 2     Process UIC specification
: 1908      2059 2
: 1909      2060 2 INPUTS:
: 1910      2061 2
: 1911      2062 2     none
: 1912      2063 2
: 1913      2064 2 OUTPUTS:
: 1914      2065 2
: 1915      2066 2     none
: 1916      2067 2
: 1917      2068 2 ROUTINE VALUE:
: 1918      2069 2
: 1919      2070 2     none
: 1920      2071 2 --
: 1921      2072 2
: 1922      2073 2
: 1923      2074 2 Parse UIC and return error if invalid.
: 1924      2075 2 Do not allow wild card group or member numbers
: 1925      2076 2
: 1926      2077 2
: 1927      2078 2 if not parse_uic (recbuf[uaf$w_grp], recbuf[uaf$w_mem], false)
: 1928      2079 2 then return [IBSSIGNAL(UAF$_UICERR, 2, .tokenlen, .tokenptr);
: 1929      2080 2
: 1930      2081 2 true
: 1931      2082 1 end;

```

			0000 0000	.ENTRY	GETUIC, Save nothing	: 2051
		7E 04	00002	CLRL	-(SP)	: 2078
	00000000G	00 9F	00004	PUSHAB	RECBUF+36	
	00000000G	00 9F	0000A	PUSHAB	RECBUF+38	
00000000V	00	03 FB	00010	CALLS	#3, PARSE_UIC	
	1D	50 E8	00017	BLBS	R0, 1\$	
	00000000G	00 DD	0001A	PUSHL	TOKENPTR	: 2070
	7E 00000000G	00 3C	00020	MOVZWL	TOKENLEN, -(SP)	
		02 DD	00027	PUSHL	#2	
	00000000G	8F DD	00029	PUSHL	#UAF\$ UICERR	
00000000G	00	04 FB	0002F	CALLS	#4, LIBSSIGNAL	
			04 00036	RET		
	50	01 D0	00037 1\$:	MOVL	#1, R0	: 2082
		04	0003A	RET		

: Routine Size: 59 bytes. Routine Base: \$CODE\$ + 0FBE

parse\_uic - obtain UIC group and member

```

: 1933 2083 1 %sbttl 'parse_uic - obtain UIC group and member'
: 1934 2084 1 global routine parse_uic (retgrp, retmem, allow_wild) =
: 1935 2085 2 begin
: 1936 2086 2
: 1937 2087 2 ++
: 1938 2088 2
: 1939 2089 2 FUNCTIONAL DESCRIPTION:
: 1940 2090 2
: 1941 2091 2     Routine to parse and validate a UIC or directory string.
: 1942 2092 2     The UIC is returned as group and member elements.
: 1943 2093 2
: 1944 2094 2 INPUTS:
: 1945 2095 2
: 1946 2096 2     RETGRP       - address of a word to receive the group number
: 1947 2097 2     RETMEM       - address of a word to receive the member number
: 1948 2098 2     ALLOW_WILD   - TRUE => allow wild card group/member numbers
: 1949 2099 2
: 1950 2100 2 IMPLICIT INPUTS:
: 1951 2101 2
: 1952 2102 2     TOKENPTR - address of first character past delimiter
: 1953 2103 2
: 1954 2104 2 OUTPUTS:
: 1955 2105 2
: 1956 2106 2     RETGRP and RETMEM receive group and member numbers if
: 1957 2107 2     no errors are encountered.
: 1958 2108 2
: 1959 2109 2 IMPLICIT OUTPUTS:
: 1960 2110 2
: 1961 2111 2     none
: 1962 2112 2
: 1963 2113 2 ROUTINE VAUE:
: 1964 2114 2
: 1965 2115 2     true -> no errors found
: 1966 2116 2     false -> error in UIC specification
: 1967 2117 2
: 1968 2118 2 SIDE EFFECTS:
: 1969 2119 2
: 1970 2120 2     None
: 1971 2121 2 --
: 1972 2122 2
: 1973 2123 2
: 1974 2124 2 Crank UIC through tparse
: 1975 2125 2
: 1976 2126 2 tparse_block [tpa$l_stringcnt] = .tokenlen;
: 1977 2127 2 tparse_block [tpa$l_stringptr] = .tokenptr;
: 1978 2128 2
: 1979 2129 2 if not lib$tparse (tparse_block, uic_states, uic_keys)
: 1980 2130 2 then return false;
: 1981 2131 2 if .converted_uic<00,16> gtru uic$sk_wild_member
: 1982 2132 2 or .converted_uic<16,16> gtru uic$sk_wild_group
: 1983 2133 2 then return false;
: 1984 2134 2 if not .allow_wild
: 1985 2135 2 then
: 1986 2136 2     if .converted_uic<00,16> eqlu uic$sk_wild_member
: 1987 2137 2     or .converted_uic<16,16> eqlu uic$sk_wild_group
: 1988 2138 2     then return false;
: 1989 2139 2

```



```

: 1990      2140  2  :
: 1991      2141  2  : UIC was successfully parsed. Return correct data, plus true indicator.
: 1992      2142  2  :
: 1993      2143  2  :
: 1994      2144  2  : (.retgrp)<0,16> = .converted_uic<16,16>;
: 1995      2145  2  : (.retmem)<0,16> = .converted_uic<0,16>;
: 1996      2146  2  : return true;
: 1997      2147  1  : end;
    
```

			0004	00000	.ENTRY	PARSE UIC, Save R2	: 2084
			00	9E 00002	MOVAB	CONVERTED_UIC, R2	
E4	A2	00000000G	00	3C 00009	MOVZWL	TOKENLEN, TPARSE_BLOCK+8	: 2126
E8	A2	00000000G	00	D0 00011	MOVL	TOKENPTR, TPARSE_BLOCK+12	: 2127
		00000000'	00	9F 00019	PUSHAB	UIC_KEYS	: 2129
		00000000'	00	9F 0001F	PUSHAB	UIC_STATES	
		DC	A2	9F 00025	PUSHAB	TPARSE_BLOCK	
00000000G	00		03	FB 00028	CALLS	#3, LIB\$TPARSE	
	29		50	E9 0002F	BLBC	R0, 2\$	
	50	02	A2	3C 00032	MOVZWL	CONVERTED_UIC+2, R0	: 2132
3FFF	8F		50	B1 00036	CMPW	R0, #16383	
			1E	1A 00038	BGTRU	2\$	
	0E	0C	AC	E8 0003D	BLBS	ALLOW_WILD, 1\$	: 2134
FFFF	8F		62	B1 00041	CMPW	CONVERTED_UIC, #65535	: 2136
			13	13 00046	BEQL	2\$	
3FFF	8F		50	B1 00048	CMPW	R0, #16383	: 2137
			0C	13 0004D	BEQL	2\$	
04	BC		50	B0 0004F 1\$:	MOVW	R0, @RETGRP	: 2144
08	BC		62	B0 00053	MOVW	CONVERTED_UIC, @RETMEM	: 2145
	50		01	D0 00057	MOVL	#1, R0	: 2146
				04 0005A	RET		
			50	D4 0005B 2\$:	CLRL	R0	: 2147
				04 0005D	RET		

: Routine Size: 94 bytes, Routine Base: \$CODE\$ + 0FF9

```

: 1999      2148  1 %sbttl 'parse_wild - parse wildcarded user specification'
: 2000      2149  1 global routine parse_wild (desc_addr,nulldefault) =
: 2001      2150  2 begin
: 2002      2151  2
: 2003      2152  2 :++
: 2004      2153  2
: 2005      2154  2 : FUNCTIONAL DESCRIPTION:
: 2006      2155  2
: 2007      2156  2     Parse one of six methods by which User Authorization File
: 2008      2157  2     records may be specified. This routine defines boolean
: 2009      2158  2     variables for input to the WILD_USER routine.
: 2010      2159  2
: 2011      2160  2 : INPUTS:
: 2012      2161  2
: 2013      2162  2     DESCADDR      Address of the token string descriptor
: 2014      2163  2     NULLDEFAULT   TRUE => A null user specification defaults to *
: 2015      2164  2
: 2016      2165  2 : IMPLICIT INPUTS:
: 2017      2166  2
: 2018      2167  2     The parsing variables NEXTTOKEN, TOKENLEN, and TOKENPTR are modified.
: 2019      2168  2
: 2020      2169  2 : OUTPUTS:
: 2021      2170  2
: 2022      2171  2     none
: 2023      2172  2
: 2024      2173  2 : IMPLICIT OUTPUTS:
: 2025      2174  2
: 2026      2175  2     The following boolean variables are decided:
: 2027      2176  2
: 2028      2177  2     UIC_FLAG - UIC form (instead of username)
: 2029      2178  2     GRP_WILD - Group wild card (implies UIC_FLAG)
: 2030      2179  2     MEM_WILD - Member wild card (implies UIC_FLAG)
: 2031      2180  2     STR_WILD - all users alphabetically (implies NOT UIC_FLAG)
: 2032      2181  2
: 2033      2182  2     RECBUF - The appropriate keys are initialized
: 2034      2183  2
: 2035      2184  2 : ROUTINE VALUE:
: 2036      2185  2
: 2037      2186  2     If the syntax does not follow one of the six methods the routine
: 2038      2187  2     returns FALSE. The outputs are meaningful only when the value
: 2039      2188  2     returned is TRUE.
: 2040      2189  2
: 2041      2190  2 :--
: 2042      2191  2
: 2043      2192  2 : Identify the next token in the command buffer.
: 2044      2193  2
: 2045      2194  2 :
: 2046      2195  2
: 2047      2196  2 if not cli$present (.desc_addr) or
: 2048      2197  2     not cli$get_value (.desc_addr, tokendsc) or
: 2049      2198  2     .tokenlen eq. 0
: 2050      2199  2 then
: 2051      2200  2     if not .nulldefault
: 2052      2201  2     then
: 2053      2202  2         return LIB$SIGNAL(UAF$_NOUSERSPEC)
: 2054      2203  2     else
: 2055      2204  2     begin

```

```

2056      2205      uic_flag = false;
2057      2206      grp_wild = false;
2058      2207      mem_wild = false;
2059      2208      str_wild = true;
2060      2209      match_token = '*';
2061      2210      match_tokenlen = 1;
2062      2211      return true;
2063      2212      end
2064      2213      else
2065      2214      begin
2066      2215      tokenlen = .tokenlen;
2067      2216      tokenptr = .tokenptr;
2068      2217      end;
2069      2218
2070      2219
2071      2220      :
2072      2221      : Decide whether a UIC or a Username form was used.
2073      2222      :
2074      2223
2075      2224      if .(.tokenptr)<0,8> eql '['
2076      2225      then
2077      2226      begin
2078      2227
2079      2228      if not parse_wild_uic ( .tokenlen, .tokenptr )
2080      2229      then
2081      2230      return LIBSSIGNAL(UAF$_INVUSERSPEC, 2, .tokenlen, .tokenptr);
2082      2231
2083      2232      end
2084      2233      else
2085      2234      begin
2086      2235      uic_flag = false;
2087      2236      grp_wild = false;
2088      2237      mem_wild = false;
2089      2238
2090      2239
2091      2240      : Decide whether or not the Username is wildcarded.
2092      2241      :
2093      2242
2094      2243      if not ch$fail (ch$find_ch (.tokenlen, .tokenptr, '*'))
2095      2244      or
2096      2245      not ch$fail (ch$find_ch (.tokenlen, .tokenptr, '%'))
2097      2246      :
2098      2247      :
2099      2248      .by_account
2100      2249      then
2101      2250      begin
2102      2251      match_tokenlen = .tokenlen;
2103      2252      ch$move (.tokenlen, .tokenptr, match_token);
2104      2253      str_wild = true;
2105      2254      end
2106      2255      else
2107      2256      begin
2108      2257      str_wild = false;
2109      2258      ch$copy (.tokenlen, .tokenptr, %char (' '),
2110      2259      uaf$_username, recbuf[uaf$_username]);
2111      2260      end;
2112      2261      end;

```



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V04-001

parse\_wild - parse wildcarded user specificatio

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8-Jan-1985 17:30:13  
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			51	C4	000C4		CLRL	R1		
			51	D5	000C6	6\$:	TSTL	R1		
			14	13	000C8		BEQL	8\$		
	00000000G	00	57	D0	000CA	7\$:	MOVL	R7,	MATCH_TOKENLEN	2250
		66	57	28	000D1		MOVCS	R7,	(R6),-MATCH_TOKEN	2251
		69	01	D0	000D9		MOVL	#1,	STR_WILD	2252
			0C	11	000DC		BRB	9\$		2243
			69	D4	000DE	8\$:	CLRL	STR_WILD		2256
20		20	57	2C	000E0		MOVCS	R7,	(R6), #32, #32, RECBUF+4	2258
			00		000E5					
			50		000EA	9\$:	MOVL	#1,	R0	2263
			01	D0	000ED		RET			
			04		000ED					

: Routine Size: 238 bytes, Routine Base: \$CODE\$ + 1057

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```

: 2116      2264 1 %sbttl 'parse_wild_uic - parse wildcarded UIC'
: 2117      2265 1 global routine parse_wild_uic ( strlen, strptr ) =
: 2118      2266 2 begin
: 2119      2267 2
: 2120      2268 2 +-
: 2121      2269 2
: 2122      2270 2 FUNCTIONAL DESCRIPTION:
: 2123      2271 2
: 2124      2272 2     Parse the uic methods by which User Authorization File
: 2125      2273 2     records may be specified. This routine defines boolean
: 2126      2274 2     variables for input to the WILD_USER routine.
: 2127      2275 2
: 2128      2276 2 INPUTS:
: 2129      2277 2
: 2130      2278 2     STRLEN  - Length of UIC string
: 2131      2279 2     STRPTR  - Address of UIC string
: 2132      2280 2
: 2133      2281 2 IMPLICIT INPUTS:
: 2134      2282 2
: 2135      2283 2
: 2136      2284 2 OUTPUTS:
: 2137      2285 2
: 2138      2286 2     True  - success
: 2139      2287 2     False - failure
: 2140      2288 2
: 2141      2289 2 IMPLICIT OUTPUTS:
: 2142      2290 2
: 2143      2291 2     The following boolean variables are decided:
: 2144      2292 2
: 2145      2293 2     UIC_FLAG - UIC form (instead of username)
: 2146      2294 2     GRP_WILD - Group wild card (implies UIC_FLAG)
: 2147      2295 2     MEM_WILD - Member wild card (implies UIC_FLAG)
: 2148      2296 2     STR_WILD - all users alphabetically (implies NOT UIC_FLAG)
: 2149      2297 2
: 2150      2298 2     RECBUF - The appropriate keys are initialized
: 2151      2299 2
: 2152      2300 2 ROUTINE VALUE:
: 2153      2301 2
: 2154      2302 2     If the syntax does not follow one of the six methods the routine
: 2155      2303 2     returns FALSE. The outputs are meaningful only when the value
: 2156      2304 2     returned is TRUE.
: 2157      2305 2
: 2158      2306 2 --
: 2159      2307 2
: 2160      2308 2 uic_flag = true;
: 2161      2309 2 str_wild = false;
: 2162      2310 2
: 2163      2311 2
: 2164      2312 2 : Crank UIC through tparse
: 2165      2313 2
: 2166      2314 2 tparse_block [tpa$l_stringcnt] = .strlen;
: 2167      2315 2 tparse_block [tpa$l_stringptr] = .strptr;
: 2168      2316 2
: 2169      2317 2 if not lib$tparse (tparse_block, uic_states, uic_keys)
: 2170      2318 2 then
: 2171      2319 2     return false ;
: 2172      2320 2

```

```

2173 2321 2 |
2174 2322 2 | Decide whether or not the Group subfield is wildcarded.
2175 2323 2 |
2176 2324 2 | if .converted_uic<16,16> eql uic$w_group
2177 2325 2 | then
2178 2326 2 |     begin
2179 2327 2 |         grp_wild = true;
2180 2328 2 |         recbuf[uaf$w_grp] = 0;
2181 2329 2 |     end
2182 2330 2 |
2183 2331 2 | else
2184 2332 2 |     begin
2185 2333 2 |         grp_wild = false;
2186 2334 2 |         recbuf[uaf$w_grp] = .converted_uic<16,16>;
2187 2335 2 |     end;
2188 2336 2 |
2189 2337 2 |
2190 2338 2 | Decide whether or not the Member subfield is wildcarded.
2191 2339 2 |
2192 2340 2 |
2193 2341 2 | if .converted_uic<0,16> eql uic$w_member
2194 2342 2 | then
2195 2343 2 |     begin
2196 2344 2 |         mem_wild = true;
2197 2345 2 |
2198 2346 2 |         |
2199 2347 2 |         | Whether it is wildcarded or not this subfield is initialized
2200 2348 2 |         | for the wildcard processor.
2201 2349 2 |         |
2202 2350 2 |         recbuf[uaf$w_mem] = 0;
2203 2351 2 |         end
2204 2352 2 |     else
2205 2353 2 |     begin
2206 2354 2 |         mem_wild = false;
2207 2355 2 |         recbuf[uaf$w_mem] = .converted_uic<0,16>;
2208 2356 2 |     end;
2209 2357 2 |
2210 2358 2 |
2211 2359 2 | return true ;
2212 2360 1 | end ;

```

```

003C 00000
55 00000000G 00 9E 00002
54 00000000G 00 9E 00009
53 00000000G 00 9E 00010
52 00000000' 00 9E 00017
00000000G 00 01 D0 0001E
00000000G 00 04 D4 00025
E4 A2 04 AC 7D 0002B
00000000' 00 9F 00030
00000000' 00 9F 00036
DC A2 9F 0003C
00000000G 00 03 FB 0003F

```

```

.ENTRY PARSE WILD UIC, Save R2,R3,R4,R5
MOVAB MEM_WILD, R5
MOVAB GRP_WILD, R4
MOVAB RECBUF+38, R3
MOVAB CONVERTED_UIC, R2
MOVL #1, UIC_FLAG
CLRL STR_WILD
MOVQ STRLEN, TPARSE_BLOCK+8
PUSHAB UIC_KEYS
PUSHAB UIC_STATES
PUSHAB TPARSE_BLOCK
CALLS #3, LIB$TPARSE

```

2265  
2308  
2309  
2314  
2317

	33		50	E9	00046	BLBC	RO, 5\$	
	50		A2	3C	00049	MOVZWL	CONVERTED UIC+2, RO	2324
3FFF	8F	02	50	B1	0004D	CMPW	RO, #16383	
			07	12	00052	BNEQ	1\$	
	64		01	D0	00054	MOVL	#1, GRP_WILD	2327
			63	B4	00057	CLRW	RECBUF+38	2328
			05	11	00059	BRB	2\$	2329
			64	D4	0005B	1\$: CLRL	GRP_WILD	2330
	63		50	B0	0005D	MOVW	RO, -RECBUF+38	2331
	50		62	3C	00060	2\$: MOVZWL	CONVERTED UIC, RO	2332
FFFF	8F		50	B1	00063	CMPW	RO, #65535	2333
			08	12	00068	BNEQ	3\$	2334
	65		01	D0	0006A	MOVL	#1, MEM_WILD	2344
		FE	A3	B4	0006C	CLRW	RECBUF+36	2351
			06	11	00070	BRB	4\$	2352
			65	D4	00072	3\$: CLRL	MEM_WILD	2353
FE	A3		50	B0	00074	MOVW	RO, -RECBUF+36	2354
	50		01	D0	00078	4\$: MOVL	#1, RO	2355
				04	0007B	RET		2356
			50	D4	0007C	5\$: CLRL	RO	2360
				04	0007E	RET		

; Routine Size: 127 bytes, Routine Base: \$CODE\$ + 1145



```

getstring - get string from input

: 2214 2361 1 %sbttl 'getstring - get string from input'
: 2215 2362 1 global routine getstring (addr, maxsize, type) =
: 2216 2363 2 begin
: 2217 2364 2
: 2218 2365 2 ++
: 2219 2366 2
: 2220 2367 2 FUNCTIONAL DESCRIPTION:
: 2221 2368 2
: 2222 2369 2 This routine reads a string variable and stores it as
: 2223 2370 2 a blank filled or counted string in the field supplied.
: 2224 2371 2 The first character is checked to see if it is a quote
: 2225 2372 2 or double quote and if so, a different terminator
: 2226 2373 2 set is used so that embedded blanks may be contained
: 2227 2374 2 in the string.
: 2228 2375 2
: 2229 2376 2 INPUTS:
: 2230 2377 2
: 2231 2378 2 ADDR - address to store string
: 2232 2379 2 MAXSIZE - size of field in which string will be stored.
: 2233 2380 2 If this is a counted string, the maximum input
: 2234 2381 2 acceptable is MAXSIZE - 1
: 2235 2382 2 TYPE - string type, either COUNTED_STRING or FILLED_STRING
: 2236 2383 2
: 2237 2384 2 IMPLICIT INPUTS:
: 2238 2385 2
: 2239 2386 2 none
: 2240 2387 2
: 2241 2388 2 OUTPUTS:
: 2242 2389 2
: 2243 2390 2 none
: 2244 2391 2
: 2245 2392 2 IMPLICIT OUTPUTS:
: 2246 2393 2
: 2247 2394 2 none
: 2248 2395 2
: 2249 2396 2 ROUTINE VALUE:
: 2250 2397 2
: 2251 2398 2 true -> string inserted successfully
: 2252 2399 2 false -> string too long
: 2253 2400 2
: 2254 2401 2 SIDE EFFECTS:
: 2255 2402 2
: 2256 2403 2 none
: 2257 2404 2 --
: 2258 2405 2
: 2259 2406 2
: 2260 2407 2 if .type eql counted_string
: 2261 2408 2 then
: 2262 2409 2 maxsize = .maxsize - 1;
: 2263 2410 2
: 2264 2411 2 if .tokenlen gtr .maxsize
: 2265 2412 2 then
: 2266 2413 2 return
: 2267 2414 2 LIBSSIGNAL(UAF$_INVSTR, 2, .tokenlen, .tokenptr);
: 2268 2415 2
: 2269 2416 2 if .type eql counted_string
: 2270 2417 2 then

```

```

: 2271      2418 3      begin
: 2272      2419 3      (.addr)<0,8> = .tokenlen;
: 2273      2420 3      ch$copy (.tokenlen, .tokenptr, %char (blank),
: 2274      2421 3      .maxsize-1, .addr+1);
: 2275      2422 3      end
: 2276      2423 2      else
: 2277      2424 2      ch$copy (.tokenlen, .tokenptr, %char (blank),
: 2278      2425 2      .maxsize, .addr);
: 2279      2426 2      return true;
: 2280      2427 1      end;

```

				00FC 00000	.ENTRY	GETSTRING, Save R2,R3,R4,R5,R6,R7	: 2362
	57	00000000G	00	9E C0002	MOVAB	TOKENLEN, R7	
	56	00000000G	00	9E 00009	MOVAB	TOKENPTR, R6	
			54	D4 00010	CLRL	R4	: 2407
	01	0C	AC	D1 00012	CMPL	TYPE, #1	
			05	12 00016	BNEQ	1\$	
			54	D6 00018	INCL	R4	
		08	AC	D7 0001A	DECL	MAXSIZE	: 2409
	50		67	3C 0001D	MOVZWL	TOKENLEN, R0	: 2411
	08	AC	50	D1 00020	CMPL	R0, MAXSIZE	
			14	15 00024	BLEQ	2\$	
			66	DD 00026	PUSHL	TOKENPTR	: 2414
			50	DD 00028	PUSHL	R0	
			02	DD 0002A	PUSHL	#2	
		00000000G	00	8F DD 0002C	PUSHL	#UAF\$ INVSTR	
			04	FB 00032	CALLS	#4, LIB\$SIGNAL	
			04	00039	RET		
	50		04	AC D0 0003A	MOVL	ADDR, R0	: 2419
	52		67	3C 0003E	MOVZWL	TOKENLEN, R2	
	53		66	D0 00041	MOVL	TOKENPTR, R3	: 2420
	11		54	E9 00044	BLBC	R4, 3\$	
	60		52	90 00047	MOVB	R2, (R0)	: 2419
	51	08	01	C3 0004A	SUBL3	#1, MAXSIZE, R1	: 2421
	20		52	2C 0004F	MOVCS	R2, (R3), #32, R1, 1(R0)	
			01	A0 00054			
			07	11 00056	BRB	4\$	: 2416
08	AC	20	63	52 2C 00058	MOVCS	R2, (R3), #32, MAXSIZE, (R0)	: 2425
			60	0005E			
			50	01 D0 0005F	MOVL	#1, R0	: 2426
			04	00062	RET		: 2427

; Routine Size: 99 bytes, Routine Base: \$CODE\$ + 11C4

```

2282 2428 1 %sbttl 'getval - get numeric value from user'
2283 2429 1 global routine getval (addr, size) =
2284 2430 2 begin
2285 2431 2
2286 2432 2 :++
2287 2433 2
2288 2434 2 :
2289 2435 2 :
2290 2436 2 :   FUNCTIONAL DESCRIPTION:
2291 2437 2 :       Routine to return binary value for next ASCII decimal
2292 2438 2 :       number in the input stream.
2293 2439 2 :
2294 2440 2 :   INPUTS:
2295 2441 2 :       ADDR - address to return converted value
2296 2442 2 :       SIZE - size in bits of field in which to return value
2297 2443 2 :
2298 2444 2 :   IMPLICIT INPUTS:
2299 2445 2 :
2300 2446 2 :       NEXTTOKEN - contains address of delimiter preceding the number
2301 2447 2 :
2302 2448 2 :   OUTPUTS:
2303 2449 2 :
2304 2450 2 :       field described by ADDR and SIZE receives binary value
2305 2451 2 :
2306 2452 2 :   IMPLICIT OUTPUTS:
2307 2453 2 :
2308 2454 2 :       none
2309 2455 2 :
2310 2456 2 :   ROUTINE VALUE:
2311 2457 2 :
2312 2458 2 :       true -> value converted successfully
2313 2459 2 :       false -> non-numeric character encountered before next
2314 2460 2 :       delimiter found
2315 2461 2 :
2316 2462 2 :   SIDE EFFECTS:
2317 2463 2 :
2318 2464 2 :       If error is encountered, an error message will be printed.
2319 2465 2 :
2320 2466 2 :--
2321 2467 2 :
2322 2468 2 :local
2323 2469 2 :   value;                                ! for value returned
2324 2470 2 :                                           ! by CVTNUM routine
2325 2471 2 :
2326 2472 2 :
2327 2473 2 :   Check for no value supplied
2328 2474 2 :
2329 2475 2 :
2330 2476 2 :   if .tokenlen eql 0
2331 2477 2 :   then
2332 2478 2 :       return LIBSSIGNAL(UAF$_NOARG, 2, .tokenlen, .tokenptr);
2333 2479 2 :
2334 2480 2 :
2335 2481 2 :   Convert to decimal. Report error if any non- numerics encountered.
2336 2482 2 :
2337 2483 2 :
2338 2484 2 :   if not cvtnum (.tokenlen, .tokenptr, 10, value)

```

```

2339 2485 2 then
2340 2486     return LIBSSIGNAL(UAF$_BADVALUE, 2, .tokenlen, .tokenptr);
2341 2487
2342 2488
2343 2489     ; Check that the value supplied is within the size of
2344 2490     ; the field to be stored.
2345 2491
2346 2492
2347 2493     if .value<.size - 1, 32 - .size + 1> neq 0
2348 2494     then
2349 2495         return LIBSSIGNAL(UAF$_VALTOOBIG, 2, .tokenlen, .tokenptr);
2350 2496
2351 2497     ;
2352 2498     ; Finally, store the value in field specified .
2353 2499     ;
2354 2500
2355 2501     (.addr)<0, .size> = .value;
2356 2502
2357 2503     return true;
2358 2504 1 end;

```

				001C 00000	.ENTRY GETVAL, Save R2,R3,R4	2429
	54	00000000G	00	9E 00002	MOVAB TOKENLEN, R4	
	53	00000000G	00	9E 00009	MOVAB TOKENPTR, R3	
	5E		04	C2 00010	SUBL2 #4, SP	
	50		64	3C 00013	MOVZWL TOKENLEN, R0	2476
			0E	12 00016	BNEQ 1\$	
			63	DD 00018	PUSHL TOKENPTR	2478
			50	DD 0001A	PUSHL R0	
			02	DD 0001C	PUSHL #2	
		00000000G	8F	DD 0001E	PUSHL #UAF\$_NOARG	
			40	11 00024	BRB 3\$	
			5E	DD 00026	PUSHL SP	2484
			0A	DD 00028	PUSHL #10	
			63	DD 0002A	PUSHL TOKENPTR	
		7E	64	3C 0002C	MOVZWL TOKENLEN, -(SP)	
		00000000V	00	04 FB 0002F	CALLS #4, CVTNUM	
			0F	50 EB 00036	BLBS R0, 2\$	
			63	DD 00039	PUSHL TOKENPTR	2486
			7E	64 3C 0003B	MOVZWL TOKENLEN, -(SP)	
			02	DD 0003E	PUSHL #2	
		00000000G	8F	DD 00040	PUSHL #UAF\$_BADVALUE	
			1E	11 00046	BRB 3\$	
	52	08 AC	01	C3 00048	SUBL3 #1, SIZE, R2	2493
	50		AC	C3 0004D	SUBL3 SIZE, #3\$, R0	
51	6E	50 08	52	EF 00052	EXTZV R2, R0, VALUE, R1	
			15	13 00057	BEQL 4\$	
			63	DD 00059	PUSHL TOKENPTR	2495
			7E	64 3C 0005B	MOVZWL TOKENLEN, -(SP)	
			02	DD 0005E	PUSHL #2	
		00000000G	8F	DD 00060	PUSHL #UAF\$_VALTOOBIG	
			04	FB 00066	CALLS #4, LIBSSIGNAL	
			04	0006D	RET	

UAFPARSE  
V04-001

getval - get numeric value from user

B 10

8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

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

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04	BC	08	AC	00	6E	FO	0006E	48:	INSV	VALUE, #0, SIZE, @ADDR
				50	01	DO	00075		MOVL	#1, R0
						04	00078		RET	

: 2501  
: 2503  
: 2504

; Routine Size: 121 bytes, Routine Base: \$CODE\$ + 1227

UAF  
VC

.....

cvtnum - convert decimal ascii to binary

```

: 2360      2505 1 %sbttl 'cvtnum - convert decimal ascii to binary'
: 2361      2506 1 routine cvtnum (size, adr, radix, valadr) =
: 2362      2507 2 begin
: 2363      2508 2
: 2364      2509 2  **
: 2365      2510 2
: 2366      2511 2  FUNCTIONAL DESCRPTION:
: 2367      2512 2
: 2368      2513 2      Routine to convert ascii digits to binary.
: 2369      2514 2
: 2370      2515 2  INPUTS:
: 2371      2516 2
: 2372      2517 2      SIZE - number of digits in input buffer
: 2373      2518 2      ADR - address of the buffer containing ascii digits
: 2374      2519 2      RADIX - radix of number to be converted
: 2375      2520 2      VALADR - address of longword to receive converted value
: 2376      2521 2
: 2377      2522 2  IMPLICIT INPUTS:
: 2378      2523 2
: 2379      2524 2      none
: 2380      2525 2
: 2381      2526 2  OUTPUTS:
: 2382      2527 2
: 2383      2528 2      longword pointed to by VALADR receives converted value
: 2384      2529 2
: 2385      2530 2  IMPLICIT OUTPUTS:
: 2386      2531 2
: 2387      2532 2      none
: 2388      2533 2
: 2389      2534 2  ROUTINE VALUE:
: 2390      2535 2
: 2391      2536 2      true -> value successfully converted
: 2392      2537 2      false -> non-numeric encountered before end of string
: 2393      2538 2
: 2394      2539 2  SIDE EFFECTS:
: 2395      2540 2
: 2396      2541 2      none
: 2397      2542 2  --
: 2398      2543 2
: 2399      2544 2  bind
: 2400      2545 2      sum = .valadr;          ! address ref scaler
: 2401      2546 2
: 2402      2547 2
: 2403      2548 2  sum = 0;
: 2404      2549 2
: 2405      2550 2  !
: 2406      2551 2  ! Loop thorough buffer. Stop on end of string or non-decimal digit.
: 2407      2552 2  !
: 2408      2553 2
: 2409      2554 2  incr i from .adr to (.adr + .size - 1)
: 2410      2555 2  do
: 2411      2556 2      begin
: 2412      2557 2      local
: 2413      2558 2      digit,
: 2414      2559 2      pointer;
: 2415      2560 2
: 2416      2561 2      digit = .(.i)<0,8>;

```

```

: 2417      2562      3
: 2418      2563      3
: 2419      2564      3
: 2420      2565      3
: 2421      2566      3
: 2422      2567      3
: 2423      2568      3
: 2424      2569      3
: 2425      2570      3
: 2426      2571      3
: 2427      2572      3
: 2428      2573      3
: 2429      2574      3
: 2430      2575      3
: 2431      2576      3

```

```

cvtnum - convert decimal ascii to binary

:
:
:   Check validity of digit depending on radix
:
:   if ch$fail (pointer = ch$find_ch (.radix, numbers, .digit))
:   then
:     return false
:   else
:     sum = (.sum*.radix) + (.pointer - numbers)
:   end;
:
: return true;
: end;

```

				003C 0000	CVTNUM:	.WORD	Save R2,R3,R4,R5		2506
		55	00000000'	00		MOVAB	NUMBERS, R5		
			10	BC	D4	00009	CLRL	@VALADR	2548
54	08	AC	04	AC	C1	0000C	ADDL3	SIZE, ADR, R4	2554
53	08	AC		01	C3	00012	SUBL3	#1, ADR, I	2568
				21	11	00017	BRB	3\$	
		50		63	9A	00019	1\$: MOVZBL	(I), DIGIT	2561
65	0C	AC		50	3A	0001C	LOCC	DIGIT, RADIX, NUMBERS	2568
				02	12	00021	BNEQ	2\$	
				51	D4	00023	CLRL	R1	
				51	D5	00025	2\$: TSTL	POINTER	
				19	13	00027	BEQL	4\$	
52	10	BC	0C	AC	C5	00029	MULL3	RADIX, @VALADR, R2	2572
		50		65	9E	0002F	MOVAB	NUMBERS, R0	
		51		50	C2	00032	SUBL2	R0, R1	
10	BC	52		51	C1	00035	ADDL3	R1, R2, @VALADR	
	DB	53		54	F2	0003A	3\$: AOBLS	R4, I, 1\$	2568
		50		01	D0	0003E	MOVL	#1, R0	2575
					04	00041	RET		
				50	D4	00042	4\$: CLRL	R0	2576
				04	00044		RET		

; Routine Size: 69 bytes, Routine Base: \$CODE\$ + 12A0

```

: 2433      2577 1 %sbttl 'PASSWORD MACROS -- for N-ary passwords'
: 2434      2578 1
: 2435      2579 1  ++
: 2436      2580 1
: 2437      2581 1  FUNCTIONAL DESCRIPTION:
: 2438      2582 1
: 2439      2583 1      These macros and the routines that follow allow for
: 2440      2584 1      the use of any number of passwords. At the time of
: 2441      2585 1      this writing, only two (primary and secondary) pass-
: 2442      2586 1      words were in effect. When a change is made to the
: 2443      2587 1      number of passwords, it will be necessary, only, to
: 2444      2588 1      update the argument list macros below.
: 2445      2589 1
: 2446      2590 1  --
: 2447      2591 1
: 2448      2592 1 macro
: 2449      2593 1
: 2450      2594 1     $NARY_LIST = 'PRIMARY', ',', 'SECONDARY', '2' %;
: 2451      2595 1     $N_LIST   =
: 2452      2596 1
: 2453      2597 1
: 2454      2598 1      The remainder of the text will need no modification for N-ary passwords
: 2455      2599 1
: 2456      2600 1
: 2457      2601 1 macro $PASSWORD(n) = %name('PASSWORD_',n) %;
: 2458      2602 1 macro $PRESENT(n) = %name('PRESENT_',n) %;
: 2459      2603 1
: 2460      M 2604 1 macro OWN_PASSWORD[n] =
: 2461      M 2605 1     own $PASSWORD(n): block[DSC$K_D_BLN, byte]
: 2462      2606 1     preset([DSC$B_CLASS] = DSC$K_CLASS_D); %;
: 2463      2607 1
: 2464      2608 1 OWN_PASSWORD($N_LIST);

```



```

: 2466      2609 1 %sbttl 'UAF$GENERATE -- Generate random passwords'
: 2467      2610 1 routine UAF$GENERATE =
: 2468      2611 2 begin
: 2469      2612 2
: 2470      2613 2 ++
: 2471      2614 2
: 2472      2615 2 FUNCTIONAL DESCRIPTION:
: 2473      2616 2
: 2474      2617 2     Decide which passwords to generate
: 2475      2618 2
: 2476      2619 2 INPUTS:
: 2477      2620 2
: 2478      2621 2     none
: 2479      2622 2
: 2480      2623 2 IMPLICIT INPUTS:
: 2481      2624 2
: 2482      2625 2     CLISGET_VALUE(%ascid'GENERATE_PASSWORD')
: 2483      2626 2
: 2484      2627 2 OUTPUTS:
: 2485      2628 2
: 2486      2629 2     none
: 2487      2630 2
: 2488      2631 2 IMPLICIT OUTPUTS:
: 2489      2632 2
: 2490      2633 2     Places new values in $PASSWORD(n)'s
: 2491      2634 2
: 2492      2635 2 ROUTINE VALUE:
: 2493      2636 2
: 2494      2637 2     none
: 2495      2638 2
: 2496      2639 2 SIDE EFFECTS:
: 2497      2640 2
: 2498      2641 2     none
: 2499      2642 2
: 2500      2643 2 --
: 2501      2644 2
: 2502      2645 2 own WHICH: block[DSC$K_D_BLN, byte] preset([DSC$B_CLASS] = DSC$K_CLASS_D);
: 2503      2646 2
: 2504      M 2647 2 macro ACTIVE_PASSWORD(n) =
: 2505      M 2648 2     ch$neg(%name('UAFSS_PWD',n), RECBUF[%name('UAF$Q_PWD',n)], 0, 0, 0) %;
: 2506      M 2649 2 macro WHICH_EQL[THIS] =
: 2507      M 2650 2     ch$eql( .WHICH[DSC$W_LENGTH], .WHICH[DSC$A_POINTER],
: 2508      M 2651 2         %charcount(THIS), uplit(%ascii %string(THIS)) ) %;
: 2509      M 2652 2 macro GENERATE_NEW_PASSWORD[THIS, n] =
: 2510      M 2653 2     if (ACTIVE_PASSWORD(n) and (FALSE or WHICH_EQL('CURRENT')));
: 2511      M 2654 2     or WHICH_EQL(THIS, 'BOTH' 'ALL') then
: 2512      M 2655 2     AUTHORIZE_GENERATE($PASSWORD(n), uplit(%ascii THIS), % charcount(THIS))
: 2513      M 2656 2     else
: 2514      M 2657 2     $PASSWORD(n)[DSC$W_LENGTH] = 0; %;
: 2515      M 2658 2
: 2516      M 2659 2 CLISGET_VALUE(%ascid'GENERATE_PASSWORD', WHICH);
: 2517      M 2660 2 GENERATE_NEW_PASSWORD($NARY_LIST);
: 2518      M 2661 2
: 2519      M 2662 2 return TRUE;
: 2520      M 2663 2
: 2521      M 2664 2 1 end;

```

```

.PSECT $PLITS,NOWRT,NOEXE,2
4F 57 53 53 41 50 5F 45 54 41 52 45 4E 45 47 004E0 P.AFI: .ASCII \GENERATE_PASSWORD\<0><0><0>
      00 00 00 44 52 004EF
      010E0011 004F4 P.AFH: .LONG 17694737
      00000000' 004F8 .ADDRESS P.AFI
      00 54 4E 45 52 52 55 43 004FC P.AFJ: .ASCII \CURRENT\<0>
      00 59 52 41 4D 49 52 50 00504 P.AFK: .ASCII \PRIMARY\<0>
      48 54 4F 42 0050C P.AFL: .ASCII \BOTH\
      00 4C 4C 41 00510 P.AFM: .ASCII \ALL\<0>
      00 59 52 41 4D 49 52 50 00514 P.AFN: .ASCII \PRIMARY\<0>
      00 54 4E 45 52 52 55 43 0051C P.AFO: .ASCII \CURRENT\<0>
      00 00 00 59 52 41 44 4E 4F 43 45 53 00524 P.AFP: .ASCII \SECONDARY\<0><0><0>
      48 54 4F 42 00530 P.AFQ: .ASCII \BOTH\
      00 00 00 59 52 41 44 4E 4C 4C 41 00534 P.AFR: .ASCII \ALL\<0>
      4F 43 45 53 00538 P.AFS: .ASCII \SECONDARY\<0><0><0>

```

```

.PSECT $OWNS,NOEXE,2
00# 00114 PASSWORD:
      .BYTE 0[3]
02 00117 .BYTE 2
      U0118 .BLKB 4
00# 0011C PASSWORD 2:
      .BYTE 0[3]
02 0011F .BYTE 2
      00120 .BLKB 4
00# 00124 WHICH: .BYTE 0[3]
02 00127 .BYTE 2
      00128 .BLKB 4

```

.PSECT \$CODE\$,NOWRT,2

```

007C 0000 UAF$GENERATE:
      .WORD Save R2,R3,R4,R5,R6
      MOVAB AUTHORIZE_GENERATE, R6
      MOVAB P.AFH, R5
      MOVAB WHICH, R4
      PUSHL R4
      PUSHL R5
      CALLS #2, CLISGET_VALUE
      CMPC5 #8, RECBUF+340, #0, #0, @#^X00000000
      BEQL 1$,
      MOVL WHICH+4, R0
      CMPC5 WHICH, (R0), #0, #7, P.AFJ
      BEQL 2$,
      MOVL WHICH+4, R0
      CMPC5 WHICH, (R0), #0, #7, P.AFK
      BEQL 2$,
      MOVL WHICH+4, R0

```

04	00	60	18	64	2D	00050	CMPCS	WHICH, (R0), #0, #4, P.AFL
				A5		00055		
		50	04	0D	13	00057	BEQL	2\$
03	00	60		A4	D0	00059	MOVL	WHICH+4, R0
			1C	64	2D	0005D	CMPCS	WHICH, (R0), #0, #3, P.AFM
				A5		00062		
				0D	12	00064	BNEQ	3\$
				07	DD	00066	PUSHL	#7
			20	A5	9F	00068	PUSHAB	P.AFN
			F0	A4	9F	0006B	PUSHAB	PASSWORD
		66		03	FB	0006E	CALLS	#3, AUTHORIZE_GENERATE
				03	11	00071	BRB	4\$
			F0	A4	B4	00073	CLRW	PASSWORD
00	00 00000000G	00		08	2D	00076	CMPCS	#8, RECBDF+348, #0, #0, @#^X00000000
		00000000		9F		0007F		
				0D	13	00084	BEQL	5\$
		50	04	A4	D0	00086	MOVL	WHICH+4, R0
07	00	60		64	2D	0008A	CMPCS	WHICH, (R0), #0, #7, P.AFO
				A5		0008F		
			28					
				27	13	00091	BEQL	6\$
		50	04	A4	D0	00093	MOVL	WHICH+4, R0
09	00	60		64	2D	00097	CMPCS	WHICH, (R0), #0, #9, P.AFP
				A5		0009C		
				1A	13	0009E	BEQL	6\$
		50	04	A4	D0	000A0	MOVL	WHICH+4, R0
04	00	60		64	2D	000A4	CMPCS	WHICH, (R0), #0, #4, P.AFO
				A5		000A9		
			3C					
				0D	13	000AB	BEQL	6\$
		50	04	A4	D0	000AD	MOVL	WHICH+4, R0
03	00	60		64	2D	000B1	CMPCS	WHICH, (R0), #0, #3, P.AFR
				A5		000B6		
			40					
				0D	12	000B8	BNEQ	7\$
				09	DD	000BA	PUSHL	#9
			44	A5	9F	000BC	PUSHAB	P.AFS
			F8	A4	9F	000BF	PUSHAB	PASSWORD_2
		66		03	FB	000C2	CALLS	#3, AUTHORIZE_GENERATE
				03	11	000C5	BRB	8\$
			F8	A4	B4	000C7	CLPW	PASSWORD_2
		50		01	D0	000CA	MOVL	#1, R0
				04		000CD	RET	

2662  
2664

; Routine Size: 206 bytes, Routine Base: \$CODE\$ + 12E5

```

: 2523      2665 1 %sbttl 'GETPASSWORD - get user password'
: 2524      2666 1 routine GETPASSWORD =
: 2525      2667 2 begin
: 2526      2668 2
: 2527      2669 2 +-
: 2528      2670 2
: 2529      2671 2 FUNCTIONAL DESCRIPTION:
: 2530      2672 2
: 2531      2673 2     Action routine to process password.
: 2532      2674 2
: 2533      2675 2 INPUTS:
: 2534      2676 2
: 2535      2677 2     none
: 2536      2678 2
: 2537      2679 2 IMPLICIT INPUTS:
: 2538      2680 2
: 2539      2681 2     none
: 2540      2682 2
: 2541      2683 2 OUTPUTS:
: 2542      2684 2
: 2543      2685 2     none
: 2544      2686 2
: 2545      2687 2 IMPLICIT OUTPUTS:
: 2546      2688 2
: 2547      2689 2     sets hashed password field in recbuf
: 2548      2690 2
: 2549      2691 2 ROUTINE VALUE:
: 2550      2692 2
: 2551      2693 2     true -> success
: 2552      2694 2     false -> failure
: 2553      2695 2
: 2554      2696 2 SIDE EFFECTS:
: 2555      2697 2
: 2556      2698 2     none
: 2557      2699 2 --
: 2558      2700 2
: 2559      2701 2     own
: 2560      2702 2
: 2561      2703 2     USER NSC: $bblock[8],
: 2562      2704 2     REC_ * 9YPT_DSC: $bblock[8];
: 2563      2705 2
: 2564      2706 2 macro LOCAL_PRESENT(n) =
: 2565      2707 2     local $PRESENT(n): initial(TRUE); %;
: 2566      2708 2
: 2567      2709 2 LOCAL_PRESENT($N_LIST);
: 2568      2710 2
: 2569      2711 2
: 2570      2712 2     What are the passwords ???
: 2571      2713 2
: 2572      2714 2
: 2573      2715 2 if CLISPRESNT(SD_PASSWORD) eql CLIS_NEGATED then
: 2574      2716 2     begin
: 2575      2717 2         macro BLANK_PASSWORD(n) = $PRESENT(n) = FALSE; %;
: 2576      2718 2         BLANK_PASSWORD($N_LIST);
: 2577      2719 2     end
: 2578      2720 2 else if CLISPRESNT(SD_PASSWORD) then
: 2579      2721 2     begin

```



```

: 2637      2779      2 :
: 2638      2780      2 !
: 2639      2781      2 begin
: 2640      2782      2
: 2641      2783      2     macro MODIFY_PASSWORD[n] =
: 2642      2784      2
: 2643      2785      2         if not .SPRESENT(n) then
: 2644      2786      2             begin ! Blank out the current values
: 2645      2787      2
: 2646      2788      2                 ch$fill(0, %name('UAFSS_PWD',n), RECBUF[%name('UAFSQ_PWD',n)]);
: 2647      2789      2                 ch$fill(0, %name('UAFSS_PWD',n,'_DATE'),
: 2648      2790      2                     RECBUF[%name('UAFSQ_PWD',n,'_DATE')]);
: 2649      2791      2
: 2650      2792      2                 RECBUF[%name('UAFSV_PWD',n,'_EXPIRED')] = FALSE;
: 2651      2793      2                 PWD_FLAG = FALSE;
: 2652      2794      2
: 2653      2795      2             end
: 2654      2796      2         else if .SPASSWORD(n)[DSC$W_LENGTH] neq 0 then
: 2655      2797      2             begin ! Encrypt the new values
: 2656      2798      2
: 2657      2799      2                 RECBUF[%name('UAFSB_ENCRYPT',n)] = ENCRYPT;
: 2658      2800      2                 REC_ENCRYPT_DSC[DSC$W_LENGTH] = %name('UAFSS_FWD',n);
: 2659      2801      2                 REC_ENCRYPT_DSC[DSC$A_POINTER] = RECBUF[%name('UAFSQ_PWD',n)];
: 2660      2802      2                 PWD_FLAG = FALSE;
: 2661      2803      2
: 2662      2804      2                 LGISHPWD(REC_ENCRYPT_DSC, SPASSWORD(n),
: 2663      2805      2                     .RECBUF[%name('UAFSB_ENCRYPT',n)], .RECBUF[UAF$W_SALT],
: 2664      2806      2                     user_dsc);
: 2665      2807      2
: 2666      2808      2                 ch$move( %name('UAFSS_PWD',n,'_DATE'), TIME_BUF,
: 2667      2809      2                     RECBUF[%name('UAFSQ_PWD',n,'_DATE')]);
: 2668      2810      2
: 2669      2811      2             end; %;
: 2670      2812      2
: 2671      2813      2         MODIFY_PASSWORD($N_LIST);
: 2672      2814      2
: 2673      2815      2     end;
: 2674      2816      2
: 2675      2817      2     !
: 2676      2818      2     That's all folks ...
: 2677      2819      2     !
: 2678      2820      2
: 2679      2821      2     return TRUE;
: 2680      2822      2
: 2681      2823      2 ! end;

```

```

.PSECT $OWNS,NOEXE,2
0012C USER_DSC:
        .BLKB 8
00134 REC_ENCRYPT_DSC:
        .BLKB 8
        .EXTRN SYSSGETTIM

```



GETPASSWORD - get user password

M 10

8-Jan-1985 17:30:13  
2-Oct-1984 13:01:i0

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

		52		01	CE	000D9	MNEGL	#1, COUNTER		
				23	11	000DC	BRB	10\$		
		51		6A	9A	000DE	7\$:	MOVZBL	SYMBOL_STR, R1	
		50	OC	A7	DO	000E1	MOVL	PASSWORD_2+4, R0		
	01	AA		6240	3A	000E5	LOCC	(COUNTER)[R0], R1, SYMBOL_STR+1		
		51		02	12	000EB	BNEQ	8\$		
				51	D4	000ED	CLRL	R1		
				51	D5	000EF	8\$:	TSTL	R1	
				0E	12	000F1	BNEQ	10\$		
		00000000G	00	00000000G	8F	DD	000F3	9\$:	PUSHL	#UAF\$ PWDSYNTAX
				01	FB	000F9	CALLS	#1, LIB\$SIGNAL		
					04	00100	RET			
	D9	52		53	F2	00101	10\$:	AOBLS	R3, COUNTER, 7\$	
		16		54	E8	00105	BLBS	PRESENT, 11\$		
08	00	6E		00	2C	00108	MOVCS	#0, (SPT), #0, #8, RECBUF+340		
				EE	AB	0010D				
08	00	6E		00	2C	0010F	MOVCS	#0, (SP), #0, #8, RECBUF+380		
				16	AB	00114				
		6F	AB	02	8A	00116	BICB2	#2, RECBUF+469		
				6B	D4	0011A	CLRL	PWD_FLAG		
				2F	11	0011C	BRB	12\$		
				67	B5	0011E	11\$:	TSTW	PASSWORD_	
				2B	13	00120	BEQL	12\$		
		02	AB	00G	8F	90	00122	MOVW	#ENCRYPT, RECBUF+360	
		20	A7	08	B0	00127	MOVW	#8, REC_ENCRYPT_DSC		
		24	A7	EE	AB	9E	0012B	MOVAB	RECBUF+340, REC_ENCRYPT_DSC+4	
				6B	D4	00130	CLRL	PWD_FLAG		
				18	A7	9F	00132	PUSHAB	USER_DSC	
		7E		68	3C	00135	MOVZWL	RECBUF+358, -(SP)		
		7E		02	AB	9A	00138	MOVZBL	RECBUF+360, -(SP)	
				57	DD	0013C	PUSHL	R7		
				20	A7	7F	0013E	PUSHAB	REC_ENCRYPT_DSC	
	16	AB	00000000G	00	05	FB	00141	CALLS	#5, LGISHPWD	
				69	08	28	00148	MOVCS	#8, TIME_BUF, RECBUF+380	
08	00	16		56	E8	0014D	12\$:	BLBS	PRESENT_2, 13\$	
		6E		00	2C	00150	MOVCS	#0, (SPT), #0, #8, RECBUF+348		
				F6	AB	00155				
08	00	6E		00	2C	00157	MOVCS	#0, (SP), #0, #8, RECBUF+388		
				1E	AB	0015C				
		6F	AB	04	8A	0015E	BICB2	#4, RECBUF+469		
				6B	D4	00162	CLRL	PWD_FLAG		
				31	11	00164	BRB	14\$		
				08	A7	B5	00166	13\$:	TSTW	PASSWORD_2
				2C	13	00169	BEQL	14\$		
		03	AB	00G	8F	90	0016B	MOVW	#ENCRYPT, RECBUF+361	
		20	A7	08	B0	00170	MOVW	#8, REC_ENCRYPT_DSC		
		24	A7	F6	AB	9E	00174	MOVAB	RECBUF+348, REC_ENCRYPT_DSC+4	
				6B	D4	00179	CLRL	PWD_FLAG		
				18	A7	9F	0017B	PUSHAB	USER_DSC	
		7E		68	3C	0017E	MOVZWL	RECBUF+358, -(SP)		
		7E		03	AB	9A	00181	MOVZBL	RECBUF+361, -(SP)	
				08	A7	9F	00185	PUSHAB	PASSWORD_2	
				20	A7	9F	00188	PUSHAB	REC_ENCRYPT_DSC	
	1E	AB	00000000G	00	05	FB	0018B	CALLS	#5, LGISHPWD	
				69	08	28	00192	MOVCS	#8, TIME_BUF, RECBUF+388	
				50	01	DO	00197	14\$:	MOVL	#1, R0
					04	0019A	RET			

2813

2821  
2823



UAFPARSE  
V04-001

GETPASSWORD - get user password

N 10  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10

VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFPARSE.932;1

Page 103  
(27)

; Routine Size: 411 bytes, Routine Base: \$CODE\$ + 13B3

R

UAFPARSE  
V04-001  
GETPASSWORD - get user password  
N 10  
8-Jan-1985 17:30:13  
2-Oct-1984 13:01:10  
VAX-11 Bliss-32 V4.0-742  
[UAF.BUGSRC]UAFPARSE.932;1  
Page 103  
(27)  
; Routine Size: 411 bytes, Routine Base: \$CODE\$ + 13B3





```

2797 2938 3 LISTED = FALSE;
2798 2939 3
2799 2940 3 SYSSQIOW(0, .CHANNEL, IOS_WRITEVBLK, 0,0,0, 0, 0, 0, 32, 0,0);
2800 2941 3
2801 2942 3 GENERATE_PASSWORDS(PWD DSC, HYPH DSC,
2802 2943 3   uplit(MIN), uplit(MAX), uplit(N_WORDS));
2803 2944 3
2804 2945 3 SYSSQIOW(0, .CHANNEL, IOS_WRITEVBLK, 0,0,0, 0, 0, 0, 32, 0,0);
2805 2946 3
2806 2947 3 incr i to N_WORDS-1 do
2807 2948 4   begin
2808 2949 4     DSC[DSC$W_LENGTH] = .PWD[.i, 0, 0, 16, 0];
2809 2950 4     DSC[DSC$A_POINTER] = PWD[.i, 2, 0, 0, 0];
2810 2951 4     STR$UPCASE(DSC, DSC);
2811 2952 4   end;
2812 2953 3
2813 2954 3 while not .LISTED do
2814 2955 4   begin
2815 2956 4
2816 2957 4     SYSSQIOW(0, .CHANNEL, .FUNCTION, IOSB, 0, 0,
2817 2958 4       BUFFER, 127, 0, 0, PROMPT, .PLENGTH);
2818 2959 4
2819 2960 4     if .BUFFER[.IOSB[1]] eql 26 then ! CTRL/Z
2820 2961 4       return LIB$SIGNAL(UAF$PWDNCH, 2, .TLENGTH, .THIS)
2821 2962 4     else if .IOSB[1] eql 0 then
2822 2963 4       exitloop;
2823 2964 4
2824 2965 4     incr i to N_WORDS-1 do
2825 2966 4       LISTED = .LISTED or
2826 2967 4         ch$eql(.IOSB[1], BUFFER,
2827 2968 4           .PWD[.i, 0, 0, 16, 0], PWD[.i, 2, 0, 0, 0]);
2828 2969 4
2829 2970 4     if .LISTED then
2830 2971 5       begin
2831 2972 5         NEW_PASSWORD[DSC$W_LENGTH] = .IOSB[1];
2832 2973 5         LIB$GET_VM(%ref(.IOSB[1]), NEW_PASSWORD[DSC$A_POINTER]);
2833 2974 5         ch$move(.IOSB[1], BUFFER, .NEW_PASSWORD[DSC$A_POINTER]);
2834 2975 5       end
2835 2976 4     else
2836 2977 4       LIB$SIGNAL(UAF$PWDNOL);
2837 2978 4
2838 2979 3     end;
2839 2980 3
2840 2981 2 end;
2841 2982 2
2842 2983 2   that's all folks ...
2843 2984 2
2844 2985 2
2845 2986 2
2846 2987 2   return SYSSDASSGN(.CHANNEL);
2847 2988 2
2848 2989 1 end;

```

.PSECT SPLITS,NOWRT,NOEXE,2

```

00 20 3A 64 72 6F 77 73 73 61 70 20 00544 P.AFT: .ASCII \ password: \<0>
3A 44 4E 41 4D 4D 4F 43 24 53 59 53 00550 P.AFV: .ASCII \SYSSCOMMAND:\
010E000C 0055C P.AFU: .LONG 17694732
00000000' 00560 .ADDRESS P.AFV
00000006 00564 P.AFW: .LONG 6
0000000A 00568 P.AFX: .LONG 10
00000005 0056C P.AFY: .LONG 5

.PSECT $OWNS,NOEXE,2

00# 0013C CHANNEL: .BLKB 4
01 00140 DSC: .BYTE 0[3]
00143 .BYTE 1
00144 .BLKB 4
00000177 00148 FUNCTION:
.LONG 375
0014C PLENGTH: .BLKB 4
20 72 65 74 6E 45 0A 0D 00150 PROMPT: .BYTE 13, 10, 69, 110, 116, 101, 114, 32
00158 .BLKB 37
0017D .BLKB 3
00180 PWD: .BLKB 60
000A 0018C PWD_DSC: .WORD 10
0C 25 001BE .BYTE 37, 12
00000000' 001C0 .ADDRESS PWD
00# 001C4 .BYTE 0[3]
01 001C7 .BYTE 1
00# 001C8 .BYTE 0[4]
00000000' 001CC .ADDRESS PWD-12
00000005 00000001 0000000C 001D0 .LONG 12, 1, 5
001DC HYPH: .BLKB 110
0024A .BLKB 2
0014 0024C HYPH_DSC:
.WORD 20
0C 25 0024E .BYTE 37, 12
00000000' 00250 .ADDRESS HYPH
00# 00254 .BYTE 0[3]
01 00257 .BYTE 1
00# 00258 .BYTE 0[4]
00000000' 0025C .ADDRESS HYPH-22
00000005 00000001 00000016 00260 .LONG 22, 1, 5
0026C BUFFER: .BLKB 128
002EC IOSB: .BLKB 8
002F4 LISTED: .BLKB 4

```

P2= P.AFT

.PSECT \$CODES,NOWRT,2

03FC 0000 AUTHORIZE GENERATE:

```

59 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9 : 2825
58 00000000G 00 9E 00009 MOVAB LIBSSIGNAL, R9
57 00000000' 00 9E 00010 MOVAB SYSSQIOW, R8
56 00000000' 00 9E 00017 MOVAB P2, R7
5E 0' C2 0001E MOVAB CHANNEL, R6
1C A6 08 BC 0C AC 28 00021 SUBL2 #4, SP
MOVCS TLENGTH, @THIS, PROMPT+8 : 2914

```

OC BC4		50	1C	A6	9E	00028	MOVAB	PROMPT+8, R0	2915
10 A	OC	67		0B	28	0002C	MOVCS	#11, P2, @TLENGTH[R0]	
		AC		13	C1	00032	ADDL3	#19, TLENGTH, PLENGTH	2917
				7E	7C	00038	CLRQ	-(SP)	2923
				56	DD	0003A	PUSHL	R6	
	00000000G	00	18	A7	9F	0003C	PUSHAB	P.AFU	
				04	FB	0003F	CALLS	#4, SYSSASSIGN	
				04	BC	B4 00046	CLRW	@NEW_PASSWORD	2924
				04	BC	B5 00049	TSTW	@NEW_PASSWORD	2930
				03	13	0004C	BEQL	2\$	
				0111	31	0004E	BRW	11\$	
			01B8	C6	D4	00051	CLRL	LISTED	2938
				7E	7C	00055	CLRQ	-(SP)	2940
				20	DD	00057	PUSHL	#32	
				7E	7C	00059	CLRQ	-(SP)	
				7E	7C	0005B	CLRQ	-(SP)	
				7E	7C	0005D	CLRQ	-(SP)	
				30	DD	0005F	PUSHL	#48	
				66	DD	0C061	PUSHL	CHANNEL	
				7E	D4	00063	CLRL	-(SP)	
		68		0C	FB	00065	CALLS	#12, SYSSQIOW	
				28	A7	9F 00068	PUSHAB	P.AFY	2943
				24	A7	9F 0006B	PUSHAB	P.AFX	
				20	A7	9F 0006E	PUSHAB	P.AFW	
				0110	C6	9F 00071	PUSHAB	HYPH_DSC	2942
				0080	C6	9F 00075	PUSHAB	PWD_DSC	
	00000000G	00		05	FB	00079	CALLS	#5, GENERATE_PASSWORDS	
				7E	7C	00080	CLRQ	-(SP)	2945
				20	DD	00082	PUSHL	#32	
				7E	7C	00084	CLRQ	-(SP)	
				7E	7C	00086	CLRQ	-(SP)	
				7E	7C	00088	CLRQ	-(SP)	
				30	DD	0008A	PUSHL	#48	
				66	DD	0008C	PUSHL	CHANNEL	
				7E	D4	0008E	CLRL	-(SP)	
		68		0C	FB	00090	CALLS	#12, SYSSQIOW	
				52	D4	00093	CLRL	I	2947
50		52		0C	C5	00095	MULL3	#12, I, R0	2949
				44	A640	9F 00099	PUSHAB	PWD[R0]	
					9E	B0 0009D	MOVW	@(SP)+, DSC	
				46	A640	9E 000A1	MOVAB	PWD+2[R0], DSC+4	2950
				04	A6	9F 000A7	PUSHAB	DSC	2951
				04	A6	9F 000AA	PUSHAB	DSC	
	00000000G	00		02	FB	000AD	CALLS	#2, STR\$UPCASE	
DD		52		04	F3	000B4	AOBLEQ	#4, I, 3\$	2947
		8C		01B8	C6	E8 000B8	BLBS	L' \$TED, 1\$	2954
				10	A6	DD 000BD	PUSHL	PLENGTH	2958
				14	A6	9F 000C0	PUSHAB	PROMPT	2957
				7E	7C	000C3	CLRQ	-(SP)	
		7E		7F	8F	9A 000C5	MOVZBL	#127, -(SP)	
				0150	C6	9F 000C9	PUSHAB	BUFFÉR	
				7E	7C	000CD	CLRQ	-(SP)	
				01B0	C6	9F 000CF	PUSHAB	IOSB	
				0C	A6	DD 000D3	PUSHL	FUNCTION	
				66	DD	000D6	PUSHL	CHANNEL	
				7E	D4	000D8	CLRL	-(SP)	
		68		0C	FB	000DA	CALLS	#12, SYSSQIOW	

E)  
Mc  
--  
VH  
XC  
NE  
BC  
FJ  
CC  
PC  
QV  
DL  
SE  
LJ

			50	01B2	C6	3C	00JDD		MOVZWL	IOSB+2, R0		2960
			1A	0130	C640	91	000E2		CMPB	BUFFER[R0], #26		
						12	000EB		BNEQ	5\$		
				08	AC	DD	000EA		PUSHL	THIS		2961
				0C	AC	DD	000ED		PUSHL	TLENGTH		
						02	000FO		PUSHL	#2		
			69	00000000G	8F	DD	000F2		PUSHL	#UAF\$ PWDNCH		
						04	000FB		CALLS	#4, LIB\$SIGNAL		
						04	000FB		RET			
						50	000FC	5\$:	TSTL	R0		2962
						03	000FE		BNEQ	6\$		
						FF46	00100		BRW	1\$		
						54	00103	6\$:	CLRL	I		2965
	50		54		0C	C5	00105	7\$:	MULL3	#12, I, R0		2968
						55	00109		CLRL	R5		
						44	A640		PUSHAB	PWD[R0]		
9E	00	0130	C6	01B2	C6	2D	0010F		CMPCS	IOSB+2, BUFFER, #0, @(SP)+, PWD+2[R0]		
						46	A640					
						02	0011B		BNEQ	8\$		
						55	0011D		INCL	R5		
						55	0011F	8\$:	BISL2	R5, LISTED		
	DD	01B8	C6			04	F3		AOBLEQ	#4, I, 7\$		2966
						29	01B8		BLBC	LISTED, 9\$		2970
						50	01B2		MOVZWL	IOSB+2, R0		2972
			04	BC		50	B0		MOVW	R0, @NEW PASSWORD		
						52	04		MOVL	NEW PASSWORD, R2		2973
						04	A2		PUSHAB	4(R2)		
			04	AE		50	D0		MOVL	R0, 4(SP)		
						04	AE		PUSHAB	4(SP)		
						02	FB		CALLS	#2, LIB\$GET VM		
	04	B2	0130	C6	01B2	28	0014B		MOVCS	IOSB+2, BUFFER, @4(R2)		2974
						09	11		BRB	10\$		2970
						8F	DD	9\$:	PUSHL	#UAF\$ PWDNOL		2977
			69	00000000G	01	FB	0015C		CALLS	#1, LIB\$SIGNAL		
						FF56	31	10\$:	BRW	4\$		2954
						66	DD	11\$:	PUSHL	CHANNEL		2987
						01	FB		CALLS	#1, SYSSDASSGN		
						04	0016B		RET			2989

: Routine Size: 364 bytes. Routine Base: \$CODE\$ + 154E

: 2849 2990 1  
: 2850 2991 1 end  
: 2851 2992 0 eludom

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
SPLITS	1392	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
SOWNS	760	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

```

: STPA_KEY0          4 NOVEC,NOWRT, RD ; EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: STPA_STATE        158 NOVEC,NOWRT, RD ; EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: STPA_KEY1         19 NOVEC,NOWRT, RD ; EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
: SCODES           5818 NOVEC,NOWRT, RD ; EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

```

Library Statistics

file	Symbols		Percent	Pages Mapped	Processing Time
	Total	Loaded			
_\$255\$DUA18:[SYSLIB]TPAMAC.L32;1	42	30	71	14	00:00.0
_\$255\$DUA18:[SYSLIB]LIB.L32;1	18619	126	0	1000	00:01.7

COMMAND QUALIFIERS

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

```

: Size:           5818 code + 2333 data bytes
: Run Time:       01:16.3
: Elapsed Time:  03:04.9
: Lines/CPU Min: 2354
: Lexemes/CPU-Min: 38424
: Memory Used:   732 pages
: Compilation Complete

```



0451 AH-EF71A-SE  
 VAX/VMS V4.1 SRC LST MCRF UPD

UAFPARSE  
 LIS

BOOTDRUVP  
 LIS

UMBUVAXIP  
 LIS

UVIROM

UMBUVAXIP  
 MAP

CONIO  
 LIS

UVMS

REMOVE  
 COM