


```
1 0001 0 MODULE detached (IDENT = 'V04-000',
2 0002 0 ADDRESSING_MODE(EXTERNAL = GENERAL)) =
3 0003 1 BEGIN
4 0004 1
5 0005 1
6 0006 1 *****
7 0007 1 *
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27 0027 1 *****
28 0028 1
29 0029 1 ++
30 0030 1 FACILITY: Login
31 0031 1
32 0032 1 ABSTRACT:
33 0033 1
34 0034 1 This module handles all processing specific to detached jobs.
35 0035 1
36 0036 1 ENVIRONMENT:
37 0037 1
38 0038 1 VAX/VMS operating system.
39 0039 1
40 0040 1 AUTHOR: Tim Halvorsen, March 1981
41 0041 1
42 0042 1 Modified by:
43 0043 1
44 0044 1 V03-013 MHB0147 Mark Bramhall 7-May-1984
45 0045 1 Guard again no global buffers when opening NETUAF.
46 0046 1
47 0047 1 V03-012 MHB0125 Mark Bramhall 10-Apr-1984
48 0048 1 Set node name, etc. via SET_NODE_NAME.
49 0049 1 Disallow network access to accounts with secondary passwords.
50 0050 1 Fix up network output file name scanning.
51 0051 1
52 0052 1 V03-011 MHB0107 Mark Bramhall 21-Mar-1984
53 0053 1 Use LNM services for logical names.
54 0054 1
55 0055 1 V03-010 PCG0001 Peter George 31-Jan-1984 15:10
56 0056 1 Add secondary password to network processing.
57 0057 1 Correct bug in interpreting batch item list.
```

58	0058	1	
59	0059	1	V03-009 ACG0385 Andrew C. Goldstein, 29-Dec-1983 9:59
60	0060	1	Implement job type in JIB; fix coding of field references
61	0061	1	to proxy file record. Change UAF working set fields
62	0062	1	to longwords.
63	0063	1	
64	0064	1	V03-008 ACG0376 Andrew C. Goldstein, 22-Nov-1983 17:16
65	0065	1	Interface cleanup with VALIDATE UAFREC; fix error handling
66	0066	1	in GET_PROXY. Put batch input file name in PPDST_FILENAME.
67	0067	1	
68	0068	1	V03-007 GAS0183 Gerry Smith 16-Sep-1983
69	0069	1	For network logins, rearrange the code so that the
70	0070	1	node name gets set early on. This helps in both
71	0071	1	accounting and breakin evasion.
72	0072	1	
73	0073	1	V03-006 GAS0164 Gerry Smith 30-Jul-1983
74	0074	1	Change the method of disabling logical name translation
75	0075	1	in RMS calls to use the new ACMODES field.
76	0076	1	
77	0077	1	V03-005 MLJ0115 Martin L. Jack, 29-Jul-1983 10:29
78	0078	1	Update for new log file error handling.
79	0079	1	
80	0080	1	V03-004 GAS0137 Gerry Smith 26-May-1983
81	0081	1	Do not signal a \$SNDJBC error when terminating a batch job.
82	0082	1	
83	0083	1	V03-003 GAS0123 Gerry Smith 19-Apr-1983
84	0084	1	Change interface to use SNDJBC for batch jobs. Also,
85	0085	1	if proxy access is requested and the NETUAF cannot be
86	0086	1	accessed, signal with a fatal error.
87	0087	1	
88	0088	1	V03-002 GAS0097 Gerry Smith 4-Jan-1983
89	0089	1	Fix the case of proxy login for wildcard entries.
90	0090	1	
91	0091	1	V03-001 GAS0057 Gerry Smith 17-Mar-1982
92	0092	1	Fix FABS to disable all but system
93	0093	1	logical name translation during open/creates.
94	0094	1	
95	0095	1	V03-010 MLJ34580 Martin L. Jack, 1-Feb-1982 0:55
96	0096	1	Make use of extensions to DJT record to set name and /NOTIFY
97	0097	1	status for log file print job. Correct queue name translation
98	0098	1	so that explicit queue name is not translated and implicit
99	0099	1	SYS\$PRINT uses standard queue-name translation modiroutine.
100	0100	1	
101	0101	1	V03-009 GAS0032 Gerry Smith 07-Jan-1982
102	0102	1	On proxy login, if no UAF record is found, return
103	0103	1	FALSE to indicate lookup failure.
104	0104	1	
105	0105	1	V03-008 GAS0031 Gerry Smith 04-Jan-1982
106	0106	1	Remove NETUAF structure definitions from this module.
107	0107	1	\$NAFDEF now resides in LIB.RCQ.
108	0108	1	
109	0109	1	V03-007 SPF0050 Steve Forgey 01-Jan-1982
110	0110	1	Store remote node info in P1 space for network jobs.
111	0111	1	
112	0112	1	V03-006 GAS0029 Gerry Smith 31-Dec-1981
113	0113	1	Add proxy login for network jobs.
114	0114	1	

```

115 0115 1 V03-005 HRJ0032 Herb Jacobs 12-Nov-1981
116 0116 1 Process batch queue WSEXTENT if passed, validate username
117 0117 1 as valid for batch job, and allow handler to stop a batch
118 0118 1 job.
119 0119 1
120 0120 1 V004 TMH0004 Tim Halvorsen 26-Oct-1981
121 0121 1 Get ORIGUIC and UTFNM from LGI area rather than from PPD.
122 0122 1 Add extra acmode argument to calls to exec_crelog
123 0123 1 Make use of global SYSSERROR descriptor, rather than
124 0124 1 re-translating the logical name again here.
125 0125 1
126 0126 1 V003 GWF0073 Gary Fowler 27-Jul-1981
127 0127 1 Change job name to ASCII string. Increase maximum length of
128 0128 1 message that can be received from the job controller
129 0129 1
130 0130 1 V002 TMH0002 Tim Halvorsen 16-Jul-1981
131 0131 1 Reference SHRLIB$ for shared require files.
132 0132 1
133 0133 1 V03-001 GWF0051 Gary W. Fowler 29-May-1981
134 0134 1 Add file size in message sent when log file is queued for
135 0135 1 printing.
136 0136 1 --
137 0137 1
138 0138 1
139 0139 1 Include files
140 0140 1
141 0141 1
142 0142 1 LIBRARY 'SYSSLIBRARY:LIB'; ! VAX/VMS system definitions
143 0143 1 REQUIRE 'SHRLIB$:UTILDEF'; ! Common BLISS definitions
144 0328 1
145 0329 1 REQUIRE 'LIB$:PPDDEF'; ! Process permanent data region
146 0476 1 REQUIRE 'LIB$:LGIDEF'; ! LOGINOUT private permanent storage

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148 0547 1 |
149 0548 1 | Table of contents
150 0549 1 |
151 0550 1 |
152 0551 1 FORWARD ROUTINE
153 0552 1   init_batch:      NOVALUE,      ! Initialize batch job step
154 0553 1   stop_batch_job:  NOVALUE,      ! Stop batch job stream
155 0554 1   terminate_batch: NOVALUE,      ! Stop a batch job
156 0555 1   init_network:    NOVALUE,      ! Initialize network job
157 0556 1   get_proxy:       NOVALUE,      ! Get proxy username
158 0557 1 |
159 0558 1 |
160 0559 1 | External routines
161 0560 1 |
162 0561 1 |
163 0562 1 EXTERNAL ROUTINE
164 0563 1   close_output:    NOVALUE,      ! Close primary output file
165 0564 1   validate_uafrec: NOVALUE,      ! Read/validate UAF record
166 0565 1   get_uafrec:      NOVALUE,      ! Read UAF record without validation
167 0566 1   logout_message: NOVALUE,      ! Write logout message
168 0567 1   map_imgact:     NOVALUE,      ! Map image activator code segment
169 0568 1   create_logical, NOVALUE,      ! Create logical name with LNM services
170 0569 1   set_sysprv:     NOVALUE,      ! Turn on SYSPRV
171 0570 1   clear_sysprv:   NOVALUE,      ! Turn off SYSPRV
172 0571 1   set_uic,        NOVALUE,      ! Set process UIC
173 0572 1   set_node_name:  NOVALUE,      ! Set remote node info in P1 space
174 0573 1   exit_process:   NOVALUE,      ! Exit the process
175 0574 1   lib$fid_to_name: NOVALUE,      ! Translate file ID to file name
176 0575 1 |
177 0576 1 |
178 0577 1 | Define literals
179 0578 1 |
180 0579 1 |
181 0580 1 |
182 0581 1 |
183 0582 1 | Define message codes
184 0583 1 |
185 0584 1 |
186 0585 1 EXTERNAL LITERAL
187 0586 1   lgi$_jbcmixup,
188 0587 1   lgi$_userauth,
189 0588 1   lgi$_netuafacc;
190 0589 1 |
191 0590 1 |
192 0591 1 | External storage
193 0592 1 |
194 0593 1 |
195 0594 1 EXTERNAL
196 0595 1   pcb_sts:        BITVECTOR,    ! PCB status flags
197 0596 1   job_type,      NOVALUE,      ! Job type code for JIB
198 0597 1   input_fab:     BBLOCK,      ! Input FAB
199 0598 1   input_nam:     BBLOCK,      ! Input NAM
200 0599 1   output_fab:    BBLOCK,      ! Output FAB
201 0600 1   output_nam:   BBLOCK,      ! Output NAM
202 0601 1   uaf_record:    REF BBLOCK, ! Address of UAF record
203 0602 1   sys$input:    VECTOR,      ! Translation of SYSSINPUT
204 0603 1   sys$output:   VECTOR,      ! Translation of SYSSOUTPUT

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: 205      0604 1      sys$error:      VECTOR,      ! Translation of SYS$ERROR
: 206      0605 1      ctl$ag_clidata;  ! Process permanent data storage
: 207      0606 1
: 208      0607 1 BIND
: 209      0608 1      ppd = ctl$ag_clidata: BBLOCK; ! Address of PPD structure
: 210      0609 1
: 211      0610 1
```

```

213 0611 1 GLOBAL ROUTINE init_batch: NOVALUE =
214 0612 1
215 0613 1 ---
216 0614 1
217 0615 1 Perform batch initialization by requesting the job parameters
218 0616 1 from the job controller.
219 0617 1
220 0618 1 Inputs:
221 0619 1
222 0620 1 None
223 0621 1
224 0622 1 Outputs:
225 0623 1
226 0624 1 uaf_record = Address of UAF record for user
227 0625 1 ---
228 0626 1
229 0627 2 BEGIN
230 0628 2
231 0629 2 OWN
232 0630 2 jobname: VECTOR [43,BYTE], ! Must be static to be passed back
233 0631 2 logfile: VECTOR [nam$c_maxrss,BYTE]; ! to caller as output filespec
234 0632 2
235 0633 2 LOCAL
236 0634 2 username : VECTOR[2] ! Descriptor for username
237 0635 2 INITIAL(REP 2 OF (0)),
238 0636 2 logdesc: VECTOR [2], ! Logical name descriptor
239 0637 2 logname: VECTOR [2,BYTE], ! 2 character logical name
240 0638 2 ptr : REF VECTOR[,WORD],
241 0639 2 length,
242 0640 2 buffer : VECTOR[500], ! SNDJBC message buffer
243 0641 2 flags : REF $BLOCK INITIAL (0); ! Flags from job controller
244 0642 2
245 0643 2 !
246 0644 2 ! Check to see if at early termination of batch job.
247 0645 2 !
248 0646 2 IF .ppd [ppd$w_outifi] NEQ 0 ! If not first job step,
249 0647 2 AND NOT .ppd [ppd$l_lststatus] ! and job step failed,
250 0648 2 AND ((.ppd [ppd$l_lststatus] AND 6) NEQ 0) ! and its an error or fatal,
251 0649 2 THEN
252 0650 2 terminate_batch(0); ! Stop the batch job
253 0651 2
254 0652 2 !
255 0653 2 ! Request detached job step initialization parameters from job controller
256 0654 2 !
257 0655 2 BEGIN
258 0656 2 LOCAL
259 0657 2 status,
260 0658 2 iosb : VECTOR[2],
261 0659 2 itmlst : $ITMLST_DECL(ITEMS = 1);
262 0660 2
263 0661 2 $ITMLST_INIT(ITMLST = itmlst,
264 0662 2 (ITMCOD = sjc$ batch output,
265 0663 2 BUFSIZ = XALLOCATION(buffer),
266 0664 2 BUFADR = buffer));
267 0665 2 status = $SNDJBCW(FUNC = sjc$ batch_service,
268 0666 2 ITMLST = itmlst,
269 0667 2 IOSB = iosb);

```



```

270 0668 3 IF .status
271 0669 3 THEN status = .iosb[0];
272 0670 3 IF NOT .status
273 0671 3 THEN SIGNAL_STOP(.status);
274 0672 2 END;
275 0673 2
276 0674 2 |
277 0675 2 | Find the flags longword and the username.
278 0676 2 |
279 0677 2 ptr = buffer;
280 0678 2 WHILE true DO
281 0679 3 BEGIN
282 0680 3 IF .ptr[1] EQL 0
283 0681 3 THEN EXITLOOP;
284 0682 3 IF .ptr[1] EQL dji$k_flags
285 0683 3 THEN
286 0684 4 BEGIN
287 0685 4 flags = ptr[2];
288 0686 4 IF .flags[dji$y_terminate]
289 0687 4 THEN stop_batch_job(.flags, buffer, 0);
290 0688 4 IF .flags[dji$y_delete_file]
291 0689 4 THEN input_fab[fab$y_d[t]] = true;
292 0690 4 IF .flags[dji$y_restarting]
293 0691 4 THEN ppd[ppd$y_restart] = true;
294 0692 4 IF .username[1] NEQ 0
295 0693 4 OR .ppd[ppd$w_outif'] NEQ 0
296 0694 4 THEN EXITLOOP;
297 0695 4 END
298 0696 3 ELSE IF .ptr[1] EQL dji$k_username
299 0697 3 THEN
300 0698 4 BEGIN
301 0699 4 username[1] = ptr[2];
302 0700 4 IF .flags NEQ 0
303 0701 4 THEN EXITLOOP;
304 0702 4 END;
305 0703 3 ptr = ptr[2] + .ptr[0];
306 0704 2 END;
307 0705 2
308 0706 2 |
309 0707 2 | If this is the first job step, then do first_time_thru stuff.
310 0708 2 |
311 0709 2 IF .ppd [ppd$w_outifi] EQL 0 ! If this the first job step,
312 0710 2 THEN
313 0711 3 BEGIN
314 0712 3 job_type = jib$c_batch;
315 0713 3 !***username [0] = uaf$s_username; ! Setup descriptor of user name
316 0714 3 username [0] = 12; ! Setup descriptor of user name
317 0715 3 get_uafrec(username); ! Get user's UAF record
318 0716 3 IF .uaf_record EQL 0
319 0717 3 THEN
320 0718 3 SIGNAL_STOP(lgi$userauth); ! signal fatal error
321 0719 3 END;
322 0720 2
323 0721 2 |
324 0722 2 | Now to go thru all the data items in BUFFER, setting up the input and
325 0723 2 | output files as indicated, as well as working set parameters and cpu
326 0724 2 | time limit, if first job step.

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```
327 0725 2 !
328 0726 2 logdesc[0] = 2; ! Set up the logical name descriptor
329 0727 2 logdesc[1] = logname;
330 0728 2 logname[0] = 'PV';
331 0729 2
332 0730 2 output_fab[fab$b_fns] = 0; ! Initialize the file name
333 0731 2 ptr = Buffer;
334 0732 2 WHILE true DO
335 0733 2 BEGIN
336 0734 2 CASE ptr[1] FROM 0 TO dji$k_wsquota OF
337 0735 2 SET
338 0736 2 [0] : EXITLOOP;
339 0737 2
340 0738 2 [dji$k_wsdefault] :
341 0739 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsdefault
342 0740 2 THEN
343 0741 2 BEGIN
344 0742 2 IF .flags[dji$v_use_wsdefault]
345 0743 2 THEN uaf_record[uaf$l_dfwsent] = .(ptr[2])
346 0744 2 ELSE uaf_record[uaf$l_dfwsent] = MINU(.(ptr[2]),
347 0745 2 .uaf_record[uaf$l_dfwsent]);
348 0746 2 END;
349 0747 2
350 0748 2 [dji$k_wsextent] :
351 0749 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsextent
352 0750 2 THEN
353 0751 2 BEGIN
354 0752 2 IF .flags[dji$v_use_wsextent]
355 0753 2 THEN uaf_record[uaf$l_wsextent] = .(ptr[2])
356 0754 2 ELSE uaf_record[uaf$l_wsextent] = MINU(.(ptr[2]),
357 0755 2 .uaf_record[uaf$l_wsextent]);
358 0756 2 END;
359 0757 2
360 0758 2 [dji$k_wsquota] :
361 0759 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set wsquota
362 0760 2 THEN
363 0761 2 BEGIN
364 0762 2 IF .flags[dji$v_use_wsquota]
365 0763 2 THEN uaf_record[uaf$l_wsquota] = .(ptr[2])
366 0764 2 ELSE uaf_record[uaf$l_wsquota] = MINU(.(ptr[2]),
367 0765 2 .uaf_record[uaf$l_wsquota]);
368 0766 2 END;
369 0767 2
370 0768 2 [dji$k_cpu_maximum] :
371 0769 2 IF .ppd[ppd$w_outifi] EQL 0 ! If first job step, set CPU time limit
372 0770 2 THEN
373 0771 2 BEGIN
374 0772 2 IF .flags[dji$v_use_cpu_maximum]
375 0773 2 THEN uaf_record[uaf$l_cputim] = .(ptr[2])
376 0774 2 ELSE uaf_record[uaf$l_cputim] = MINU(.(ptr[2])-1, ! So that 0 > all others
377 0775 2 .uaf_record[uaf$l_cputim]-1) + 1;
378 0776 2 END;
379 0777 2
380 0778 2 [dji$k_job_name] :
381 0779 2 BEGIN ! Setup output log file name from job name
382 0780 2 length = .ptr[0]; ! get length of job name
383 0781 2 CH$MOVE(.length,
```

```
384      ptr[2],  
385      jobname);  
386      CHSMOVE(4, UPLIT BYTE('.LOG'), jobname + .length);  
387      output_fab [fab$l_dna] = jobname;      ! Set default to <jobname>.LOG  
388      output_fab [fab$b_dns] = .length + 4;  
389      END;  
390  
391      [dji$k log_specification] :  
392      BEGIN      ! Set up the log file name  
393      output_fab[fab$b_fns] = .ptr[0];  
394      output_fab[fab$l_fna] = logfile;  
395      CHSMOVE(.ptr[0],  
396      ptr[2],  
397      logfile);  
398      END;  
399  
400      [dji$k file_identification] :      ! Batch input file  
401      BEGIN  
402      LOCAL  
403      name_desc      : VECTOR [2],  
404      dvi_desc       : VECTOR [2],  
405      name_length    : WORD;  
406      CHSMOVE(ppd$c_dvifid,  
407      ptr[2],  
408      input_nam[nam$t_dvi]);  
409      input_fab [fab$sv_nam] = true;      ! Mark to open input by NAM block  
410      ! Get input file name for CLI  
411      name_desc[0] = ppd$s_filename-1;  
412      name_desc[1] = ppd[ppd$t_filename]+1;  
413      dvi_desc[0] = .VECTOR [input_nam[nam$t_dvi], 0; .BYTE];  
414      dvi_desc[1] = input_nam[nam$t_dvi]+1;  
415      IF [lib$fid_to_name (dvi_desc, input_nam[nam$w_fid],  
416      name_desc, name_length)  
417      THEN VECTOR [ppd[ppd$t_filename], 0; .BYTE] = .name_length;  
418      END;  
419  
420      [dji$k parameter_1 TO dji$k_parameter_8] :  
421      BEGIN  
422      LOCAL  
423      desc: VECTOR[2];  
424      desc[0] = .ptr[0];  
425      desc[1] = ptr[2];  
426      logname [1] = '1' + .ptr[1] - dji$k_parameter_1;  
427      create_logical(logdesc,      ! Create Pn logical name  
428      desc,  
429      ps($c_user));  
430      END;  
431  
432      [dji$k restart] :  
433      BEGIN  
434      LOCAL  
435      desc : VECTOR[2];  
436      desc[0] = .ptr[0];  
437      desc[1] = ptr[?];  
438      create_logical(%ASCID 'BATCH$RESTART',  
439      desc,  
440      ps($c_user);
```

```

: 441      0839      3      END;
: 442      0840
: 443      0841      [INRANGE] : true;
: 444      0842      [OUTRANGE] : true;
: 445      0843      TES;
: 446      0844      ptr = ptr[2] + .ptr[0];
: 447      0845      END;
: 448      0846
: 449      0847      IF .flags[dji$v_log_null]
: 450      0848      THEN
: 451      0849      BEGIN
: 452      0850      output_fab [fab$b_fns] = 4;
: 453      0851      output_fab [fab$l_fna] = UPLIT BYTE('_NL:');
: 454      0852      END;
: 455      0853
: 456      0854
: 457      0855      1 END;

```

```

                                .TITLE DETACHED
                                .IDENT  \V04-000\
                                .PSECT  $SPLITS,NOWRT,NOEXE,2
00 00 54 52 41 54 53 45 52 24 48 47 4F 4C 2E 00000 P.AAA: .ASCII  \.LOG\
                                00004 P.AAC: .ASCII  \BATCH$RESTART\<0><0><0>
                                00013
                                010E000D 00014 P.AAB: .LONG   17694733
                                00000000 00018 .ADDRESS P.AAC
                                3A 4C 4E 5F 0001C P.AAD: .ASCII  \_NL:\
                                .PSECT  $OWNS,NOEXE,2
                                00000 JOBNAME: .BLKB  43
                                0002B .BLKB  1
                                0002C LOGFILE: .BLKB  255
                                .EXTRN  CLOSE_OUTPUT, VALIDATE_UAFREC
                                .EXTRN  GET_UAFREC, LOGOUT_MESSAGE
                                .EXTRN  MAP_IMGACT, CREATE_LOGICAL
                                .EXTRN  SET_SYSPRV, CLEAR_SYSPRV
                                .EXTRN  SET_UIC, SET_NODE_NAME
                                .EXTRN  EXIT_PROCESS, LIB$FID TO NAME
                                .EXTRN  LGIS_JBCMIXUP, LGIS_USERAUTH
                                .EXTRN  LGIS_NETUAFACC, PCB_STS
                                .EXTRN  JOB_TYPE, INPUT_FAB
                                .EXTRN  INPUT_NAM, OUTPUT_FAB
                                .EXTRN  OUTPUT_NAM, UAF_RECORD
                                .EXTRN  SYSSINPUT, SYSSOUTPUT
                                .EXTRN  SYSSERROR, CTLSAG_CLIDATA
                                .EXTRN  SYSSNDJBCW
                                .PSECT  $CODE$,NOWRT,2
                                OFFC 00000 .ENTRY  INIT_BATCH, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 0611
                                5B 00000000G 00 9E 00002 MOVAB  UAF_RECORD, R11

```

	5A	00000000G	00	9E	00009	MOVAB	OUTPUT_FAB+52, R10		
	59	00000000G	00	9E	00010	MOVAB	PPD+36, R9		
	5E	F800	CE	9E	00017	MOVAB	-2048(SP), SP		
		F8	AD	7C	0001C	CLRQ	USERNAME	0627	
			57	D4	0001F	CLRL	FLAGS		
			69	B5	00021	TSTW	PPD+36	0646	
			11	13	00023	BEQL	1\$		
	0D	F4	A9	E8	00025	BLBS	PPD+24, 1\$	0647	
	06	F4	A9	93	00029	BITB	PPD+24, #6	0648	
			07	13	0002D	BEQL	1\$		
			7E	D4	0002F	CLRL	-(SP)	0650	
0000V	CF		01	FB	00031	CALLS	#1, TERMINATE BATCH		
	50	G8	AE	9E	00036	MOVAB	ITMLST, \$\$ITMBLKPTR	0664	
	80	000B07D0	8F	D0	0003A	MOVL	#722896, (\$\$ITMBLKPTR)+		
	80	20	AE	9E	00041	MOVAB	BUFFER, (\$\$ITMBLKPTR)+		
			80	7C	00045	CLRQ	(\$\$ITMBLKPTR)+		
			7E	7C	00047	CLRQ	-(SP)	0667	
			20	AE	9F	00049	PUSHAB	IOSB	
			14	AE	9F	0004C	PUSHAB	ITMLST	
	7E		07	7D	0004F	MOVQ	#7, -(SP)		
			7E	D4	00052	CLRL	-(SP)		
00000000G	00		07	FB	00054	CALLS	#7, SYSSNDJBCW		
	07		50	E9	0005B	BLBC	STATUS, 2\$	0668	
	50	18	AE	D0	0005E	MOVL	IOSB, STATUS	0669	
	09		50	E8	00062	BLBS	STATUS, 3\$	0670	
			50	DD	00065	PUSHL	STATUS	0671	
00000000G	00		01	FB	00067	CALLS	#1, LIB\$STOP		
	56	20	AE	9E	0006E	MOVAB	BUFFER, PTR	0677	
	50	02	A6	3C	00072	MOVZWL	2(PTR), R0	0680	
			4D	13	00076	BEQL	11\$		
	03		50	B1	00078	CMPW	R0, #3	0682	
			30	12	0007B	BNEQ	8\$		
	57	04	A6	9E	0007D	MOVAB	4(R6), FLAGS	0685	
0C	67		06	E1	00081	BBC	#6, (FLAGS), 5\$	0686	
			7E	D4	00085	CLRL	-(SP)	0687	
			24	AE	9F	00087	PUSHAB	BUFFER	
			57	DD	0008A	PUSHL	FLAGS		
0000V	CF		03	FB	0008C	CALLS	#3, STOP_BATCH_JOB		
	08		67	E9	00091	BLBC	(FLAGS), -6\$	0688	
00000000G	00	80	8F	88	00094	BISB2	#128, INPUT_FAB+5	0689	
04	67		05	E1	0009C	BBC	#5, (FLAGS), 7\$	0690	
	DE	A9	10	88	000A0	BISB2	#16, PPD+2	0691	
			FC	AD	000A4	TSTL	USERNAME+4	0692	
			1C	12	000A7	BNEQ	11\$		
			69	B5	000A9	TSTW	PPD+36	0693	
			0C	11	000AB	BRB	9\$		
	10		50	B1	000AC	CMPW	R0, #16	0696	
			09	12	000B0	BNEQ	10\$		
	FC	AD	04	A6	9E	000B2	MOVAB	4(R6), USERNAME+4	0699
			57	D5	000B7	TSTL	FLAGS	0700	
			0A	12	000B9	BNEQ	11\$		
	50		66	3C	000BB	MOVZWL	(PTR), R0	0703	
	56	04	A046	9E	000BE	MOVAB	4(R0)[PTR], PTR		
			AD	11	000C3	BRB	4\$	0678	
			69	B5	000C5	TSTW	PPD+36	0709	
			26	12	000C7	BNEQ	12\$		
00000000G	00		02	D0	000C9	MOVL	#2, JOB_TYPE	0712	

		61		50	D1	00179		CMPL	R0, (R1)			
				03	1B	0017C		BLEQU	22\$			
		50		61	D0	0017E	21\$:	MOVL	(R1), R0			
		61		50	D0	00181	22\$:	MOVL	R0, (R1)		0764	
				5E	11	00184		BRB	30\$		0759	
				69	B5	00186	23\$:	TSTW	PPD+36		0769	
				5A	12	00188		BNEQ	30\$			
		50		6B	D0	0018A		MOVL	UAF RECORD, R0		0773	
		50	022C	C0	9E	0018D		MOVAB	556(R0), R0			
				67	95	00192		TSTB	(FLAGS)		0772	
				06	18	00194		BGEQ	24\$			
		60	04	A6	D0	00196		MOVL	4(PTR), (R0)		0773	
				48	11	0019A		BRB	30\$			
	52		04	A6	01	C3	0019C	24\$:	SUBL3	#1, 4(PTR), R2	0774	
	51			60	01	C3	001A1		SUBL3	#1, (R0), R1	0775	
				51	52	D1	001A5		CMPL	R2, R1		
					03	1B	001A8		BLEQU	25\$		
		52		51	D0	001AA		MOVL	R1, R2			
		60	01	A2	9E	001AD	25\$:	MOVAB	1(R2), (R0)			
				79	11	001B1	26\$:	BRB	32\$		0769	
				58	3C	001B3	27\$:	MOVZWL	(PTR), LENGTH		0780	
0000'	CF		04	A6	58	28	001B6		MOV C3	LENGTH, 4(PTR), JOBNAME	0782	
					48	9F	001BD		PUSHAB	JOBNAME[LENGTH]	0784	
				9E	CF	D0	001C2		MOVL	P.AAA, 2(SP)+		
				0000'	CF	9E	001C7		MOVAB	JOBNAME, OUTPUT FAB+48	0785	
01	AA		FC	AA	04	81	001CD		ADDB3	#4, LENGTH, OUTPUT FAB+53	0786	
				58	11	001D2	28\$:	BRB	32\$		0734	
				6A	90	001D4	29\$:	MOVB	(PTR), OUTPUT FAB+52		0791	
				AA	CF	9E	001D7		MOVAB	LOGFILE, OUTPUT FAB+44	0792	
0000'	CF		F8	AA	66	28	001DD		MOV C3	(PTR), 4(PTR), LOGFILE	0794	
			04	A6	7A	11	001E4	30\$:	BRB	36\$	0734	
00000000G	00		04	A6	1C	28	001E6	31\$:	MOV C3	#28, 4(PTR), INPUT_NAM+20	0806	
			00000000G	00	01	88	001EF		BISB2	#1, INPUT FAB+7	0807	
				18	AE	FF	8F	9A	001F6	MOVZBL	#255, NAME_DESC	0809
				1C	AE	45	A9	9E	001FB	MOVAB	PPD+105, NAME_DESC+4	0810
				10	AE	00000000G	00	9A	00200	MOVZBL	INPUT_NAM+20, DVI_DESC	0811
				14	AE	00000000G	00	9E	00208	MOVAB	INPUT_NAM+21, DVI_DESC+4	0812
					5E	DD	00210		PUSHL	SP	0813	
					AE	9F	00212		PUSHAB	NAME_DESC		
					00	9F	00215		PUSHAB	INPUT_NAM+36		
					AE	9F	0021B		PUSHAB	DVI_DESC		
				00000000G	04	FB	0021E		CALLS	#4, LIB\$FID_TO_NAME		
					50	E9	00225		BLBC	R0, 36\$		
				44	A9	6E	90	00228	MOVB	NAME_LENGTH, PPD+104	0815	
					32	11	0022C	32\$:	BRB	36\$	0734	
				18	AE	66	3C	0022E	33\$:	MOVZWL	(PTR), DESC	0822
				1C	AE	04	A6	9E	00232	MOVAB	4(R6), DESC+4	0823
05	AE		02	A6	2A	81	00237		ADDB3	#42, 2(PTR), LOGNAME+1	0824	
					03	DD	0023D		PUSHL	#3	0825	
					AE	9F	0023F		PUSHAB	DESC		
					AD	9F	00242		PUSHAB	LOGDESC		
					12	11	00245		BRB	35\$		
				18	AE	66	3C	00247	34\$:	MOVZWL	(PTR), DESC	0834
				1C	AE	04	A6	9E	0024B	MOVAB	4(R6), DESC+4	0835
					03	DD	00250		PUSHL	#3	0836	
					AE	9F	00252		PUSHAB	DESC		
					0000'	CF	9F	00255	PUSHAB	P.AAB		


```

459 0856 1 GLOBAL ROUTINE terminate_batch(signal_args : REF $BLOCK): NOVALUE =
460 0857 1
461 0858 1 |---
462 0859 1 |
463 0860 1 |       Request a job controller termination message, then stop batch job.
464 0861 1 |
465 0862 1 | Inputs:
466 0863 1 |       Signal arguments or 0.
467 0864 1 |
468 0865 1 | Outputs:
469 0866 1 |
470 0867 1 |       Job termination, no return, exit via exit process
471 0868 1 |---
472 0869 1 |
473 0870 2 BEGIN
474 0871 2
475 0872 2 LOCAL
476 0873 2     status,           ! Status return from SNDJBC
477 0874 2     input_buffer:   $BLOCK[50], ! SNDJBC input buffer
478 0875 2     buffer:         $BLOCK[500], ! SNDJBC output buffer
479 0876 2     p : REF $BLOCK,    ! Cursor for input buffer
480 0877 2     ptr : REF VECTOR[WORD], ! Pointer to buffer contents
481 0878 2     iosb : VECTOR[2],   ! Final status from SNDJBC
482 0879 2     itmlst : $ITMLST_DECL(ITEMS = 2); ! SNDJBC item list
483 0880 2
484 0881 2
485 0882 2 |
486 0883 2 | Initialize SNDJBC input buffer.
487 0884 2 |
488 0885 2 p = input_buffer;
489 0886 2
490 0887 2 p[dji$w_item_code] = dji$sk_input_flags; ! Inhibit return of a file
491 0888 2 p[dji$w_item_size] = 4;
492 0889 2 p = .p + dji$ss_item_header;
493 0890 2 .p = dji$sm_no_file;
494 0891 2 p = .p + 4;
495 0892 2
496 0893 2 IF .signal_args NEQA 0           ! If signal arguments present
497 0894 2 THEN
498 0895 2     BEGIN
499 0896 2     LOCAL
500 0897 2         i:           REF $BLOCK; ! Pointer to item header
501 0898 2
502 0899 2         i = p;
503 0900 2         p[dji$w_item_code] = dji$sk_condition_vector;
504 0901 2         p[dji$w_item_size] = 4;
505 0902 2         p = .p + dji$ss_item_header;
506 0903 2         .p = .signal_args[4,0,32,0]; ! Primary condition
507 0904 2         p = .p + 4;
508 0905 2         IF .signal_args[0,0,8,0] GEQU 3
509 0906 2         THEN
510 0907 2             BEGIN
511 0908 2                 i[dji$w_item_size] = 8;
512 0909 2                 .p = .signal_args[12,0,32,0]; ! STS, if present
513 0910 2                 p = .p + 4;
514 0911 2             END;
515 0912 2         IF .signal_args[0,0,8,0] GEQU 4

```


80		01	D0	00012	MOVL	#1, (P)+	0890	
53	04	AC	D0	00015	MOVL	SIGNAL_ARGS, R3	0893	
		26	13	00019	BEQL	2\$		
51		50	D0	0001B	MOVL	P, I	0899	
80	80020004	8F	D0	0001E	MOVL	#-2147352572, (P)+	0901	
80		A3	D0	00025	MOVL	4(R3), (P)+	0903	
03	04	63	91	00029	CMPB	(R3), #3	0905	
		07	1F	0002C	BLSSU	1\$		
61		08	B0	0002E	MOVW	#8, (I)	0908	
80	0C	A3	D0	00031	MOVL	12(R3), (P)+	0909	
04		63	91	00035	CMPB	(R3), #4	0912	
		07	1F	00038	BLSSU	2\$		
61		0C	B0	0003A	MOVW	#12, (I)	0915	
80	10	A3	D0	0003D	MOVL	16(R3), (P)+	0916	
		60	D4	00041	CLRL	(P)	0920	
50		6E	9E	00043	MOVAB	ITMLST, \$\$ITMBLKPTR	0932	
80	000A0032	8F	D0	00046	MOVL	#655410, (\$\$ITMBLKPTR)+		
80	CC	AD	9E	0004D	MOVAB	INPUT_BUFFER, (\$\$ITMBLKPTR)+		
		80	D4	00051	CLRL	(\$\$ITMBLKPTR)+		
80	000B01F4	8F	D0	00053	MOVL	#721396, (\$\$ITMBLKPTR)+		
80	24	AE	9E	0005A	MOVAB	BUFFER, (\$\$ITMBLKPTR)+		
		80	7C	0005E	CLRQ	(\$\$ITMBLKPTR)+		
		7E	7C	00060	CLRQ	-(SP)	0935	
	24	AE	9F	00062	PUSHAB	IOSB		
	0C	AE	9F	00065	PUSHAB	ITMLST		
7E		07	7D	00068	MOVQ	#7, -(SP)		
		7E	D4	0006B	CLRL	-(SP)		
00000000G	00	07	FB	0006D	CALLS	#7, SYSSNDJBCW		
07		50	E9	00074	BLBC	STATUS, 3\$	0936	
50	1C	AE	D0	00077	MOVL	IOSB, STATUS	0937	
0D		50	E8	0007B	BLBS	STATUS, 4\$	0938	
		53	DD	0007E	PUSHL	R3	0939	
		7E	D4	00080	CLRL	-(SP)		
	0000V	CF	9F	00082	PUSHAB	P.AAE		
		03	FB	00086	CALLS	#3, STOP_BATCH_JOB		
	52	24	AE	0008B	MOVAB	BUFFER, PTR	0945	
		62	D5	0008F	TSTL	(PTR)	0946	
		1D	13	00091	BEQL	7\$		
	03	02	A2	B1	00093	CMPW	2(PTR), #3	0948
		0D	12	00097	BNEQ	6\$		
		53	DD	00099	PUSHL	R3	0949	
		28	AE	9F	0009B	PUSHAB	BUFFER	
		04	A2	9F	0009E	PUSHAB	4(PTR)	
0000V	CF	03	FB	000A1	CALLS	#3, STOP_BATCH_JOB		
50		62	3C	000A6	MOVZWL	(PTR), R0	0950	
52	04	A042	9E	000A9	MOVAB	4(R0)[PTR], PTR		
		DF	11	000AE	BRB	5\$	0946	
		04	00080	7\$:	RET		0954	

; Routine Size: 177 bytes, Routine Base: \$CODE\$ + 0279

```
559 0955 1 ROUTINE stop_batch_job (flags, buffer, signal_args): NOVALUE =
560 0956 1
561 0957 1 ---
562 0958 1
563 0959 1 This routine is called to terminate a job stream as a result
564 0960 1 of an operator request or failure of an individual job step.
565 0961 1
566 0962 1 Inputs:
567 0963 1
568 0964 1 flags = Address of flags longword from job controller
569 0965 1 djt = Address of entire buffer from job controller
570 0966 1
571 0967 1 Outputs:
572 0968 1
573 0969 1 There is no return - the image is exited.
574 0970 1 ---
575 0971 1
576 0972 2 BEGIN
577 0973 2
578 0974 2 MAP
579 0975 2 flags : REF $BBLOCK, ! Address of options longword
580 0976 2 signal_args : REF $BBLOCK; ! Address of signal arguments or 0
581 0977 2
582 0978 2 BIND
583 0979 2 lgi = .ppd [ppd$l_lgi]: BBLOCK; ! Address the LGI area
584 0980 2
585 0981 2
586 0982 2 ! Write the logout message.
587 0983 2
588 0984 2 logout_message(); ! Write logout message
589 0985 2
590 0986 2
591 0987 2
592 0988 2
593 0989 2 IF .flags[dji$v_log_delete] ! If delete of output file requested
594 0990 2 AND NOT .flags[dji$v_log_spool] ! and no print,
595 0991 2 THEN
596 0992 2 output_fab [fab$v_dlt] = true; ! then set to delete on close
597 0993 2
598 0994 2 $CMEXEC(ROUTIN = close_output); ! Close log file so we can print it
599 0995 2
600 0996 2 $CMKRN(ROUTIN = set_uic, ARGST = .lgi [lgi$l_origuic]); ! Reset UIC
601 0997 2
602 0998 2 IF .flags[dji$v_lcg_spool] ! If output file is to be printed
603 0999 2 THEN
604 1000 2 BEGIN
605 1001 2 LOCAL
606 1002 2 wrdptr : REF VECTOR[WORD],
607 1003 2 ptr : REF VECTOR, ! Pointer to item list
608 1004 2 queue_name : VECTOR[2] ! Place for queue name
609 1005 2 INITIAL(0,0),
610 1006 2 job_name : VECTOR[2] ! Place for job name
611 1007 2 INITIAL(0,0),
612 1008 2 itmlst : VECTOR[30], ! Item list for SNDJBC
613 1009 2 input_buffer : VECTOR[128]; ! Batch input item
614 1010 2
615 1011 2 !
```

```

616 1012 3 We need to find the queue name, as well as the job name, before starting
617 1013 3 to fill out the itemlist.
618 1014 3
619 1015 3 wrdptr = .buffer; ! Point at the buffer
620 1016 3 WHILE true DO ! Go thru buffer
621 1017 3 BEGIN
622 1018 3 IF .wrdptr[1] EQL 0
623 1019 3 THEN EXITLOOP;
624 1020 3 IF .wrdptr[1] EQL dji$k_log_queue
625 1021 3 THEN
626 1022 3 BEGIN
627 1023 3 queue_name[0] = .wrdptr[0];
628 1024 3 queue_name[1] = wrdptr[2];
629 1025 3 IF .job_name[1] NEQ 0
630 1026 3 THEN EXITLOOP;
631 1027 3 END
632 1028 3 ELSE IF .wrdptr[1] EQL dji$k_job_name
633 1029 3 THEN
634 1030 3 BEGIN
635 1031 3 job_name[0] = .wrdptr[0];
636 1032 3 job_name[1] = wrdptr[2];
637 1033 3 IF .queue_name[1] NEQ 0
638 1034 3 THEN EXITLOOP;
639 1035 3 END;
640 1036 3 wrdptr = wrdptr[2] + .wrdptr[0];
641 1037 3 END;
642 1038 3
643 1039 3 If no queue name was found, then use SYSSPRINT.
644 1040 3
645 1041 3 IF .queue_name[0] EQL 0
646 1042 3 THEN
647 1043 3 BEGIN
648 1044 3 queue_name[0] = %CHARCOUNT('SYSSPRINT');
649 1045 3 queue_name[1] = UPLIT BYTE('SYSSPRINT');
650 1046 3 END;
651 1047 3
652 1048 3 Now to fill in the itemlist.
653 1049 3
654 1050 3 ptr = itmlst; ! Start at beginning of item list
655 1051 3
656 1052 3 The queue name is either in the JBC buffer, or else we should use
657 1053 3 SYSSPRINT.
658 1054 3
659 1055 3 ptr[0] = sjc$queue^16 OR .queue_name[0];
660 1056 3 ptr[1] = .queue_name[1];
661 1057 3 ptr[2] = 0;
662 1058 3 ptr = ptr[3];
663 1059 3
664 1060 3 Also put in the job name.
665 1061 3
666 1062 3 ptr[0] = sjc$job_name^16 OR .job_name[0];
667 1063 3 ptr[1] = .job_name[1];
668 1064 3 ptr[2] = 0;
669 1065 3 ptr = ptr[3];
670 1066 3
671 1067 3 Add /NOTIFY if requested.
672 1068 3

```

```

673      1069      3      IF .flags[dji$w_notify]
674      1070      3      THEN
675      1071      4      BEGIN
676      1072      4      ptr[0] = sjc$_notify^16;
677      1073      4      ptr[1] = ptr[2] = 0;
678      1074      4      ptr = ptr[3];
679      1075      4      END;
680      1076      4      :
681      1077      4      If the log file exists, add its information.
682      1078      4      :
683      1079      3      IF CH$RCHAR(ppd[ppd$w_outdvi]) NEQ 0
684      1080      3      THEN
685      1081      4      BEGIN
686      1082      4      :
687      1083      4      File ID
688      1084      4      :
689      1085      4      ptr[0] = sjc$_file_identification^16 OR ppd$w_dvifid;
690      1086      4      ptr[1] = ppd[ppd$w_outdvi];
691      1087      4      ptr[2] = 0;
692      1088      4      ptr = ptr[3];
693      1089      4      :
694      1090      4      Add /DELETE if requested.
695      1091      4      :
696      1092      4      IF .flags[dji$w_log_delete]
697      1093      4      THEN
698      1094      5      BEGIN
699      1095      5      ptr[0] = sjc$_delete_file^16;
700      1096      5      ptr[1] = ptr[2] = 0;
701      1097      5      ptr = ptr[3];
702      1098      4      END;
703      1099      4      :
704      1100      4      The log file always gets a header page.
705      1101      4      :
706      1102      4      ptr[0] = sjc$_page_header^16;
707      1103      4      ptr[1] = ptr[2] = 0;
708      1104      4      ptr = ptr[3];
709      1105      4      END
710      1106      4      :
711      1107      4      If no log file exists, attempt to print messages.
712      1108      4      :
713      1109      3      ELSE IF .signal_args NEQA 0
714      1110      3      THEN
715      1111      4      BEGIN
716      1112      4      LOCAL
717      1113      4      i : REF $BLOCK,      ! Pointer to item header
718      1114      4      p : REF $BLOCK;      ! Pointer to input buffer
719      1115      4      :
720      1116      4      p = i = input_buffer;
721      1117      4      p[dji$w_item_code] = dji$w_condition_vector;
722      1118      4      p[dji$w_item_size] = 4;
723      1119      4      p = .p + dji$w_item_header;
724      1120      4      .p = .signal_args[4,0,32,0];      ! Primary condition
725      1121      4      p = .p + 4;
726      1122      4      IF .signal_args[0,0,8,0] GEQU 3
727      1123      4      THEN
728      1124      5      BEGIN
729      1125      5      i[dji$w_item_size] = 8;

```

```
730      1126 5      .p = .signal_args[12,0,32,0];      ! STS, if present
731      1127 5      p = .p + 4;
732      1128 4      END;
733      1129 4      IF .signal_args[0,0,8,0] GEQU 4
734      1130 4      THEN
735      1131 5      BEGIN
736      1132 5      i[dji$w_item_size] = 12;
737      1133 5      .p = .signal_args[16,0,32,0];      ! STV, if present
738      1134 5      p = .p + 4;
739      1135 4      END;
740      1136 4
741      1137 4      IF .output_nam[nam$b_rsl] NEQ 0
742      1138 4      THEN
743      1139 5      BEGIN
744      1140 5      p[dji$w_item_code] = dji$k_file_specification;
745      1141 5      p[dji$w_item_size] = .output_nam[nam$b_rsl];
746      1142 5      p = .p + dji$s_item_header;
747      1143 5      p = CHSMOVE(
748      1144 5      .output_nam[nam$b_rsl],
749      1145 5      .output_nam[nam$l_rsa],
750      1146 5      .p);
751      1147 5      END
752      1148 4      ELSE IF .output_nam[nam$b_esl] NEQ 0
753      1149 4      THEN
754      1150 5      BEGIN
755      1151 5      p[dji$w_item_code] = dji$k_file_specification;
756      1152 5      p[dji$w_item_size] = .output_nam[nam$b_esl];
757      1153 5      p = .p + dji$s_item_header;
758      1154 5      p = CHSMOVE(
759      1155 5      .output_nam[nam$b_esl],
760      1156 5      .output_nam[nam$l_esa],
761      1157 5      .p);
762      1158 5      END
763      1159 4      ELSE
764      1160 5      BEGIN
765      1161 5      p[dji$w_item_code] = dji$k_file_specification;
766      1162 5      p[dji$w_item_size] = .output_fab[fab$b_fns];
767      1163 5      p = .p + dji$s_item_header;
768      1164 5      p = CHSMOVE(
769      1165 5      .output_fab[fab$b_fns],
770      1166 5      .output_fab[fab$l_fna],
771      1167 5      .p);
772      1168 4      END;
773      1169 4
774      1170 4      .p = 0;      ! Zero terminate list
775      1171 4      p = .p + 4;
776      1172 4
777      1173 4      ptr[0] = sjc$batch_input^16 OR (.p - input_buffer);
778      1174 4      ptr[1] = input_buffer;
779      1175 4      ptr[2] = 0;
780      1176 4      ptr = ptr[3];
781      1177 3      END;
782      1178 3
783      1179 3      Done. Put in a zero longword
784      1180 3      ptr[0] = 0;
785      1181 3
786      1182 3
```

```

: 787 P 1183 3 $SNDJBCW(FUNC = sjc$ _enter_file,
: 788 1184 3 ITMLST = itm1st);
: 789 1185 3 END;
: 790 1186 3
: 791 1187 2 $CMEXEC(ROUTIN = exit_process);
: 792 1188 2 ! Terminate process
: 793 1189 1 END;

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2
54 4E 49 52 50 24 53 59 53 00024 P.AAF: .ASCII \SYSSPRINT\
.EXTRN SYSS$CMEXEC, SYSS$CMKRNL
.PSECT $CODE$,NOWRT,2

```

07FC 00000 STOP_BATCH JOB:

```

: 0955 .WORD Save ,2,R3,R4,R5,R6,R7,R8,R9,R10
5A 00000000G 00 9E 00002 MOVAB SYSS$CMEXEC, R10
59 00000000G 00 9E 00009 MOVAB PPD+72, R9
58 00000000G 00 9E 00010 MOVAB OUTPUT_FAB+4, R8
57 00000000G 00 9E 00017 MOVAB OUTPUT_NAM+3, R7
5E FD78 CE 9E 0001E MOVAB -648(SP), SP
52 CC A9 D0 00023 MOVL PPD+20, R2
0A 00000000G 00 00 FB 00027 CALLS #0, LOGOUT_MESSAGE
05 04 BC 01 E1 0002E BBC #1, @FLAGS, 1$
05 04 BC 03 E0 00033 BBS #3, @FLAGS, 1$
01 AB 80 8F 88 00038 BISB2 #128, OUTPUT_FAB+5
00000000G 00 7E D4 0003D 1$: CLRL -(SP)
6A 00000000G 00 9F 0003F PUSHAB CLOSE OUTPUT
00000000G 00 02 FB 00045 CALLS #2, SYSS$CMEXEC
00000000G 00 62 DD 00048 PUSHL (R2)
03 00000000G 00 00 9F 0004A PUSHAB SET_UIC
04 BC 02 FB 00050 CALLS #2, SYSS$CMKRNL
0154 03 E0 00057 BBS #3, @FLAGS, 2$
0154 31 0005C BRW 20$
F8 AD 7C 0005F 2$: CLRQ QUEUE_NAME
F0 AD 7C 00062 CLRQ JOB_NAME
50 08 AC D0 00065 MOVL BUFFER, WRDPTR
51 02 A0 3C 00069 3$: MOVZWL 2(WRDPTR), R1
05 30 13 0006D BEQL 7$
05 51 B1 0006F CMPW R1, #5
F8 AD 0E 12 00072 BNEQ 4$
FC AD 60 3C 00074 MOVZWL (WRDPTR), QUEUE_NAME
F4 AD 04 A0 9E 00078 MOVAB 4(R0), QUEUE_NAME+4
F4 AD D5 0007D TSTL JOB_NAME+4
04 11 11 00080 BRB 5$
04 51 B1 00082 4$: CMPW R1, #4
F0 AD 0E 12 00085 BNEQ 6$
F4 AD 60 3C 00087 MOVZWL (WRDPTR), JOB_NAME
F4 AD 04 A0 9E 0008B MOVAB 4(R0), JOB_NAME+4
FC AD D5 00090 TSTL QUEUE_NAME+4
51 0A 12 00093 5$: BNEQ 7$
50 60 3C 00095 6$: MOVZWL (WRDPTR), R1
04 A140 9E 00098 MOVAB 4(R1)[WRDPTR], WRDPTR
: 1000
: 1015
: 1018
: 1020
: 1023
: 1024
: 1025
: 1028
: 1031
: 1032
: 1033
: 1036

```


			CA	11	0009D		BRB	3\$	1016
		F8	AD	D5	0009F	7\$:	TSTL	QUEUE_NAME	1041
			0A	12	000A2		BNEQ	8\$	
	F8	AD	09	D0	000A4		MOVL	#9, QUEUE_NAME	1044
	FC	AD	CF	9E	000A8		MOVAB	P.AAF, QUEUE_NAME+4	1045
		56	FF	78	CD	9E	000AE	8\$:	1050
86	F8	AD	00860000	8F	C9	000B3	MOVAB	ITMLST, PTR	1055
		86	FC	AD	D0	000BC	BISL3	#8781824, QUEUE_NAME, (PTR)+	1056
				86	D4	000C0	MOVL	QUEUE_NAME+4, (PTR)+	1057
86	F0	AD	004F0000	8F	C9	000C2	CLRL	(PTR)+	1062
		86	F4	AD	D0	000CB	BISL3	#5177344, JOB_NAME, (PTR)+	1063
				86	D4	000CF	MOVL	JOB_NAME+4, (PTR)+	1064
09	04	BC		04	E1	0C0D1	CLRL	(PTR)+	1069
		86	006C0000	8F	D0	000D6	BBC	#4, @FLAGS, 9\$	1072
				86	7C	000DD	MOVL	#7077888, (PTR)+	1073
				69	95	000DF	CLRQ	(PTR)+	1079
				27	13	000E1	TSTB	PPD+72	
		86	0027001C	8F	D0	000E3	BEQL	11\$	1085
		86		69	9E	000EA	MOVL	#2555932, (PTR)+	1086
				86	D4	000ED	MOVAB	PPD+72, (PTR)+	1087
09	04	BC		01	E1	000EF	CLRL	(PTR)+	1092
		86	00180000	8F	D0	000F4	BBC	#1, @FLAGS, 10\$	1095
				86	7C	000FB	MOVL	#1572864, (PTR)+	1096
		66	00710000	8F	D0	000FD	CLRQ	(PTR)+	1102
			04	A6	7C	00104	MOVL	#7405568, (PTR)	1103
				0090	31	00107	CLRQ	4(PTR)	1104
		50	0C	AC	D0	0010A	BRW	18\$	1109
				03	12	0010E	MOVL	SIGNAL_ARGS, R0	
				008A	31	00110	BNEQ	12\$	
		51		6E	9E	00113	BRW	19\$	1116
		53		51	D0	00116	MOVAB	INPUT_BUFFER, I	
		83	80020004	8F	D0	00119	MOVL	I, P	1118
		83	04	A0	D0	00120	MOVL	#-2147352572, (P)+	1120
		03		60	91	00124	MOVL	4(R0), (P)+	1122
				07	1F	00127	CMPB	(R0), #3	
		61		08	B0	00129	BLSSU	13\$	1125
		83	0C	A0	D0	0012C	MOVW	#8, (I)	1126
		04		60	91	00130	MOVL	12(R0), (P)+	1129
				07	1F	00133	CMPB	(R0), #4	
		61		0C	B0	00135	BLSSU	14\$	1132
		83	10	A0	D0	00138	MOVW	#12, (I)	1133
		50		67	9A	0013C	MOVL	16(R0), (P)+	1137
				12	13	0013F	MOVZBL	OUTPUT_NAM+3, R0	
02	A3	8003		8F	B0	00141	BEQL	15\$	1140
	83			50	B0	00147	MOVW	#-32765, 2(P)	1141
	53			02	C0	0014A	MOVW	R0, (P)+	1142
	51	01		A7	D0	0014D	ADDL2	#2, P	1145
				2C	11	00151	MOVL	OUTPUT_NAM+4, R1	1146
		50	08	A7	9A	00153	BRB	17\$	1148
				12	13	00157	MOVZBL	OUTPUT_NAM+11, R0	
02	A3	8003		8F	B0	00159	BEQL	16\$	1151
	83			50	B0	0015F	MOVW	#-32765, 2(P)	1152
	53			02	C0	00162	MOVW	R0, (P)+	1153
	51	09		A7	D0	00165	ADDL2	#2, P	1156
				14	11	00169	MOVL	OUTPUT_NAM+12, R1	1157
02	A3	8003		8F	B0	0016B	BRB	17\$	1161
	50	30		A8	9A	00171	MOVW	#-32765, 2(P)	1162
							MOVZBL	OUTPUT_FAB+52, R0	

	83		50	B0	00175	MOVW	R0, (P)+		
	53		02	C0	00178	ADDL2	#2, P		1163
	51	28	A8	D0	00178	MOVL	OUTPUT FAB+44, R1		1166
63	61		50	28	0017F	17\$:	MOVCL3	R0, (RT), (P)	1167
			83	D4	00183		CLRL	(P)+	1170
	50		6E	9E	00185		MOVAB	INPUT BUFFER, R0	1173
	53		50	C2	00188		SUBL2	R0, R3	
66	53	000A0000	8F	C9	0018B		BISL3	#655360, R3, (PTR)	
	A6	04	6E	9E	00193		MCVAB	INPUT BUFFER, 4(PTR)	1174
			A6	D4	00197		CLRL	8(PTR)	1175
	56		0C	C0	0019A	18\$:	ADDL2	#12, PTR	1176
			66	D4	0019D	19\$:	CLRL	(PTR)	1181
			7E	7C	0019F		CLRQ	-(SP)	1184
			7E	D4	001A1		CLRL	-(SP)	
		FF78	CD	9F	001A3		PUSHAB	ITMLST	
	7E		13	7D	001A7		MOVQ	#19, -(SP)	
			7E	D4	001AA		CLRL	-(SP)	
	00000000G	00	07	FB	001AC		CALLS	#7, SYSSNDJBCW	
			7E	D4	001B3	20\$:	CLRL	-(SP)	1187
		00000000G	00	9F	001B5		PUSHAB	EXIT PROCESS	
	6A		02	FB	001BB		CALLS	#2, SYSSCMEXEC	
			04	001BE			RET		1189

; Routine Size: 447 bytes, Routine Base: \$CODE\$ + 032A

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795 1190 1 GLOBAL ROUTINE init_network: NOVALUE =
796 1191 1
797 1192 1 ---
798 1193 1
799 1194 1 Perform initializations of a network job. The primary logical
800 1195 1 names have been setup by the calling process (NETACP).
801 1196 1
802 1197 1 Inputs:
803 1198 1
804 1199 1 sys$input = Name of command procedure to be invoked
805 1200 1 sys$output = 3 concatenated ASCII access control strings
806 1201 1 (username, password, account)
807 1202 1 sys$error = Network control block (NCB) for connect
808 1203 1
809 1204 1 Outputs:
810 1205 1
811 1206 1 uaf_record = Address of UAF record, if any
812 1207 1 ---
813 1208 1
814 1209 2 BEGIN
815 1210 2
816 1211 2 LOCAL
817 1212 2 len,
818 1213 2 ptr,
819 1214 2 username: VECTOR [2], ! Username descriptor
820 1215 2 password: VECTOR [2], ! Password descriptor
821 1216 2 account: VECTOR [2]; ! Account descriptor
822 1217 2
823 1218 2 job_type = jib$c_network; ! Say this is a network job
824 1219 2
825 1220 2
826 1221 2 ! Get logical link number from NCB and store remote node info in P1 space
827 1222 2
828 1223 2
829 1224 2 IF NOT CH$FAIL(ptr = CH$FIND_CH(.sys$error [0], .sys$error [1], '/'))
830 1225 2 THEN
831 1226 2 set_node_name(.(.ptr + 1)<0,16>); ! Set remote node info in P1 space
832 1227 2
833 1228 2
834 1229 2 ! Check to see if this network job should use the proxy login. This is
835 1230 2 determined by checking the low bit of the first word of the string
836 1231 2 described by the sys$output descriptor. If the bit is set, then attempt
837 1232 2 a proxy login. If that fails, then use the access control string described
838 1233 2 by the sys$output descriptor.
839 1234 2
840 1235 2
841 1236 2 ptr = ..sys$output[1]; ! Get first two words of SYSS$OUTPUT string
842 1237 2
843 1238 2 sys$output[0] = .sys$output[0] - 2; ! Drop flag word off SYSS$OUTPUT string
844 1239 2 sys$output[1] = .sys$output[1] + 2;
845 1240 2
846 1241 2 IF NOT
847 1242 2 BEGIN
848 1243 2 IF .ptr<0,1> THEN get_proxy() ! If low bit set then try proxy login
849 1244 2 ELSE FALSE ! Otherwise set FALSE
850 1245 2 END
851 1246 2 THEN ! If no proxy, or proxy failed

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852      1247      BEGIN
853      1248      ptr = .sys$output [1];
854      1249
855      1250      username [0] = CH$RCHAR_A(ptr);
856      1251      username [1] = .ptr;
857      1252
858      1253      ptr = .ptr + .username [0];
859      1254      password [0] = CH$RCHAR_A(ptr);
860      1255      password [1] = .ptr;
861      1256
862      1257      ptr = .ptr + .password [0];
863      1258      account [0] = CH$RCHAR_A(ptr);
864      1259      account [1] = .ptr;
865      1260
866      1261      IF NOT .pcb_sts [$BITPOSITION(pcb$v_login)]
867      1262      THEN validate_uafrec(username,
868      1263      password,
869      1264      UPLIT (0,0));
870      1265
871      1266      END;
872      1267
873      1268      :: Create SYSS$NET logical name with contents of NCB
874      1269
875      1270
876      1271      create_logical(%ASCID 'SYSS$NET',
877      1272      sys$error,
878      1273      psl$c_exec);
879      1274
880      1275
881      1276      :: If the input file has the file type .EXE, then rather than activating
882      1277      the CLI and creating a log file, activate the program from a small
883      1278      code segment in P1 space. This is done to optimize network job
884      1279      activation time.
885      1280
886      1281
887      1282      IF NOT CH$FAIL(CH$FIND_SUB(.sys$input [0], .sys$input [1],
888      1283      4, UPLIT BYTE('.EXE')))
889      1284      THEN
890      1285      BEGIN
891      1286      $CMEXEC(ROUTIN = map_imgact);
892      1287      input_fab [fab$l_fna] = UPLIT BYTE('_NL:');
893      1288      input_fab [fab$b_fns] = 4;
894      1289      output_fab [fab$l_fna] = .input_fab [fab$l_fna];
895      1290      output_fab [fab$b_fns] = .input_fab [fab$b_fns];
896      1291      RETURN;
897      1292      END;
898      1293
899      1294
900      1295      :: Set default filespec for input file
901      1296
902      1297
903      1298      input_fab [fab$l_dna] = UPLIT BYTE('CONNECT.COM');
904      1299      input_fab [fab$b_dns] = 11;
905      1300
906      1301
907      1302      :: Construct filespec of output log file for network job
908      1303

```

```

909 1304 2 ptr = (sys$output [1] = .sys$input [1]);
910 1305 2 IF (len = (sys$output [0] = .sys$input [0])) NEQ 0
911 1306 2 THEN
912 1307 2 BEGIN
913 1308 2 DO
914 1309 2 BEGIN
915 1310 2 LOCAL
916 1311 2 chr: BYTE;
917 1312 2 chr = CH$RCHAR A(ptr);
918 1313 2 IF .chr EQL ':'
919 1314 2 OR .chr EQL ']'
920 1315 2 OR .chr EQL '>'
921 1316 2 THEN
922 1317 2 BEGIN
923 1318 2 sys$output [1] = .ptr;
924 1319 2 sys$output [0] = .len - 1;
925 1320 2 END;
926 1321 2 len = .len - 1;
927 1322 2 END
928 1323 2 WHILE .len GTR 0;
929 1324 2 IF NOT CH$FAIL(ptr = CH$FIND_CH(.sys$output [0], .sys$output [1], '.'))
930 1325 2 THEN
931 1326 2 sys$output [0] = CH$DIFF(.ptr, .sys$output [1]);
932 1327 2 END;
933 1328 2 output_fab [fab$b_fns] = .sys$output [0]; ! Set as primary output filespec
934 1329 2 output_fab [fab$l_fna] = .sys$output [1];
935 1330 2
936 1331 2
937 1332 2
938 1333 1 END;

```

```

.PSECT $PLITS,NOWRT,NOEXE,2
00 54 45 4E 24 53 59 53 0002D .BLKB 3
00030 P.AAG: .LONG 0, 0
00038 P.AAI: .ASCII \SYS$NET\<0>
010E0007 00040 P.AAH: .LONG 17694727
00000000' 00044 .ADDRESS P.AAI
45 58 45 2E 00048 P.AAJ: .ASCII \.EXE\
3A 4C 4E 5F 0004C P.AAK: .ASCII \NL:\
4D 4F 43 2E 54 43 45 4E 4E 4F 43 00050 P.AAL: .ASCII \CONNECT.COM\

.PSECT $CODE$,NOWRT,2
07FC 00000 .ENTRY INIT_NETWORK, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 1190
5A 0000' CF 9E 00002 MOVAB P.AAG, R10
59 00000000G 00 9E 00007 MOVAB SYSSERROR, R9
58 00000000G 00 9E 0000E MOVAB OUTPUT FAB+44, R8
57 00000000G 00 9E 00015 MOVAB SYSSINPUT+4, R7
56 00000000G 00 9E 0001C MOVAB !NPUT FAB+44, R6
55 00000000G 00 9E 00023 MOVAB SYSSOUTPUT+4, R5
5E 18 C2 0002A SUBL2 #24, SP

```

00000000G	00		01	D0	0002D	MOVL	#1, JOB TYPE	1218
	50		A9	D0	00034	MOVL	SYSS\$ERROR+4, R0	1224
60	69		2F	3A	00038	LOCC	#47, SYSS\$ERROR, (R0)	
			02	12	0003C	BNEQ	1\$	
	54		51	D4	0003E	CLRL	R1	
			51	D0	00040	1\$: MOVL	R1, PTR	
	7E		0B	13	00043	BEQL	2\$	
00000000G	00		A4	3C	00045	MOVZWL	1(PTR), -(SP)	1226
	50		01	FB	00049	CALLS	#1, SET NODE_NAME	
	54		65	D0	00050	2\$: MOVL	SYSS\$OUTPUT+4, R0	1236
FC	A5		60	D0	00053	MOVL	(R0), PTR	
	65		02	C2	00056	SUBL2	#2, SYSS\$OUTPUT	1238
	08		02	C0	0005A	ADDL2	#2, SYSS\$OUTPUT+4	1239
0000V	CF		54	E9	0005D	BLBC	PTR, 3\$	1243
	39		00	FB	00060	CALLS	#0, GET_PROXY	
	54		50	EB	00065	BLBS	R0, 4\$	
	10		65	D0	00068	3\$: MOVL	SYSS\$OUTPUT+4, PTR	1248
	14		84	9A	0006B	MOVZBL	(PTR)+, USERNAME	1250
	54		54	D0	0006F	MOVL	PTR, USERNAME+4	1251
	08		AE	C0	00073	ADDL2	USERNAME, PTR	1253
	0C		84	9A	00077	MOVZBL	(PTR)+, PASSWORD	1254
	54	10	54	D0	0007B	MOVL	PTR, PASSWORD+4	1255
	6E		AE	C0	0007F	ADDL2	PASSWORD, PTR	1257
	04		84	9A	00083	MOVZBL	(PTR)+, ACCOUNT	1258
OF 00000000G	00		54	D0	00086	MOVL	PTR, ACCOUNT+4	1259
			04	E0	0008A	BBS	#4, PCB_STS+2, 4\$	1261
			5A	DD	00092	PUSHL	R10	1264
			AE	9F	00094	PUSHAB	PASSWORD	1262
			AE	9F	00097	PUSHAB	USERNAME	
00000000G	00		03	FB	0009A	CALLS	#3, VALIDATE_UAFREC	
			01	DD	000A1	4\$: PUSHL	#1	1271
			59	DD	000A3	PUSHL	R9	
			AA	9F	000A7	PUSHAB	P.AAH	
00000000G	00		03	FB	000AB	CALLS	#3, CREATE LOGICAL	
	50		67	D0	000AF	MOVL	SYSS\$INPUT+4, R0	1282
60	FC	A7	04	39	000B2	MATCHC	#4, P.AAJ, SYSS\$INPUT, (R0)	1283
			03	13	000B9	BEQL	5\$	
	53		04	D0	000BB	MOVL	#4, R3	
	53		04	C2	000BE	5\$: SUBL2	#4, R3	
			20	13	000C1	BEQL	6\$	
			7E	D4	000C3	CLRL	-(SP)	1286
00000000G	00	00000000G	00	9F	000C5	PUSHAB	MAP_IMGACT	
	66		02	FB	000CB	CALLS	#2, SYSS\$CMEXEC	
	08		AA	9E	000D2	MOVAB	P.AAK, INPUT_FAB+44	1287
	68		04	90	000D6	MOVB	#4, INPUT_FAB+52	1288
	08		66	D0	000DA	MOVL	INPUT_FAB+44, OUTPUT_FAB+44	1289
			08	A6	000DD	MOVB	INPUT_FAB+52, OUTPUT_FAB+52	1290
	04			04	000E2	RET		1285
	09		AA	9E	000E3	6\$: MOVAB	P.AAL, INPUT_FAB+48	1298
	50		0B	90	000E8	MOVB	#11, INPUT_FAB+53	1299
	65		67	D0	000EC	MOVL	SYSS\$INPUT+4, R0	1305
	54		50	D0	000EF	MOVL	R0, SYSS\$OUTPUT+4	
	50		50	D0	000F2	MOVL	R0, PTR	
FC	A5		FC	A7	000F5	MOVL	SYSS\$INPUT, R0	1306
				50	000F9	MOVL	R0, SYSS\$OUTPUT	
	51		34	13	000FD	BEQL	11\$	
			84	90	000FF	7\$: MOVB	(PTR)+, CHR	1313

DETACHED
V04-000

H 13
16-Sep-1984 01:59:01
14-Sep-1984 12:41:05

VAX-11 Bliss-32 V4.0-742
[LOGIN.SRC]DETACHED.B32;1

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(6)

			3A	51	91	00102		CMPB	CHR, #58	:	1314
				08	13	00105		BEQL	8\$:	
	5D		8F	51	91	00107		CMPB	CHR, #93	:	1315
				05	13	00108		BEQL	8\$:	
			3E	51	91	0010D		CMPB	CHR, #62	:	1316
				08	12	00110		BNEQ	9\$:	
			65	54	D0	00112	8\$:	MOVL	PTR, SYSS\$OUTPUT+4	:	1319
	FC		A5	A0	9E	00115		MOVAB	-1(R0), SYSS\$OUTPUT	:	1320
			E2	50	F5	0011A	9\$:	SOBGTR	LEN, 7\$:	1322
			52	65	D0	0011D		MOVL	SYSS\$OUTPUT+4, R2	:	1325
	62		FC	2E	3A	00120		LOCC	#46, SYSS\$OUTPUT, (R2)	:	
				02	12	00125		BNEQ	10\$:	
				51	D4	00127		CLRL	R1	:	
			54	51	D0	00129	10\$:	MOVL	R1, PTR	:	
				05	13	0012C		BEQL	11\$:	
	FC	A5		52	C3	0012E		SUBL3	R2, PTR, SYSS\$OUTPUT	:	1327
			08	A5	90	00133	11\$:	MOVB	SYSS\$OUTPUT, OUTPUT_FAB+52	:	1330
				65	D0	00138		MOVL	SYSS\$OUTPUT+4, OUTPUT_FAB+44	:	1331
			68	04	0013B			RET		:	1333

; Routine Size: 316 bytes, Routine Base: \$CODE\$ + 04E9

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: 940      1334 1 ROUTINE get_proxy =
: 941      1335 ---
: 942      1336
: 943      1337         Get the local username that is mapped to the remote username.
: 944      1338         The remote username is contained in the NCB string described
: 945      1339         by NCB_DESC, the NCB descriptor.
: 946      1340
: 947      1341     Inputs:
: 948      1342
: 949      1343         sys$error = address of NCB descriptor
: 950      1344
: 951      1345     Outputs:
: 952      1346
: 953      1347         uaf_record = Address of UAF record, if any
: 954      1348
: 955      1349     Status returns:
: 956      1350
: 957      1351         TRUE => Proxy username found
: 958      1352         FALSE => No proxy username found
: 959      1353
: 960      1354 ---
: 961      1355
: 962      1356 2 BEGIN
: 963      1357
: 964      1358 2 LOCAL
: 965      1359     status,
: 966      1360     netfab : BBLOCK[fab$c_bln],           ! Fab for NETUAF.DAT
: 967      1361     netrab : BBLOCK[rab$c_bln],           ! Rab for NETUAF.DAT
: 968      1362     net_record : BBLOCK[naf$c_length],       ! Place to put a record
: 969      1363     user_desc : VECTOR[2],           ! Username descriptor
: 970      1364     ptr,                               ! Temp pointer
: 971      1365     node_len,                             ! Length of node
: 972      1366     node_ptr,                             ! Pointer to beginning of node
: 973      1367     user_len,                             ! Length of username
: 974      1368     user_ptr;                             ! Pointer to beginning of username
: 975      1369
: 976      1370
: 977      1371 2 ! Initialize the FAB and RAB
: 978      1372
: 979      1373 P $FAB_INIT ( FAB = netfab,
: 980      1374 P     FAC = get,                               ! Want to get records
: 981      1375 P     FNM = 'NETUAF',                           ! Name is NETUAF
: 982      1376 P     DNM = 'SYS$SYSTEM:.DAT',                 ! Look in SYS$SYSTEM
: 983      1377     SHR = (get,put,upd,del));                 ! Do shared access
: 984      1378
: 985      1379 2 ! Disable group and process logical name translation. This must be
: 986      1380 2 done manually, since $FAB_INIT doesn't know about the disable mask.
: 987      1381
: 988      1382 2 netfab[fab$v_lnm_mode] = psl$c_exec;
: 989      1383
: 990      1384 P $RAB_INIT ( RAB = netrab,
: 991      1385 P     ROP = rrl,                               ! Don't lock records
: 992      1386 P     RAC = key,                               ! Access is keyed
: 993      1387 P     KRF = 0,                                 ! Use primary key
: 994      1388 P     KBF = net_record[naf$t_remname],           ! Lookup key overlays net record
: 995      1389 P     KSZ = naf$s_remname,                       ! and it's this long
: 996      1390 P     UBF = net_record,                         ! Fetch record and put it here

```



```

: 997 P 1391      USZ = naf$c length,      ! Size of record
: 998      1392      FAB = netfab);
: 999      1393
: 1000     1394
: 1001     1395      : Open NETUAF
: 1002     1396
: 1003     1397      set sysprv ();
: 1004     1398      IF NOT (status = $OPEN (FAB = netfab))
: 1005     1399      THEN
: 1006     1400      BEGIN
: 1007     1401      clear_sysprv ();
: 1008     1402      IF .status EQL rms$_fnf
: 1009     1403      THEN RETURN false;
: 1010     1404      SIGNAL_STOP (lgi$_netuafacc, 0, .status, .netfab[fab$_stv]);
: 1011     1405      END;
: 1012     1406
: 1013     1407      IF NOT (status = $CONNECT (RAB = netrab))
: 1014     1408      THEN
: 1015     1409      BEGIN
: 1016     1410      IF .status EQL rms$_crmp
: 1017     1411      THEN
: 1018     1412      BEGIN
: 1019     1413      netfab[fab$_w_gbc] = 0;
: 1020     1414      status = $CONNECT (RAB = netrab);
: 1021     1415      END;
: 1022     1416      IF NOT .status
: 1023     1417      THEN
: 1024     1418      BEGIN
: 1025     1419      clear_sysprv ();
: 1026     1420      $CLOSE (FAB = netfab);
: 1027     1421      SIGNAL_STOP (lgi$_netuafacc, 0, .status, .netrab[rab$_stv]);
: 1028     1422      END;
: 1029     1423      END;
: 1030     1424
: 1031     1425      clear_sysprv ();
: 1032     1426
: 1033     1427      :
: 1034     1428      : Get the remote node and remote username from the Network Control Block.
: 1035     1429      : The NCB is an ASCII string that looks like this:
: 1036     1430
: 1037     1431      NODE::'OBJECT=USERNAME/<more stuff>'
: 1038     1432
: 1039     1433      : Where NODE and USERNAME are the two fields to extract and use as a key,
: 1040     1434      : to locate the record in NETUAF.DAT which contains the local username to
: 1041     1435      : map to.
: 1042     1436
: 1043     1437      :
: 1044     1438      : First, get the node.
: 1045     1439
: 1046     1440
: 1047     1441
: 1048     1442      ptr = CHSFIND_SUB ( .sys$error[0],      ! Search the NCB string
: 1049     1443      sys$error[1],
: 1050     1444      2, UPLIT ('::'));      ! Looking for ::
: 1051     1445
: 1052     1446
: 1053     1447      : If the node wasn't there, then return FALSE and process with no proxy

```

```

: 1054      1448      2  !
: 1055      1449      2  2
: 1056      1450      2  IF .ptr EQL 0 OR
: 1057      1451      2  .ptr EQL .sys$error[1]
: 1058      1452      2  THEN RETURN false;
: 1059      1453      2  2
: 1060      1454      2  node_len = .ptr - .sys$error[1];      ! Store node length
: 1061      1455      2  node_ptr = .sys$error[1];           ! And starting address
: 1062      1456      2  2
: 1063      1457      2  !
: 1064      1458      2  ! Get the username. This is done by looking for the '=', then the
: 1065      1459      2  ! '/', and interpreting whatever is between the two characters as the
: 1066      1460      2  ! username.
: 1067      1461      2  !
: 1068      1462      2  2
: 1069      1463      2  ptr = CH$FIND_CH ( .sys$error[0],      ! Search the NCB string
: 1070      1464      2  .sys$error[1],
: 1071      1465      2  '=');      ! Looking for equal sign
: 1072      1466      2  2
: 1073      1467      2  IF .ptr EQL 0      ! If no such character found
: 1074      1468      2  THEN RETURN false;      ! return a value of FALSE
: 1075      1469      2  2
: 1076      1470      2  user_ptr = .ptr + 1;      ! Compute beginning of username
: 1077      1471      2  2
: 1078      1472      2  ptr = CH$FIND_CH ( .sys$error[0],      ! Search the NCB string
: 1079      1473      2  .sys$error[1],
: 1080      1474      2  '/');      ! Looking for slash
: 1081      1475      2  2
: 1082      1476      2  !
: 1083      1477      2  ! If no slash, or a null username, return FALSE
: 1084      1478      2  !
: 1085      1479      2  2
: 1086      1480      2  IF .ptr EQL 0 OR
: 1087      1481      2  .ptr EQL .user_ptr
: 1088      1482      2  THEN RETURN false;
: 1089      1483      2  2
: 1090      1484      2  !
: 1091      1485      2  ! Otherwise, compute the username length
: 1092      1486      2  !
: 1093      1487      2  2
: 1094      1488      2  user_len = .ptr - .user_ptr;
: 1095      1489      2  2
: 1096      1490      2  !
: 1097      1491      2  ! Copy the node and username to NET_KEY, the key buffer that RMS will
: 1098      1492      2  ! use to look for the specified record.
: 1099      1493      2  2
: 1100      1494      2  CH$COPY ( .node_len, .node_ptr,      ! Copy the nodename
: 1101      1495      2  naf$s_node, net_record[naf$t_node]); ! Padded with blanks
: 1102      1496      2  ! To the key buffer
: 1103      1497      2  2
: 1104      1498      2  CH$COPY ( .user_len, .user_ptr,      ! Copy the username
: 1105      1499      2  naf$s_remuser, net_record[naf$t_remuser]); ! Padded with blanks
: 1106      1500      2  2
: 1107      1501      2  !
: 1108      1502      2  !
: 1109      1503      2  ! Now perform a $GET, so see if there is a record in NETUAF that
: 1110      1504      2  ! exactly matches the node and username specified. If no exact match

```

```

: 1111 1505 2 | is found, wildcarding is applied in the following order:
: 1112 1506 2 |
: 1113 1507 2 |     Wildcard node, specific user
: 1114 1508 2 |     Specific node, wildcard user
: 1115 1509 2 |     Wildcard node, wildcard user
: 1116 1510 2 |
: 1117 1511 2 | If a match is found, then it is used and no further checking is done.
: 1118 1512 2 |
: 1119 1513 2 | IF NOT ($GET (RAB = netrāb))
: 1120 1514 2 | THEN
: 1121 1515 2 | BEGIN
: 1122 1516 2 |     CH$COPY ( 1, UPLIT ('*'),           ! Put in wildcard node
: 1123 1517 2 |             naf$s_node, net_record[naf$t_node]);
: 1124 1518 2 |
: 1125 1519 2 | IF NOT ($GET (RAB = netrāb))
: 1126 1520 2 | THEN
: 1127 1521 2 | BEGIN
: 1128 1522 2 |     CH$COPY ( ,node_len, .node_ptr,     ! Specific node,
: 1129 1523 2 |             naf$s_node, net_record[naf$t_node]);
: 1130 1524 2 |
: 1131 1525 2 |     CH$COPY ( 1, UPLIT ('*'),           ! Wildcard user
: 1132 1526 2 |             naf$s_remuser, net_record[naf$t_remuser]);
: 1133 1527 2 |
: 1134 1528 2 | IF NOT ($GET (RAB = netrāb))
: 1135 1529 2 | THEN
: 1136 1530 2 | BEGIN
: 1137 1531 2 |     CH$COPY ( 1, UPLIT ('*'),           ! Wildcard node and user
: 1138 1532 2 |             naf$s_node, net_record[naf$t_node]);
: 1139 1533 2 |
: 1140 1534 2 | IF NOT ($GET (RAB = netrāb))
: 1141 1535 2 | THEN
: 1142 1536 2 | BEGIN
: 1143 1537 2 |     $CLOSE(FAB = netfab);
: 1144 1538 2 |     RETURN false;           ! If no matches, return false
: 1145 1539 2 |     END;
: 1146 1540 2 | END;
: 1147 1541 2 | END;
: 1148 1542 2 | END;
: 1149 1543 2 |
: 1150 1544 2 | Close NETUAF
: 1151 1545 2 |
: 1152 1546 2 |
: 1153 1547 2 | $CLOSE (FAB = netfab);
: 1154 1548 2 |
: 1155 1549 2 | If we get here, then a match was found. Check to see if the local username
: 1156 1550 2 | is actually a '*', in which case copy the remote username to the local
: 1157 1551 2 | username.
: 1158 1552 2 |
: 1159 1553 2 |
: 1160 1554 2 | IF .VECTOR [net_record[naf$t_localuser], 0; ,BYTE] EQL '*'
: 1161 1555 2 | THEN CH$COPY ( ,user_len, .user_ptr,
: 1162 1556 2 |             naf$s_localuser, net_record[naf$t_localuser]);
: 1163 1557 2 |
: 1164 1558 2 |
: 1165 1559 2 |
: 1166 1560 2 | Now fill in the user descriptor with the local username, and call
: 1167 1561 2 | GET_UAFREC, to get the UAF record without checking for password.

```

```

: 1168      1562 2 !
: 1169      1563 2
: 1170      1564 2 user_desc[0] = naf$s_localuser;
: 1171      1565 2 user_desc[1] = net_record[naf$t_localuser];
: 1172      1566 2
: 1173      1567 2 get_uafrec (user_desc);
: 1174      1568 2
: 1175      1569 2 !
: 1176      1570 2 ! Done. If a UAF record was found, return TRUE. Otherwise return FALSE.
: 1177      1571 2 !
: 1178      1572 2
: 1179      1573 2 RETURN (.uaf_record NEQ 0);
: 1180      1574 1 END;

```

```

.PSECT SPLITS,NOWRT,NOEXE,2
54 41 44 2E 3A 4D 45 54 53 46 41 55 54 45 4E 0005B P.AAM: .ASCII \NETUAF\
00 00 3A 3A 00061 P.AAN: .ASCII \SYSS$SYSTEM:.DAT\
00 00 00 2A 00070 P.AAO: .ASCII \::\<0><0>
00 00 00 2A 00074 P.AAP: .ASCII \*\<0><0><0>
00 00 00 2A 00078 P.AAQ: .ASCII \*\<0><0><0>
00 00 00 2A 0007C P.AAR: .ASCII \*\<0><0><0>

.EXTRN SYSS$OPEN, SYSS$CONNECT
.EXTRN SYSS$CLOSE, SYSS$GET

.PSECT $CODE$,NOWRT,2
OFFC 00000 GET_PROXY:
5B 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 1334
5A 00000000G 00 9E 00009 MOVAB CLEAR SYSPRV, R11
5E FF00 CE 9E 00010 MOVAB SYSS$GET, R10
6E B0 AD 00 2C 00015 MOVCS -256(SP), SP : 1377
B0 AD 5003 8F B0 0001E MOVW #20483, $RMS_PTR
C6 AD 0F02 8F B0 00024 MOVW #3842, $RMS_PTR+22
CF AD 02 90 0002A MOVB #2, $RMS_PTR+31
DC AD 0000' CF 9E 0002E MOVAB P.AAM, $RMS_PTR+44
E0 AD 0000' CF 9E 00034 MOVAB P.AAN, $RMS_PTR+48
E4 AD 0F06 8F B0 0003A MOVW #3846, $RMS_PTR+52
FA AD 02 01 F0 00040 INSV #1, #0, #2, NETFAB+74 : 1382
0044 8F 00 00 2C 00046 MOVCS #0, (SP), #0, #68, $RMS_PTR : 1392
6C AE 4401 8F B0 0004F MOVW #17409, $RMS_PTR
70 AE 08 D0 00055 MOVL #8, $RMS_PTR+4
8A AD 01 90 00059 MOVB #1, $RMS_PTR+30
8C AD 64 8F 9B 0005D MOVZBW #100, $RMS_PTR+32
90 AD 08 AE 9E 00062 MOVAB NET_RECORD, $RMS_PTR+36
9C AD 08 AE 9E 00067 MOVAB NET_RECORD, $RMS_PTR+48
A0 AD 40 8F 90 0006C MOVB #64, $RMS_PTR+52
A8 AD B0 AD 9E 00071 MOVAB NETFAB, $RMS_PTR+60
00000000G 00 00 FB 00076 CALLS #0, SET_SYSPRV : 1397
00000000G 00 B0 AD 9F 0007D PUSHAB NETFAB : 1398
01 FB 00080 CALLS #1, SYSS$OPEN

```

	52		50	D0	00087	MOVL	R0, STATUS		
	23		52	E8	0008A	BLBS	STATUS, 2\$		
	6B		00	FB	0008D	CALLS	#0, CLEAR_SYSPRV		1401
00018292	8F		52	D1	00090	CMPL	STATUS, #98962		1402
			03	12	00097	BNEQ	1\$		
			014B	31	00099	BRW	12\$		
		BC	AD	DD	0009C	1\$:	PUSHL	NETFAB+12	1404
			52	DD	0009F		PUSHL	STATUS	
			7E	D4	000A1		CLRL	-(SP)	
00000000G	00	00000000G	8F	DD	000A3		PUSHL	#LGI\$ NETUAFACC	
			04	FB	000A9		CALLS	#4, LIB\$STOP	
00000000G	00	6C	AE	9F	000B0	2\$:	PUSHAB	NETRAB	1407
			01	FB	000B3		CALLS	#1, SYSS\$CONNECT	
			50	D0	000BA		MOVL	R0, STATUS	
0001C14C	8F		52	E8	000BD		BLBS	STATUS, 4\$	
			52	D1	000C0		CMPL	STATUS, #115020	1410
			10	12	000C7		BNEQ	3\$	
		F8	AD	B4	000C9		CLRW	NETFAB+72	1413
		6C	AE	9F	000CC		PUSHAB	NETRAB	1414
00000000G	00		01	FB	000CF		CALLS	#1, SYSS\$CONNECT	
			50	D0	000D6		MOVL	R0, STATUS	
			52	E8	000D9	3\$:	BLBS	STATUS, 4\$	1416
			00	FB	000DC		CALLS	#0, CLEAR_SYSPRV	1419
			AD	9F	000DF		PUSHAB	NETFAB	1420
00000000G	00	B0	01	FB	000E2		CALLS	#1, SYSS\$CLOSE	
			AE	DD	000E9		PUSHL	NETRAB+12	1421
			52	DD	000EC		PUSHL	STATUS	
			7E	D4	000EE		CLRL	-(SP)	
		00000000G	8F	DD	000F0		PUSHL	#LGI\$ NETUAFACC	
00000000G	00		04	FB	000F6		CALLS	#4, LIB\$STOP	
			00	FB	000FD	4\$:	CALLS	#0, CLEAR_SYSPRV	1425
		00000000G	00	D0	00100		MOVL	SYSS\$ERROR, R5	1442
		0000G000G	00	D0	00107		MOVL	SYSS\$ERROR+4, R4	1443
64	55	0000'	CF	02	39	0010E	MATCHC	#2, P.AAO, R5, (R4)	1444
			03	13	00115		BEQL	5\$	
			02	D0	00117		MOVL	#2, R3	
			02	C2	0011A	5\$:	SUBL2	#2, R3	
			2D	13	0011D		BEQL	8\$	1450
			53	D1	0011F		CMPL	PTR, R4	1451
			28	13	00122		BEQL	8\$	
57	53		54	C3	00124		SUBL3	R4, PTR, NODE_LEN	1454
	56		54	D0	00128		MOVL	R4, NODE_PTR	1455
64	55		3D	3A	0012B		LOCC	#61, R5, -(R4)	1463
			02	12	0012F		BNEQ	6\$	
			51	D4	00131		CLRL	R1	
			51	D0	00133	6\$:	MOVL	R1, PTR	
			78	13	00136		BEQL	9\$	1467
			A3	9E	00138		MOVAB	1(R3), USER_PTR	1470
64	55	01	2F	3A	0013C		LOCC	#47, R5, (R4)	1472
			02	12	00140		BNEQ	7\$	
			51	D4	00142		CLRL	R1	
			51	D0	00144	7\$:	MOVL	R1, PTR	
			67	13	00147		BEQL	9\$	1480
			53	D1	00149		CMPL	PTR, USER_PTR	1481
			62	13	0014C	8\$:	BEQL	9\$	
			58	C3	0014E		SUBL3	USER_PTR, PTR, USER_LEN	1488
20	59	53	57	2C	00152		MOVCS	NODE_LEN, (NODE_PTR), #32, #32, NET_RECORD	1496
20	20	66							

: 1182
: 1183
1575 1 END
1576 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	299	NOVEC, WRT, RD, NOEXE, NO\$HR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	128	NOVEC, NOWRT, RD, NOEXE, NO\$HR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	2063	NOVEC, NOWRT, RD, EXE, NO\$HR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	163 0	1000	00:01.4

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:DETACHED/OBJ=OBJ\$:DETACHED MSRCS:DETACHED/UPDATE=(ENH\$:DETACHED)

: Size: 2063 code + 427 data bytes
: Run Time: 00:31.3
: Elapsed Time: 02:05.2
: Lines/CPU Min: 3020
: Lexemes/CPU-Min: 38117
: Memory Used: 286 pages
: Compilation Complete

