



```

PPPPPPP  UU      UU  BBBB8888  SSSSSSSS  UU      UU  BBBB8888  SSSSSSSS
PPPPPPP  UU      UU  BBBB8888  SSSSSSSS  UU      UU  BBBB8888  SSSSSSSS
PP      PP  UU      UU  BB      BB  SS      UU      UU  BB      BB  SS
PP      PP  UU      UU  BB      BB  SS      UU      UU  BB      BB  SS
PP      PP  UU      UU  BB      BB  SS      UU      UU  BB      BB  SS
PP      PP  UU      UU  BB      BB  SS      UU      UU  BB      BB  SS
PPPPPPP  UU      UU  BBBB8888  SSSSSSS  UU      UU  BBBB8888  SSSSSSS
PPPPPPP  UU      UU  BBBB8888  SSSSSSS  UU      UU  BBBB8888  SSSSSSS
PP      UU      UU  BB      BB      SS      UU      UU  BB      BB      SS
PP      UU      UU  BB      BB      SS      UU      UU  BB      BB      SS
PP      UU      UU  BB      BB      SS      UU      UU  BB      BB      SS
PP      UU      UU  BB      BB      SS      UU      UU  BB      BB      SS
PP      UU      UU  BB      BB      SS      UU      UU  BB      BB      SS
UUUUUUUU  BBBB8888  SSSSSSS  UUUUUUUU  BBBB8888  SSSSSSS
UUUUUUUU  BBBB8888  SSSSSSS  UUUUUUUU  BBBB8888  SSSSSSS

```

```

....
....
....
....

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```

.....

```

1 0001 0 %title 'PUBSUBS - Subroutines for Handling PUBs'
2 0002 0     module pubsubs (
3 0003 1         ident='V04-000') = begin
4 0004 1
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 *  ALL RIGHTS RESERVED.
11 0011 1 *
12 0012 1 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
13 0013 1 *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
14 0014 1 *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
15 0015 1 *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
16 0016 1 *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
17 0017 1 *  TRANSFERRED.
18 0018 1 *
19 0019 1 *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
20 0020 1 *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
21 0021 1 *  CORPORATION.
22 0022 1 *
23 0023 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 Facility:      VAX/VMS Telephone Facility, Subroutines for Handling PUBs
32 0032 1
33 0033 1 Abstract:      This module provides the routines necessary for handling
34 0034 1 Phone Unit Blocks (PUB). A PUB is used to describe the
35 0035 1 characteristics of one of the phone units that the user
36 0036 1 is talking to. All information about that unit is in
37 0037 1 its PUB.
38 0038 1
39 0039 1
40 0040 1 Environment:
41 0041 1
42 0042 1 Author: Paul C. Anagnostopoulos, Creation Date: 18 November 1980
43 0043 1
44 0044 1 Modified By:
45 0045 1
46 0046 1         V03-001 PCA0046      Paul Anagnostopoulos      26-Mar-1982
47 0047 1         Minor changes to convert from process name to user name.
48 0048 1 --

```

```

50 0049 1 %sbttl 'Module Declarations'
51 0050 1
52 0051 1   Libraries and Requires:
53 0052 1
54 0053 1
55 0054 1 library 'sys$library:starlet.l32';
56 0055 1 require 'phonereq';
57 0384 1
58 0385 1
59 0386 1   Table of Contents:
60 0387 1
61 0388 1
62 0389 1 forward routine
63 0390 1     phn$make_pub,
64 0391 1     phn$make_tsb,
65 0392 1     phn$redundant,
66 0393 1     phn$conversing,
67 0394 1     phn$cmp_target,
68 0395 1     phn$kill_pub: novalue,
69 0396 1     phn$make_ctl: novalue,
70 0397 1     phn$kill_ctl: novalue;
71 0398 1
72 0399 1
73 0400 1   Macro Definitions:
74 0401 1
75 0402 1   The following macro is used in the PHN$MAKE_TSB routine.
76 0403 1
77 0404 1
78 M 0405 1 macro add_token(length,pointer) =
79 M 0406 1 (   inc (nt[tsb_w_tkncount]);
80 M 0407 1   begin
81 M 0408 1   bind
82 M 0409 1       token_dsc = nt[tsb_q_tkndsc,.nt[tsb_w_tkncount]]: descriptor;
83 M 0410 1
84 M 0411 1       token_dsc[0,0,32,0] = length;
85 M 0412 1       token_dsc[ptr] = .complete_spec_dsc[ptr] + .complete_spec_dsc[len];
86 M 0413 1       ch$move(length,pointer,.token_dsc[ptr]);
87 M 0414 1       complete_spec_dsc[len] = .complete_spec_dsc[len] + length;
88 M 0415 1   end;
89 M 0416 1 );
90 M 0417 1 %;
91 0418 1
92 0419 1
93 0420 1   External References:
94 0421 1
95 0422 1
96 0423 1 external routine
97 0424 1     lib$free_vm: addressing_mode(general),
98 0425 1     lib$get_vm: addressing_mode(general),
99 0426 1     lib$parse: addressing_mode(general);
100 0427 1
101 0428 1 external literal
102 0429 1     lib$_syntaxerr;
103 0430 1
104 0431 1
105 0432 1   Own Variables:
106 0433 1

```

```

108 0434 1 %sbttl 'PHN$MAKE_PUB - Create New Phone Unit Block'
109 0435 1 ++
110 0436 1 Functional Description:
111 0437 1 This routine is called to create a new PUB. The PUB is allocated,
112 0438 1 initialized, and chained onto the end of the PUB chain. By chaining
113 0439 1 onto the end, we keep PUBs in the order of creation.
114 0440 1
115 0441 1 Formal Parameters:
116 0442 1 target_spec Address of descriptor of complete node/user name spec
117 0443 1 of person or node we need the PUB for.
118 0444 1 pub_address Address of longword in which to return new PUB address.
119 0445 1
120 0446 1 Implicit Inputs:
121 0447 1 global data
122 0448 1
123 0449 1 Implicit Outputs:
124 0450 1 global data
125 0451 1
126 0452 1 Returned Value:
127 0453 1 phn$_badspec Invalid target specification syntax.
128 0454 1
129 0455 1 Side Effects:
130 0456 1
131 0457 1 --
132 0458 1
133 0459 1
134 0460 2 global routine phn$make_pub(target_spec, pub_address) = begin
135 0461 2
136 0462 2 bind
137 0463 2 target_spec_dsc = .target_spec: descriptor;
138 0464 2
139 0465 2 local
140 0466 2 status: long,
141 0467 2 np: ref pub, ! Pointer to the new PUB.
142 0468 2 c: ref ctl;
143 0469 2
144 0470 2
145 0471 2 ! We begin by allocating memory for the new PUB.
146 0472 2
147 0473 2 status = lib$get_vm(%ref(pub_k_size), np);
148 0474 2 check (.status);
149 0475 2
150 0476 2 ! Now we clear the PUB and fill in its length.
151 0477 2
152 0478 2 ch$fill(0, pub_k_size, np);
153 0479 2 np[pub_l_length] = pub_k_size;
154 0480 2
155 0481 2 ! Now we initialize the TSB portion of the PUB with the target spec
156 0482 2 ! we have been passed. If that fails, just delete the stupid thing
157 0483 2 ! and return an error status.
158 0484 2
159 0485 2 status = phn$make_tsb(.target_spec, np[pub_b_tsb]);
160 0486 3 if .status eqlu phn$_badspec then (
161 0487 3 phn$kill_pub(np);
162 0488 3 return phn$_badspec;
163 0489 2 );
164 0490 2 check (.status);

```

```

: 165 0491 2
: 166 0492 2 ! Now we mark the PUB temporary (all new PUBs are marked as such).
: 167 0493 2
: 168 0494 2 np[pub_v_temporary] = true;
: 169 0495 2
: 170 0496 2 ! Now we allocate an initial CTL buffer with no text in it. Thus we will
: 171 0497 2 ! be prepared to add text as the person talks. We specify this CTL as
: 172 0498 2 ! the top of the viewport.
: 173 0499 2
: 174 0500 2 phn$make_ctl(0,c);
: 175 0501 2 np[pub_q_ctlhead0] = np[pub_q_ctlhead1] = np[pub_q_ctlhead0];
: 176 0502 2 insque(.c,np[pub_q_ctlhead0]);
: 177 0503 2 inc(np[pub_l_ctlcount]);
: 178 0504 2 np[pub_l_topctl] = .np[pub_l_ctlcount];
: 179 0505 2
: 180 0506 2 ! Finally, we queue the PUB at the end of the PUB chain and return its
: 181 0507 2 ! address as requested.
: 182 0508 2
: 183 0509 2 insque(.np,.phn$gq_pubhead[1]);
: 184 0510 2 .pub_address = .np;
: 185 0511 2 return phn$_ok;
: 186 0512 2
: 187 0513 1 end;

```

```

.TITLE PUBSUBS PUBSUBS - Subroutines for Handling PUBs
.IDENT \V04-000\

.EXTRN PHNS_OK, PHNS_ANSWERED
.EXTRN PHNS_BUSYCALL, PHNS_CANCEL
.EXTRN PHNS_CANTREACH, PHNS_CONFCALL
.EXTRN PHNS_DEAD, PHNS_DECNETLINK
.EXTRN PHNS_DIRCAN, PHNS_FACSCAN
.EXTRN PHNS_HELFCAN, PHNS_HUNGUP
.EXTRN PHNS_JUSTRANG, PHNS_LOGGEDOFF
.EXTRN PHNS_REJECTED, PHNS_RING
.EXTRN PHNS_REJECTJUNK
.EXTRN PHNS_SENDINGMAIL
.EXTRN PHNS_BADCMD, PHNS_BADHELP
.EXTRN PHNS_BADMAILCMD
.EXTRN PHNS_BADSMB, PHNS_BADSPEC
.EXTRN PHNS_HELPMISSING
.EXTRN PHNS_IVREDUNANS
.EXTRN PHNS_IVREDUNCALL
.EXTRN PHNS_LINKERROR, PHNS_NEEDUSER
.EXTRN PHNS_NOCALL, PHNS_NOROLDS
.EXTRN PHNS_NOPTS, PHNS_NOPRIV
.EXTRN PHNS_NOPROC, PHNS_NOTCONV
.EXTRN PHNS_ONLYNODE, PHNS_PHONEBUSY
.EXTRN PHNS_REMOTEERROR
.EXTRN PHNS_TARGTERM, PHNS_UNPLUGGED
.EXTRN PHNS_BADTERM, PHNS_SHAREDMBX
.EXTRN PHNS_INPUTTERM, PHNSGQ_NODE_NAME
.EXTRN PHNSGQ_SWITCH_HOOK
.EXTRN PHNSGL_VIEWPORT_SIZE
.EXTRN PHNSGB_SCROLL, PHNSGQ_PUBHEAD
.EXTRN PHNSGB_FLAGS, LIBSFREE_VM

```

```
.EXTRN LIB$GET_VM, LIB$TPARSE
.EXTRN LIB$_SYNTAXERR
.PSECT $CODE$,NOWRT,2
```

			03FC 00000		.ENTRY	PHN\$MAKE_PUB, Save R2,R3,R4,R5,R6,R7,R8,R9	: 0460
	59	00000000G	8F D0 00002		MOVL	#PHN\$ BADSPEC, R9	:
	58	00000000G	00 9E 00009		MOVAB	LIB\$SIGNAL, R8	:
	5E		0C C2 00010		SUBL2	#12, SP	:
	04	04	AE 9F 00013		PUSHAB	NP	: 0473
	AE	0110	8F 3C 00016		MOVZWL	#272, 4(SP)	:
		04	AE 9F 0001C		PUSHAB	4(SP)	:
	00000000G	00	02 FB 0001F		CALLS	#2, LIB\$GET_VM	:
		57	50 D0 00026		MOVL	R0, STATUS	:
		05	57 E8 00029		BLBS	STATUS, 1\$	: 0474
			57 DD 0002C		PUSHL	STATUS	:
		68	01 FB 0002E		CALLS	#1, LIB\$SIGNAL	:
0110	8F		AE D0 00031 1\$:		MOVL	NP, R6	: 0478
		00	00 2C 00035		MOVCS	#0, (SP), #0, #272, (R6)	:
			66 0003C				:
	08	A6	0110 8F 3C 0003D		MOVZWL	#272, 8(R6)	: 0479
			0C A6 9F 00043		PUSHAB	12(R6)	: 0485
			04 AC DD 00046		PUSHL	TARGET SPEC	:
	0000V	CF	02 FB 00049		CALLS	#2, PHN\$MAKE_TSB	:
		57	50 D0 0004E		MOVL	R0, STATUS	:
		59	57 D1 00051		CML	STATUS, R9	: 0486
			08 12 00054		BNEQ	2\$	:
			56 DD 00056		PUSHL	R6	: 0487
	0000V	CF	01 FB 00058		CALLS	#1, PHN\$KILL_PUB	:
		50	59 D0 0005D		MOVL	R9, R0	: 0488
			04 00060		RET		:
		05	57 E8 00061 2\$:		BLBS	STATUS, 3\$	: 0490
			57 DD 00064		PUSHL	STATUS	:
		68	01 FB 00066		CALLS	#1, LIB\$SIGNAL	:
00F0	C6		04 88 00069 3\$:		BISB2	#4, 240(R6)	: 0494
			08 AE 9F 0006E		PUSHAB	C	: 0500
			7E D4 00071		CLRL	-(SP)	:
	0000V	CF	02 FB 00073		CALLS	#2, PHN\$MAKE_CTL	:
		50	0104 C6 9E 00078		MOVAB	260(R6), R0	: 0501
	0108	C6	50 D0 0007D		MOVL	R0, 264(R6)	:
		60	50 D0 00082		MOVL	R0, (R0)	:
		60	08 BE 0E 00085		INSQUE	@C, (R0)	: 0502
		50	04 AE D0 00089		MOVL	NP, R0	: 0503
			0100 C0 D6 0008D		INCL	256(R0)	:
010C	C0	0100	C0 D0 00091		MOVL	256(R0), 268(R0)	: 0504
0000G	DF		60 0E 00098		INSQUE	(R0), @PHN\$GQ PUBHEAD+4	: 0509
	08	BC	04 AE D0 0009D		MOVL	NP, @PUB_ADDRESS	: 0510
		50	00000000G 8F D0 000A2		MOVL	#PHN\$_OK, R0	: 0511
			04 000A9		RET		: 0513

; Routine Size: 170 bytes. Routine Base: \$CODE\$ + 0000

```
189 0514 1 %sbttl 'PHN$MAKE_TSB - Build a Target Specification Block'
190 0515 1 ++
191 0516 1 Functional Description:
192 0517 1 This routine is called to construct a Target Specification Block,
193 0518 1 a data structure containing the complete node and user name
194 0519 1 specification for some person or node we want to communicate with.
195 0520 1
196 0521 1 The original version of this routine used TPARSE, but it
197 0522 1 was rewritten by hand because of its frequency of use.
198 0523 1
199 0524 1 Formal Parameters:
200 0525 1 target_spec The node/user string in any valid format.
201 0526 1 new_tsb The address of the TSB to be filled in.
202 0527 1
203 0528 1 Implicit Inputs:
204 0529 1 global data
205 0530 1
206 0531 1 Implicit Outputs:
207 0532 1 global data
208 0533 1
209 0534 1 Returned Value:
210 0535 1 phn$_badspec The target spec was syntactically incorrect.
211 0536 1 Currently this is never the case.
212 0537 1
213 0538 1 Side Effects:
214 0539 1
215 0540 1 --
216 0541 1
217 0542 1
218 0543 2 global routine phn$make_tsb(target_spec,new_tsb) = begin
219 0544 2
220 0545 2 bind
221 0546 2 target_spec_dsc = .target_spec: descriptor,
222 0547 2 nt = .new_tsb: tsb,
223 0548 2 complete_spec_dsc = nt[tsb_q_tkndsc,0]: descriptor;
224 0549 2
225 0550 2 local
226 0551 2 status: long,
227 0552 2 spec_ptr: long, spec_ptr2: long,
228 0553 2 spec_end_ptr: long;
```



```

: 230 0554 2 ! We begin by clearing the new TSB and initializing the complete spec
: 231 0555 2 ! descriptor.
: 232 0556 2
: 233 0557 2 ch$fill(0,tsb_k_size,nt);
: 234 0558 2 complete_spec_dsc[ptr] = nt[tsb_t_string];
: 235 0559 2
: 236 0560 2 ! Now we look at the target spec and see if it contains a node name.
: 237 0561 2
: 238 0562 2 spec_ptr = .target_spec_dsc[ptr];
: 239 0563 2 spec_end_ptr = .spec_ptr + .target_spec_dsc[len];
: 240 0564 2
: 241 0565 2 if ch$find_sub(.target_spec_dsc[len],.target_spec_dsc[ptr],
: 242 0566 2 2,uplit byte('::')) eqla 0 then
: 243 0567 2
: 244 0568 2 ! The spec does not contain a node name. We will therefore use
: 245 0569 2 ! our node name as the default, unless we are not on a DECnet node.
: 246 0570 2
: 247 0571 2 if .phn$gq_node_name[len] nequ 0 then
: 248 0572 2 add_token(.phn$gq_node_name[len],.phn$gq_node_name[ptr])
: 249 0573 2 else
: 250 0574 2 add_token(0,0)
: 251 0575 2
: 252 0576 2 else
: 253 0577 2 ! The target spec contains at least one node name. Now we have
: 254 0578 2 ! to scan off the node names and add them to the spec in the TSB.
: 255 0579 2 ! We normalize then by removing blanks and leading underscores.
: 256 0580 2 ! We also add build a descriptor for each one.
: 257 0581 2
: 258 0582 2 loop (
: 259 0583 2 spec_ptr = ch$find_not_ch(.spec_end_ptr-.spec_ptr,
: 260 0584 2 .spec_ptr,' ');
: 261 0585 2 if .spec_ptr eqla 0 then
: 262 0586 2 spec_ptr = .spec_end_ptr;
: 263 0587 2 spec_ptr2 = ch$find_sub(.spec_end_ptr-.spec_ptr,.spec_ptr,
: 264 0588 2 2,uplit byte('::'));
: 265 0589 2 exitif (.spec_ptr2 eqla 0);
: 266 0590 2
: 267 0591 2 if ch$rchar(.spec_ptr) eqlu '_' then
: 268 0592 2 inc (spec_ptr);
: 269 0593 2 add_token(.spec_ptr2-.spec_ptr+2,.spec_ptr);
: 270 0594 2 spec_ptr = .spec_ptr2 + 2;
: 271 0595 2 );
: 272 0596 2
: 273 0597 2 ! We have finished processing the node names. Now we have to isolate the
: 274 0598 2 ! user name (if any), add it to the spec in the TSB, and build a descriptor.
: 275 0599 2
: 276 0600 2 spec_ptr = ch$find_not_ch(.spec_end_ptr-.spec_ptr, .spec_ptr,' ');
: 277 0601 2 if .spec_ptr eqla 0 then
: 278 0602 2 spec_ptr = .spec_end_ptr;
: 279 0603 2 add_token(.spec_end_ptr-.spec_ptr,.spec_ptr);

```

```

281 0604 2 ! If the explicit or default home node on the spec is not our node, then
282 0605 2 ! we need to set the remote flag in the TSB.
283 0606 2
284 0607 2 begin
285 0608 2 bind
286 0609 2     home_node_dsc = nt[tsb_q_tkndsc,.nt[tsb_w_tkncount]-1]: descriptor;
287 0610 2
288 0611 2 nt[tsb_v_remote] = ch$neq(.home_node_dsc[len],.home_node_dsc[ptr],
289 0612 2     .phn$gq_node_name[len],.phn$gq_node_name[ptr], ' ');
290 0613 2 end;
291 0614 2
292 0615 2 ! If a user name was specified in the spec, we need to set the user
293 0616 2 ! flag in the TSB. If none was specified, the length of the user name
294 0617 2 ! token was set to zero.
295 0618 2
296 0619 2 begin
297 0620 2 bind
298 0621 2     user_name_dsc = nt[tsb_q_tkndsc,.nt[tsb_w_tkncount]]: descriptor;
299 0622 2
300 0623 2 nt[tsb_v_user] = .user_name_dsc[len] nequ 0;
301 0624 2 end;
302 0625 2
303 0626 2 return phn$_ok;
304 0627 2
305 0628 1 end;

```

.PSECT \$SPLITS\$,NOWRT,NOEXE,2

```

3A 3A 0000 P.AAA: .ASCII \::\
3A 3A 0002 P.AAB: .ASCII \::\

```

.PSECT \$CODE\$,NOWRT,2

```

OFFC 00000 .ENTRY PHN$MAKE_TSB, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0543
R10,R11
5E 04 C4 C2 00002 SUBL2 #4, SP
58 04 AC D0 00005 MOVL TARGET SPEC, R8 0546
57 08 AC D0 00009 MOVL NEW TSB, R7 0547
59 04 A7 9E 0000D MOVAB 4(R7), R9 0548
6E 00 2C 00011 MOVCS #0, (SP), #0, #228, (R7) 0557
67 00 00018
5B 04 A9 9E 00019 MOVAB 4(R9), R11 0558
6B 54 A7 9E 0001D MOVAB 84(R7), (R11)
5A 04 A8 D0 00021 MOVL 4(R8), SPEC_PTR 0562
56 68 3C 00025 MOVZWL (R8), SPEC_END_PTR 0563
56 5A C0 00028 ADDL2 SPEC_PTR, SPEC_END_PTR
04 B8 68 0000' CF 02 39 0002B MATCHC #2, P.AAA, (R8), @4(R8) 0566
03 13 00033 BEQL 1$
53 02 D0 00035 MOVL #2, R3
53 02 C2 00038 1$: SUBL2 #2, R3
48 12 0003B BNEQ 4$
58 0000G CF 3C 0003D MOVZWL PHN$GQ_NODE_NAME, R8 0571
23 13 00042 BEQL 2$

```

				02	A7	B6	00044	INCW	2(R7)	0572
			50	02	A7	3C	00047	MOVZWL	2(R7), R0	
			50	04	A740	7E	0004B	MOVAQ	4(R7)[R0], R0	
			60		58	D0	00050	MOVL	R8, (R0)	
			51		69	3C	00053	MOVZWL	(R9), R1	
	04	A0	6B		51	C1	00056	ADDL3	R1, (R11), 4(R0)	
	04	B0	DF	0000G	58	28	0005B	MOVC3	R8, @PHN\$GQ_NODE_NAME+4, @4(R0)	
			69		58	A0	00062	ADDW2	R8, (R9)	
					1C	11	00065	BRB	3\$	0571
				02	A7	B6	00067	2\$: INCW	2(R7)	0574
			50	02	A7	3C	0006A	MOVZWL	2(R7), R0	
			50	04	A740	7E	0006E	MOVAQ	4(R7)[R0], R0	
					60	D4	00073	CLRL	(R0)	
			51		69	3C	00075	MOVZWL	(R9), R1	
	04	A0	6B		51	C1	00078	ADDL3	R1, (R11), 4(R0)	
	B0	00	00		00	F0	0007D	INSV	#0, #0, #0, @4(R0)	
					65	11	00083	3\$: BRB	9\$	0571
			50		5A	C3	00085	4\$: SUBL3	SPEC_PTR, SPEC_END_PTR, R0	0583
			6A		20	3B	00089	SKPC	#32, -R0, (SPEC_PTR)	
					02	12	0008D	BNEQ	5\$	
					51	D4	0008F	CLRL	R1	
			5A		51	D0	00091	5\$: MOVL	R1, SPEC_PTR	
					03	12	00094	BNEQ	6\$	0585
			5A		56	D0	00096	MOVL	SPEC_END_PTR, SPEC_PTR	0586
			50		5A	C3	00099	6\$: SUBL3	SPEC_PTR, SPEC_END_PTR, R0	0587
	6A	50	0000'	CF	02	39	0009D	MATCHC	#2, P.AAB, R0, -(SPEC_PTR)	0588
					03	13	000A4	BEQL	7\$	
			53		02	D0	000A6	MOVL	#2, R3	
			6E		73	3E	000A9	7\$: MOVAW	-(R3), SPEC_PTR2	
					3C	13	000AC	BEQL	9\$	0589
			5F	8F	6A	91	000AE	CMPB	(SPEC_PTR), #95	0591
					02	12	000B2	BNEQ	8\$	
					5A	D6	000B4	INCL	SPEC_PTR	0592
				02	A7	B6	000B6	8\$: INCW	2(R7)	0593
			50	02	A7	3C	000B9	MOVZWL	2(R7), R0	
			50	04	A740	7E	000BD	MOVAQ	4(R7)[R0], R0	
			6E		5A	C3	000C2	SUBL3	SPEC_PTR, SPEC_PTR2, R3	
			53		02	C0	000C6	ADDL2	#2, R3	
			60		53	D0	000C9	MOVL	R3, (R0)	
			58		69	3C	000CC	MOVZWL	(R9), R8	
	04	A0	6B		58	C1	000CF	ADDL3	R8, (R11), 4(R0)	
	04	B0	6A		53	28	000D4	MOVC3	R3, (SPEC_PTR), @4(R0)	
		50	58		6E	C1	000D9	ADDL3	SPEC_PTR2, R8, R0	
			50		5A	C2	000DD	SUBL2	SPEC_PTR, R0	
			69		02	A1	000E0	ADDW3	#2, R0, (R9)	
			50		02	C1	000E4	ADDL3	#2, SPEC_PTR2, SPEC_PTR	0594
			6E		9B	11	000E8	BRB	4\$	0576
			50		5A	C3	000EA	9\$: SL L3	SPEC_PTR, SPEC_END_PTR, R0	0600
			6A		20	3B	000EE	SKPC	#32, -R0, (SPEC_PTR)	
					02	12	000F2	BNEQ	10\$	
					51	D4	000F4	CLRL	R1	
			5A		51	D0	000F6	10\$: MOVL	R1, SPEC_PTR	
					03	12	000F9	BNEQ	11\$	0601
			5A		56	D0	000FB	MOVL	SPEC_END_PTR, SPEC_PTR	0602
				02	A7	B6	000FE	11\$: INCW	2(R7)	0603
			50	02	A7	3C	00101	MOVZWL	2(R7), R0	
			50	04	A740	7E	00105	MOVAQ	4(R7)[R0], R0	

		51		56		5A	C3	0010A		SUBL3	SPEC_PTR, SPEC_END_PTR, R1		
				60		51	D0	0010E		MOVL	R1, (R0)		
				58		69	3C	00111		MOVZWL	(R9), R8		
	04	A0		68		58	C1	00114		ADDL3	R8, (R11), 4(R0)		
	04	B0		6A		51	28	00119		MOV3	R1, (SPEC_PTR), @4(R0)		
		50		58		56	C1	0011E		ADDL3	SPEC_END_PTR, R8, R0		
		69		50		5A	A3	00122		SUBW3	SPEC_PTR, R0, (R9)		
				50	02	A7	3C	00126		MOVZWL	2(R7), R0		0609
				50	FC	A740	7E	0012A		MOVAQ	-4(R7)[R0], R0		
						54	D4	0012F		CLRL	R4		0611
0000G	CF		20	04	80	60	2D	00131		CMPC5	(R0), @4(R0), #32, PHN\$GQ_NODE_NAME, -		
						0000G	DF	00139			@PHN\$GQ_NODE_NAME+4		
							02	13	0013C	BEQL	12\$		
							54	D6	0013E	INCL	R4		
	67		01		00	54	F0	00140	12\$:	INSV	R4, #0, #1, (R7)		
					50	02	A7	3C	00145	MOVZWL	2(R7), R0		0621
							51	D4	00149	CLRL	R1		0623
						04	A740	7F	0014B	PUSHAQ	4(R7)[R0]		
							9E	B5	0014F	TSTW	@(SP)+		
							02	13	00151	BEQL	13\$		
	67		01		01	51	D6	00153		INCL	R1		
					50	00000000G	51	F0	00155	13\$:	INSV	R1, #1, #1, (R7)	
							8F	D0	0015A	MOVL	#PHN\$_OK, R0		0626
							04	00161		RET			0628

; Routine Size: 354 bytes, Routine Base: \$CODE\$ + 00AA

```

: 307 0629 1 %sbttl 'PHN$REDUNDANT - Check for Redundant Link'
: 308 0630 1 ++
: 309 0631 1 Functional Description:
: 310 0632 1 This routine is called to check for a redundant link, that is,
: 311 0633 1 a link with a person who is already linked to. The PUB being
: 312 0634 1 checked is assumed to still be temporary!
: 313 0635 1
: 314 0636 1 Formal Parameters:
: 315 0637 1 the_pub Address of PUB for link that might be redundant.
: 316 0638 1
: 317 0639 1 Implicit Inputs:
: 318 0640 1 global data
: 319 0641 1
: 320 0642 1 Implicit Outputs:
: 321 0643 1 global data
: 322 0644 1
: 323 0645 1 Returned Value:
: 324 0646 1 true if link is redundant, false otherwise.
: 325 0647 1
: 326 0648 1 Side Effects:
: 327 0649 1
: 328 0650 1 --
: 329 0651 1
: 330 0652 1
: 331 0653 2 global routine phn$redundant(the_pub) = begin
: 332 0654 2
: 333 0655 2 bind
: 334 0656 2 tp = .the_pub: pub;
: 335 0657 2
: 336 0658 2 local
: 337 0659 2 p: ref pub;
: 338 0660 2
: 339 0661 2
: 340 0662 2 ! Basically, we just search all non-temporary PUBs for one with the same
: 341 0663 2 ! target. We don't search ours, however, because we do want to allow
: 342 0664 2 ! the user to call him/herself once.
: 343 0665 2
: 344 0666 2 p = ..phn$gq_pubhead[0];
: 345 0667 3 until .p eqla phn$gq_pubhead do (
: 346 0668 3 if not .p[pub_v_temporary] and
: 347 0669 3 phn$cmp_target(p[pub_b_tsb],tp[pub_b_tsb]) then
: 348 0670 3 return true;
: 349 0671 3
: 350 0672 3 p = .p[pub_l_flink];
: 351 0673 2 );
: 352 0674 2
: 353 0675 2 return false;
: 354 0676 2
: 355 0677 1 end;

```

			0004 0000	.ENTRY	PHN\$REDUNDANT, Save R2	: 0653
52	0000G	DF	D0 00002	MOVL	@PHN\$GQ_PUBHEAD, P	: 0666
50	0000G	CF	9E 00007 1\$:	MOVAB	PHN\$GQ_PUBHEAD, R0	: 0667

PUBSUBS  
V04-000

PUBSUBS - Subroutines for Handling PUBs  
PHN\$REDUNDANT - Check for Redundant Link

G 14  
16-Sep-1984 02:17:10  
14-Sep-1984 12:53:31

VAX-11 Bliss-32 V4.0-742  
[PHONE.SRC]PUBSUBS.B32;1

Page 12  
(7)

ST  
VO

		50		52	D1	0000C		CMPL	P, R0		
				1F	13	0000F		BEQL	3\$		
14	00F0	C2		02	E0	00011		BBS	#2, 240(P), 2\$		0668
7E	04	AC		0C	C1	00017		ADDL3	#12, THE_PUB, -(SP)		0669
			0C	A2	9F	0001C		PUSHAB	12(P)		
	0000V	CF		02	FB	0001F		CALLS	#2, PHN\$CMP_TARGET		
		04		50	E9	00024		BLBC	R0, 2\$		
		50		01	D0	00027		MOVL	#1, R0		0670
					04	0002A		RET			
		52		62	D0	0002B	2\$:	MOVL	(P), P		0672
				D7	11	0002E		BRB	1\$		0667
				50	D4	00030	3\$:	CLRL	R0		0675
				04	00032			RET			0677

; Routine Size: 51 bytes, Routine Base: \$CODE\$ + 020C

```

: 357 0678 1 %sbttl 'PHN$CONVERSING - Is Conversation in Progress?'
: 358 0679 1 ++
: 359 0680 1 Functional Description:
: 360 0681 1 This routine is called to find out if there is a conversation
: 361 0682 1 currently in progress. Such is the case unless every PUB is
: 362 0683 1 either temporary, we have on hold, or has us on hold.
: 363 0684 1
: 364 0685 1 Formal Parameters:
: 365 0686 1 none
: 366 0687 1
: 367 0688 1 Implicit Inputs:
: 368 0689 1 global data
: 369 0690 1
: 370 0691 1 Implicit Outputs:
: 371 0692 1 global data
: 372 0693 1
: 373 0694 1 Returned Value:
: 374 0695 1 1 if conversation in progress, 0 otherwise.
: 375 0696 1
: 376 0697 1 Side Effects:
: 377 0698 1
: 378 0699 1 --
: 379 0700 1
: 380 0701 1
: 381 0702 2 global routine phn$conversing = begin
: 382 0703 2
: 383 0704 2 local
: 384 0705 2 p: ref pub;
: 385 0706 2
: 386 0707 2
: 387 0708 2 ! Basically, we just search every PUB (but not our own) to see if
: 388 0709 2 ! any of them are in conversation with us.
: 389 0710 2
: 390 0711 2 p = ..phn$gq_pubhead[0];
: 391 0712 3 until .p eqlā phn$gq_pubhead do (
: 392 0713 3 if not .p[pub_v_temporary] and
: 393 0714 3 not .p[pub_v_uhaveheld] and
: 394 0715 3 not .p[pub_v_hasuheld] then
: 395 0716 3 return true;
: 396 0717 3
: 397 0718 3 p = .p[pub_l_flink];
: 398 0719 2 );
: 399 0720 2
: 400 0721 2 return false;
: 401 0722 2
: 402 0723 1 end;

```

			0000 00000		.ENTRY PHN\$CONVERSING, Save nothing	: 0702
51	0000G	DF	D0 00002		MOVL @PHN\$GQ_PUBHEAD, P	: 0711
50	0000G	CF	9E 00007	1\$:	MOVAB PHN\$GQ_PUBHEAD, R0	: 0712
50		51	D1 0000C		CML P, R0	: :
		19	13 0000F		BEQL 3\$	: :
50	00F0	C1	9E 00011		MOVAB 240(P), R0	: 0713

PUBSUBS  
V04-000

PUBSUBS - Subroutines for Handling PUBs  
PHN\$CONVERSING - Is Conversation in Progress?

I 14  
16-Sep-1984 02:17:10  
14-Sep-1984 12:53:31

VAX-11 Bliss-32 V4.0-742  
[PHONE.SRC]PUBSUBS.B32;1

Page 14  
(8)

0B	60	02	E0	00016	BBS	#2, (R0), 2\$
	08	60	E8	0001A	BLBS	(R0), 2\$
04	60	01	E0	0001D	BBS	#1, (R0), 2\$
	50	01	D0	00021	MOVL	#1, R0
			04	00024	RET	
	51	61	D0	00025 2\$:	MOVL	(P), P
		DD	11	00028	BRB	1\$
		50	D4	0002A 3\$:	CLRL	R0
			04	0002C	RET	

:  
: 0714  
: 0715  
: 0716  
:  
: 0718  
: 0712  
: 0721  
: 0723

; Routine Size: 45 bytes, Routine Base: \$CODE\$ + 023F



```

404 0724 1 %sbttl 'PHN$CMP_TARGET - Compare TSB Targets'
405 0725 1 ++
406 0726 1 Functional Description:
407 0727 1 This routine is called to compare the targets specs in two TSBs.
408 0728 1 The portion compared consists of the home node and the user name.
409 0729 1
410 0730 1 Formal Parameters:
411 0731 1 tsb1,tsb2 The addresses of the TSBs to be compared.
412 0732 1
413 0733 1 Implicit Inputs:
414 0734 1 global data
415 0735 1
416 0736 1 Implicit Outputs:
417 0737 1 global data
418 0738 1
419 0739 1 Returned Value:
420 0740 1 true if targets are equal, false otherwise.
421 0741 1
422 0742 1 Side Effects:
423 0743 1
424 0744 1 --
425 0745 1
426 0746 1
427 0747 2 global routine phn$cmp_target(tsb1,tsb2) = begin
428 0748 2
429 0749 2 bind
430 0750 2 the_tsb1 = .tsb1: tsb,
431 0751 2 the_tsb2 = .tsb2: tsb,
432 0752 2
433 0753 2 home_node1_dsc = the_tsb1[tsb_q_tkn$sc,.the_tsb1[tsb_w_tkncount]-1]: descriptor,
434 0754 2 user_name1_dsc = the_tsb1[tsb_q_tkn$dsc,.the_tsb1[tsb_w_tkncount]]: descriptor,
435 0755 2
436 0756 2 home_node2_dsc = the_tsb2[tsb_q_tkn$dsc,.the_tsb2[tsb_w_tkncount]-1]: descriptor,
437 0757 2 user_name2_dsc = the_tsb2[tsb_q_tkn$dsc,.the_tsb2[tsb_w_tkncount]]: descriptor;
438 0758 2
439 0759 2 return
440 0760 2 ch$eq(.home_node1_dsc[len]+.user_name1_dsc[len],.home_node1_dsc[ptr],
441 0761 2 ,home_node2_dsc[len]+.user_name2_dsc[len],.home_node2_dsc[ptr],
442 0762 2 ,);
443 0763 2
444 0764 1 end;

```

```

007C 00000 .ENTRY PHN$CMP_TARGET, Save R2,R3,R4,R5,R6 : 0747
54 04 AC D0 00002 MOVL TSB1, R4 : 0750
53 08 AC D0 00006 MOVL TSB2, R3 : 0751
51 02 A4 3C 0000A MOVZWL 2(R4), R1 : 0753
55 FC A441 7E 0000E MOVAQ -4(R4)(R1), R5 :
50 02 A3 3C 00013 MOVZWL 2(R3), R0 : 0756
52 FC A340 7E 00017 MOVAQ -4(R3)(R0), R2 :
56 65 3C 0001C MOVZWL (R5), R6 : 0760
04 A441 7F 0001F PUSHAQ 4(R4)(R1) :
51 9E 3C 00023 MOVZWL @(SP)+, R1 :
51 56 C0 00026 ADDL2 R6, R1 :

```

PUBSUBS  
V04-000

PUBSUBS - Subroutines for Handling PUBs  
PHN\$CMP\_TARGET - Compare TSB Targets

K 14  
16-Sep-1984 02:17:10  
14-Sep-1984 12:53:31

VAX-11 Bliss-32 V4.0-742  
[PHONE.SRC]PUBSUBS.B32;1

Page 16  
(9)

```

54          62 3C 00029
04 A340     7F 0002C
50          9E 3C 00030
50          54 C0 00033
54          54 D4 00036
04          51 2D 00038
           B2   0003E
           02 12 00040
           54 D6 00042
           54 D0 00044 1$:
           04 00047

```

```

MOVZWL (R2), R4
PUSHAQ 4(R3)[R0]
MOVZWL @ (SP)+, R0
ADDL2  R4, R0
CLRL  R4
CMPCS  R1, @4(R5), #32, R0, @4(R2)

BNEQ  1$
INCL  R4
MOVL  R4, R0
RET

```

```

: 0761
:
:
: 0760
:
:
:
:
: 0764

```

; Routine Size: 72 bytes, Routine Base: \$CODE\$ + 026C

```

: 446 0765 1 %sbttl 'PHN$KILL_PUB - Kill Obsolete PUB'
: 447 0766 1 ++
: 448 0767 1 Functional Description:
: 449 0768 1 This routine is called to deallocate an obsolete PUB. We unhook
: 450 0769 1 it from the PUB chain, deallocate any CTL buffers hanging off it,
: 451 0770 1 and free it up.
: 452 0771 1
: 453 0772 1 Formal Parameters:
: 454 0773 1 obsolete_pub The address of the obsolete PUB. It is assumed to
: 455 0774 1 still be in the PUB chain.
: 456 0775 1
: 457 0776 1 Implicit Inputs:
: 458 0777 1 global data
: 459 0778 1
: 460 0779 1 Implicit Outputs:
: 461 0780 1 global data
: 462 0781 1
: 463 0782 1 Returned Value:
: 464 0783 1 none
: 465 0784 1
: 466 0785 1 Side Effects:
: 467 0786 1
: 468 0787 1 --
: 469 0788 1
: 470 0789 1
: 471 0790 2 global routine phn$kill_pub(obsolete_pub): novalue = begin
: 472 0791 2
: 473 0792 2 local
: 474 0793 2 status: long,
: 475 0794 2 p: ref pub,
: 476 0795 2 c: ref ctl;
: 477 0796 2
: 478 0797 2
: 479 0798 2 ! We begin by removing the obsolete PUB from the PUB chain.
: 480 0799 2
: 481 0800 2 remque(.obsolete_pub,p);
: 482 0801 2
: 483 0802 2 ! Now we remove and kill any CTL buffers hanging off the PUB.
: 484 0803 2
: 485 0804 2 while not remque(.p[pub_q_ctlhead0],c) do
: 486 0805 2 phn$kill_ctl(.c);
: 487 0806 2
: 488 0807 2 ! Now we can free up the memory occupied by the PUB.
: 489 0808 2
: 490 0809 2 status = lib$free_vm(p[pub_l_length],p);
: 491 0810 2 check (.status);
: 492 0811 2
: 493 0812 2 return;
: 494 0813 2
: 495 0814 1 end;

```

7E 04 0004 0000  
BC OF 0002

.ENTRY PHN\$KILL\_PUB, Save R2  
REMQUE @OBSOLETE\_PUB, P

: 0790  
: 0800

PUBSUBS  
V04-000

PUBSUBS - Subroutines for Handling PUBs  
PHNSKILL\_PUB - Kill Obsolete PUB

M 14  
16-Sep-1984 02:17:10  
14-Sep-1984 12:53:31

VAX-11 Bliss-32 V4.0-742  
[PHONE.SRC]PUBSUBS.B32;1

Page 18  
(10)

S  
V

	50		6E	D0	00006	1\$:	MOVL	P, R0		: 0804
	52	0104	D0	0F	00009		REMQLE	@260(R0), C		: 0805
			09	1D	0000E		BVS	2\$		: 0809
	0000V	CF	52	DD	00010		PUSHL	C		: 0810
			01	FB	00012		CALLS	#1, PHNSKILL_CTL		: 0814
			ED	11	00017		BRB	1\$		
			5E	DD	00019	2\$:	PUSHL	SP		
7E	04	AE	08	C1	0001B		ADDL3	#8, P, -(SP)		
	00000000G	00	02	FB	00020		CALLS	#2, LIB\$FREE_VM		
		09	50	E8	00027		BLBS	STATUS, 3\$		
			50	DD	0002A		PUSHL	STATUS		
	00000000G	00	01	FB	0002C		CALLS	#1, LIB\$SIGNAL		
			04	00033	3\$:		RET			

; Routine Size: 52 bytes, Routine Base: \$CODE\$ + 02B4

```

497 0815 1 %sbttl 'PHN$MAKE_CTL - Create a Conversation Text Line'
498 0816 1 ++
499 0817 1 Functional Description:
500 0818 1 This routine is called to allocate and initialize a new Conversation
501 0819 1 Text Line (CTL) buffer.
502 0820 1
503 0821 1 Formal Parameters:
504 0822 1 line_text Address of descriptor of text to go in CTL (optional).
505 0823 1 ctl_address Address of longword in which to return CTL address.
506 0824 1
507 0825 1 Implicit Inputs:
508 0826 1 global data
509 0827 1
510 0828 1 Implicit Outputs:
511 0829 1 global data
512 0830 1
513 0831 1 Returned Value:
514 0832 1 none
515 0833 1
516 0834 1 Side Effects:
517 0835 1
518 0836 1 --
519 0837 1
520 0838 1
521 0839 2 global routine phn$make_ctl(line_text,ctl_address): novalue = begin
522 0840 2
523 0841 2 bind
524 0842 2 line_text_dsc = .line_text: descriptor;
525 0843 2
526 0844 2 own
527 0845 2 sequence_stamp: long initial(0);
528 0846 2
529 0847 2 local
530 0848 2 status: long,
531 0849 2 c: ref ctl;
532 0850 2
533 0851 2 builtin
534 0852 2 nullparameter;
535 0853 2
536 0854 2
537 0855 2 ! We begin by allocating memory for the CTL.
538 0856 2
539 0857 2 status = lib$get_vm(%ref(ctl_k_size),c);
540 0858 2 check (.status);
541 0859 2
542 0860 2 ! Now we initialize the CTL by filling in its length, the sequence
543 0861 2 stamp (so we can tell the order in which CTLs were created), and the
544 0862 2 line text if specified.
545 0863 2
546 0864 2 c[ctl_l_length] = ctl_k_size;
547 0865 2 c[ctl_l_stamp] = inc (sequence_stamp);
548 0866 2 begin
549 0867 2 bind
550 0868 2 line_dsc = c[ctl_q_line]: descriptor;
551 0869 2
552 0870 3 line_dsc[0,0,32,0] = 0;
553 0871 4 if not nullparameter(1) then (

```

```

: 554 0872 4      ch$move(.line_text_dsc[len],.line_text_dsc[ptr],c[ctl_t_linebuf]);
: 555 0873 4      line_dsc[len] = .line_text_dsc[len];
: 556 0874 3      );
: 557 0875 3      line_dsc[ptr] = c[ctl_t_linebuf];
: 558 0876 2      end;
: 559 0877 2
: 560 0878 2      ! Finally, return the CTL address as requested.
: 561 0879 2
: 562 0880 2      .ctl_address = .c;
: 563 0881 2      return;
: 564 0882 2
: 565 0883 1      end;

```

.PSECT \$OWNS,NOEXE,2

00000000 0000 SEQUENCE\_STAMP:  
LONG 0

.PSECT \$CODES,NOWRT,2

			01FC 0000	.ENTRY PHNSMAKE_CTL, Save R2,R3,R4,R5,R6,R7,R8	: 0839
	5E		08 C2 00002	SUBL2 #8, SP	:
	58	04	AC D0 00005	MOVL LINE_TEXT, R8	: 0842
		04	AE 9F 00009	PUSHAB C	: 0857
	04	AE	67 8F 9A 0000C	MOVZBL #103, 4(SP)	:
		04	AE 9F 00011	PUSHAB 4(SP)	:
	00000000G	00	02 FB 00014	CALLS #2, LIB\$GET_VM	:
		09	50 E8 0001B	BLBS STATUS, 1\$	: 0858
			50 DD 0001E	PUSHL STATUS	:
	00000000G	00	01 FB 00020	CALLS #1, LIB\$SIGNAL	:
		57	04 AE D0 00027 1\$:	MOVL C, R7	: 0864
	08	A7	67 8F 9A 0002B	MOVZBL #103, 8(R7)	:
50	0000'	CF	01 C1 00030	ADDL3 #1, SEQUENCE_STAMP, R0	: 0865
	0000'	CF	50 D0 00036	MOVL R0, SEQUENCE_STAMP	:
	0C	A7	50 D0 0003B	MOVL R0, 12(R7)	:
		56	10 A7 9E 0003F	MOVAB 16(R7), R6	: 0868
			66 D4 00043	CLRL (R6)	: 0870
			6C 95 00045	TSTB (AP)	: 0871
			0E 13 00047	BEQL 2\$	:
		04	AC D5 00049	TSTL 4(AP)	:
		09	13 0004C	BEQL 2\$	:
18	A7	04	68 28 0004E	MOV3 (R8), @4(R8), 24(R7)	: 0872
		66	68 80 00054	MOVW (R8), (R6)	: 0873
	04	A6	18 A7 9E 00057 2\$:	MOVAB 24(R7), 4(R6)	: 0875
	08	BC	57 D0 0005C	MOVL R7, @CTL_ADDRESS	: 0880
			04 00060	RET	: 0883

; Routine Size: 97 bytes, Routine Base: \$CODES + 02E8

```

: 567 0884 1 %sbttl 'PHN$KILL_CTL - Deallocate Dead CTL'
: 568 0885 1 |++
: 569 0886 1 | Functional Description:
: 570 0887 1 |     This routine is called to deallocate an obsolete CTL. We just
: 571 0888 1 |     free up its memory.
: 572 0889 1 |
: 573 0890 1 | Formal Parameters:
: 574 0891 1 |     obsolete_ctl    The address of the obsolete CTL.
: 575 0892 1 |
: 576 0893 1 | Implicit Inputs:
: 577 0894 1 |     global data
: 578 0895 1 |
: 579 0896 1 | Implicit Outputs:
: 580 0897 1 |     global data
: 581 0898 1 |
: 582 0899 1 | Returned Value:
: 583 0900 1 |     none
: 584 0901 1 |
: 585 0902 1 | Side Effects:
: 586 0903 1 |
: 587 0904 1 | --
: 588 0905 1 |
: 589 0906 1 |
: 590 0907 2 global routine phn$kill_ctl(obsolete_ctl): novalue = begin
: 591 0908 2
: 592 0909 2 bind
: 593 0910 2     c = .obsolete_ctl: ctl;
: 594 0911 2
: 595 0912 2 local
: 596 0913 2     status: long;
: 597 0914 2
: 598 0915 2
: 599 0916 2 status = lib$free_vm(c[ctl_l_length],obsolete_ctl);
: 600 0917 2 check (.status);
: 601 0918 2 return;
: 602 0919 2
: 603 0920 1 end;

```

				0000 0000	.ENTRY	PHN\$KILL_CTL, Save nothing	: 0907
			04	AC 9F 00002	PUSHAB	OBSOLETE_CTL	: 0916
7E	04	AC		08 C1 00005	ADDL3	#8, OBSOLETE_CTL, -(SP)	
	00000000G	00		02 FB 0000A	CALLS	#2, LIB\$FREE_VM	
		09		50 EB 00011	BLBS	STATUS, 1\$	: 0917
	00000000G	00		50 DD 00014	PUSHL	STATUS	
				01 FB 00016	CALLS	#1, LIB\$SIGNAL	
				04 0001D 1\$:	RET		: 0920

; Routine Size: 30 bytes, Routine Base: \$CODE\$ + 0349

```

: 604 0921 1
: 605 0922 0 end eludom

```

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	871	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$SPLIT\$	4	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$OWNS	4	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:00.8

COMMAND QUALIFIERS

```

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:PUBSUBS/OBJ=OBJ$:PUBSUBS MSRC$:PUBSUBS/UPDATE=(ENH$:PUBSUBS)
: Size:          871 code + 8 data bytes
: Run Time:      00:13.3
: Elapsed Time:  00:52.7
: Lines/CPU Min: 4162
: Lexemes/CPU-Min: 32641
: Memory Used:  175 pages
: Compilation Complete

```



