


```

MM      MM      IIIIII      SSSSSSSS      CCCCCCCC      CCCCCCCC      MM      MM      DDDDDDDD      SSSSSSSS
MM      MM      IIIIII      SSSSSSSS      CCCCCCCC      CCCCCCCC      MM      MM      DDDDDDDD      SSSSSSSS
MMMM    MMMM      II      SS      CC      CC      MMMM    MMMM      DD      DD      SS
MMMM    MMMM      II      SS      CC      CC      MMMM    MMMM      DD      DD      SS
MM      MM      II      SS      CC      CC      MM      MM      DD      DD      SS
MM      MM      II      SSSSSS      CC      CC      MM      MM      DD      DD      SSSSSS
MM      MM      II      SSSSSS      CC      CC      MM      MM      DD      DD      SSSSSS
MM      MM      II      SS      CC      CC      MM      MM      DD      DD      SS
MM      MM      II      SS      CC      CC      MM      MM      DD      DD      SS
MM      MM      II      SS      CC      CC      MM      MM      DD      DD      SS
MM      MM      IIIIII      SSSSSSSS      CCCCCCCC      CCCCCCCC      MM      MM      DDDDDDDD      SSSSSSSS
MM      MM      IIIIII      SSSSSSSS      CCCCCCCC      CCCCCCCC      MM      MM      DDDDDDDD      SSSSSSSS

```

```

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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 %title 'MISCCMDS - Miscellaneous Phone Commands'
2 0002 0      module misccmds (
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, Miscellaneous Phone Commands
32 0032 1
33 0033 1 Abstract:      This module handles the following user commands:
34 0034 1             EXIT           Exit the facility.
35 0035 1             HELP          Provide help information.
36 0036 1             DIRECTORY     Provide a list of people to call.
37 0037 1             MAIL          Send phone message to someone.
38 0038 1
39 0039 1
40 0040 1 Environment:
41 0041 1
42 0042 1 Author: Paul C. Anagnostopoulos, Creation Date: 20 November 1980
43 0043 1
44 0044 1 Modified By:
45 0045 1
46 0046 1     V03-007 ROP0034      Robert Posniak      08-Aug-1984
47 0047 1     Pass a null input file to MAIL when sending
48 0048 1     a phone message to someone.
49 0049 1
50 0050 1     V03-006 BLS0335      Benn Schreiber      27-JUL-1984
51 0051 1     Include SYSNAM in privs dropped.
52 0052 1
53 0053 1     V03-005 BLS0241      Benn Schreiber      8-Dec-1983
54 0054 1     Drop privs before spawning MAIL.
55 0055 1
56 0056 1     V03-004 MMB0085      Mark Bramhall       17-Jan-1983
57 0057 1     PHN$ESTAB_LINK now always displays its status via

```

```

: 58      0058 1 | PHNSINFORM; its callers just check the returned status.
: 59      0059 1 |
: 60      0060 1 | V03-003 BLS0169      Benn Schreiber      12-Apr-1982
: 61      0061 1 |      Fix error handling from lib$spawn call
: 62      0062 1 |
: 63      0063 1 | V03-002 PCA0043      Paul Anagnostopoulos  26-Mar-1982
: 64      0064 1 |      Remove DIRECTORY feature that shows if user is running
: 65      0065 1 |      PHONE. This required inswap of every process.
: 66      0066 1 |
: 67      0067 1 | V03-001 PCA0042      Paul Anagnostopoulos  26-Mar-1982
: 68      0068 1 |      Use LIB$SPAWN to fire up MAIL subprocess.
: 69      0069 1 | --

```

```

71 0070 1 %sbttl 'Module Declarations'
72 0071 1
73 0072 1 | Libraries and Requires:
74 0073 1 |
75 0074 1
76 0075 1 library 'sys$library:starlet.l32';
77 0076 1 library 'sys$library:tpamac.l32';
78 0077 1 require 'phonereq';
79 0406 1
80 0407 1
81 0408 1 | Table of Contents:
82 0409 1 |
83 0410 1
84 0411 1 forward routine
85 0412 1     phn$exit_cmd: novalue,
86 0413 1     phn$exit_handler: novalue,
87 0414 1     phn$help_cmd: novalue,
88 0415 1     phn$help2: novalue,
89 0416 1     phn$directory_cmd: novalue,
90 0417 1     phn$directory2: novalue,
91 0418 1     phn$directory_line,
92 0419 1     phn$mail_cmd: novalue;
93 0420 1
94 0421 1 |
95 0422 1 | External References:
96 0423 1 |
97 0424 1
98 0425 1 external routine
99 0426 1     lbr$close: addressing_mode(general),
100 0427 1     lbr$get_help: addressing_mode(general),
101 0428 1     lbr$ini_control: addressing_mode(general),
102 0429 1     lbr$open: addressing_mode(general),
103 0430 1     lib$spawn: addressing_mode(general),
104 0431 1     lib$parse: addressing_mode(general),
105 0432 1     phn$break_link,
106 0433 1     phn$term_characteristic,
107 0434 1     phn$establish_link,
108 0435 1     phn$inform,
109 0436 1     phn$kill_ctl,
110 0437 1     phn$make_ctl,
111 0438 1     phn$make_tsb,
112 0439 1     phn$prepare_users_target,
113 0440 1     phn$queue_smb,
114 0441 1     phn$read_slave,
115 0442 1     phn$scroll_line,
116 0443 1     phn$scroll_prep,
117 0444 1     phn$send_smb,
118 0445 1     scr$erase_page: addressing_mode(general);
119 0446 1
120 0447 1 external literal
121 0448 1     lib$_syntaxerr;
122 0449 1
123 0450 1 |
124 0451 1 | Own Variables:
125 0452 1 |
126 0453 1 | The following is the head of the help save queue. It is used by
127 0454 1 | PHN$HELP_CMD and PHN$HELP2.

```

MISCCMDS
V04-000

MISCCMDS - Miscellaneous Phone Commands
Module Declarations

K C
16-Sep-1984 02:13:32
14-Sep-1984 12:53:27

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

Page 4
(2)

```
: 128      0455 1
: 129      0456 1 own
: 130      0457 1      help_save_head: vector[2,long]
: 131      0458 1      initial(rep 2 of (help_save_head));
: 132      0459 1
```

```

: 134 0460 1 %sbttl 'PHN$EXIT_CMD - Handle EXIT Command'
: 135 0461 1 ++
: 136 0462 1 Functional Description:
: 137 0463 1 This routine handles the EXIT command, which is used to exit
: 138 0464 1 the facility.
: 139 0465 1
: 140 0466 1 Formal Parameters:
: 141 0467 1 none
: 142 0468 1
: 143 0469 1 Implicit Inputs:
: 144 0470 1 global data
: 145 0471 1
: 146 0472 1 Implicit Outputs:
: 147 0473 1 global data
: 148 0474 1
: 149 0475 1 Returned Value:
: 150 0476 1 none
: 151 0477 1
: 152 0478 1 Side Effects:
: 153 0479 1
: 154 0480 1 --
: 155 0481 1
: 156 0482 1
: 157 0483 2 global routine phn$exit_cmd: novalue = begin
: 158 0484 2
: 159 0485 2
: 160 0486 2 $exit(code=ss$_normal);
: 161 0487 2
: 162 0488 1 end;

```

```

.TITLE MISCCMDS MISCCMDS - Miscellaneous Phone Command
.IDENT \V04-000\
.PSECT $OWN$,NOEXE,2

```

```

00000000' 00000 HELP_SAVE_HEAD:
00000000' 00004 .ADDRESS HELP_SAVE_HEAD

```

```

.EXTRN PHN$_OK, PHN$_ANSWERED
.EXTRN PHN$_BUSYCALL, PHN$_CANCALL
.EXTRN PHN$_CANTREACH, PHN$_CONFCALL
.EXTRN PHN$_DEAD, PHN$_DECNETLINK
.EXTRN PHN$_DIRCAN, PHN$_FACSCAN
.EXTRN PHN$_HELPCAN, PHN$_HUNGUP
.EXTRN PHN$_JUSTRANG, PHN$_LOGGEDOFF
.EXTRN PHN$_REJECTED, PHN$_RING
.EXTRN PHN$_REJECTJUNK
.EXTRN PHN$_SENDINGMAIL
.EXTRN PHN$_BADCMD, PHN$_BADHELP
.EXTRN PHN$_BADMAILCMD
.EXTRN PHN$_BADSMB, PHN$_BADSPEC
.EXTRN PHN$_HELPMISSING
.EXTRN PHN$_IVREDUNANS
.EXTRN PHN$_IVREDUNCALL

```

```

.EXTRN PHN$_LINKERROR, PHN$ NEEDUSER
.EXTRN PHN$_NOCALL, PHN$ NOROLDS
.EXTRN PHN$_NOPTS, PHN$ NOPRIV
.EXTRN PHN$_NOPROC, PHN$ NOTCONV
.EXTRN PHN$_ONLYNODE, PHN$ _PHONEBUSY
.EXTRN PHN$_REMOTEERROR
.EXTRN PHN$_TARGTERM, PHN$ UNPLUGGED
.EXTRN PHN$_BADTERM, PHN$ SHAREDMBX
.EXTRN PHN$_INPUTTERM, PHN$GQ_NODE_NAME
.EXTRN PHN$GQ_SWITCH_HOOK
.EXTRN PHN$GL_VIEWPORT_SIZE
.EXTRN PHN$GB_SCROLL, PHN$GQ_PUBHEAD
.EXTRN PHN$GB_FLAGS, LBR$CLOSE
.EXTRN LBR$GET_HELP, LBR$INI_CONTROL
.EXTRN LBR$OPEN, LIB$SPAWN
.EXTRN LIB$PARSE, PHN$BREAK_LINK
.EXTRN PHN$TERM_CHARACTERISTIC
.EXTRN PHN$ESTAB_LINK, PHN$INFORM
.EXTRN PHN$KILL_CTL, PHN$MAKE_CTL
.EXTRN PHN$MAKE_TSB, PHN$PREPARE_USERS_TARGET
.EXTRN PHN$QUEUE_SMB, PHN$READ_SCAVE
.EXTRN PHN$SCROLL_LINE
.EXTRN PHN$SCROLL_PREP
.EXTRN PHN$SEND_SMB, SCR$ERASE_PAGE
.EXTRN LIB$_SYNTAXERR, SYS$EXIT

```

.PSECT \$CODE\$,NOWRT,2

```

.ENTRY PHN$EXIT_CMD, Save nothing ; 0483
PUSHL #1 ; 0486
CALLS #1, SYS$EXIT ; 0488
RET

```

```

0000 0000
01 DD 00002
00000000G 00 01 FB 00004
04 0000B

```

; Routine Size: 12 bytes, Routine Base: \$CODE\$ + 0000


```

: 164 0489 1 %sbttl 'PHN$EXIT_HANDLER - Exit the Facility'
: 165 0490 1 ++
: 166 0491 1 Functional Description:
: 167 0492 1 This routine is the exit handler established by the initialization
: 168 0493 1 routine. It is called whenever the user exits, be it by the EXIT
: 169 0494 1 command, CTRL/C, or CTRL/Y. We have to hang up the phone, so
: 170 0495 1 everyone we're talking to knows what's happening.
: 171 0496 1
: 172 0497 1 Formal Parameters:
: 173 0498 1 none
: 174 0499 1
: 175 0500 1 Implicit Inputs:
: 176 0501 1 global data
: 177 0502 1
: 178 0503 1 Implicit Outputs:
: 179 0504 1 global data
: 180 0505 1
: 181 0506 1 Returned Value:
: 182 0507 1 none
: 183 0508 1
: 184 0509 1 Side Effects:
: 185 0510 1
: 186 0511 1 --
: 187 0512 1
: 188 0513 1
: 189 0514 2 global routine phn$exit_handler: novalue = begin
: 190 0515 2
: 191 0516 2 local
: 192 0517 2 p: ref pub, p2: ref pub;
: 193 0518 2
: 194 0519 2
: 195 0520 2 ! We begin by scanning the entire PUB chain (except our own) and hanging
: 196 0521 2 ! up on everyone.
: 197 0522 2
: 198 0523 2 p = ..phn$gq_pubhead[0];
: 199 0524 2 until .p eqla phn$gq_pubhead do (
: 200 0525 2 p2 = .p[pub_l_flink];
: 201 0526 2
: 202 0527 2 phn$break_link(.p,smb__hungup);
: 203 0528 2
: 204 0529 2 p = .p2;
: 205 0530 2 );
: 206 0531 2
: 207 0532 2 ! Finally, we clear the screen so the user can start fresh in DCL.
: 208 0533 2
: 209 0534 2 scr$erase_page(1,1);
: 210 0535 2 return;
: 211 0536 2
: 212 0537 1 end;

```

		000C 00000	.ENTRY PHN\$EXIT_HANDLER, Save R2,R3	: 0514
52	0000G	DF D0 00002	MOVL @PHN\$GQ_PUBHEAD, P	: 0523
50	0000G	CF 9E 00007 1\$:	MOVAB PHN\$GQ_PUBHEAD, R0	: 0524

MISCCMDS
V04-000

MISCCMDS - Miscellaneous Phone Commands
PHN\$EXIT_HANDLER - Exit the Facility

B 7
16-Sep-1984 02:13:32
14-Sep-1984 12:53:27

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

Page 8
(4)

MIS
V04

	50		52	D1	0000C	CMPL	P, R0	:
			11	13	0000F	BEQL	2\$:
	53		62	DD	00011	MOVL	(P), P2	: 0525
			09	DD	00014	PUSHL	#9	: 0527
			52	DD	00016	PUSHL	P	:
	0000G	CF	02	FB	00018	CALLS	#2, PHN\$BREAK_LINK	:
		52	53	DD	0001D	MOVL	P2, P	: 0529
			E5	11	00020	BRB	1\$: 0524
			01	DD	00022	PUSHL	#1	: 0534
			01	DD	00024	PUSHL	#1	:
	00000000G	00	02	FB	00026	CALLS	#2, SCR\$ERASE_PAGE	:
			04	0002D	RET			: 0537

; Routine Size: 46 bytes, Routine Base: \$CODE\$ + 000C

; R

```

: 214 0538 1 %sbttl 'PHN$HELP_CMD - Handle HELP Command'
: 215 0539 1 ++
: 216 0540 1 Functional Description:
: 217 0541 1 This routine handles the HELP command. We get all the information
: 218 0542 1 lines from the help library and store them in memory. Then we
: 219 0543 1 queue a steering message that will make us display the first
: 220 0544 1 line. Each line displayed then queues a message for the next
: 221 0545 1 line.
: 222 0546 1
: 223 0547 1 Formal Parameters:
: 224 0548 1 parameters Address of descriptor of the rest of the help
: 225 0549 1 command as entered by the user.
: 226 0550 1
: 227 0551 1 Implicit Inputs:
: 228 0552 1 global data
: 229 0553 1
: 230 0554 1 Implicit Outputs:
: 231 0555 1 global data
: 232 0556 1
: 233 0557 1 Returned Value:
: 234 0558 1 none
: 235 0559 1
: 236 0560 1 Side Effects:
: 237 0561 1
: 238 0562 1 --
: 239 0563 1
: 240 0564 1
: 241 0565 2 global routine phn$help_cmd(parameters): novalue = begin
: 242 0566 2
: 243 0567 2 bind
: 244 0568 2 parameters_dsc = .parameters: descriptor;
: 245 0569 2
: 246 0570 2 own
: 247 0571 2 topic_dsc: descriptor,
: 248 0572 2 subtopic_dsc: descriptor,
: 249 0573 2 tparse_block: block[tpa$k_length0,byte]
: 250 0574 2 initial(tpa$k_count0,
: 251 0575 2 tpa$m_abbrev);
: 252 0576 2
: 253 0577 2 own
: 254 0578 2 library_index: long,
: 255 0579 2 library_nam: $nam();
: 256 0580 2
: 257 0581 2 local
: 258 0582 2 status: long;

```

```
: 260      0583 2 ! The following is the parsing table used to parse the help parameters.
: 261      0584 2 ! We accept all of the standard VMS help parameter formats.
: 262      0585 2
: 263      0586 2 $init_state(help_state,help_key);
: 264      0587 2
: 265      P 0588 2 $state (,
: 266      P 0589 2     (tpa$_eos,tpa$_exit),
: 267      P 0590 2     ((topic),,,,topic_dsc)
: 268      0591 2 );
: 269      P 0592 2 $state (,
: 270      P 0593 2     (tpa$_eos,tpa$_exit),
: 271      P 0594 2     ((topic),tpa$_exit,,,subtopic_dsc)
: 272      0595 2 );
: 273      0596 2
: 274      P 0597 2 $state (topic,
: 275      P 0598 2     ('/'),
: 276      P 0599 2     (tpa$_lambda)
: 277      0600 2 );
: 278      P 0601 2 $state (,
: 279      P 0602 2     ('*'),
: 280      P 0603 2     (tpa$_symbol)
: 281      0604 2 );
: 282      P 0605 2 $state (,
: 283      P 0606 2     ('.'),
: 284      P 0607 2     (tpa$_lambda,tpa$_exit)
: 285      0608 2 );
: 286      P 0609 2 $state (,
: 287      P 0610 2     ('.')
: 288      0611 2 );
: 289      P 0612 2 $state (,
: 290      P 0613 2     ('.',tpa$_exit)
: 291      0614 2 );
```

```

: 293 0615 2 ! This little routine is called by the librarian for each line it extracts
: 294 0616 2 ! from the help library. We make a queue of these lines, using CTL buffers,
: 295 0617 2 ! so that we can display them later.
: 296 0618 2
: 297 0619 2 routine help_save(line) = begin
: 298 0620 2
: 299 0621 2 local
: 300 0622 2     c: ref ctl;
: 301 0623 2
: 302 0624 2 phn$make_ctl(.line,c);
: 303 0625 2
: 304 0626 2 insque(.c,.help_save_head[1]);
: 305 0627 2 return ss$_normal;
: 306 0628 2
: 307 0629 2 end;

```

		.PSECT		_LIB\$STATES,NOWRT, SHR, PIC,1	
00000	HELP_STATE::				
			.BLKB	0	
11F7	00000	:TPASTYPE		4599	:
		U.2:	.WORD		:
FFFF	00002	:TPASTARGET		-1	:
		U.3:	.WORD		:
4DF8	00004	:TPASTYPE		19960	:
		U.4:	.WORD		:
0000*	00006	:TPASSUBEXP		<<U.5-U.6>-2>	:
		U.6:	.WORD		:
00000000*	00008	:TPASADDR		<<TOPIC_DSC-U.7>-4>	:
		U.7:	.LONG		:
11F7	0000C	:TPASTYPE		4599	:
		U.8:	.WORD		:
FFFF	0000E	:TPASTARGET		-1	:
		U.9:	.WORD		:
5DF8	00010	:TPASTYPE		24056	:
		U.10:	.WORD		:
0000*	00012	:TPASSUBEXP		<<U.5-U.11>-2>	:
		U.11:	.WORD		:
00000000*	00014	:TPASADDR		<<SUBTOPIC_DSC-U.12>-4>	:
		U.12:	.LONG		:
FFFF	00018	:TPASTARGET		-1	:
		U.13:	.WORD		:
	0001A	:TOPIC			:
		U.5:	.BLKB	0	:
002F	0001A	:TPASTYPE		47	:
		U.14:	.WORD		:
05F6	0001C	:TPASTYPE		1526	:
		U.15:	.WORD		:
002A	0001E	:TPASTYPE		42	:
		U.16:	.WORD		:
05F1	00020	:TPASTYPE		1521	:
		U.17:	.WORD		:
002E	00022	:TPASTYPE		46	:
		U.18:	.WORD		:
15F6	00024	:TPASTYPE			:

```

      U.19: .WORD 5622
FFFF 00026 ;TP$TARGET
      U.20: .WORD -1
042E 00028 ;TP$TYPE
      U.21: .WORD 1070
142E 0002A ;TP$TYPE
      U.22: .WORD 5 66
FFFF 0002C ;TP$TARGET
      U.23: .WORD -1

      .PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1

00000 HELP_KEY::
      .BLKB 0
00000 ;TP$KEY0
      U.1: .BLKB 0

      .PSECT $OWNS$,NOEXE,2

00008 TOPIC_DSC:
      .BLKB 8
00010 SUBTOPIC_DSC:
      .BLKB 8
00000002 00000008 00018 TPARSE_BLOCK:
      .LONG 8, 2
00020 .BLKB 28
0003C LIBRARY_INDEX:
      .BLKB 4
02 00040 LIBRARY_NAM:
      .BYTE 2
60 00041 .BYTE 96
00 00042 .BYTE 0
00 00043 .BYTE 0
00000000 00044 .LONG 0
00 00048 .BYTE 0
00 00049 .BYTE 0
00 0004A .BYTE 0
00 0004B .BYTE 0
00000000 0004C .LONG 0
00000000 00050 .LONG 0
0000# 00054 .WORD 0[8]
0000# 00064 .WORD 0[3]
0000# 0006A .WORD 0[3]
00000000 00070 .LONG 0
00000000 00074 .LONG 0
00 00078 .BYTE 0
00 00079 .BYTE 0
00 0007A .BYTE 0
00 0007B .BYTE 0
00 0007C .BYTE 0
00 0007D .BYTE 0
00# 0007E .BYTE 0[2]
00000000 00080 .LONG 0
00000000 00084 .LONG 0
00000000 00088 .LONG 0
00000000 0008C .LONG 0
00000000 00090 .LONG 0

```

;

00000000 00094 .LONG 0
00000000# 00098 .LONG 0[2]

.PSECT \$CODE\$,NOWRT,2

		0000	00000	HELP_SAVE:		
	SE	04	C2 00002	.WORD	Save nothing	: 0619
		5E	DD 00005	SUBL2	#4, SP	: 0624
		04	AC DD 00007	PUSHL	SP	: 0624
0000G	CF	02	FB 0000A	PUSHL	LINE	: 0626
0000'	DF	00	BE 0E 0000F	CALLS	#2, PHNSMAKE_CTL	: 0627
	50	01	DO 00015	INSQUE	@C, @HELP_SAVE_HEAD+4	: 0627
		04	00018	MOVL	#1, R0	: 0629
				RET		

; Routine Size: 25 bytes, Routine Base: \$CODE\$ + 003A

```

309 0630 2 ! We begin by parsing the help parameters.  If we get an error, just
310 0631 2 ! tell the user and quit.
311 0632 2
312 0633 2 ch$move(8,.parameters,tparse_block[tpa$l_stringcnt]);
313 0634 2 ch$fill(0,8,topic_dsc);
314 0635 2 r $fill(0,8,subtopic_dsc);
315 0636 2 .atus = lib$tparse(tparse_block,help_state,help_key);
316 0637 2 .if .status eglu lib$ syntaxerr then (
317 0638 3   phn$inform(phn$_badhelp);
318 0639 3   return;
319 0640 2 );
320 0641 2 check (.status);
321 0642 2
322 0643 2 ! Now we initialize the librarian control and open the help library.
323 0644 2
324 0645 2 status = lbr$ini_control(library_index,%ref(lbr$_read),%ref(lbr$_typ_hlp),library_nam);
325 0646 2 check (.status);
326 0647 2 status = lbr$open(library_index,describe('PHONEHELP'),0,describe('SYS$HELP:.HLB'));
327 0648 3 if not .status then (
328 0649 3   phn$inform(phn$_helpmissing);
329 0650 3   return;
330 0651 2 );
331 0652 2
332 0653 2 ! Now we read in the help information requested by the user.  For each
333 0654 2 ! line, help_save will be called to save it in memory.
334 0655 2
335 0656 2 status = lbr$get_help(library_index,0,help_save,0.topic_dsc,subtopic_dsc);
336 0657 2 check (.status);
337 0658 2 status = lbr$close(library_index);
338 0659 2 check (.status);
339 0660 2
340 0661 2 ! Now tell the user how to cancel the help information.
341 0662 2
342 0663 2 phn$inform(phn$_helpcan);
343 0664 2
344 0665 2 ! Set the 'scrolling in progress' and 'must prepare for scrolling' flags
345 0666 2 ! so the steering message routine will know what's happening.
346 0667 2
347 0668 2 phn$gv_scroller = phn$gv_scrollprep = true;
348 0669 2
349 0670 2 ! Finally, queue a steering message to display the first help line.
350 0671 2
351 0672 2 phn$queue_smb(smb__help2);
352 0673 2 return;
353 0674 2
354 0675 1 end;

```

.PSECT \$SPLITS,NOWRT,NOEXT,2

50	4C	45	48	45	4E	4F	48	50	00000	P.AAB:	.ASCII	\PHONEHELP\	:				
									00009		.BLKB	3	:				
									00000009	0000C	P.AAA:	.LONG	9				
									00000000	00010		.ADDRESS	P.AAB				
42	4C	48	2E	3A	50	4C	45	48	24	53	59	53	00014	P.AAD:	.ASCII	\SYS\$HELP:.HLB\	:
										00021		.BLKB	3	:			

0000000D 00024 P.AAC: .LONG 13
00000000' 00028 .ADDRESS P.AAD

				.PSECT \$CODE\$,NOWRT,2			
				00FC 00000	.ENTRY	PHN\$HELP_CMD, Save R2,R3,R4,R5,R6,R7	: 0565
			57 00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R7	:
			56 0000'	CF 9E 00009	MOVAB	LIBRARY_INDEX, R6	:
			5E	08 C2 0000E	SUBL2	#8, SP	:
08	E4	A6	04	08 28 00011	MOVC3	#8, @PARAMETERS, TPARSE_BLOCK+8	: 0633
		00		00 2C 00017	MOVC5	#0, (SP), #0, #8, TOPIC_DSC	: 0634
				CC A6 0001C			:
08		00		00 2C 0001E	MOVC5	#0, (SP), #0, #8, SUBTOPIC_DSC	: 0635
				D4 A6 00023			:
				0000' CF 9F 00025	PUSHAB	HELP_KEY	: 0636
				0000' CF 9F 00029	PUSHAB	HELP_STATE	:
				DC A6 9F 0002D	PUSHAB	TPARSE_BLOCK	:
		00000000G	00	03 FB 00030	CALLS	#3, LIB\$TPARSE	:
			52	50 D0 00037	MOVL	R0, STATUS	:
		00000000G	8F	52 D1 0003A	CMPL	STATUS, #LIB\$_SYNTAXERR	: 0637
				08 12 00041	BNEQ	1\$:
				00000000G 8F DD 00043	PUSHL	#PHN\$_BADHELP	: 0638
				4C 11 00049	BRB	4\$:
			05	52 E8 0004B 1\$:	BLBS	STATUS, 2\$: 0641
				52 DD 0004E	PUSHL	STATUS	:
			67	01 FB 00050	CALLS	#1, LIB\$SIGNAL	:
				A6 9F 00053 2\$:	PUSHAB	LIBRARY_NAM	: 0645
		08	AE	03 D0 00056	MOVL	#3, 8(SP)	:
				A6 9F 0005A	PUSHAB	8(SP)	:
		08	AE	01 D0 0005D	MOVL	#1, 8(SP)	:
				A6 9F 00061	PUSHAB	8(SP)	:
				56 DD 00064	PUSHL	R6	:
		00000000G	00	04 FB 00066	CALLS	#4, LBR\$INI_CONTROL	:
			52	50 D0 0006D	MOVL	R0, STATUS	:
			05	52 E8 00070	BLBS	STATUS, 3\$: 0646
				52 DD 00073	PUSHL	STATUS	:
			67	01 FB 00075	CALLS	#1, LIB\$SIGNAL	:
				0000' CF 9F 00078 3\$:	PUSHAB	P.AAC	: 0647
				7E D4 0007C	CLRL	-(SP)	:
				0000' CF 9F 0007E	PUSHAB	P.AAA	:
				56 DD 00082	PUSHL	R6	:
		00000000G	00	04 FB 00084	CALLS	#4, LBR\$OPEN	:
			52	50 D0 0008B	MOVL	R0, STATUS	:
			0C	52 E8 0008E	BLBS	STATUS, 5\$: 0648
				00000000G 8F DD 00091	PUSHL	#PHN\$ HELPMISSING	: 0649
		0000G	CF	01 FB 00097 4\$:	CALLS	#1, PRN\$INFORM	:
				04 0009C	RET		: 0648
				D4 A6 9F 0009D 5\$:	PUSHAB	SUBTOPIC_DSC	: 0656
				CC A6 9F 000A0	PUSHAB	TOPIC_DSC	:
				7E D4 000A3	CLRL	-(SP)	:
				FF3E CF 9F 000A5	PUSHAB	HELP_SAVE	:
				7E D4 000A9	CLRL	-(SP)	:
				56 DD 000AB	PUSHL	R6	:
		00000000G	00	06 FB 000AD	CALLS	#6, LBR\$GET_HELP	:
			52	50 D0 000B4	MOVL	R0, STATUS	:

	05		52	E8	0C0B7	BLBS	STATUS, 6\$:	0657
			52	DD	000BA	PUSHL	STATUS	:	
	67		01	FB	000BC	CALLS	#1, LIB\$SIGNAL	:	
			56	DD	000BF	PJSHL	R6	:	0658
00000000G	00		01	FB	000C1	CALLS	#1, LBR\$CLOSE	:	
	52		50	DD	000C8	MOVL	R0, STATUS	:	
	05		52	E8	000CB	BLBS	STATUS, 7\$:	0659
			52	DD	000CE	PUSHL	STATUS	:	
	67		01	FB	000D0	CALLS	#1, LIB\$SIGNAL	:	
		00000000G	8F	DD	000D3	PUSHL	#PHN\$ HELPCAN	:	0663
0000G	CF		01	FB	000D9	CALLS	#1, PHN\$INFORM	:	
0000G	CF		06	88	000DE	BISB2	#6, PHN\$GB_FLAGS	:	0668
			05	DD	000E3	PUSHL	#5	:	0672
0000G	CF		01	FB	000E5	CALLS	#1, PHN\$QUEUE_SMB	:	
			04	00	000EA	RET		:	0675

; Routine Size: 235 bytes. Routine Base: \$CODE\$ + 0053

```

: 356 0676 1 %sbttl 'PHN$HELP2 - Display a Help Line'
: 357 0677 1 |++
: 358 0678 1 | Functional Description:
: 359 0679 1 | This steering message routine is called to display the next
: 360 0680 1 | help line from the help queue. We do each line with a steering
: 361 0681 1 | message so that other things can happen in between each line.
: 362 0682 1 |
: 363 0683 1 | Formal Parameters:
: 364 0684 1 | none
: 365 0685 1 |
: 366 0686 1 | Implicit Inputs:
: 367 0687 1 | global data
: 368 0688 1 |
: 369 0689 1 | Implicit Outputs:
: 370 0690 1 | global data
: 371 0691 1 |
: 372 0692 1 | Returned Value:
: 373 0693 1 | none
: 374 0694 1 |
: 375 0695 1 | Side Effects:
: 376 0696 1 |
: 377 0697 1 | --
: 378 0698 1 |
: 379 0699 1 |
: 380 0700 2 global routine phn$help2: novalue = begin
: 381 0701 2
: 382 0702 2 local
: 383 0703 2     c: ref ctl;
: 384 0704 2
: 385 0705 2
: 386 0706 2 ! First we check to see if the help command has been cancelled. If so
: 387 0707 2 ! we remove all remaining help lines from the help queue and throw
: 388 0708 2 ! them away.
: 389 0709 2
: 390 0710 3 if not .phn$gv_scroller then (
: 391 0711 3     while not remque(.help_save_head[0],c) do
: 392 0712 3         phn$kill_ctl(.c);
: 393 0713 3     return;
: 394 0714 2 );
: 395 0715 2
: 396 0716 2 ! If this is the first help line displayed, we need to prepare the
: 397 0717 2 ! screen by clearing most of it.
: 398 0718 2
: 399 0719 3 if .phn$gv_scrollprep then (
: 400 0720 3     phn$scrc_prep();
: 401 0721 3     phn$gv_scrollprep = false;
: 402 0722 2 );
: 403 0723 2
: 404 0724 2 ! Now we remove the next help line from the queue and display it on the
: 405 0725 2 ! screen. If there are more lines, we need to queue another steering message.
: 406 0726 2
: 407 0727 2 if remque(.help_save_head[0],c) eqlu 0 then
: 408 0728 2     phn$queue_smb(smb_help2);
: 409 0729 2     phn$scroll_line(c[ctl_q_line]);
: 410 0730 2     phn$kill_ctl(.c);
: 411 0731 2
: 412 0732 2 return;

```

: 413
: 414
0733 2
0734 1 end;

			000C	00000	.ENTRY	PHN\$HELP2, Save R2,R3	: 0700
	53	0000G	CF	9E 00002	MOVAB	PHN\$GB_FLAGS, R3	
10	63		01	E0 00007	BBS	#1, PHN\$GB_FLAGS, 2\$: 0710
	52	0000'	DF	0F 0000B 1\$:	REMQUE	@HELP_SAVE_HEAD, C	: 0711
			39	1D 00010	BVS	5\$	
			52	DD C7012	PUSHL	C	: 0712
	0000G	CF	01	FB C7014	CALLS	#1, PHN\$KILL_CTL	
			F0	11 00019	BRB	1\$	
08	63		02	E1 0001B 2\$:	BBC	#2, PHN\$GB_FLAGS, 3\$: 0719
	0000G	CF	00	FB 0001F	CALLS	#0, PHN\$SCROLL_PREP	: 0720
	63		04	8A 00024	BICB2	#4, PHN\$GB_FLAGS	: 0721
	52	0000'	DF	0F 00027 3\$:	REMQUE	@HELP_SAVE_HEAD, C	: 0727
			50	DC 0002C	MOVPSL	R0	
50	50		01	EF 0002E	EXTZV	#1, #2, R0, R0	
			07	12 00033	BNEQ	4\$	
			05	DD 00035	PUSHL	#5	: 0728
	0000G	CF	01	FB 00037	CALLS	#1, PHN\$QUEUE_SMB	
			A2	9F 00C3C 4\$:	PUSHAB	16(C)	: 0729
	0000G	CF	01	FB 0003F	CALLS	#1, PHN\$SCROLL_LINE	
			52	DD 00044	PUSHL	C	: 0730
	0000G	CF	01	FB 00046	CALLS	#1, PHN\$KILL_CTL	
			04	0004B 5\$:	RET		: 0734

; Routine Size: 76 bytes, Routine Base: \$CODE\$ + 013E

```
416 0735 1 %sbttl 'PHN$DIRECTORY_CMD - Provide a List of Users'
417 0736 1 ++
418 0737 1 Functional Description:
419 0738 1 This routine handles the DIRECTORY command, which provides a list of
420 0739 1 users that we could call, not unlike the phone book.
421 0740 1
422 0741 1 Formal Parameters:
423 0742 1 node Address of descriptor of the node we want to list.
424 0743 1
425 0744 1 Implicit Inputs:
426 0745 1 global data
427 0746 1
428 0747 1 Implicit Outputs:
429 0748 1 global data
430 0749 1
431 0750 1 Returned Value:
432 0751 1 none
433 0752 1
434 0753 1 Side Effects:
435 0754 1
436 0755 1 --
437 0756 1
438 0757 1
439 0758 2 global routine phn$directory_cmd(node): novalue = begin
440 0759 2
441 0760 2 bind
442 0761 2 node_dsc = .node: descriptor;
443 0762 2
444 0763 2 local
445 0764 2 status: long,
446 0765 2 node_tsb: tsb;
447 0766 2 local
448 0767 2 local_described_buffer(prepared_node,nam$c_maxrss);
449 0768 2
450 0769 2
451 0770 2 ! We begin by preparing the node name specified by the user. This gets
452 0771 2 ! it ready for use in generating the directory.
453 0772 2
454 0773 2 phn$prepare_users_target(node_dsc,true,prepared_node);
455 0774 2
456 0775 2 ! Now we make a TSB in order to parse the node name. If we get a syntax
457 0776 2 ! error, or if the user included a user name with the node name, we
458 0777 2 ! tell the user and quit.
459 0778 2
460 0779 2 status = phn$make_tsb(prepared_node,node_tsb);
461 0780 3 if .status nequ phn$ok then (
462 0781 3 phn$inform(.status);
463 0782 3 return;
464 0783 2 );
465 0784 3 if .node_tsb[tsb_v_user] then (
466 0785 3 phn$inform(phn$_onlynode);
467 0786 3 return;
468 0787 2 );
469 0788 2
470 0789 2 ! Now we have to set up so that we can display the first directory line.
471 0790 2 ! This is dependent upon whether it's a local or remote directory.
472 0791 2
```

```

: 473 0792 3 begin
: 474 0793 3 local
: 475 0794 3     local_described_buffer(pub_address,4);
: 476 0795 3
: 477 0796 3 if not .node_tsb[tsb_v_remote] then
: 478 0797 3
: 479 0798 3     ! It's a local directory. Queue a steering message to do the first
: 480 0799 3     ! line. We pass a pub address of zero, meaning "local directory".
: 481 0800 3
: 482 0801 3     .pub_address[ptr] = 0
: 483 0802 4 else (
: 484 0803 4
: 485 0804 4     ! It's a remote directory. Queue a steering message to do the first
: 486 0805 4     ! line, containing the address of a temporary PUB describing the node.
: 487 0806 4
: 488 0807 4     status = phn$estab_link(prepared_node,.pub_address[ptr]);
: 489 0808 4     if .status nequ phn$_ok then
: 490 0809 4         return;
: 491 0810 3 );
: 492 0811 3 phn$queue_smb(smb__directory2,pub_address);
: 493 0812 2 end;
: 494 0813 2
: 495 0814 2
: 496 0815 2
: 497 0816 2 ! Ok, we're pretty much done. We need to tell the user how to cancel
: 498 0817 2 ! the directory. We also need to set the "scrolling in progress" and
: 499 0818 2 ! "must prepare scrolling" flags so the steering routine will know what's up.
: 500 0819 2
: 501 0820 2 phn$inform(phn$_dircan);
: 502 0821 2
: 503 0822 2 phn$gv_scroller = phn$gv_scrollprep = true;
: 504 0823 2
: 505 0824 2 return;
: 506 0825 2
: 507 0826 1 end;

```

			000C 0000	.ENTRY	PHN\$DIRECTORY_CMD, Save R2,R3	: 0758
	53	00000000G	8F DO 00002	MOVL	#PHN\$ OK, R3	:
	5E	FE08	CE 9E 00009	MOVAB	-504(SP), SP	:
0C	AE	FF	8F 9A 0000E	MOVZBL	#255, PREPARED NODE	: 0767
10	AE	14	AE 9E 00013	MOVAB	PREPARED_NODE+8, PREPARED_NODE+4	:
		0C	AE 9F 00018	PUSHAB	PREPARED_NODE	: 0773
			01 DD 0001B	PUSHL	#1	:
		04	AC DD 0001D	PUSHL	NODE	:
0000G	CF		03 FB 00020	CALLS	#3, PHN\$PREPARE_USERS_TARGET	:
		FF1C	CD 9F 00025	PUSHAB	NODE_TSB	: 0779
		10	AE 9F 00029	PUSHAB	PREPARED NODE	:
0000G	CF		02 FB 0002C	CALLS	#2, PHN\$MAKE_TSB	:
	52		50 DO 00031	MOVL	R0, STATUS	:
	53		52 D1 00034	CMPL	STATUS, R3	: 0780
			04 13 00037	BEQL	1\$:
			52 DD 00039	PUSHL	STATUS	: 0781
			0C 11 0003B	BRB	2\$:

MISCCMDS
V04-000

MISCCMDS - Miscellaneous Phone Commands
PHN\$DIRECTORY_CMD - Provide a List of Users

B 8
16-Sep-1984 02:13:32
14-Sep-1984 12:53:27

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

Page 21
(10)

MIS
V04

OC	FF1C	CD	00000000G	01	E1	0003D	1\$:	BBC	#1, NODE_TSB, 3\$:	0784
				8F	DD	00043		PUSHL	#PHN\$ ON[CYNODE	:	0785
	0000G	CF		01	FB	00049	2\$:	CALLS	#1, PRN\$INFORM	:	
					04	0004E		RET		:	0784
		6E		04	D0	0004F	3\$:	MOVL	#4, PUB_ADDRESS	:	0794
	04	AE	08	AE	9E	00052		MOVAB	PUB_ADDRESS+8, PUB_ADDRESS+4	:	
		05	FF1C	CD	E8	00057		BLBS	NODE_TSB, 4\$:	0796
			04	BE	D4	0005C		CLRL	@PUB_ADDRESS+4	:	0801
				13	11	0005F		BRB	5\$:	
			04	AE	DD	00061	4\$:	PUSHL	PUB_ADDRESS+4	:	0807
			10	AE	9F	00064		PUSHAB	PREPARED_NODE	:	
	0000G	CF		02	FB	00067		CALLS	#2, PHN\$ESTAB_LINK	:	
		52		50	D0	0006C		MOVL	R0, STATUS	:	
		53		52	D1	0006F		CMPL	STATUS, R3	:	0808
				19	12	00072		BNEQ	6\$:	
				5E	DD	00074	5\$:	PUSHL	SP	:	0811
				0F	DD	00076		PUSHL	#15	:	
	0000G	CF	00000000G	02	FB	00078		CALLS	#2, PHN\$QUEUE_SMB	:	
				8F	DD	0007D		PUSHL	#PHN\$ DIRCAN	:	0820
	0000G	CF		01	FB	00083		CALLS	#1, PRN\$INFORM	:	
	0000G	CF		06	88	00088		BISB2	#6, PHN\$GB_FLAGS	:	0822
				04	0008D	6\$:		RET		:	0826

; Routine Size: 142 bytes, Routine Base: \$CODE\$ + 018A

```

509 0827 1 %sbttl 'PHN$DIRECTORY2 - Display Directory Line'
510 0828 1 ++
511 0829 1 Functional Description:
512 0830 1 This steering message routine is called to display the next line
513 0831 1 of directory information. This is done one at a time with steering
514 0832 1 messages so that other things can happen in between.
515 0833 1
516 0834 1 Formal Parameters:
517 0835 1 pub_address If it's a local directory, this is zero. If it's
518 0836 1 remote, it's the address of a PUB describing the node.
519 0837 1
520 0838 1 Implicit Inputs:
521 0839 1 global data
522 0840 1
523 0841 1 Implicit Outputs:
524 0842 1 global data
525 0843 1
526 0844 1 Returned Value:
527 0845 1 none
528 0846 1
529 0847 1 Side Effects:
530 0848 1
531 0849 1 --
532 0850 1
533 0851 1
534 0852 2 global routine phn$directory2(pub_address): novalue = begin
535 0853 2
536 0854 2 bind
537 0855 2 pub_address_dsc = .pub_address: descriptor,
538 0856 2 np = .pub_address_dsc[ptr]: ref pub;
539 0857 2
540 0858 2 own
541 0859 2 wild_pid: long,
542 0860 2 person_count: long;
543 0861 2
544 0862 2 local
545 0863 2 status: long,
546 0864 2 decnet_iosb: block[8,byte];
547 0865 2 local
548 0866 2 local_described_buffer(display_line,79);
549 0867 2
550 0868 2
551 0869 2 ! First we check to see if the directory has been cancelled. If so, quit.
552 0870 2 ! If it's a remote directory, though, make sure we break the link.
553 0871 2
554 0872 3 if not .phn$gv_scroller then (
555 0873 3 if .np neqa 0 then
556 0874 3 phn$break_link(.np,smb__slave_done);
557 0875 3 return;
558 0876 3 );
559 0877 2
560 0878 2 ! If this is the first line of the directory, we need to prepare the screen
561 0879 2 ! by clearing most of it and displaying some headings. Zero person count.
562 0880 2
563 0881 3 if .phn$gv_scrollprep then (
564 P 0882 3 phn$scroll_prep(describe(
565 0883 3 'Process Name User Name Terminal Phone Status'));

```



```

: 566      0884      3      wild_pid = -1;
: 567      0885      3      person_count = 0;
: 568      0886      3      phn$gv_scrollprep = false;
: 569      0887      3      );
: 570      0888      3
: 571      0889      2      ! Now we split up depending on whether it's a local or remote directory.
: 572      0890      2
: 573      0891      3      if .np eqla 0 then (
: 574      0892      3
: 575      0893      3          ! It's a local directory.  Get the next directory line, if it exists.
: 576      0894      3
: 577      0895      3          status = phn$directory_line(wild_pid,display_line);
: 578      0896      3          status = .status eqlu phn$ok;
: 579      0897      3      ) else (
: 580      0898      3
: 581      0899      3          ! It's a remote directory.  Send a steering message to the network
: 582      0900      3          ! slave asking it for a line.  Get the line.  If its length is zero,
: 583      0901      3          ! we're done with the directory.
: 584      0902      3
: 585      0903      3          phn$send_smb(.np,smb__directory2);
: 586      0904      3          status = phn$read_slave(.np[pub_w_channel],display_line,false);
: 587      0905      3          status = .status eqlu phn$ok and .display_line[len] gtru 0;
: 588      0906      3          if not .status then
: 589      0907      3              phn$break_link(.np,smb__slave_done);
: 590      0908      3      );
: 591      0909      3
: 592      0910      2      ! Let's see what happened with that directory line.
: 593      0911      2
: 594      0912      3      if .status then (
: 595      0913      3
: 596      0914      3          ! We got one.  Scroll it onto the screen and queue a steering message
: 597      0915      3          ! so we'll be recalled to do the next line.
: 598      0916      3
: 599      0917      3          phn$scroll_line(display_line);
: 600      0918      3          inc (person_count);
: 601      0919      3          phn$queue_smb(smb__directory2,pub_address_dsc);
: 602      0920      3
: 603      0921      3      ) else (
: 604      0922      3
: 605      0923      3          ! There wasn't another line.  Tell the user how many people were
: 606      0924      3          ! listed and quit.
: 607      0925      3
: 608      0926      3          phn$scroll_line(describe(''));
: 609      0927      3          display_line[len] = 79;
: 610      0928      3          status = $fao(describe('!UL person!%S listed.'),
: 611      0929      3              display_line,
: 612      0930      3              display_line,
: 613      0931      3              .person_count);
: 614      0932      3          check (.status);
: 615      0933      3          phn$scroll_line(display_line);
: 616      0934      3      );
: 617      0935      3
: 618      0936      3      return;
: 619      0937      3
: 620      0938      3      end;

```

PPP

```

.PSECT $SPLIT$,NOWRT,NOEXE,2
20 20 20 65 6D 61 4E 20 73 73 65 63 6F 72 50 0002C P.AAF: .ASCII \Process Name User Name Terminal\
20 20 20 20 20 65 6D 61 4E 20 72 65 73 55 20 0003B
53 20 65 6E 6F 68 50 20 20 20 20 20 20 20 20 0004A
.PSECT $PHONE$,NOWRT,NOEXE,2
53 20 65 6E 6F 68 50 20 20 20 20 20 20 20 20 00054
.PSECT $PHONE$,NOWRT,NOEXE,2
53 20 65 6E 6F 68 50 20 20 20 20 20 20 20 20 00063
0000003C 00068 P.AAE: .LONG 60
00000000 0006C .ADDRESS P.AAF
00070 P.AAH: .BLKB 0
00070 P.AAG: .LONG 0
00074 P.AAJ: .ADDRESS P.AAH
6C 20 53 25 21 6E 6F 73 72 65 70 20 4C 55 21 00078 P.AAJ: .ASCII \!UL person!%S listed.\
2E 64 65 74 73 69 00087
0008D
00000015 00090 P.AAI: .BLKB 3
00000000 00094 .LONG 21
.PSECT $ADDRESS$,NOWRT,NOEXE,2
00094 .ADDRESS P.AAJ

.PSECT $WILD_PID$,NOWRT,NOEXE,2
000A0 WILD_PID: .BLKB 4
000A4 PERSON_COUNT: .BLKB 4

.PSECT $SYSSFAO$,NOWRT,NOEXE,2
000A4 .EXTRN SYSSFAO

.PSECT $CODE$,NOWRT,2
000A4 .ENTRY PHN$DIRECTORY2, Save R2,R3,R4,R5,R6,R7,R8 : 0852
58 0000G CF 9E 00002 MOVAB PHN$GB_FLAGS, R8
57 0000G CF 9E 00007 MOVAB PHN$SCROLL_LINE, R7
56 00000000G 8F D0 0000C MOVL #PHN$ OK, R6
55 0000' CF 9E 00013 MOVAB PERSON_COUNT, R5
5E A4 AE 9E 00018 MOVAB -92(SPT), SP
53 04 AC D0 0001C MOVL PHN$ADDRESS, R3
7E 4F 8F 9A 00020 MOVZBL #79, DISPLAY_LINE
11 04 AE 08 AE 9E 00024 MOVAB DISPLAY_LINE+8, DISPLAY_LINE+4 : 0855
68 01 E0 00029 BBS #1, PHN$GB_FLAGS, 2$ : 0866
04 B3 D5 0002D TSTL @4(R3) : 0872
01 12 00030 BNEQ 1$ : 0873
04 04 00032 RET
0D DD 00033 1$: PUSHL #13 : 0874
04 B3 DD 00035 PUSHL @4(R3)
0000G CF 02 FB 00038 CALLS #2, PHN$BREAK_LINK : 0872
04 04 0003D RET : 0881
12 68 02 E1 0003E 2$: BBC #2, PHN$GB_FLAGS, 3$ : 0883
0000G CF 01 FB 00042 PUSHAB P.AAE
FC A5 01 CE 00046 CALLS #1, PHN$SCROLL_PREP : 0884
65 D4 0004F MNEGL #1, WILD_PID : 0885
68 04 8A 00051 BICB2 #4, PHN$GB_FLAGS : 0886
52 04 B3 D0 00054 3$: MOVL @4(R3), R2 : 0891
1B 12 00058 BNEQ 5$
5E DD 0005A PUSHL SP : 0895
FC A5 9F 0005C PUSHAB WILD_PID

```

0000V	CF		02	FB	0005F		CALLS	#2, PHN\$DIRECTORY_LINE	:	
	54		50	D0	00064		MOVL	R0, STATUS	:	
			50	D4	00067		CLRL	R0	:	0896
	56		54	D1	00069		CMPL	STATUS, R6	:	
			02	12	0006C		BNEQ	4\$:	
			50	D6	0006E		INCL	R0	:	
	54		50	D0	00070	4\$:	MOVL	R0, STATUS	:	
			3F	11	00073		BRB	8\$:	0891
			0F	DD	00075	5\$:	PUSHL	#15	:	0903
			52	DD	00077		PUSHL	R2	:	
0000G	CF		02	FB	00079		CALLS	#2, PHN\$SEND_SMB	:	
			7E	D4	0007E		CLRL	-(SP)	:	0904
		04	AE	9F	00080		PUSHAB	DISPLAY_LINE	:	
	7E	00F4	C2	3C	00083		MOVZWL	244(R2), -(SP)	:	
0000G	CF		03	FB	00088		CALLS	#3, PHN\$READ_SLAVE	:	
	54		50	D0	0008D		MOVL	R0, STATUS	:	
			51	D4	00090		CLRL	R1	:	0905
	56		54	D1	00092		CMPL	STATUS, R6	:	
			02	12	00095		BNEQ	6\$:	
			51	D6	00097		INCL	R1	:	
			50	D4	00099	6\$:	CLRL	R0	:	
			6E	B5	0009B		TSTW	DISPLAY_LINE	:	
			02	13	0009D		BEQL	7\$:	
			50	D6	0009F		INCL	R0	:	
	54		51	D2	000A1	7\$:	MCOML	R1, STATUS	:	
54	50		54	CB	000A4		BICL3	STATUS, R0, STATUS	:	
	0C		54	E8	000A8		BLBS	STATUS, 9\$:	0906
			0D	DD	000AB		PUSHL	#13	:	0907
			52	DD	000AD		PUSHL	R2	:	
0000G	CF		02	FB	000AF		CALLS	#2, PHN\$BREAK_LINK	:	
	11		54	E9	000B4	8\$:	BLBC	STATUS, 10\$:	0912
			5E	DD	000B7	9\$:	PUSHL	SP	:	0917
	67		01	FB	000B9		CALLS	#1, PHN\$SCROLL_LINE	:	
			65	D6	000BC		INCL	PERSON_COUNT	:	0918
			53	DD	000BE		PUSHL	R3	:	0919
			0F	DD	000C0		PUSHL	#15	:	
0000G	CF		02	FB	000C2		CALLS	#2, PHN\$QUEUE_SMB	:	
			04	000C7			RET		:	0912
	67	0000'	CF	9F	000C8	10\$:	PUSHAB	P.AAG	:	0926
	6E	4F	01	FB	000CC		CALLS	#1, PHN\$SCROLL_LINE	:	
			8F	9B	000CF		MOVZBW	#79, DISPLAY_LINE	:	0927
			65	DD	000D3		PUSHL	PERSON_COUNT	:	0931
		04	AE	9F	000D5		PUSHAB	DISPLAY_LINE	:	
		08	AE	9F	000D8		PUSHAB	DISPLAY_LINE	:	
		0000'	CF	9F	000DB		PUSHAB	P.AAI	:	
00000000G	00		04	FB	000DF		CALLS	#4, SYSSFA0	:	
	54		50	D0	000E6		MOVL	R0, STATUS	:	
	09		54	E8	000E9		BLBS	STATUS, 11\$:	0932
			54	DD	000EC		PUSHL	STATUS	:	
00000000G	00		01	FB	000EE		CALLS	#1, LIB\$SIGNAL	:	
			5E	DD	000F5	11\$:	PUSHL	SP	:	0933
	67		01	FB	000F7		CALLS	#1, PHN\$SCROLL_LINE	:	
			04	000FA			RET		:	0938

; Routine Size: 251 bytes, Routine Base: \$CODE\$ + 0218

```

: 622 0939 1 %sbttl 'PHN$DIRECTORY_LINE - Build a Directory Line'
: 623 0940 1 ++
: 624 0941 1 Functional Description:
: 625 0942 1 This routine is called to build a directory line for displaying.
: 626 0943 1 It uses the wild PID to obtain the next available process, and
: 627 0944 1 then obtains information from the process for the line.
: 628 0945 1
: 629 0946 1 Formal Parameters:
: 630 0947 1 wild_pid Address of a longword wild PID. Must be initialized
: 631 0948 1 to -1 at the beginning.
: 632 0949 1 line_buf Address of a descriptor of a display line buffer.
: 633 0950 1 We fill in the length.
: 634 0951 1
: 635 0952 1 Implicit Inputs:
: 636 0953 1 global data
: 637 0954 1
: 638 0955 1 Implicit Outputs:
: 639 0956 1 global data
: 640 0957 1
: 641 0958 1 Returned Value:
: 642 0959 1 phn$_noprocs No more processes to display.
: 643 0960 1
: 644 0961 1 Side Effects:
: 645 0962 1
: 646 0963 1 --
: 647 0964 1
: 648 0965 1
: 649 0966 2 global routine phn$directory_line(wild_pid,line_buf) = begin
: 650 0967 2
: 651 0968 2 own
: 652 0969 2 own_described_buffer(process_name,16),
: 653 0970 2 own_described_buffer(user_name,12),
: 654 0971 2 own_described_buffer(terminal_number,7),
: 655 0972 2 parent_pid: long;
: 656 0973 2
: 657 0974 2 bind
: 658 0975 2 get_info = uplit(word(16),word(jpi$ prcnam),
: 659 0976 2 long(process_name+8),
: 660 0977 2 long(process_name),
: 661 0978 2 word(12),word(jpi$_username),
: 662 0979 2 long(user_name+8),
: 663 0980 2 long(user_name),
: 664 0981 2 word(7),word(jpi$ terminal),
: 665 0982 2 long(terminal_number+8),
: 666 0983 2 long(terminal_number),
: 667 0984 2 word(4),word(jpi$_owner),
: 668 0985 2 long(parent_pid),
: 669 0986 2 long(0),
: 670 0987 2 long(0));
: 671 0988 2
: 672 0989 2 local
: 673 0990 2 status: long,
: 674 0991 2 terminal_ptr: ref descriptor,
: 675 0992 2 phone_status_ptr: ref descriptor;
: 676 0993 2
: 677 0994 2
: 678 0995 2 ! We obtain information about the next process using the wildcard $GETJPI

```

```

: 679 0996 2 ! facility. If we get a bad status, or if the process does not own a terminal
: 680 0997 2 ! (isn't interactive), then just try the next one. Also, we don't display
: 681 0998 2 ! subprocesses.
: 682 0999
: 683 1000
: 684 P 1001 do (
: 685 P 1002     status = $getjpi(efn=phn$k_getjpiefn,
: 686 1003         pidadr=.wild_pid,
: 687 1004         itmlst=get_info);
: 688 1005     if .status eqlu ss$_nomoreproc then
: 689 1006         return phn$_nopro;
: 690 1007 ) until (.status eqlu ss$_normal) and (.terminal_number[len] nequ 0) and (.parent_pid eqlu 0);
: 691 1008
: 692 1009 $waitfr(efn=phn$k_getjpiefn);
: 693 1010
: 694 1011 ! OK, now we split up depending upon whether the process' terminal can
: 695 1012 ! be used as a telephone.
: 696 1013
: 697 1014 if phn$term_characteristic(terminal_number,tt$m_scope) then (
: 698 1015
: 699 1016     ! This process has a nice terminal. We will display its number.
: 700 1017
: 701 1018     terminal_ptr = terminal_number;
: 702 1019
: 703 1020     ! The phone status is determined by whether or not the person
: 704 1021     ! has set /NOBROADCAST to unplug the phone.
: 705 1022
: 706 1023     phone_status_ptr = (if phn$term_characteristic(terminal_number,tt$m_nobrdcst) then
: 707 1024         describe('/nobroadcast')
: 708 1025         else
: 709 1026         describe('available'));
: 710 1027
: 711 1028 ) else (
: 712 1029
: 713 1030     ! As it turns out, the guy's terminal is useless. Set up to
: 714 1031     ! display that.
: 715 1032
: 716 1033     terminal_ptr = describe('unusable');
: 717 1034     phone_status_ptr = describe('---');
: 718 1035 );
: 719 1036
: 720 1037 ! Now we use $FAO to build the directory line to be displayed. It contains
: 721 1038 ! the process name, user name, terminal info, and phone status info.
: 722 1039 ! Display the line.
: 723 1040
: 724 P 1041 status = $fao(describe('!16<!AF!>!16<!AS!>!16<!AS!>!AS'),
: 725 P 1042     .line_buf,
: 726 P 1043     .line_buf,
: 727 P 1044     .process_name[len],
: 728 P 1045     .process_name[ptr],
: 729 P 1046     user_name,
: 730 P 1047     .terminal_ptr,
: 731 1048     .phone_status_ptr);
: 732 1049 check (.status);
: 733 1050
: 734 1051 return phn$_ok;
: 735 1052

```

; 736

1053 1 end;

```

.PSECT $SPLITS$,NOWRT,NOEXE,2

0010 00098 P.AAK: .WORD 16
031C 0009A .WORD 796
00000000' 0009C .ADDRESS PROCESS_NAME+8
00000000' 000A0 .ADDRESS PROCESS_NAME
000C 000A4 .WORD 12
0202 000A6 .WORD 514
00000000' 000A8 .ADDRESS USER_NAME+8
00000000' 000AC .ADDRESS USER_NAME
0007 000B0 .WORD 7
031D 000B2 .WORD 797
00000000' 000B4 .ADDRESS TERMINAL_NUMBER+8
00000000' 000B8 .ADDRESS TERMINAL_NUMBER
0004 000BC .WORD 4
0303 000BE .WORD 771
00000000' 000C0 .ADDRESS PARENT_PID
00000000 000C4 .LONG 0
00000000 000C8 .LONG 0
74 73 61 63 64 61 6F 72 62 6F 6E 2F 000CC P.AAM: .ASCII \/\nobroadcast\
00000000C 000D8 P.AAL: .LONG 12
000000000' 000DC .ADDRESS P.AAM
65 6C 62 61 6C 69 61 76 61 000E0 P.AAO: .ASCII \available\
000E9 .BLKB 3
00000009 000EC P.AAN: .LONG 9
00000000' 000F0 .ADDRESS P.AAO
65 6C 62 61 73 75 6E 75 000F4 P.AAQ: .ASCII \unusable\
00000008 000FC P.AAP: .LONG 8
00000000' 00100 .ADDRESS P.AAQ
2D 2D 2D 00104 P.AAS: .ASCII \---\
00107 .BLKB 1
00000003 00108 P.AAR: .LONG 3
00000000' 0010C .ADDRESS P.AAS
41 21 3C 36 31 21 3E 21 46 41 21 3C 36 31 21 00110 P.AAU: .ASCII \!16<!AF!>!16<!AS!>!16<!AS!>!AS\
53 41 21 3E 21 53 41 21 3C 36 31 21 3E 21 53 0011F .BLKB 2
0000001E 00130 P.AAT: .LONG 30
00000000' 00134 .ADDRESS P.AAU

.PSECT $OWNS$,NOEXE,2

00000010 000A8 PROCESS_NAME:
00000000' 000AC .LONG 16
00000000' 000B0 .ADDRESS PROCESS_NAME+8
00000000C 000C0 USER_NAME:
00000000' 000C4 .BLKB 16
00000000' 000C8 .LONG 12
00000007 000D4 .ADDRESS USER_NAME+8
00000000' 000D8 .BLKB 12
00000000' 000DC .ADDRESS TERMINAL_NUMBER:
00000000' 000E0 .LONG 7
00000000' 000E8 .ADDRESS TERMINAL_NUMBER+8
00000000' 000EC .BLKB 7

```

```

000E3 .BLKB 1
000E4 PARENT_PID:
      .BLKB 4

      GET_INFO= P.AAK
      .EXTRN SYSSGETJPI, SYSSWAITFR
      .PSECT $CODE$,NOWRT,2

003C 00000 .ENTRY PHNSDIRECTORY_LINE, Save R2,R3,R4,R5 : 0966
55 0000' CF 9E 00002 MOVAB GET_INFO, R5
54 0000' CF 9E 00007 MOVAB TERMINAL_NUMBER, R4
      7E 7C 0000C 1$: CLRB -(SP) : 1003
      7E D4 0000E CLRL -(SP)
      55 DD 00010 PUSHL R5
      7E D4 00012 CLRL -(SP)
      04 AC DD 00014 PUSHL WILD_PID
      01 DD 00017 PUSHL #1
00000000G 00 07 FB 00019 CALLS #7, SYSSGETJPI
      -3 50 D0 00020 MOVL R0, STATUS
000009A8 8F 53 D1 00023 CMPL STATUS, #2472 : 1004
      08 12 0002A BNEQ 2$
      50 00000000G 8F D0 0002C MOVL #PHNS_NOPROC, R0 : 1005
      04 00033 RET
      01 53 D1 00034 2$: CMPL STATUS, #1 : 1007
      D3 12 00037 BNFQ 1$
      64 B5 00039 TSTW TERMINAL_NUMBER
      10 CF 13 0003B BEQL 1$
      A4 D5 0003D TSTL PARENT_PID
      CA 12 00040 BNEQ 1$
      01 DD 00042 PUSHL #1 : 1009
00000000G 00 01 FB 00044 CALLS #1, SYSSWAITFR
      7E 1000 8F 3C 0004B MOVZWL #4096, -(SP) : 1014
      54 DD 00050 PUSHL R4
      0000G CF 02 FB 00052 CALLS #2, PHNSTERM_CHARACTERISTIC
      1F 50 E9 00057 BLBC R0, 4$
      52 00020000 64 9E 0005A MOVAB TERMINAL_NUMBER, TERMINAL_PTR : 1018
      8F DD 0005D PUSHL #131072 : 1023
      54 DD 00063 PUSHL R4
      0000G CF 02 FB 00065 CALLS #2, PHNSTERM_CHARACTERISTIC
      06 50 E9 0006A BLBC R0, 3$
      50 40 A5 9E 0006D MOVAB P.AAL, PHONE_STATUS_PTR : 1024
      0E 11 00071 BRB 5$
      50 54 A5 9E 00073 3$: MOVAB P.AAN, PHONE_STATUS_PTR : 1026
      08 11 00077 BRB 5$ : 1014
      52 64 A5 9E 00079 4$: MOVAB P.AAP, TERMINAL_PTR : 1033
      50 70 A5 9E 0007D MOVAB P.AAR, PHONE_STATUS_PTR : 1034
      50 DD 00081 5$: PUSHL PHONE_STATUS_PTR : 1048
      52 DD 00083 PUSHL TERMINAL_PTR
      EC A4 9F 00085 PUSHAB USER_NAME
      DB A4 DD 00088 PUSHL PROCESS_NAME+4
      7E D4 A4 3C 0008B MOVZWL PROCESS_NAME, -(SP)
      08 AC DD 0008F PUSHL LINE_BUF
      08 AC DD 00092 PUSHL LINE_BUF
      0098 C5 9F 00095 PUSHAB P.AAT
00000000G 00 08 FB 00099 CALLS #8, SYSSFAO
      53 50 D0 000A0 MOVL R0, STATUS

```

00

MISCCMDS
V04-000

MISCCMDS - Miscellaneous Phone Commands
PHNS\$DIRECTORY_LINE - Build a Directory Line

K 8
16-Sep-1984 02:13:32
14-Sep-1984 12:53:27

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

Page 30
(12)

NE
VC

09	53	E8	000A3	BLBS	STATUS, 6\$:	1049
	53	DD	000A6	PUSHL	STATUS	:	
00000000G 00	01	FB	000A8	CALLS	#1, LIB\$SIGNAL	:	
50 00000000G	8F	D0	000AF 6\$:	MOVL	#PHNS_OK, R0	:	1051
	04	000B6		RET		:	1053

; Routine Size: 183 bytes, Routine Base: \$CODE\$ + 0313


```
738 1054 1 %sbttl 'PHN$MAIL_CMD - Handle MAIL Command'
739 1055 1 |++
740 1056 1 | Functional Description:
741 1057 1 | This routine handles the MAIL command, which is used to send
742 1058 1 | a short phone message to another user. We will spawn a subprocess
743 1059 1 | to send the message with the MAIL utility.
744 1060 1 |
745 1061 1 | Formal Parameters:
746 1062 1 | parameters The rest of the command line as entered by the user.
747 1063 1 | It is assumed to be in the following form:
748 1064 1 | addressee 'message[']
749 1065 1 |
750 1066 1 | Implicit Inputs:
751 1067 1 | global data
752 1068 1 |
753 1069 1 | Implicit Outputs:
754 1070 1 | global data
755 1071 1 |
756 1072 1 | Returned Value:
757 1073 1 | none
758 1074 1 |
759 1075 1 | Side Effects:
760 1076 1 |
761 1077 1 | --
762 1078 1 |
763 1079 1 |
764 1080 2 global routine phn$mail_cmd(parameters): novalue = begin
765 1081 2 |
766 1082 2 bind
767 1083 2 | parameters_dsc = .parameters: descriptor;
768 1084 2 |
769 1085 2 local
770 1086 2 | status_1 : block[4,byte],
771 1087 2 | status_2 : block[4,byte],
772 1088 2 | priv_vec : vector[2,long],
773 1089 2 | char_ptr: long,
774 1090 2 | message_dsc: descriptor;
775 1091 2 |
776 1092 2 |
777 1093 2 | We begin by rebuilding the parameters descriptor so it describes only
778 1094 2 | the addressee. Then we build a new descriptor, message_dsc, to describe
779 1095 2 | the phone message text.
780 1096 2 |
781 1097 2 char_ptr = ch$find_ch(.parameters_dsc[len],.parameters_dsc[ptr],''');
782 1098 2 if .char_ptr eql 0 then (
783 1099 3 | phn$inform(phn$_badmailcmd);
784 1100 3 | return;
785 1101 2 | );
786 1102 2 message_dsc[len] = .parameters_dsc[len] - (.char_ptr - .parameters_dsc[ptr]);
787 1103 2 parameters_dsc[len] = .char_ptr - .parameters_dsc[ptr];
788 1104 3 if .parameters_dsc[len] eql 0 then (
789 1105 3 | phn$inform(phn$_badmailcmd);
790 1106 3 | return;
791 1107 2 | );
792 1108 2 |
793 1109 2 message_dsc[ptr] = .char_ptr + 1;
794 1110 2 char_ptr = ch$find_ch(.message_dsc[len]-1,.message_dsc[ptr],''');
```

```

795 1111 3 message_dsc[len] = (if .char_ptr eq 0 then .message_dsc[len] - 1
796 1112 2 else .char_ptr - .message_dsc[ptr]);
797 1113 2
798 1114 2 ! Put out a prompt so the user knows it's gonna take a while to send
799 1115 2 ! this bloody message.
800 1116 2
801 1117 2 phn$inform(phn$_sendingmail);
802 1118 2
803 1119 2 ! Now we can create a subprocess to mail the message to the addressee.
804 1120 2 ! This is done using LIB$SPAWN.
805 1121 2
806 1122 3 begin
807 1123 3 local
808 1124 3     local_described_buffer(command_buf,128);
809 1125 3
810 1126 3 ch$copy(30,uplit byte('MAIL/SUBJECT='PHONE Message: '),
811 1127 3     .message_dsc[len],.message_dsc[ptr],
812 1128 3     6,uplit byte(' NL: '),
813 1129 3     .parameters_dsc[len],.parameters_dsc[ptr],
814 1130 3     .command_buf[len],.command_buf[ptr]);
815 1131 3 priv_vec[0] = (1^$bitposition(prv$_netmbx)) or
816 1132 3     (1^$bitposition(prv$_oper)) or
817 1133 3     (1^$bitposition(prv$_prmbx)) or
818 1134 3     (1^$bitposition(prv$_sysnam)) or
819 1135 3     (1^$bitposition(prv$_world));
820 1136 3 priv_vec[1] = 0;
821 1137 3 $setprv(enbflg=0,privadr=priv_vec);
822 1138 3 status_2 = lib$spawn(command_buf,$descriptor('NL:'),0,%ref(%b'010'),0,
823 1139 3     0,status_1);
824 1140 3 $setprv(enbflg=1,privadr=priv_vec);
825 1141 2 end;
826 1142 2
827 1143 2 ! If we encountered a problem, tell the user about it. Otherwise just
828 1144 2 ! clear away the prompt.
829 1145 2
830 1146 3 phn$inform((if not .status_2 !Report lib$spawn error
831 1147 3     and not .status_2[sts$_inhib_msg]
832 1148 3     then .status_2
833 1149 3     else if not .status_1 !or error from mail
834 1150 3     and not .status_1[sts$_inhib_msg] ! unless inhibited
835 1151 3     then .status_1
836 1152 3     else 0));
837 1153 2
838 1154 2 return;
839 1155 2
840 1156 1 end;

```

														.PSECT		\$SPLITS,NOWRT,NOEXE,2				
50	22	3D	54	43	45	4A	42	55	53	2F	4C	49	41	4D	00138	P.AAV:	.ASCII	\MAIL/SUBJECT='PHONE Message: \		
20	20	3'	65	67	61	73	73	65	4D	20	45	4E	4F	48	00147					
									20	3A	4C	4E	20	22	00156	P.AAW:	.ASCII	\ NL: \		
												3A	4C	4E	0015C	P.AAY:	.ASCII	\NL:\		
															0015F		.BLKB	1		
															00000003	00160	P.AAX:	.LONG	3	

				00000000' 00164		.ADDRESS P.AAY				
						.EXTRN SYSS\$SETPRV				
						.PSECT \$CODE\$,NOWRT,2				
				OFFC 00000		.ENTRY PHNSMAIL_CMD, Save R2,R3,R4,R5,R6,R7,R8,R9,-;		1080		
			5B	00000000G	00	9E	00002	MOVAB	R10, R11	
			5E	FF60	CE	9E	00009	MOVAB	SYS\$SETPRV, R11	
			56	04	AC	D0	0000E	MOVL	-160(SP), SP	1083
04	B6		66		22	3A	00012	MOVL	PARAMETERS, R6	1097
					02	12	00017	LOCC	#34, (R6), @4(R6)	
					51	D4	00019	BNEQ	1\$	
			53		51	D0	0001B	CLRL	R1	
					CF	13	0001E	MOVL	R1, CHAR_PTR	1098
					53	C3	00020	BEQL	2\$	1102
F0	AD	04	A6		50	A1	00025	SUBL3	CHAR_PTR, 4(R6), R0	
			66		50	A1	00025	ADDW3	R0, (R6), MESSAGE_DSC	1103
			66		50	AE	0002A	MNEGW	R0, (R6)	1104
					09	12	0002D	BNEQ	3\$	1105
				00000000G	8F	DD	0002F	PUSHL	#PHNS_BADMAILCMD	
					00DD	31	00035	BRW	11\$	
		F4	AD	01	A3	9E	00038	MOVAB	1(R3), MESSAGE_DSC+4	1109
			52	F0	AD	3C	0003D	MOVZWL	MESSAGE_DSC, R2	1110
					52	D7	00041	DECL	R2	
F4	BD		52		22	3A	00043	LOCC	#34, R2, MESSAGE_DSC+4	
					02	12	00048	BNEQ	4\$	
					51	D4	0004A	CLRL	R1	
			53		51	D0	0004C	MOVL	R1, CHAR_PTR	1111
					05	12	0004F	BNEQ	5\$	
			51		52	D0	00051	MOVL	R2, R1	
					05	11	00054	BRB	6\$	
		51	53	F4	AD	C3	00056	SUBL3	MESSAGE_DSC+4, CHAR_PTR, R1	1112
			AD		51	B0	0005B	MOVW	R1, MESSAGE_DSC	1111
				00000000G	8F	DD	0005F	PUSHL	#PHNS_SENDINGMAIL	1117
			0000G		01	FB	00065	CALLS	#1, PHNSINFORM	
			08		8F	9A	0006A	MOVZBL	#128, COMMAND_BUF	1124
			OC		AE	9E	0006F	MOVAB	COMMAND_BUF+8, COMMAND_BUF+4	
			5A		F0	AD	00074	MOVZWL	MESSAGE_DSC, R10	1127
			59		66	3C	00078	MOVZWL	(R6), R9	1129
			58		08	AE	0007B	MOVZWL	COMMAND_BUF, R8	1130
			57		OC	AE	0007F	MOVL	COMMAND_BUF+4, R7	
58	20	0000'	CF		1E	2C	00083	MOVCS	#30, P.AAV, #32, R8, (R7)	
					67		0008A			
					2C	18	0008B	BGEQ	7\$	
			57		1E	C0	0008D	ADDL2	#30, R7	
			58		1E	C2	00090	SUBL2	#30, R8	
58	20	F4	BD		5A	2C	00093	MOVCS	R10, MESSAGE_DSC+4, #32, R8, (R7)	
					67		00099			
					1D	18	0009A	BGEQ	7\$	
					5A	C0	0009C	ADDL2	R10, R7	
			57		5A	C2	0009F	SUBL2	R10, R8	
58	20	0000'	CF		06	2C	000A2	MOVCS	#6, P.AAV, #32, R8, (R7)	
					67		000A9			
					0D	18	000AA	BGEQ	7\$	
			57		06	C0	000AC	ADDL2	#6, R7	
			58		06	C2	000AF	SUBL2	#6, R8	

58	20	04	B6	59	2C	000B2	MOVCS	R9, @4(R6), #32, R8, (R7)	:	:
		F8	AD 00150804	67		000B8			:	:
			FC	8F	DO	000B9	7\$:	MOVL #1378308, PRIV_VEC	:	1134
				AD	D4	000C1		CLRL PRIV_VEC+4	:	1136
				7E	7C	000C4		CLRQ -(SP)	:	1137
			F8	AD	9F	000C6		PUSHAB PRIV_VEC	:	
				7E	D4	000C9		CLRL -(SP)	:	
			6B	04	FB	000CB		CALLS #4, SYS\$SETPRV	:	
				04	AE	9F 000CE		PUSHAB STATUS_1	:	1138
				7E	7C	000D1		CLRQ -(SP)	:	
			0C	AE				MOVL #2, 12(SP)	:	
				0C	AE	9F 000D7		PUSHAB 12(SP)	:	
				7E	D4	000DA		CLRQ -(SP)	:	
				0000'	CF	9F 000DC		PUSHAB P.AAX	:	
				20	AE	9F 000E0		PUSHAB COMMAND BUF	:	
	00000000G		00	07	FB	000E3		CALLS #7, LIB\$SPAWN	:	
			52	50	DO	000EA		MOVL R0, STATUS_2	:	
				7E	7C	000ED		CLRQ -(SP)	:	1140
				F8	AD	9F 000EF		PUSHAB PRIV_VEC	:	
				01	DD	000F2		PUSHL #1	:	
			6B	04	FB	000F4		CALLS #4, SYS\$SETPRV	:	
			08	52	E8	000F7		BLBS STATUS_2, 8\$:	1146
	04		52	1C	E0	000FA		BBS #28, STATUS_2, 8\$:	1147
				52	DD	000FE		PUSHL STATUS_2	:	1148
				13	11	00100		BRB 11\$:	
			0B	04	AE	E8 00102	8\$:	BLBS STATUS_1, 9\$:	1149
	06		07	04	E0	00106		BBS #4, STATUS_1+3, 9\$:	1150
				04	AE	DO 0010B		MOVL STATUS_1, R0	:	1151
				02	11	0010F		BRB 10\$:	
				50	D4	00111	9\$:	CLRL R0	:	1149
				50	DD	00113	10\$:	PUSHL R0	:	
	0000G		CF	01	FB	00115	11\$:	CALLS #1, PHNSINFORM	:	1146
				04	0011A			RET	:	1156

; Routine Size: 283 bytes, Routine Base: \$CODE\$ + 03CA

: 841 1157 1
: 842 1158 0 end eludom

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	232	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1253	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
-LIB\$KEYOS	0	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$STATES	46	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
\$PLITS	360	NOVEC, NOWRT, 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	36	0	581	00:00.8
_\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	22	52	14	00:00.1

COMMAND QUALIFIERS

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

Size: 1253 code + 638 data bytes
Run Time: 00:19.5
Elapsed Time: 01:18.0
Lines/CPU Min: 3568
Lexemes/CPU-Min: 51864
Memory Used: 161 pages
Compilation Complete

PHONE
LIS

NETSLAVE
LIS

LINKSUBS
LIS

PHONEMSGS
LIS

STACKMDS
LIS

TERMINAL
LIS

MISCNDMS
LIS

PUBSUBS
LIS

INPUT
LIS

This page contains a grid of 100 small, illegible text blocks. Each block appears to be a list or index of items, possibly related to the labels 'PHONE LIS', 'NETSLAVE LIS', etc. The text within these blocks is too faint to transcribe accurately.