


```

PPPPPPPP      AAAAAA      TTTTTTTTTT      SSSSSSSS      IIIIII      000000
PPPPPPPP      AAAAAA      TTTTTTTTTT      SSSSSSSS      IIIIII      000000
PP      PP      AA      AA      TT      SS      II      00      00
PP      PP      AA      AA      TT      SS      II      00      00
PP      PP      AA      AA      TT      SS      II      00      00
PP      PP      AA      AA      TT      SS      II      00      00
PPPPPPPP      AA      AA      TT      SSSSSS      II      00      00
PPPPPPPP      AA      AA      TT      SSSSSS      II      00      00
PP      AAAAAAAAAA      TT      SS      II      00      00
PP      AAAAAAAAAA      TT      SS      II      00      00
PP      AA      AA      TT      SS      II      00      00
PP      AA      AA      TT      SS      II      00      00
PP      AA      AA      TT      SSSSSSSS      IIIIII      000000
PP      AA      AA      TT      SSSSSSSS      IIIIII      000000

```

```

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      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

.....

```

1 0001 0 MODULE PATSIO (
2 L 0002 0 %IF %VARIANT EQL 1
3 0003 0 %THEN
4 0004 0 ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE),
5 0005 0 %FI
6 0006 0 IDENT = 'V04-000') =
7 0007 1 BEGIN
8 0008 1
9 0009 1 |*****
10 0010 1 |*
11 0011 1 |* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 |* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
28 0028 1 |*
29 0029 1 |*
30 0030 1 |*****
31 0031 1
32 0032 1 FACILITY: PATCH
33 0033 1
34 0034 1 ++
35 0035 1 FUNCTIONAL DESCRIPTION:
36 0036 1 FAO FORMATTING ROUTINE
37 0037 1
38 0038 1 Version: X01.05
39 0039 1
40 0040 1 History:
41 0041 1 Author:
42 0042 1 Carol Peters, 01 Oct 1976: Version 01
43 0043 1
44 0044 1 Modified by:
45 0045 1 Kathleen Morse, 13 Oct 1977: Version 16
46 0046 1
47 0047 1 Revision history:
48 0048 1 NO DATE PROGRAMMER PURPOSE
49 0049 1 -- ---- -
50 0050 1 00 13-OCT-77 K.D. MORSE ADAPT VERSION 14 TO PATCH.
51 0051 1 01 15-DEC-77 K.D. MORSE ADD JOURNAL OUTPUT
52 0052 1 02 25-APR-78 K.D. MORSE CONVERT TO NATIVE COMPILER.
53 0053 1 03 18-MAY-78 K.D. MORSE NO CHANGES FOR VERS 15.
54 0054 1 04 13-JUN-78 K.D. MORSE ADD FAO COUNTS TO SIGNALS.
55 0055 1 05 29-JUN-78 K.D. MORSE NO CHANGES FOR VERS 16.
56 0056 1
57 0057 1 --

```

```

: 59      0058 1 FORWARD ROUTINE
: 60      0059 1          PAT$FAO_OUT: NOVALUE;
: 61      0060 1
: 62      0061 1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
: 63      0062 1 REQUIRE 'SRC$:SYSLIT.REQ';
: 64      0112 1 REQUIRE 'SRC$:VXSMAC.REQ';
: 65      0177 1 REQUIRE 'SRC$:PATPCT.REQ';
: 66      0217 1 REQUIRE 'SRC$:PATGEN.REQ';
: 67      0439 1
: 68      0440 1 EXTERNAL ROUTINE
: 69      0441 1          PAT$WRITEFILE: NOVALUE,
: 70      0442 1          SY$FAOL: ADDRESSING_MODE (ABSOLUTE);
: 71      0443 1
: 72      0444 1 EXTERNAL
: 73      0445 1          PAT$GL_ERRCODE,
: 74      0446 1          PAT$GL_JNL$RAB: BLOCK [, BYTE],
: 75      0447 1          PAT$GL_OUT$RAB: BLOCK [, BYTE];

```

! ROUTINE TO FORMAT AND OUTPUT A STRING

! WRITES TO A FILE
! ROUTINE TO FORMAT AN ASCII STRING

! ERROR CODE
! RAB FOR JOURNAL FILE
! RAB for SY\$OUTPUT

```

77 0448 1 GLOBAL ROUTINE PAT$FAO_OUT (STRING, ARGUMENTS) : NOVALUE =
78 0449 1
79 0450 1 !++
80 0451 1 FUNCTIONAL DESCRIPTION:
81 0452 1
82 0453 1     SETS UP INPUT AND OUTPUT STRING DESCRIPTORS, AND THEN CALLS
83 0454 1     FAO TO FORMAT THE STRING. THEN SENDS THE FORMATTED STRING TO
84 0455 1     THE TERMINAL
85 0456 1
86 0457 1     IF THE OUTPUT FAILS, A FATAL ERROR IS REPORTED.
87 0458 1
88 0459 1 CALLING SEQUENCE:
89 0460 1
90 0461 1     PAT$FAO_OUT ( )
91 0462 1
92 0463 1 INPUTS:
93 0464 1
94 0465 1     STRING           - THE ADDRESS OF A COUNTED CONTROL STRING TO FAO
95 0466 1     ARGUMENTS        - MAY BE ABSENT. ARGUMENTS TO BE APPLIED TO THE
96 0467 1                   FAO CONTROL STRING.
97 0468 1
98 0469 1 IMPLICIT INPUTS:
99 0470 1
100 0471 1     NONE
101 0472 1
102 0473 1 OUTPUTS:
103 0474 1
104 0475 1     NONE
105 0476 1
106 0477 1 IMPLICIT OUTPUTS:
107 0478 1
108 0479 1     NONE
109 0480 1
110 0481 1 ROUTINE VALUE:
111 0482 1
112 0483 1     NOVALUE
113 0484 1
114 0485 1 SIDE EFFECTS:
115 0486 1
116 0487 1     THE FORMATTED STRING IS OUTPUT ON THE TERMINAL.  ON ERROR, EXITS.
117 0488 1 !--
118 0489 1
119 0490 2 BEGIN
120 0491 2
121 0492 2 MAP
122 0493 2     STRING: REF VECTOR [, BYTE];           ! FAO CONTROL STRING
123 0494 2
124 0495 2 LOCAL
125 0496 2     OUT_BUF: VECTOR [TTY_OUT_WIDTH, BYTE], ! FORMATTED MESSAGE BUFFER
126 0497 2     INP_DESC: VECTOR [2];                 ! FAO CONTROL STRING DESCRIPTOR
127 0498 2     OUT_DESC: VECTOR [2];                 ! FORMATTED MESSAGE DESCRIPTOR
128 0499 2
129 0500 2 !++
130 0501 2 SET UP FAO CONTROL STRING DESCRIPTOR AND FORMATTED
131 0502 2 MESSAGE STRING DESCRIPTOR.
132 0503 2 !--
133 0504 2 INP_DESC [0] = .STRING [0];           ! SET SIZE OF STRING

```

```

: 134 0505 2 INP_DESC [1] = STRING [1];
: 135 0506 2 OUT_DESC [0] = TTY_OUT_WIDTH;
: 136 0507 2 OUT_DESC [1] = OUT_BUF;
: 137 0508
: 138 0509 !++
: 139 0510 ! FORMAT THE MESSAGE.
: 140 0511 !--
: 141 0512 2 SYSS$FAOL (INP_DESC, PAT$GL_OUTRAB [RAB$W_RSZ], OUT_DESC, ARGUMENTS);
: 142 0513
: 143 0514 !++
: 144 0515 ! Output the formatted message. If this fails, then exit as there
: 145 0516 ! is no way to communicate with the patcher.
: 146 0517 !--
: 147 0518 2 PAT$GL_OUTRAB [RAB$L_RBF] = OUT_BUF;
: 148 0519 2 PAT$GL_ERRCODE = $PUT (RAB = PAT$GL_OUTRAB);
: 149 0520 2 IF NOT .PAT$GL_ERRCODE
: 150 0521 2 THEN
: 151 0522 2 SIGNAL (.PAT$GL_ERRCODE);
: 152 0523 2 PAT$WRITEFILE(.PAT$GL_OUTRAB[RAB$W_RSZ], OUT_BUF, PAT$GL_JNLRAB);
: 153 0524 1 END;

```

```

! SET ADDRESS OF STRING
! SET MAX MESSAGE WIDTH
! SET MESSAGE ADDRESS

```

```

.TITLE PATSIO
.IDENT \V04-000\

.EXTRN PAT$WRITEFILE, SYSS$FAOL
.EXTRN PAT$GL_ERRCODE, PAT$GL_JNLRAB
.EXTRN PAT$GL_OUTRAB, SYSS$PUT

```

```

.PSECT _PAT$CODE, NOWRT, 2

```

				000C 00000	.ENTRY PAT\$FAO OUT, Save R2,R3	: 0448
		53	00000000G	EF 9E 00002	MOVAB PAT\$GL_ERRCODE, R3	
		52	00000000G	EF 9E 00009	MOVAB PAT\$GL_OUTRAB+34, R2	
		5E	FF70	CE 9E 00010	MOVAB -144(SP), SP	
		04	AE 04	BC 9A 00015	MOVZBL @STRING, INP_DESC	: 0504
08	AE	04	AC	01 C1 0001A	ADDL3 #1, STRING, INP_DESC+4	: 0505
		7E	84	8F 9A 00020	MOVZBL #132, OUT_DESC	: 0506
		04	AE 10	AE 9E 00024	MOVAB OUT_BUF, OUT_DESC+4	: 0507
			08	AC 9F 00029	PUSHAB ARGUMENTS	: 0512
			04	AE 9F 0002C	PUSHAB OUT_DESC	
				52 DD 0002F	PUSHL R2	
			14	AE 9F 00031	PUSHAB INP_DESC	
		00000000G	9F	04 FB 00034	CALLS #4, @SYSS\$FAOL	
		06	A2 10	AE 9E 0003B	MOVAB OUT_BUF, PAT\$GL_OUTRAB+40	: 0518
			DE	A2 9F 00040	PUSHAB PAT\$GL_OUTRAB	: 0519
		00000000G	00	01 FB 00043	CALLS #1, SYSS\$PUT	
			63	50 D0 0004A	MOVL R0, PAT\$GL_ERRCODE	
			09	63 E8 0004D	BLBS PAT\$GL_ERRCODE, 1\$: 0520
		00000000G	00	63 DD 00050	PUSHL PAT\$GL_ERRCODE	: 0522
				01 FB 00052	CALLS #1, LIB\$SIGNAL	
			00000000G	EF 9F 00059 1\$:	PUSHAB PAT\$GL_JNLRAB	: 0523
			14	AE 9F 0005F	PUSHAB OUT_BUF	
		00000000G	7E	62 3C 00062	MOVZWL PAT\$GL_OUTRAB+34, -(SP)	
			EF	03 FB 00065	CALLS #3, PAT\$WRITEFILE	: 0524
				04 0006C	RET	

PATSIO
V04-000

I 13
16-Sep-1984 00:15:54
14-Sep-1984 12:52:47

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[PATCH.SRC]PATSIO.B32;1 Page 5 (3)

; Routine Size: 109 bytes, Routine Base: _PAT\$CODE + 0000

: 155
: 156 0525 1 END
: 0526 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
_PAT\$CODE	109	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIE,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/VARIANT:1/LIS=LIS\$:PATSIO/OBJ=OBJ\$:PATSIO MSRC\$:PATSIO/UPDATE=(ENH\$:PATSIO)

: Size: 109 code + 0 data bytes
: Run Time: 00:05.0
: Elapsed Time: 00:22.5
: Lines/CPU Min: 6324
: Lexemes/CPU-Min: 16881
: Memory Used: 60 pages
: Compilation Complete

The image displays a grid of 100 small, illegible terminal window screenshots, each showing a different screen from the VAX/VMS V4.0 software. The screens contain various text, data, and graphical elements, but the text is too small to read. Some screens have titles like PATREB LIS, PATSCA LIS, PATST LIS, PATSPA LIS, and PATSSV LIS.