



DDDDDDDDDDDD		UUU	UUU	MMM	MMM	PPPPPPPPPP	
DDDDDDDDDDDD		UUU	UUU	MMM	MMM	PPPPPPPPPP	
DDDDDDDDDDDD		UUU	UUU	MMM	MMM	PPPPPPPPPP	
DDD	DDD	UUU	UUU	MMMMMM	MMMMMM	PPP	PPP
DDD	DDD	UUU	UUU	MMMMMM	MMMMMM	PPP	PPP
DDD	DDD	UUU	UUU	MMMMMM	MMMMMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDDDDDDDDDDD		UUUUUUUUUUUU	UUUUUUUUUUUU	MMM	MMM	PPP	
DDDDDDDDDDDD		UUUUUUUUUUUU	UUUUUUUUUUUU	MMM	MMM	PPP	
DDDDDDDDDDDD		UUUUUUUUUUUU	UUUUUUUUUUUU	MMM	MMM	PPP	

\*\*FILE\*\*ID\*\*DUMPAOLN

```

DDDDDDDD      UU      UU  MM      MM  PPPPPPPP  FFFFFFFF  AAAAAA  000000  LL      NN      NN
DDDDDDDD      UU      UU  MM      MM  PPPPPPPP  FFFFFFFF  AAAAAA  000000  LL      NN      NN
DD      DD      UU      UU  MMMM  MMMM  PP      PP  FF      AA      AA  00      00  LL      NN      NN
DD      DD      UU      UU  MMMM  MMMM  PP      PP  FF      AA      AA  00      00  LL      NN      NN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AA      AA  00      00  LL      NNNN  NN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AA      AA  00      00  LL      NNNN  NN
DD      DD      UU      UU  MM      MM  PPPPPPPP  FFFFFFFF  AA      AA  00      00  LL      NN  NN  NN
DD      DD      UU      UU  MM      MM  PPPPPPPP  FFFFFFFF  AA      AA  00      00  LL      NN  NN  NN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AAAAAAAAAA  00      00  LL      NN  NNNN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AAAAAAAAAA  00      00  LL      NN  NNNN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AA      AA  00      00  LL      NN      NN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AA      AA  00      00  LL      NN      NN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AA      AA  00      00  LL      NN      NN
DD      DD      UU      UU  MM      MM  PP      PP  FF      AA      AA  00      00  LL      NN      NN
DDDDDDDD      UUUUUUUUUU  MM      MM  PP      PP  FF      AA      AA  000000  LLLLLLLLLL  NN      NN
DDDDDDDD      UUUUUUUUUU  MM      MM  PP      PP  FF      AA      AA  000000  LLLLLLLLLL  NN      NN

```

```

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

```

```

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
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```

DUMPSFAO\_LINE  
Table of contents

. format one line

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16-SEP-1984 01:26:20 VAX/VMS Macro V04-00

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DUMPSFAO\_LINE, format one line

```
0000 1 .TITLE DUMPSFAO_LINE, format one line
0000 2 .IDENT 'V04-000'
0000 3 :---
0000 4 :
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :++
0000 29 : FACILITY:
0000 30 : File dump utility.
0000 31 :
0000 32 : ABSTRACT:
0000 33 : This module contains the routine to format one line.
0000 34 :
0000 35 : ENVIRONMENT:
0000 36 : VAX native, user mode.
0000 37 :
0000 38 : AUTHOR: Benn Schreiber, Stephen Zalewski CREATION DATE: 22-Jun-1981
0000 39 :
0000 40 : MODIFIED BY:
0000 41 :
0000 42 : V02-001 MLJ0033 Martin L. Jack, 23-Aug-1981 9:48
0000 43 : Minor cleanup to finish implementation.
0000 44 :
0000 45 :**
0000 46 :
0000 47 :
00000000 48 .PSECT $CODE$,EXE,NOWRT
```

```

0000 50          .SBTTL  DUMPSFAO_LINE, format one line
0000 51          :
0000 52          : Format one line of dump listing
0000 53          :
0000 54          : Inputs:
0000 55          :
0000 56          : 04(ap) = pointer to data to be dumped
0000 57          : 08(ap) = number of entries per line
0000 58          : 12(ap) = size of one entry
0000 59          : 16(ap) = byte-offset value for side of line
0000 60          : 20(ap) = number of entries in buffer
0000 61          : 24(ap) = 0: longword, 1: word, 2: byte
0000 62          : 28(ap) = address of descriptor for FAO control string
0000 63          : 32(ap) = address of descriptor for output buffer
0000 64          :
0000 65          : .entry  dump$fao_line, ^M<R2,R3,R4,R5>
53  08 AC 003C 0002 66          : movq    8(ap),r3          : R3 = entries per line, R4 = size of entry
54  54 53 C4 0006 67          : mull2  r3,r4          : compute number of bytes this line
10 AC DD 0009 68          : pushl  16(ap)         : push index to print on right hand side
04 AC DD 000C 69          : pushl  4(ap)          : push buffer address
54 DD 000F 70          : pushl  r4             : push number of bytes
52  14 AC DD 0011 71          : movl   20(ap),r2      : get number of entries in line
08 AC 52 D1 0015 72          : cmpl  r2,8(ap)       : see if more than one line's worth
04 15 0019 73          : bleq  10$            : if leq no
52  08 AC DD 001B 74          : movl  8(ap),r2       : yes, use max for one line
51  04 AC DD 001F 75 10$:  : movl  4(ap),r1       : copy input data pointer
50  18 AC DD 0023 76          : movl  24(ap),r0      : get/test field width
04 13 13 0027 77          : beql  40$            : if eql then longwords
08 50 E8 0029 78          : blbs  r0,30$        : branch if words
002C 79          :
002C 80          : push bytes onto stack
002C 81          :
7E  81 9A 002C 82 20$:  : movzbl (r1)+,-(sp)   : push one byte
FA 52 F5 002F 83          : sobgtr r2,20$        : do them all
0D 11 0032 84          : brb   50$            : go call fao
0034 85          :
0034 86          : push words onto stack
0034 87          :
7E  81 3C 0034 88 30$:  : movzwl (r1)+,-(sp)   : push one word
FA 52 F5 0037 89          : sobgtr r2,30$        : do them all
05 11 003A 90          : brb   50$            : go call fao
003C 91          :
003C 92          : push longwords onto stack
003C 93          :
FB  81 DD 003C 94 40$:  : pushl  (r1)+         : push one longword
52  F5 003E 95          : sobgtr r2,40$        : do them all
0041 96          :
0041 97          : call $FAO
0041 98          :
0041 99 50$:  : pushab (sp)          : push address of arg list
20 AC DD 0043 100         : pushl  32(ap)        : push output buffer descr. addr
06 AC DD 0046 101         : pushl  (sp)          : also for output width
1C AC DD 0048 102         : pushl  28(ap)        : push fao control string addr
00000000'GF 04 FB 004B 103 : calls  #4,g^sys$faol : call sys$faol to format string
0041 04 0052 104         : ret
0053 105         :
0053 106         : .end

```

DUMPSFAO\_LINE  
Symbol table

, format one line

N 13

16-SEP-1984 01:26:20 VAX/VMS Macro V04-00  
5-SEP-1984 00:22:55 [DUMP.SRC]DUMPFAOLN.MAR;1

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(2)

DUMPSFAO\_LINE 00000000 RG 01  
SYSSFAOL \*\*\*\*\* X 01

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$CODE\$	00000053 ( 83.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:01.09
Command processing	133	00:00:00.36	00:00:04.77
Pass 1	72	00:00:00.28	00:00:02.47
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	36	00:00:00.17	00:00:01.07
Symbol table output	2	00:00:00.00	00:00:00.00
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	275	00:00:00.91	00:00:09.42

The working set limit was 900 pages.  
1493 bytes (3 pages) of virtual memory were used to buffer the intermediate code.  
There were 10 pages of symbol table space allocated to hold 2 non-local and 5 local symbols.  
106 source lines were read in Pass 1, producing 14 object records in Pass 2.  
0 pages of virtual memory were used to define 0 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DUMPFAOLN/OBJ=OBJ\$:DUMPFAOLN MSRC\$:DUMPFAOLN/UPDATE=(ENH\$:DUMPFAOLN)



