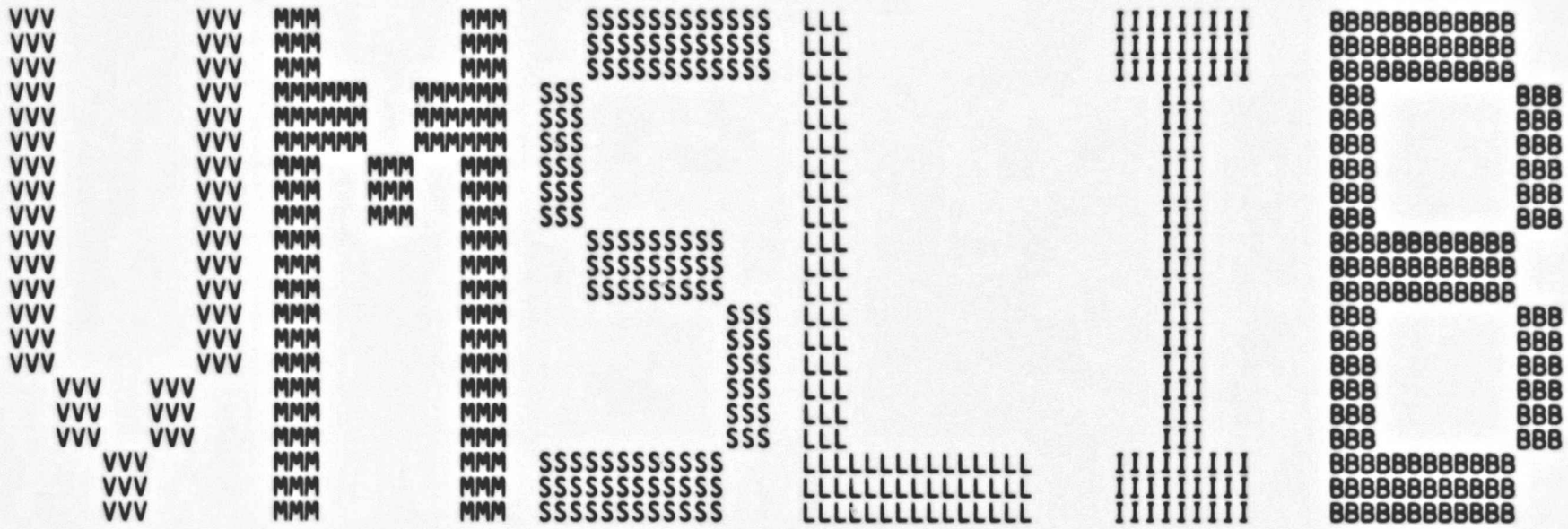
VVV VVV MMM MMM SSSSSSSSSSS LLL IIIIIIIII BBBBBBBBBBB
VVV VVV MMM MMM SSSSSSSSSSS LLL IIIIIIIII BBBBBBBBBBB
VVV VVV MMM MMM SSSSSSSSSSS LLL IIIIIIIII BBBBBBBBBBB
VVV VVV MMMMMM MMMMMM SSS LLL III BBB BBB
VVV VVV MMMMMM MMMMMM SSS LLL III BBB BBB
VVV VVV MMMMMM MMMMMM SSS LLL III BBB BBB
VVV VVV MMM MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM SSSSSSSSS LLL III BBBBBBBBBBB
VVV VVV MMM MMM SSSSSSSSS LLL III BBBBBBBBBBB
VVV VVV MMM MMM SSSSSSSSS LLL III BBBBBBBBBBB
VVV VVV MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM SSS LLL III BBB BBB
VVV VVV MMM MMM SSS LLL III BBB BBB
VVV MMM MMM SSSSSSSSSSS LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBB
VVV MMM MMM SSSSSSSSSSS LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBB
VVV MMM MMM SSSSSSSSSSS LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBB
VVV MMM MMM SSSSSSSSSSS LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBB

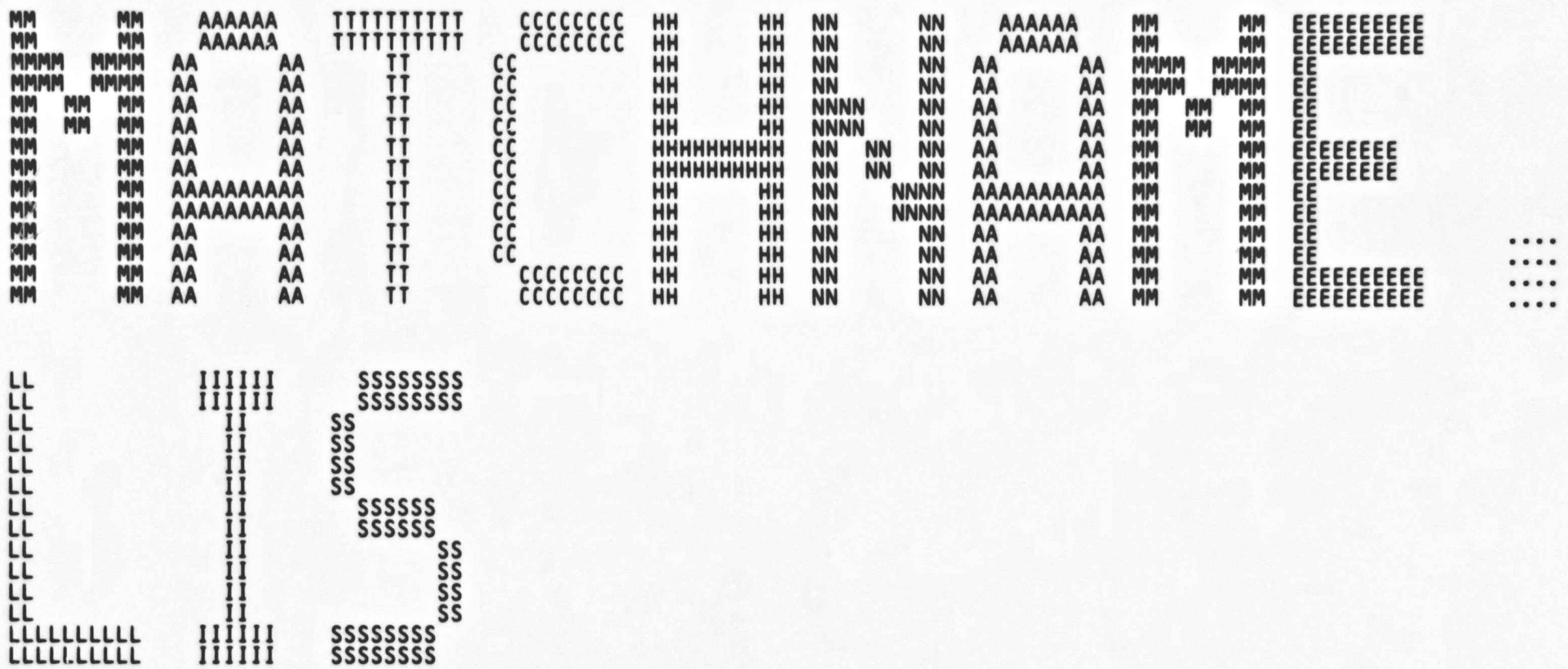
MM MM AAAAAA TTTTTTTTTT CCCCCCCC HH HH NN NN AAAAAA MM MM EEEEEEEEEE
MM MM AAAAAA TTTTTTTTTT CCCCCCCC HH HH NN NN AAAAAA MM MM EEEEEEEEEE
MMMM MMMM AA AA TT CC HH HH NN NN AA AA MMMM MMMM EE
MMMM MMMM AA AA TT CC HH HH NN NN AA AA MMMM MMMM EE
MM MM MM AA AA TT CC HH HH NNNN NN AA AA MM MM MM EE
MM MM MM AA AA TT CC HH HH NNNN NN AA AA MM MM MM EE
MM MM AA AA TT CC HHHHHHHHHH NN NN NN AA AA MM MM EEEEEEEE
MM MM AA AA TT CC HHHHHHHHHH NN NN NN AA AA MM MM EEEEEEEE
MM MM AAAAAAAAAA TT CC HH HH NN NNNN AAAAAAAAAA MM MM EE
MM MM AAAAAAAAAA TT CC HH HH NN NNNN AAAAAAAAAA MM MM EE
MM MM AA AA TT CC HH HH NN NN AA AA MM MM EE
MM MM AA AA TT CC HH HH NN NN AA AA MM MM EE
MM MM AA AA TT CCCCCCCC HH HH NN NN AA AA MM MM EEEEEEEEEE
MM MM AA AA TT CCCCCCCC HH HH NN NN AA AA MM MM EEEEEEEEEE
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

Table of contents

```
0000     1          .TITLE  MATCHNAME       Match General Wild Card Specification
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;
0000     5  ;*****************************************************************************
0000     6  ;*                                                                           *
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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  ;
0000    30  ; FACILITY:  Files-11 Structure Level 2
0000    31  ;
0000    32  ; ABSTRACT:
0000    33  ;
0000    34  ;       This routine performs the general embedded wild card matching
0000    35  ;       algorithm.
0000    36  ;
0000    37  ; ENVIRONMENT:
0000    38  ;
0000    39  ;       VAX/VMS Operating System
0000    40  ;
0000    41  ;--
0000    42  ;
0000    43  ;
0000    44  ; AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  10-Aug-1979  11:36
0000    45  ;
0000    46  ; MODIFIED BY:
0000    47  ;
0000    48  ;       V03-001 ACG0378         Andrew C. Goldstein,    6-Dec-1983  16:10
0000    49  ;               Incorporate into system build library
0000    50  ;
0000    51  ;       V02-001 MLJ0031         Martin L. Jack, 4-Aug-1981  6:32
0000    52  ;               Reorganize for simplicity and speed.
0000    53  ;
0000    54  ;**
```

```
                     0000     56          .SBTTL  FMG$MATCH_NAME, general wild card matching
                     0000     57
                     0000     58 ;++
                     0000     59 ;
                     0000     60 ; Functional Description:
                     0000     61 ;       This routine performs the general embedded wild card matching
                     0000     62 ;       algorithm.
                     0000     63 ;
                     0000     64 ; Calling Sequence:
                     0000     65 ;       JSB
                     0000     66 ;
                     0000     67 ; Input Parameters:
                     0000     68 ;       R2 = Length of candidate string.
                     0000     69 ;       R3 = Address of candidate string.
                     0000     70 ;       R4 = Length of pattern string.
                     0000     71 ;       R5 = Address of pattern string.
                     0000     72 ;
                     0000     73 ; Implicit Inputs:
                     0000     74 ;       none
                     0000     75 ;
                     0000     76 ; Output Parameters:
                     0000     77 ;       none
                     0000     78 ;
                     0000     79 ; Implicit Outputs:
                     0000     80 ;       none
                     0000     81 ;
                     0000     82 ; Routines Called:
                     0000     83 ;       none
                     0000     84 ;
                     0000     85 ; Routine Value:
                     0000     86 ;       True if the strings match.
                     0000     87 ;
                     0000     88 ; Signals:
                     0000     89 ;       none
                     0000     90 ;
                     0000     91 ; Side Effects:
                     0000     92 ;       R1-R5 destroyed.
                     0000     93 ;
                     0000     94 ;--
                     0000     95
                00000000     96          .PSECT  _LIB$CODE,NOWRT,EXE,PIC,SHR
                     0000     97
                     0000     98 FMG$MATCH_NAME::
03C0 8F    BB        0000     99          PUSHR   #^M<R6,R7,R8,R9>        ; Save registers
     50    D4        0004    100          CLRL    R0                      ; Assume failure
     56    D4        0006    101          CLRL    R6                      ; Clear saved candidate count
                     0008    102 ;
                     0008    103 ; Main scanning loop.
                     0008    104 ;
     54    D7        0008    105 10$:     DECL    R4                      ; Pattern exhausted?
     24    19        000A    106          BLSS    30$                     ; Branch if yes
51   85    9A        000C    107          MOVZBL  (R5)+,R1                ; Get next character in pattern
2A   51    91        000F    108          CMPB    R1,#^A'*'               ; Pattern specifies wild string?
     28    13        0012    109          BEQL    60$                     ; Branch if yes
     52    D7        0014    110          DECL    R2                      ; Candidate exhausted?
     1F    19        0016    111          BLSS    50$                     ; Branch if yes
83   51    91        0018    112          CMPB    R1,(R3)+                ; Compare pattern to candidate
```

```
                EB   13  001B  113          BEQL    10$                     ; Branch if pattern equals candidate
            25  51   91  001D  114          CMPB    R1,#^A'%'               ; Pattern specifies wild character?
                E6   13  0020  115          BEQL    10$                     ; Branch if yes
                         0022  116 ;
                         0022  117 ; We have detected a mismatch, or we are out of pattern while there is
                         0022  118 ; candidate left.  Back up to the last '*', advance a candidate character,
                         0022  119 ; and try again.
                         0022  120 ;
                56   D7  0022  121 20$:    DECL    R6                      ; Count a saved candidate character
                11   19  0024  122          BLSS    50$                     ; Branch if no saved candidate
                57   D6  0026  123          INCL    R7                      ; Set to try next character
            52  56   7D  0028  124          MOVQ    R6,R2                   ; Restore descriptors to backup point
            54  58   7D  002B  125          MOVQ    R8,R4                   ;
                D8   11  002E  126          BRB     10$                     ; Continue testing
                         0030  127 ;
                         0030  128 ; Here when pattern is exhausted.
                         0030  129 ;
                52   D5  0030  130 30$:    TSTL    R2                      ; Candidate exhausted?
                EE   12  0032  131          BNEQ    20$                     ; Branch if no
                         0034  132 ;
                         0034  133 ; Here to return.
                         0034  134 ;
                50   01  D0  0034  135 40$:    MOVL    #1,R0                   ; Set success return
            03C0 8F  BA  0037  136 50$:    POPR    #^M<R6,R7,R8,R9>        ; Restore registers
                     05  003B  137          RSB                             ; Return
                         003C  138 ;
                         003C  139 ; We have detected a '*' in the pattern.  Save the pointers for backtracking.
                         003C  140 ;
                54   D5  003C  141 60$:    TSTL    R4                      ; Pattern null after '*'?
                F4   13  003E  142          BEQL    40$                     ; Branch if yes
            56  52   7D  0040  143          MOVQ    R2,R6                   ; Save descriptors of both strings
            58  54   7D  0043  144          MOVQ    R4,R8                   ;
                C0   11  0046  145          BRB     10$                     ; Continue testing
                         0048  146
                         0048  147          .END
```

FMG$MATCH_NAME 00000000 RG 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
_LIB$CODE	00000048 (72.)	01 (1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:00.61
Command processing	130	00:00:00.46	00:00:02.38
Pass 1	67	00:00:00.43	00:00:01.29
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	40	00:00:00.31	00:00:00.63
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	279	00:00:01.32	00:00:04.95

The working set limit was 900 pages.
1789 bytes (4 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 1 non-local and 6 local symbols.
147 source lines were read in Pass 1, producing 8 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/DISA=TRACE/LIS=LIS$:MATCHNAME/OBJ=OBJ$:MATCHNAME MSRC$:MATCHNAME/UPDATE=(ENH$:MATCHNAME)

READOBJ
LIS

SCREEN
LIS

LIBEXECLI
LIS

MOUNTMSG
LIS

PASMSG
LIS

LIBFILPRO
LIS

LIBNETCON
LIS

LIBEXTCON
LIS

LIBMERGE
LIS

LNKMSG
LIS

REPORTIOE
LIS

LIBUNLFIL
LIS

LIBFIDNAM
LIS

MATCHNAME
LIS

OPCMSG
LIS

PLIMSG
LIS