```
MMM         MMM  TTTTTTTTTTTTTTT     AAAAAAAAA        AAAAAAAAA        CCCCCCCCCCCC  PPPPPPPPPPPP
MMM         MMM  TTTTTTTTTTTTTTT     AAAAAAAAA        AAAAAAAAA        CCCCCCCCCCCC  PPPPPPPPPPPP
MMM         MMM  TTTTTTTTTTTTTTT     AAAAAAAAA        AAAAAAAAA        CCCCCCCCCCCC  PPPPPPPPPPPP
MMMMMM   MMMMMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP         PPP
MMMMMM   MMMMMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP         PPP
MMMMMM   MMMMMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP         PPP
MMM   MMM   MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP         PPP
MMM   MMM   MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP         PPP
MMM   MMM   MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP         PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPPPPPPPPPPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPPPPPPPPPPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPPPPPPPPPPP
MMM         MMM        TTT        AAAAAAAAAAAAAAA  AAAAAAAAAAAAAAA  CCC              PPP
MMM         MMM        TTT        AAAAAAAAAAAAAAA  AAAAAAAAAAAAAAA  CCC              PPP
MMM         MMM        TTT        AAAAAAAAAAAAAAA  AAAAAAAAAAAAAAA  CCC              PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA  CCC              PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA     CCCCCCCCCCCC  PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA     CCCCCCCCCCCC  PPP
MMM         MMM        TTT        AAA         AAA  AAA         AAA     CCCCCCCCCCCC  PPP
```

```
**FILE**ID**MATCHNAME                                    G  8
```

```
MM      MM    AAAAAA    TTTTTTTTTT    CCCCCCCC  HH      HH  NN      NN    AAAAAA    MM      MM  EEEEEEEEEE
MM      MM    AAAAAA    TTTTTTTTTT    CCCCCCCC  HH      HH  NN      NN    AAAA4A    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
```

```
0000            .TITLE  MATCHNAME       Match General Wild Card Filename Specification
0000            .IDENT  'V04-000'
0000
0000      ;
0000      ;****************************************************************************
0000      ;*                                                                          *
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0000      ;*                                                                          *
0000      ;*                                                                          *
0000      ;****************************************************************************
0000
0000      ;++
0000      ;
0000      ; FACILITY:  Mtaacp
0000      ;
0000      ; ABSTRACT:
0000      ;
0000      ;       This routine performs the general embedded wild card matching
0000      ;       algorithm.
0000      ;
0000      ; ENVIRONMENT:
0000      ;
0000      ;       VAX/VMS Operating System
0000      ;
0000      ;--
0000      ;
0000      ;
0000      ; AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  10-Aug-1979  11:36
0000      ;
0000      ; MODIFIED BY:
0000      ;
0000      ;       V02-002 DMW0005         David Michael Walp      13-JAN-1981
0000      ;               This was taken from the Files-11 Structure Level 2 ACP. No code
0000      ;               was changed at this time, only comments.
0000      ;
0000      ;**
```

```
                     0000   ;++
                     0000   ;
                     0000   ; Functional Description:
                     0000   ;
                     0000   ;       This routine performs the general embedded wild card matching
                     0000   ;       algorithm.
                     0000   ;
                     0000   ; Calling Sequence:
                     0000   ;       JSB
                     0000   ;
                     0000   ; Input Parameters:
                     0000   ;       R2 = length of candidate string
                     0000   ;       R3 = address of candidate string
                     0000   ;       R4 = length of pattern string
                     0000   ;       R5 = address of pattern string
                     0000   ;
                     0000   ; Implicit Inputs:
                     0000   ;       none
                     0000   ;
                     0000   ; Output Parameters:
                     0000   ;       none
                     0000   ;
                     0000   ; Implicit Outputs:
                     0000   ;       none
                     0000   ;
                     0000   ; Routines Called:
                     0000   ;       none
                     0000   ;
                     0000   ; Routine Value:
                     0000   ;       1 if the strings match
                     0000   ;       0 if not
                     0000   ;
                     0000   ; Side Effects:
                     0000   ;       R1-R5 destroyed
                     0000   ;
                     0000   ;--
                     0000
                 00000000           .PSECT  $CODE$,NOWRT,EXE,WORD
                     0000
                     0000   FMG$MATCH_NAME::
03C0 8F        BB    0000           PUSHR   #^M<R6,R7,R8,R9>        ; Save registers
50   01        D0    0004           MOVL    #1,R0                   ; Assume success
     56        D4    0007           CLRL    R6                      ; Clear saved string count
     1C        11    0009           BRB     60$                     ; Dive into the loop
                     000B
51   85        9A    000B   10$:    MOVZBL  (R5)+,R1                ; Get next character in pattern string
2A   51        91    000E           CMPB    R1,#^A'*'               ; Check for wild string
     29        13    0011           BEQL    80$                     ; Branch if so
  07 52        F4    0013   20$:    SOBGEQ  R2,50$                  ; Count an input char, br if not done
     50        D4    0016   30$:    CLRL    R0                      ; Out of input chars - match fails
03C0 8F        BA    0018   40$:    POPR    #^M<R6,R7,R8,R9>        ; Restore registers
     05              001C           RSB                             ;
                     001D
83   51        91    001D   50$:    CMPB    R1,(R3)+                ; Check target against input
     05        13    0020           BEQL    60$                     ; Branch if match
25   51        91    0022           CMPB    R1,#^A'%'               ; Check if single wildcard match
     07        12    0025           BNEQ    70$                     ; Branch if no match
     E1 54   F4  0027    111 60$:     SOBGEQ  R4,10$                   ; Pattern string exhausted?
        52   D5  002A    112          TSTL    R2                       ; Input string exhausted?
        EA   13  002C    113          BEQL    40$                      ; Branch if yes - success
                 002E    114 ;
                 002E    115 ; We have detected a mismatch, or we are out of pattern string while there
                 002E    116 ; is input left. Back up to the last '*', advance a character of the input,
                 002E    117 ; and try again.
                 002E    118 ;
        56   D7  002E    119 70$:     DECL    R6                       ; Count a character from saved input
        E4   19  0030    120          BLSS    30$                      ; Branch if no saved input
        57   D6  0032    121          INCL    R7                       ; Set to try next input character
     52 56   7D  0034    122          MOVQ    R6,R2                    ; Restore pointers to backup point
     54 58   7D  0037    123          MOVQ    R8,R4                    ; to retry matching with next char
        EB   11  003A    124          BRB     60$
                 003C    125 ;
                 003C    126 ; We have encountered a * in the pattern string. Save the string pointers
                 003C    127 ; for backup and retry.
                 003C    128 ;
        54   D5  003C    129 80$:     TSTL    R4                       ; Pattern string null after "*"?
        D8   13  003E    130          BEQL    40$                      ; "*" at end of pattern matches all.
     56 52   7D  0040    131          MOVQ    R2,R6                    ; Save current string pointers
     58 54   7D  0043    132          MOVQ    R4,R8                    ; of both strings for backup
        DF   11  0046    133          BRB     60$                      ; and continue testing
                 0048    134
                 0048    135
                 0048    136
                 0048    137          .END
```

```
                                                               K  8
MATCHNAME                         Match General Wild Card Filename Specifi 16-SEP-1984 02:06:05  VAX/VMS Macro V04-00        Page   4
Symbol table                                                                5-SEP-1984 02:12:14  [MTAACP.SRC]MATCHNAME.MAR;1        (2)

AQB_TYPE        = 00000005
FCB_TYPE        = 00000000
FMG$MATCH_NAME    00000000 RG    01
MVL_TYPE        = 00000004
RVT_TYPE        = 00000003
VCB_TYPE        = 00000002
WCB_TYPE        = 00000001

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

PSECT name                        Allocation          PSECT No.  Attributes
----------                        ----------          ---------  ----------
.  ABS  .                         00000000  (     0.)  00 (  0.)  NOPIC    USR    CON    ABS    LCL NOSHR NOEXE NORD   NOWRT NOVEC BYTE
$CODE$                            00000048  (    72.)  01 (  1.)  NOPIC    USR    CON    REL    LCL NOSHR   EXE   RD   NOWRT NOVEC WORD

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

Phase                       Page faults    CPU Time       Elapsed Time
-----                       -----------    --------       ------------
Initialization                       41    00:00:00.05    00:00:01.60
Command processing                  139    00:00:00.66    00:00:04.65
Pass 1                               89    00:00:00.75    00:00:03.06
Symbol table sort                     0    00:00:00.00    00:00:00.13
Pass 2                               40    00:00:00.52    00:00:02.51
Symbol table output                   2    00:00:00.02    00:00:00.02
Psect synopsis output                 1    00:00:00.01    00:00:00.01
Cross-reference output                0    00:00:00.00    00:00:00.00
Assembler run totals                315    00:00:02.02    00:00:11.98

The working set limit was 900 pages.
3025 bytes (6 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 7 non-local and 8 local symbols.
320 source lines were read in Pass 1, producing 11 object records in Pass 2.
7 pages of virtual memory were used to define 6 macros.

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

Macro library name                             Macros defined
------------------                             --------------
_$255$DUA28:[SYS.OBJ]LIB.MLB;1                              0
_$255$DUA28:[SYSLIB]STARLET.MLB;2                           0
TOTALS (all libraries)                                      0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:MATCHNAME/OBJ=OBJ$:MATCHNAME MSRC$:MTADEF1/UPDATE=(ENH$:MTADEF1)+MSRC$:MATCHNAME/UPDATE=(ENH$:MATCHNAME)+EXECML$/LIB
```

0255 AH-BT13A-SE
VAX/VMS V4.0

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LOCKDB
LIS

LOGIO
LIS

MATCHNAME
LIS

IODONE
LIS

LOCKDN
LIS

NXTVOL
LIS

MAIL
LIS

MOUVOL
LIS

OPRCOM
LIS

INIMTA
LIS

MODIFY
LIS

PARSE
LIS