CDD

```
CCCCCCCC  DDDDDDD    DDDDDDD    TTTTTTTTTT  YY      YY  PPPPPPPP   DDDDDDD    EEEEEEEEEE  FFFFFFFFFF
CCCCCCCC  DDDDDDD    DDDDDDD    TTTTTTTTTT  YY      YY  PPPPPPPP   DDDDDDD    EEEEEEEEEE  FFFFFFFFFF
CC        DD    DD   DD    DD       TT      YY      YY  PP    PP   DD    DD   EE          FF
CC        DD    DD   DD    DD       TT      YY      YY  PP    PP   DD    DD   EE          FF
CC        DD    DD   DD    DD       TT        YY  YY    PP    PP   DD    DD   EE          FF
CC        DD    DD   DD    DD       TT        YY  YY    PP    PP   DD    DD   EE          FF
CC        DD    DD   DD    DD       TT          YY      PPPPPPPP   DD    DD   EEEEEEEE    FFFFFFFF
CC        DD    DD   DD    DD       TT          YY      PPPPPPPP   DD    DD   EEEEEEEE    FFFFFFFF
CC        DD    DD   DD    DD       TT          YY      PP         DD    DD   EE          FF
CC        DD    DD   DD    DD       TT          YY      PP         DD    DD   EE          FF
CC        DD    DD   DD    DD       TT          YY      PP         DD    DD   EE          FF
CC        DD    DD   DD    DD       TT          YY      PP         DD    DD   EE          FF     ....
CCCCCCCC  DDDDDDD    DDDDDDD        TT          YY      PP         DDDDDDD    EEEEEEEEEE  FF     ....
CCCCCCCC  DDDDDDD    DDDDDDD        TT          YY      PP         DDDDDDD    EEEEEEEEEE  FF     ....


LL           IIIIII      SSSSSSSS
LL           IIIIII      SSSSSSSS
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
```

```
 1   0001   0  !****************************************************************
 2   0002   0  !*                                                              *
 3   0003   0  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                     *
 4   0004   0  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.      *
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20   0020   0  !*                                                              *
21   0021   0  !*                                                              *
22   0022   0  !****************************************************************
23   0023   0  !
24   0024   0  !++
25   0025   0  !
26   0026   0  !    TITLE:  CDD$TYPE              CDD Bit Value Definitions
27   0027   0  !
28   0028   0  !    VERSION:  'V04-000'
29   0029   0  !
30   0030   0  !    FACILITY:  Common Data Dictionary
31   0031   0  !
32   0032   0  !    ABSTRACT:
33   0033   0  !
34   0034   0  !        This module defines the interesting bit values for use in
35   0035   0  !        the user interface.
36   0036   0  !
37   0037   0  !    ENVIRONMENT:
38   0038   0  !
39   0039   0  !        All routines run in any access mode.
40   0040   0  !
41   0041   0  !        These routines are NOT AST reentrant.
42   0042   0  !
43   0043   0  !    AUTHOR:  Jeff East,  14-Aug-80
44   0044   0  !
45   0045   0  !    MODIFIED BY:
46   0046   0  !
47   0047   0  !        <no modifications yet>
48   0048   0  !
49   0049   0  !--
50   0050   0          %TITLE  'CDD Bit Value Definitions'
```

```
  52   0051  0 MODULE CDD$TYPE (IDENT='V03-000',
  53   0052  0                 ADDRESSING_MODE(EXTERNAL=GENERAL)) =
  54   0053  1 BEGIN
  55   0054  1     PSECT
  56   0055  1         CODE    = CDD CODE (READ, NOWRITE, EXECUTE, SHARE, PIC,
  57   0056  1                   CONCATENATE, ADDRESSING_MODE (WORD_RELATIVE)),
  58   0057  1         PLIT    = CDD CODE (READ, NOWRITE, EXECUTE, SHARE, PIC,
  59   0058  1                   CONCATENATE, ADDRESSING_MODE (WORD_RELATIVE)),
  60   0059  1         OWN     = CDD DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC,
  61   0060  1                   CONCATENATE, ADDRESSING_MODE (LONG_RELATIVE)),
  62   0061  1         GLOBAL  = CDD DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC,
  63   0062  1                   CONCATENATE, ADDRESSING_MODE (LONG_RELATIVE));
  64   0063  1
  65   0064  1     LIBRARY 'SYS$LIBRARY:STARLET';
  66   0065  1     LIBRARY 'CDDLIB';
```

```
  68      0066  1      %SBTTL        'Macro Definitions'
  69      0067  1 !++
  70      0068  1 !
  71      0069  1 !       MACRO DEFINITIONS
  72      0070  1 !
  73      0071  1 !--
  74      0072  1
  75      0073  1 !+
  76      0074  1 !       $GLOBAL (name)
  77      0075  1 !
  78      0076  1 !       This macro takes a local definition and makes it a global
  79      0077  1 !       definition.
  80      0078  1 !-
  81      0079  1
  82      0080  1 COMPILETIME
  83      0081  1     SEQUENCE = 1;
  84      0082  1
  85      0083  1 MACRO
  86    M 0084  1     $GLOBAL(name) =
  87    M 0085  1           BIND
  88    M 0086  1               %NAME ('X', %NUMBER(SEQUENCE)) = name;
  89    M 0087  1
  90    M 0088  1           UNDECLARE
  91    M 0089  1               name;
  92    M 0090  1
  93    M 0091  1           GLOBAL LITERAL
  94    M 0092  1               name = %NAME ('X', %NUMBER(SEQUENCE));
  95    M 0093  1
  96    M 0094  1           %ASSIGN (SEQUENCE, SEQUENCE+1);
  97      0095  1     %;
```

```
  99      0096  1      %SBTTL       'Security Masks'
 100      0097  1  !++
 101      0098  1  !        SECURITY MASKS
 102      0099  1  !--
 103      0100  1
 104      0101  1  !+
 105      0102  1  !     CDD security bits
 106      0103  1  !-
 107      0104  1
 108      0105  1      $GLOBAL (CDD$K_PROT_C)        ! CONTROL access
 109      0106  1      $GLOBAL (CDD$K_PROT_D)        ! LOCAL DELETE access
 110      0107  1      $GLOBAL (CDD$K_PROT_G)        ! GLOBAL DELETE access
 111      0108  1      $GLOBAL (CDD$K_PROT_H)        ! HISTORY list entry creation access
 112      0109  1      $GLOBAL (CDD$K_PROT_P)        ! PASS THRU access
 113      0110  1      $GLOBAL (CDD$K_PROT_S)        ! SEE (read) access
 114      0111  1      $GLOBAL (CDD$K_PROT_U)        ! UPDATE terminal node access
 115      0112  1      $GLOBAL (CDD$K_PROT_X)        ! EXTEND directory node access
 116      0113  1      $GLOBAL (CDD$K_PROT_F)        ! FORWARDing directory creation
 117      0114  1
 118      0115  1  !+
 119      0116  1  !     Macro-security values
 120      0117  1  !-
 121      0118  1
 122      0119  1      $GLOBAL (CDD$K_PROT_ANY)
 123      0120  1      $GLOBAL (CDD$K_PROT_DELETE)
 124      0121  1      $GLOBAL (CDD$K_PROT_EXTEND)
 125      0122  1      $GLOBAL (CDD$K_PROT_UPDATE)
 126      0123  1
 127      0124  1  !+
 128      0125  1  !     Other processor security bits
 129      0126  1  !-
 130      0127  1
 131      0128  1  !+
 132      0129  1  !     VAX-11 Datatrieve
 133      0130  1  !-
 134      0131  1
 135      0132  1      $GLOBAL (CDD$K_DTR_PROT_E)  ! EXTEND file
 136      0133  1      $GLOBAL (CDD$K_DTR_PROT_R)  ! READ file
 137      0134  1      $GLOBAL (CDD$K_DTR_PROT_M)  ! MODIFY file
 138      0135  1      $GLOBAL (CDD$K_DTR_PROT_W)  ! WRITE file
```

```
  140     0136   1       %SBTTL      'User Literal Definitions'
  141     0137   1  !+
  142     0138   1  !
  143     0139   1  !        USER LITERAL DEFINITIONS
  144     0140   1  !
  145     0141   1  !
  146     0142   1  !    These symbols are needed by users of the program interface.
  147     0143   1  !-
  148     0144   1
  149     0145   1
  150     0146   1  !+
  151     0147   1  !    System Defined Attribute Names
  152     0148   1  !-
  153     0149   1
  154     0150   1       $GLOBAL (CDD$K_SYSNAM_FLAGS)           ! Global/System-defined/Protocol=0
  155     0151   1
  156     0152   1       $GLOBAL (CDD$K_FIRST_SYSNAM)           ! Lowest system defined attribute name value
  157     0153   1       $GLOBAL (CDD$K_FILE)                   ! Node's file name
  158     0154   1       $GLOBAL (CDD$K_HISTORY)                ! History list head
  159     0155   1       $GLOBAL (CDD$K_NAME)                   ! Node's name
  160     0156   1       $GLOBAL (CDD$K_PROTOCOL)               ! Node's protocol name
  161     0157   1       $GLOBAL (CDD$K_TYPE)                   ! Type of object pointed to by location code
  162     0158   1       $GLOBAL (CDD$K_PATHNAME)               ! Node's complete pathname
  163     0159   1       $GLOBAL (CDD$K_SHORT_PATHNAME)         ! Node's short pathname to default directory
  164     0160   1       $GLOBAL (CDD$K_ORDER)                  ! Directory's order
  165     0161   1       $GLOBAL (CDD$K_LAST_SYSNAM)            ! Highest system defined attribute name value
  166     0162   1
  167     0163   1
  168     0164   1  !+
  169     0165   1  !        Attribute and Entity Types
  170     0166   1  !-
  171     0167   1
  172     0168   1       $GLOBAL (CDD$K_ENTITY)
  173     0169   1       $GLOBAL (CDD$K_ENTITY_LIST)
  174     0170   1       $GLOBAL (CDD$K_NULL)
  175     0171   1       $GLOBAL (CDD$K_NUMERIC)
  176     0172   1       $GLOBAL (CDD$K_STRING)
  177     0173   1       $GLOBAL (CDD$K_STRING_LIST)
  178     0174   1       $GLOBAL (CDD$K_DIRECTORY)
  179     0175   1       $GLOBAL (CDD$K_TERMINAL)
  180     0176   1
  181     0177   1
  182     0178   1  !+
  183     0179   1  !    User's entity purge options
  184     0180   1  !-
  185     0181   1
  186     0182   1       $GLOBAL (CDD$K_ALL)
  187     0183   1       $GLOBAL (CDD$K_ABORT)
  188     0184   1       $GLOBAL (CDD$K_CHECKPOINT)
  189     0185   1
  190     0186   1
  191     0187   1  !+
  192     0188   1  !    User's node creation options
  193     0189   1  !-
  194     0190   1
  195     0191   1       $GLOBAL (CDD$K_NOHISTORY)              ! Doesn't want history list cluster
  196     0192   1       $GLOBAL (CDD$K_NOACL)                  ! Prevent default ACL entry
```

```
:  197    0193  1          $GLOBAL (CDD$K_FIRST)              ! Insert as first node
:  198    0194  1          $GLOBAL (CDD$K_LAST)               ! Insert as last node
:  199    0195  1
:  200    0196  1
:  201    0197  1  !+
:  202    0198  1  !        User's node deletion options
:  203    0199  1  !-
:  204    0200  1
:  205    0201  1          $GLOBAL (CDD$K_CHECK)              ! Fail if directory has children
:  206    0202  1          $GLOBAL (CDD$K_SUBDICTIONARY)      ! Delete contents of subdictionaries
:  207    0203  1
:  208    0204  1
:  209    0205  1  !+
:  210    0206  1  !        Values of the CDD$K_ORDER attribute
:  211    0207  1  !-
:  212    0208  1
:  213    0209  1          $GLOBAL (CDD$K_SORTED)             ! Directory is sorted
:  214    0210  1          $GLOBAL (CDD$K_NONSORTED)          ! Directory is not sorted
:  215    0211  1
:  216    0212  1
:  217    0213  1  END
:  218    0214  0  ELUDOM
```

```
                    .TITLE  CDD$TYPE CDD Bit Value Definitions
                    .IDENT  \V03-000\

        X1=                      1
        CDD$K_PROT_C==           1
        X2=                      2
        CDD$K_PROT_D==           2
        X3=                      4
        CDD$K_PROT_G==           4
        X4=                      8
        CDD$K_PROT_H==           8
        X5=                      16
        CDD$K_PROT_P==           16
        X6=                      32
        CDD$K_PROT_S==           32
        X7=                      64
        CDD$K_PROT_U==           64
        X8=                      128
        CDD$K_PROT_X==           128
        X9=                      256
        CDD$K_PROT_F==           256
        X10=                     511
        CDD$K_PROT_ANY==         511
        X11=                     6
        CDD$K_PROT_DELETE==      6
        X12=                     384
        CDD$K_PROT_EXTEND==      384
        X13=                     463
        CDD$K_PROT_UPDATE==      463
        X14=                     65536
        CDD$K_DTR_PROT_E==       65536
        X15=                     131072
        CDD$K_DTR_PROT_R==       131072
```

```
                        X16=                    262144
                        CDD$K_DTR_PROT_M==       262144
                        X17=                     524288
                        CDD$K_DTR_PROT_W==       524288
                        X18=                     402653184
                        CDD$K_SYSNAM_FLAGS==     402653184
                        X19=                     402653185
                        CDD$K_FIRST_SYSNAM==     402653185
                        X20=                     402653185
                        CDD$K_FILE==             402653185
                        X21=                     402653186
                        CDD$K_HISTORY==          402653186
                        X22=                     402653187
                        CDD$K_NAME==             402653187
                        X23=                     402653189
                        CDD$K_PROTOCOL==         402653189
                        X24=                     402653190
                        CDD$K_TYPE==             402653190
                        X25=                     402653191
                        CDD$K_PATHNAME==         402653191
                        X26=                     402653192
                        CDD$K_SHORT_PATHNAME==
                                                 402653192

                        X27=                     402653193
                        CDD$K_ORDER==            402653193
                        X28=                     402653193
                        CDD$K_LAST_SYSNAM==      402653193
                        X29=                     1
                        CDD$K_ENTITY==           1
                        X30=                     2
                        CDD$K_ENTITY_LIST==      2
                        X31=                     3
                        CDD$K_NULL==             3
                        X32=                     4
                        CDD$K_NUMERIC==          4
                        X33=                     5
                        CDD$K_STRING==           5
                        X34=                     6
                        CDD$K_STRING_LIST==      6
                        X35=                     7
                        CDD$K_DIRECTORY==        7
                        X36=                     8
                        CDD$K_TERMINAL==         8
                        X37=                     1
                        CDD$K_ALL==              1
                        X38=                     2
                        CDD$K_ABORT==            2
                        X39=                     4
                        CDD$K_CHECKPOINT==       4
                        X40=                     1
                        CDD$K_NOHISTORY==        1
                        X41=                     2
                        CDD$K_NOACL==            2
                        X42=                     8
                        CDD$K_FIRST==            8
                        X43=                     16
                        CDD$K_LAST==             16
```

```
                                                    X44=                        1
                                                    CDD$K_CHECK==               1
                                                    X45=                        2
                                                    CDD$K_SUBDICTIONARY==
                                                                                2
                                                    X46=                        1
                                                    CDD$K_SORTED==             1
                                                    X47=                        2
                                                    CDD$K_NONSORTED==          2
```

;   PSECT SUMMARY
;
;   Name   Bytes   Attributes
;
; . ABS .   0 NOVEC,NOWRT,NORD ,NOEXE,NOSHR, LCL, ABS, CON,NOPIC,ALIGN(0)

;   Library Statistics
;
;   -------- Symbols --------   Pages   Processing
;   File   Total   Loaded   Percent   Mapped   Time
;
; _255DUA28:[SYSLIB]STARLET.L32;1   9776   0   0   581   00:00.8
; _255DUA28:[CDD.OBJ]CDDLIB.L32;1   664   47   7   53   00:00.3

;   COMMAND QUALIFIERS
;
;   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:CDDTYPDEF/OBJ=OBJ$:CDDTYPDEF MSRC$:CDDTYPDEF/UPDATE=(ENH$:CDDTYPDEF)

; Size: 0 code + 0 data bytes
; Run Time: 00:03.8
; Elapsed Time: 00:20.4
; Lines/CPU Min: 3396
; Lexemes/CPU-Min: 45333
; Memory Used: 49 pages
; Compilation Complete

GENRAL REQ
R32

LEXICAL
LIS

GENCODE4
LIS

CLISDEF
R32

CDUMSGS
LIS

CDU

CDU
MAP

GENCODE1
LIS

CDUREQ
R32

GENCODE3
LIS

GENCODE2
LIS

CDUTYPDEF
LIS