Section
3

HDF Definition List

3.1 Definition List Overview

This section of the Reference Manual contains a listing of all definitions used with HDF routines. The definitions are categorized by their name prefix (the portion of the name before the underscore) into tables. The tables themselves are alphebetized by name.

This section is primarily intended to be of use to Fortran programmers whose compilers do not support include files, and need to know the values of the definitions so that they can be explicitly defined in their programs.

TABLE 3A

*_INTERLACE - Interlace Mode Codes

Definition Name	Definition Value
FULL_INTERLACE	0
NO_INTERLACE	1

TABLE 3B

*_WILDCARD - Wildcard Code

Definition Name	Definition Value
DFREF_WILDCARD	0

TABLE 3C

AN_* - Multifile Annotation Codes

Definition Name	Definition Value
AN_DATA_LABEL	0
AN_DATA_DESC	1
AN_FILE_LABEL	2
AN_FILE_DESC	3

TABLE 3D

COMP_* - Raster Image Compression Codes

Definition Name	Definition Value
COMP_NONE	0
COMP_RLE	11
COMP_IMCOMP	12
COMP_JPEG	2

TABLE 3E

COMP_CODE_* - General Compression Codes

Definition Name	Definition Value
COMP_CODE_NONE	0
COMP_CODE_RLE	1
COMP_CODE_NBIT	2
COMP_CODE_SKPHUFF	3
COMP_CODE_DEFLATE	4
COMP_CODE_INVALID	5

TABLE 3F

DF_* - Maximum Length Codes

Definition Name	Definition Value
DF_MAXFNLEN	256

TABLE 3G

DFACC_* - File Access Codes

Definition Name	Definition Value
DFACC_READ	1
DFACC_WRITE	2
DFACC_CREATE	4
DFACC_ALL	7
DFACC_RDONLY	1
DFACC_RDWR	3

TABLE 3H

DFE_* - Error Codes

Definition Name	Definition Value

DFE_NOERROR	0
DFE_NONE	0
DFE_FNF	1
DFE_DENIED	2
DFE_ALROPEN	3
DFE_TOOMANY	4
DFE_BADNAME	5
DFE_BADACC	6
DFE_BADOPEN	7
DFE_NOTOPEN	8
DFE_CANTCLOSE	9
DFE_READERROR	10
DFE_WRITEERROR	11
DFE_SEEKERROR	12
DFE_RDONLY	13
DFE_BADSEEK	14
DFE_PUTELEM	15
DFE_GETELEM	16
DFE_CANTLINK	17
DFE_CANTSYNC	18
DFE_BADGROUP	19
DFE_GROUPSETUP	20
DFE_PUTGROUP	21
DFE_GROUPWRITE	22
DFE_DFNULL	23
DFE_ILLTYPE	24
DFE_BADDDLIST	25
DFE_NOTDFFILE	26
DFE_SEEDTWICE	27
DFE_NOSUCHTAG	28
DFE_NOFREEDD	29
DFE_BADTAG	30
DFE_BADREF	31
DFE_NOMATCH	32
DFE_NOTINSET	33
DFE_BADOFFSET	34
DFE_CORRUPT	35
DFE_NOREF	36

DFE_DUPDD	37
DFE_CANTMOD	38
DFE_DIFFFILES	39
DFE_BADAID	40
DFE_OPENAID	41
DFE_CANTFLUSH	42
DFE_CANTUPDATE	43
DFE_CANTHASH	44
DFE_CANTDELDD	45
DFE_CANTDELHASH	46
DFE_CANTACCESS	47
DFE_CANTENDACCESS	48
DFE_TABLEFULL	49
DFE_NOTINTABLE	50
DFE_UNSUPPORTED	51
DFE_NOSPACE	52
DFE_BADCALL	53
DFE_BADPTR	54
DFE_BADLEN	55
DFE_NOTENOUGH	56
DFE_NOVALS	57
DFE_ARGS	58
DFE_INTERNAL	59
DFE_NORESET	60
DFE_GENAPP	61
DFE_UNINIT	62
DFE_CANTINIT	63
DFE_CANTSHUTDOWN	64
DFE_BADDIM	65
DFE_BADFP	66
DFE_BADDATATYPE	67
DFE_BADMCTYPE	68
DFE_BADNUMTYPE	69
DFE_BADORDER	70
DFE_RANGE	71
DFE_BADCONV	72
DFE_BADTYPE	73
DFE_BADSCHEME	74

DFE_BADMODEL	75
DFE_BADCODER	76
DFE_MODEL	77
DFE_CODER	78
DFE_CINIT	79
DFE_CDECODE	80
DFE_CENCODE	81
DFE_CTERM	82
DFE_CSEEK	83
DFE_MINIT	84
DFE_COMPINFO	85
DFE_CANTCOMP	86
DFE_CANTDECOMP	87
DFE_NODIM	88
DFE_BADRIG	89
DFE_RINOTFOUND	90
DFE_BADATTR	91
DFE_BADTABLE	92
DFE_BADSDG	93
DFE_BADNDG	94
DFE_VGSIZE	95
DFE_VTAB	96
DFE_CANTADDELEM	97
DFE_BADVGNAME	98
DFE_BADVGCLASS	99
DFE_BADFIELDS	100
DFE_NOVS	101
DFE_SYMSIZE	102
DFE_BADATTACH	102
DFE_BADVSNAME	103
DFE_BADVSCLASS	104
DFE_VSWRITE	105
DFE_VSREAD	106
DFE_BADVH	107
DFE_VSCANTCREATE	108
DFE_VGCANTCREATE	109
DFE_CANTATTACH	110
DFE_CANTDETACH	111

DFE_BITREAD	112
DFE_BITWRITE	113
DFE_BITSEEK	114
DFE_TBBTINS	115
DFE_BVNEW	116
DFE_BVSET	117
DFE_BVGET	118
DFE_BVFIND	119

TABLE 3I

DFNT_* - Machine Word Representation and Data Type Codes

Definition Name	Definition Value
DFNT_HDF	0
DFNT_NATIVE	4096
DFNT_CUSTOM	8192
DFNT_LITEND	16384
DFNT_NONE	0
DFNT_QUERY	0
DFNT_VERSION	1
DFNT_FLOAT32	5
DFNT_FLOAT	5
DFNT_FLOAT64	6
DFNT_DOUBLE	6
DFNT_FLOAT128	7
DFNT_INT8	20
DFNT_UINT8	21
DFNT_INT16	22
DFNT_UINT16	23
DFNT_INT32	24
DFNT_UINT32	25
DFNT_INT64	26
DFNT_UINT64	27
DFNT_INT128	28
DFNT_UINT128	29
DFNT_UCHAR8	3
DFNT_UCHAR	3
DFNT_CHAR8	4

DFNT_CHAR	4
DFNT_CHAR16	42
DFNT_UCHAR16	43
DFNT_NFLOAT32	4101
DFNT_NFLOAT	4101
DFNT_NFLOAT64	4102
DFNT_NDOUBLE	4102
DFNT_NFLOAT128	4103
DFNT_NINT8	4116
DFNT_NUINT8	4117
DFNT_NINT16	4118
DFNT_NUINT16	4119
DFNT_NINT32	4120
DFNT_NUINT32	4121
DFNT_NINT64	4122
DFNT_NUINT64	4123
DFNT_NINT128	4124
DFNT_NUINT128	4125
DFNT_NUCHAR8	4099
DFNT_NUCHAR	4099
DFNT_NCHAR8	4100
DFNT_NCHAR	4100
DFNT_NCHAR16	4138
DFNT_NUCHAR16	4139
DFNT_LFLOAT32	16389
DFNT_LFLOAT	16389
DFNT_LFLOAT64	16390
DFNT_LDOUBLE	16390
DFNT_LFLOAT128	16391
DFNT_LINT8	16404
DFNT_LUINT8	16405
DFNT_LINT16	16406
DFNT_LUINT16	16407
DFNT_LINT32	16408
DFNT_LUINT32	16409
DFNT_LINT64	16410
DFNT_LUINT64	16411
DFNT_LINT128	16412

DFNT_LUINT128	16413
DFNT_LUCHAR8	16387
DFNT_LUCHAR	16387
DFNT_LCHAR8	16388
DFNT_LCHAR	16388
DFNT_LCHAR16	16426
DFNT_LUCHAR16	16427

TABLE 3J

DFNTF_* - Floating-point Format Codes

Definition Name	Definition Value
DFNTF_NONE	0
DFNTF_HDFDEFAULT	1
DFNTF_IEEE	1
DFNTF_VAX	2
DFNTF_CRAY	3
DFNTF_PC	4
DFNTF_CONVEX	5
DFNTF_VP	6

TABLE 3K

DFTAG_* - Object Tags

Definition Name	Definition Value
DFTAG_WILDCARD	0
DFTAG_NULL	1
DFTAG_LINKED	20
DFTAG_VERSION	30
DFTAG_COMPRESSED	40
DFTAG_VLINKED	50
DFTAG_VLINKED_DATA	51
DFTAG_CHUNKED	60
DFTAG_CHUNK	61
DFTAG_FID	100
DFTAG_FD	101
DFTAG_TID	102
DFTAG_TD	103
DFTAG_DIL	104

DFTAG_DIA	105
DFTAG_NT	106
DFTAG_MT	107
DFTAG_ID8	200
DFTAG_IP8	201
DFTAG_RI8	202
DFTAG_CI8	203
DFTAG_II8	204
DFTAG_ID	300
DFTAG_LUT	301
DFTAG_RI	302
DFTAG_CI	303
DFTAG_RIG	306
DFTAG_LD	307
DFTAG_MD	308
DFTAG_MA	309
DFTAG_CCN	310
DFTAG_CFM	311
DFTAG_AR	312
DFTAG_DRAW	400
DFTAG_RUN	401
DFTAG_XYP	500
DFTAG_MTO	501
DFTAG_T14	602
DFTAG_T105	603
DFTAG_SDG	700
DFTAG_SDD	701
DFTAG_SD	702
DFTAG_SDS	703
DFTAG_SDL	704
DFTAG_SDU	705
DFTAG_SDF	706
DFTAG_SDM	707
DFTAG_SDC	708
DFTAG_SDT	709
DFTAG_SDLNK	710
DFTAG_NDG	720
DFTAG_CAL	731

DFTAG_FV	732
DFTAG_BREQ	799
DFTAG_EREQ	780
DFTAG_SDRAG	781
DFTAG_VG	1965
DFTAG_VH	1962
DFTAG_VS	1963
DFTAG_RLE	11
DFTAG_IMC	12
DFTAG_IMCOMP	12
DFTAG_JPEG	13
DFTAG_GREYJPEG	14
DFTAG_JPEG5	15
DFTAG_GREYJPEG5	16

TABLE 3L

HDF_* - Vdata Interface, Linked-block Element, and Vset Packing Mode Codes

Definition Name	Definition Value
_HDF_VDATA	-1
_HDF_VSPACK	0
_HDF_VSUNPACK	1
_HDF_ENTIRE_VDATA	-1
HDF_APPENDABLE_BLOCK_LEN	4096
HDF_APPENDABLE_BLOCK_NUM	16

TABLE 3M

MFGR_* - Interlace Mode Codes

Definition Name	Definition Value
MFGR_INTERLACE_PIXEL	0
MFGR_INTERLACE_LINE	1
MFGR_INTERLACE_COMPONENT	2

TABLE 3N

SD_* - Scientific Data Set Configuration Codes

Definition Name	Definition Value
SD_UNLIMITED	0

SD_DIMVAL_BW_COMP	1
SD_DIMVAL_BW_INCOMP	0
SD_FILL	0
SD_NOFILL	256
SD_RAGGED	-1

TABLE 3O

SPECIAL_* - Special Element Identifier Codes

Definition Name	Definition Value
SPECIAL_LINKED	1
SPECIAL_EXT	2
SPECIAL_COMP	3
SPECIAL_VLINKED	4
SPECIAL_CHUNKED	5

TABLE 3P

SUCCEED/FAIL - Routine Return Status Codes

Definition Name	Definition Value
SUCCEED	0
FAIL	-1