

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 under-score) into tables. The tables themselves are alphabetized by this definition name prefix.

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

Maximum Limit Codes

Definition Name	Definition Value
FULL_INTERLACE	0
NO_INTERLACE	1
DF_MAXFNLEN	256
FIELDNAMELENMAX	128
VSFIELDMAX	256
VSNAMELENMAX	64
VGNAMELENMAX	64
MAXNVELT	64
VDEFAULTBLKSIZE	4096
VDEFAULTNBLKS	32
MAX_ORDER	65535
MAX_FIELD_SIZE	65535
MAX_FILE	32
MAX_PATH_LEN	1024
VDATA_BUFFER_MAX	1000000
DFS_MAXLEN	255
DFSD_MAXFILL_LEN	16
COMP_MAX_COMP	12

MAX_GROUPS	8
FUNC_NAME_LEN	32
MAX_NC_OPEN	32
MAX_NC_DIMS	5000
MAX_NC_ATTRS	3000
MAX_NC_VARS	5000
MAX_NC_NAME	256
MAX_VAR_DIMS	32
MAX_GR_NAME	256

TABLE 3B

***_INTERLACE - Interlacing Mode Codes**

Definition Name	Definition Value
FULL_INTERLACE	0
NO_INTERLACE	1

TABLE 3C

***_WILDCARD - Wildcard Code**

Definition Name	Definition Value
DFREF_WILDCARD	0

TABLE 3D

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 3E

COMP_CODE_* - 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
DFACC_CLOBBER	4
DFACC_DEFAULT	0
DFACC_SERIAL	1
DFACC_PARALLEL	9

TABLE 3H**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_LCHAR8	16387
DFNT_LCHAR	16387
DFNT_LCHAR8	16388
DFNT_LCHAR	16388
DFNT_LCHAR16	16426
DFNT_LCHAR16	16427

TABLE 3I**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 3J**DFTAG_* - Object Tag Codes**

Definition Name	Definition Value
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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_I18	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 3K

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

HDF_VSPACK	0
HDF_VSUNPACK	1

TABLE 3L

MFGR_* - Interlacing Mode Codes

Definition Name	Definition Value
MFGR_INTERLACE_PIXEL	0
MFGR_INTERLACE_LINE	1
MFGR_INTERLACE_COMPONENT	2

TABLE 3M

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 3N

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 3O

SUCCEED/FAIL - Routine Return Status Codes

Definition Name	Definition Value
SUCCEED	0
FAIL	-1

