* HDF Constant Definition List

# Definition List Overview

This section of the Reference Manual contains a listing of all constant 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 alphabetized 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.

* **\*\_INTERLACE - Interlace Mode Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| FULL\_INTERLACE | 0 |
| NO\_INTERLACE | 1 |

* **\*\_WILDCARD - Wildcard Code**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| DFREF\_WILDCARD | 0 |
| DFTAG\_WILDCARD | 0 |

* **AN\_\* - Multifile Annotation Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| AN\_DATA\_LABEL | 0 |
| AN\_DATA\_DESC | 1 |
| AN\_FILE\_LABEL | 2 |
| AN\_FILE\_DESC | 3 |

* **COMP\_\* - Raster Image Compression Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| COMP\_NONE | 0 |
| COMP\_RLE | 11 |
| COMP\_IMCOMP | 12 |
| COMP\_JPEG | 2 |

* **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\_SZIP | 5 |
| COMP\_CODE\_INVALID | 6 |
| COMP\_CODE\_JPEG | 7 |

* **DF\_\* - Maximum Length Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| DF\_MAXFNLEN | 256 |

* **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 |

* **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\_NOVGREP | 74 |
| DFE\_BADSCHEME | 75 |
| DFE\_BADMODEL | 76 |
| DFE\_BADCODER | 77 |
| DFE\_MODEL | 78 |
| DFE\_CODER | 79 |
| DFE\_CINIT | 80 |
| DFE\_CDECODE | 81 |
| DFE\_CENCODE | 82 |
| DFE\_CTERM | 83 |
| DFE\_CSEEK | 84 |
| DFE\_MINIT | 85 |
| DFE\_COMPINFO | 86 |
| DFE\_CANTCOMP | 87 |
| DFE\_CANTDECOMP | 88 |
| DFE\_NOENCODER | 89 |
| DFE\_NOSZLIB | 90 |
| DFE\_COMPVERSION | 91 |
| DFE\_READCOMP | 92 |
| DFE\_NODIM | 93 |
| DFE\_BADRIG | 94 |
| DFE\_RINOTFOUND | 95 |
| DFE\_BADATTR | 96 |
| DFE\_LUTNOTFOUND | 97 |
| DFE\_GRNOTFOUND | 98 |
| DFE\_BADTABLE | 99 |
| DFE\_BADSDG | 100 |
| DFE\_BADNDG | 101 |
| DFE\_VGSIZE | 102 |
| DFE\_VTAB | 103 |
| DFE\_CANTADDELEM | 104 |
| DFE\_BADVGNAME | 105 |
| DFE\_BADVGCLASS | 106 |
| DFE\_BADFIELDS | 107 |
| DFE\_NOVS | 108 |
| DFE\_SYMSIZE | 109 |
| DFE\_BADATTACH | 110 |
| DFE\_BADVSNAME | 111 |
| DFE\_BADVSCLASS | 112 |
| DFE\_VSWRITE | 113 |
| DFE\_VSREAD | 114 |
| DFE\_BADVH | 115 |
| DFE\_FIELDSSET | 116 |
| DFE\_VSCANTCREATE | 117 |
| DFE\_VGCANTCREATE | 118 |
| DFE\_CANTATTACH | 119 |
| DFE\_CANTDETACH | 120 |
| DFE\_BITREAD | 121 |
| DFE\_BITWRITE | 122 |
| DFE\_BITSEEK | 123 |
| DFE\_TBBTINS | 124 |
| DFE\_BVNEW | 125 |
| DFE\_BVSET | 126 |
| DFE\_BVGET | 127 |
| DFE\_BVFIND | 128 |

* **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 |

* **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 |

* **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 |

* **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 |

* **MFGR\_\* - Interlace Mode Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| MFGR\_INTERLACE\_PIXEL | 0 |
| MFGR\_INTERLACE\_LINE | 1 |
| MFGR\_INTERLACE\_COMPONENT | 2 |

* **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 |

* **SPECIAL\_\* - Special Element Identifier Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| SPECIAL\_LINKED | 1 |
| SPECIAL\_EXT | 2 |
| SPECIAL\_COMP | 3 |
| SPECIAL\_VLINKED | 4 |
| SPECIAL\_CHUNKED | 5 |
| SPECIAL\_BUFFERED | 6 |
| SPECIAL\_COMPRAS | 7 |

* **SUCCEED/FAIL - Routine Return Status Codes**

|  |  |
| --- | --- |
| Definition Name | Definition Value |
|
| SUCCEED | 0 |
| FAIL | -1 |