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6 CFITSIO Error Status Codes

The following table lists all the error status codes used by CFITSIO. Programmers are encouraged to use the symbolic mnemonics (defined in the file fitsio.h) rather than the actual integer status values to improve the readability of their code.

```
Symbolic Const Value
                        Meaning
             OK, no error
SAME FILE
                 101
                      input and output files are the
same
TOO_MANY_FILES
                     103
                          tried to open too many
FITS files at once
FILE_NOT_OPENED 104 could not open the named
file
FILE NOT CREATED 105 could not create the
named file
WRITE_ERROR
                   106 error writing to FITS file
END_OF_FILE
                  107
                      tried to move past end of file
READ ERROR
                  108
                        error reading from FITS file
FILE_NOT_CLOSED 110 could not close the file
ARRAY_TOO_BIG
                    111
                          array dimensions exceed
internal limit
READONLY_FILE
                    112
                         Cannot write to readonly file
```

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MEMORY_ALLOCATION 113 Could not allocate memory

BAD_FILEPTR 114 invalid fitsfile pointer NULL_INPUT_PTR 115 NULL input pointer to routine

SEEK_ERROR 116 error seeking position in file

BAD_URL_PREFIX 121 invalid URL prefix on file name

TOO_MANY_DRIVERS 122 tried to register too many IO drivers

DRIVER_INIT_FAILED 123 driver initialization failed NO_MATCHING_DRIVER 124 matching driver is not registered

URL_PARSE_ERROR 125 failed to parse input file URL

SHARED_BADARG 151 bad argument in shared memory driver

SHARED_NULPTR 152 null pointer passed as an argument

SHARED_TABFULL 153 no more free shared memory handles

SHARED_NOTINIT 154 shared memory driver is not initialized

SHARED_IPCERR 155 IPC error returned by a system call

SHARED_NOMEM 156 no memory in shared memory driver

SHARED_AGAIN 157 resource deadlock would occur

SHARED_NOFILE 158 attempt to open/create lock file failed

SHARED_NORESIZE 159 shared memory block cannot be resized at the moment

HEADER_NOT_EMPTY 201 header already contains keywords

KEY_NO_EXIST 202 keyword not found in header KEY_OUT_BOUNDS 203 keyword record number is out of bounds

VALUE_UNDEFINED 204 keyword value field is blank

NO_QUOTE 205 string is missing the closing quote

BAD_KEYCHAR 207 illegal character in keyword name or card

BAD_ORDER 208 required keywords out of order NOT_POS_INT 209 keyword value is not a positive integer

NO_END 210 couldn't find END keyword

BAD_BITPIX 211 illegal BITPIX keyword value

BAD_NAXIS 212 illegal NAXIS keyword value

BAD_NAXES 213 illegal NAXISn keyword value

BAD_PCOUNT 214 illegal PCOUNT keyword

value

BAD_GCOUNT 215 illegal GCOUNT keyword

value

BAD_TFIELDS 216 illegal TFIELDS keyword

value

NEG_WIDTH 217 negative table row size

NEG_ROWS 218 negative number of rows in

table

COL_NOT_FOUND 219 column with this name not found in table

BAD_SIMPLE 220 illegal value of SIMPLE keyword

NO_SIMPLE 221 Primary array doesn't start with SIMPLE

NO_BITPIX 222 Second keyword not BITPIX

NO_NAXIS	223 Third keyword not NAXIS	
NO_NAXES	224 Couldn't find all the NAXISn	
keywords		
NO_XTENSION	225 HDU doesn't start with	
XTENSION keyw	ord	
NOT_ATABLE	the CHDU is not an ASCII	
table extension		
NOT_BTABLE	the CHDU is not a binary tal	ble
extension		
NO_PCOUNT	228 couldn't find PCOUNT	
keyword		
NO_GCOUNT	229 couldn't find GCOUNT	
keyword		
NO_TFIELDS	230 couldn't find TFIELDS keywo	ord
NO_TBCOL	231 couldn't find TBCOLn keywor	rd
NO_TFORM	232 couldn't find TFORMn keywo	ord
NOT_IMAGE	the CHDU is not an IMAGE	
extension		
BAD_TBCOL	234 TBCOLn keyword value < 0	or
> rowlength		
NOT_TABLE	the CHDU is not a table	
COL_TOO_WID	E 236 column is too wide to fit in	1
table		
COL_NOT_UNIO	QUE 237 more than 1 column nam	ıe
matches template		
BAD_ROW_WID	OTH 241 sum of column widths no	ot
= NAXIS1		
UNKNOWN_EX	Γ 251 unrecognizable FITS	
extension type		
UNKNOWN_RE	C 252 unknown record; 1st	
keyword not SIMPLE or XTENSION		
END_JUNK	253 END keyword is not blank	
BAD_HEADER_	FILL 254 Header fill area contains	
non-blank chars		
BAD_DATA_FIL	L 255 Illegal data fill bytes (not	

zero or blank)

BAD_TFORM 261 illegal TFORM format code BAD_TFORM_DTYPE 262 unrecognizable TFORM

datatype code

BAD_TDIM 263 illegal TDIMn keyword value BAD_HEAP_PTR 264 invalid BINTABLE heap pointer is out of range

BAD_HDU_NUM 301 HDU number < 1 or >

MAXHDU

BAD_COL_NUM 302 column number < 1 or > tfields

NEG_FILE_POS 304 tried to move to negative byte location in file

NEG_BYTES 306 tried to read or write negative number of bytes

BAD_ROW_NUM 307 illegal starting row number in table

BAD_ELEM_NUM 308 illegal starting element number in vector

NOT_ASCII_COL 309 this is not an ASCII string column

NOT_LOGICAL_COL 310 this is not a logical datatype column

BAD_ATABLE_FORMAT 311 ASCII table column has wrong format

BAD_BTABLE_FORMAT 312 Binary table column has wrong format

NO_NULL 314 null value has not been defined NOT_VARI_LEN 317 this is not a variable length column

BAD_DIMEN 320 illegal number of dimensions in array

BAD_PIX_NUM 321 first pixel number greater than last pixel

ZERO_SCALE 322 illegal BSCALE or TSCALn

keyword = 0

NEG_AXIS 323 illegal axis length < 1

NOT_GROUP_TABLE 340 Grouping function error

HDU_ALREADY_MEMBER 341

MEMBER_NOT_FOUND 342

GROUP_NOT_FOUND 343

BAD_GROUP_ID 344

TOO_MANY_HDUS_TRACKED 345

HDU_ALREADY_TRACKED 346

BAD_OPTION 347

IDENTICAL_POINTERS 348

BAD_GROUP_ATTACH 349

BAD_GROUP_DETACH 350

NGP_NO_MEMORY 360 malloc failed

NGP_READ_ERR 361 read error from file

NGP_NUL_PTR 362 null pointer passed as an argument.

Passing null pointer as a name of

template file raises this error

NGP_EMPTY_CURLINE 363 line read seems to be empty (used

internally)

NGP_UNREAD_QUEUE_FULL 364 cannot unread more then 1 line (or single

line twice)

NGP_INC_NESTING 365 too deep include file nesting (infinite

loop, template includes itself?)

NGP_ERR_FOPEN 366 fopen() failed, cannot open template file

NGP_EOF 367 end of file encountered and not

expected

NGP_BAD_ARG 368 bad arguments passed. Usually means

internal parser error. Should not

happen

NGP_TOKEN_NOT_EXPECT 369 token not expected here

BAD_I2C 401 bad int to formatted string

conversion

BAD_F2C 402 bad float to formatted string

conversion

BAD_INTKEY 403 can't interpret keyword value as integer

BAD_LOGICALKEY 404 can't interpret keyword value as logical

BAD_FLOATKEY 405 can't interpret keyword value as float

BAD_DOUBLEKEY 406 can't interpret keyword value as double

BAD_C2I 407 bad formatted string to int conversion

BAD_C2F 408 bad formatted string to float conversion

BAD_C2D 409 bad formatted string to double conversion

BAD_DATATYPE 410 illegal datatype code value BAD_DECIM 411 bad number of decimal places specified

NUM_OVERFLOW 412 overflow during datatype conversion

DATA_COMPRESSION_ERR 413 error compressing image

DATA_DECOMPRESSION_ERR 414 error uncompressing image

BAD_DATE 420 error in date or time conversion

PARSE_SYNTAX_ERR 431 syntax error in parser expression

PARSE_BAD_TYPE 432 expression did not evaluate to desired type

PARSE_LRG_VECTOR 433 vector result too large to return in array

PARSE_NO_OUTPUT 434 data parser failed not sent an out column

PARSE_BAD_COL 435 bad data encounter while parsing column

PARSE_BAD_OUTPUT 436 Output file not of proper type

ANGLE_TOO_BIG 501 celestial angle too large for projection

BAD_WCS_VAL 502 bad celestial coordinate or pixel value

WCS_ERROR 503 error in celestial coordinate calculation

BAD_WCS_PROJ 504 unsupported type of celestial projection

NO_WCS_KEY 505 celestial coordinate keywords not found

APPROX_WCS_KEY 506 approximate wcs keyword values were returned