

f90_iostat: Fortran IOSTAT Module

March 11, 2024

1 Name

f90_iostat — Intrinsic module providing IOSTAT error codes

2 Usage

```
USE F90_IOSTAT
```

or

```
USE, INTRINSIC :: F90_IOSTAT
```

3 Synopsis

Parameters

IOERR_ARRAY_OF_ARRAY, IOERR_ASYNC_NOT_PERMITTED,
IOERR_ASYNCHRONOUS_DEFINED_INPUT_OUTPUT, IOERR_BACKSPACE_FAILED,
IOERR_BACKSPACE_OF_UNF_STREAM, IOERR_BAD_ACCESS, IOERR_BAD_ACTION,
IOERR_BAD_ADVANCE, IOERR_BAD_ASYNCHRONOUS, IOERR_BAD_BINARY,
IOERR_BAD_BLANKS, IOERR_BAD_BNBZ, IOERR_BAD_CHAR, IOERR_BAD_COMPLEX,
IOERR_BAD_DECIMAL, IOERR_BAD_DELIM, IOERR_BAD_EDIT,
IOERR_BAD_EDIT_FOR_CHARACTER, IOERR_BAD_EDIT_FOR_INTEGER,
IOERR_BAD_EDIT_FOR_LOGICAL, IOERR_BAD_EDIT_FOR_REAL,
IOERR_BAD_ENCODING, IOERR_BAD_EXPONENT, IOERR_BAD_FORM,
IOERR_BAD_HEX, IOERR_BAD_INPUT_EXPONENT, IOERR_BAD_INPUT_INTEGER,
IOERR_BAD_INPUT_LOGICAL, IOERR_BAD_INPUT_REAL, IOERR_BAD_INTEGER,
IOERR_BAD_INTEGER_LITERAL, IOERR_BAD_LOGICAL, IOERR_BAD_OCTAL,
IOERR_BAD_PAD, IOERR_BAD_POS, IOERR_BAD_POSITION, IOERR_BAD_REAL,
IOERR_BAD_REC, IOERR_BAD_ROUND, IOERR_BAD_SCALE, IOERR_BAD_SIGN,
IOERR_BAD_STATUS, IOERR_BAD_UNIT, IOERR_BUFFER_OVERFLOW,
IOERR_CANNOT_BACKSPACE, IOERR_CANNOT_KEEP, IOERR_CANNOT_OPEN,
IOERR_CANNOT_REWIND, IOERR_CHAR_EDIT_IN_READ,
IOERR_CHAR_OVERLAPS_END, IOERR_COMPONENT_NAME_TOO_LONG,
IOERR_CORRUPT_UNFORMATTED_FILE, IOERR_DELIM_on_unformatted_OPEN,
IOERR_DIFFERENT_ACCESS, IOERR_DIFFERENT_ACTION,
IOERR_DIFFERENT_ASYNCHRONOUS, IOERR_DIFFERENT_FORM,
IOERR_DIFFERENT_POSITION, IOERR_DIFFERENT_RECL,
IOERR_DIFFERENT_STATUS, IOERR_DIRECT_POSITION_INCOMPAT,
IOERR_ENDFILE_TWICE, IOERR_END_OF_DIRECT_ACCESS, IOERR_EOF, IOERR_EOR,
IOERR_EXPECTED_COLON, IOERR_EXPECTED_COMMA,
IOERR_EXPECTED_EQUALS, IOERR_EXPECTED_INTEGER_VALUE,
IOERR_EXPECTED_P, IOERR_EXPECTED_PERIOD, IOERR_EXPECTED_RPAREN,
IOERR_FORMAT_MBNZ, IOERR_FORMAT_NO_ENDING_RPAREN,
IOERR_FORMAT_NO_LPAREN, IOERR_GROUP_NAME_TOO_LONG,

IOERR_INPUT_BUFFER_OVERFLOW, IOERR_INPUT_LIST_TOO_BIG,
 IOERR_INTEGER1_TOO_BIG, IOERR_INTEGER2_TOO_BIG,
 IOERR_INTEGER64_TOO_BIG, IOERR_INTEGER_OVERFLOW_REPEAT,
 IOERR_INTEGER_TOO_BIG, IOERR_INTERNAL_FILE_OVERFLOW,
 IOERR_INVALID_CHAR_IN_DT_V_LIST, IOERR_INVALID_VALUE_FOR_ID_SPECIFIER,
 IOERR_MISSING_COMPONENT_NAME_AFTER_PERCENT,
 IOERR_MISSING_HOLLERITH_LENGTH, IOERR_NAMELIST_BAD_CHAR,
 IOERR_NAME_TOO_LONG, IOERR_NEW_FILE_EXISTS, IOERR_NOT_CONNECTED,
 IOERR_NOT_CONNECTED_NO_FILENAME, IOERR_NOT_DIRECT,
 IOERR_NOT_FORMATTED, IOERR_NOT_READ, IOERR_NOT_SEQUENTIAL,
 IOERR_NOT_UNFORMATTED, IOERR_NOT_WRITE, IOERR_NO_AMPERSAND,
 IOERR_NO_DATA_EDIT_IN_REVERSION, IOERR_NO_EDIT_FOR_REPEAT,
 IOERR_NO_FILE_WITH_REPLACE, IOERR_NO_INPUT_LOGICAL,
 IOERR_NO_NAMELIST_GROUP_NAME, IOERR_NO_OLD_FILE, IOERR_NO_RECL,
 IOERR_NO_SPACING_FOR_X, IOERR_OBJECT_NAME_TOO_LONG, IOERR_OK,
 IOERR_ONLY_SIGN_FOUND, IOERR_OPERATING_SYSTEM_ERROR,
 IOERR_PAD_on_unformatted_OPEN, IOERR_PENDING_BUT_NOT_ASYNC,
 IOERR_POS_BUT_NOT_STREAM, IOERR_POS_IN_CHILD_DATA_TRANSFER,
 IOERR_READ_AFTER_WRITE, IOERR_REAL_INPUT_OVERFLOW,
 IOERR_REC_IN_CHILD_DATA_TRANSFER, IOERR_RECL_LE_ZERO,
 IOERR_RECL_WITH_STREAM_ACCESS, IOERR_RECORD_TOO_SHORT,
 IOERR_REPEAT_FOR_BLANK_INTERP, IOERR_REPEAT_FOR_CHAR_EDIT,
 IOERR_REPEAT_FOR_POSITION, IOERR_REPEAT_FOR_ROUNDING,
 IOERR_REPEAT_FOR_SIGN, IOERR_RW_AFTER_ENDFILE,
 IOERR_SCALE_FOLLOVED_BY_REPEAT, IOERR_SCRATCH_NAMED,
 IOERR_SIZE_WITHOUT_NONADVANCING, IOERR_SUBFMT_TOO_DEEP,
 IOERR_SUBSCRIPT_OUT_OF_RANGE, IOERR_SUBSTRING_OUT_OF_BOUNDS,
 IOERR_TRUNCATE_FAILED, IOERR_UNEXPECTED_COMPONENT,
 IOERR_UNEXPECTED_FORMAT_END, IOERR_UNEXPECTED_SUBSCRIPT,
 IOERR_UNKNOWN_COMPONENT, IOERR_UNKNOWN_OBJECT_NAME,
 IOERR_UNTERMINATED_DT_STRING, IOERR_UNTERMINATED_DT_V_LIST,
 IOERR_WAIT_WITH_ID_BUT_FILE_IS_NOT_ASYNC,
 IOERR_WAIT_WITH_ID_BUT_NO_CONNECTION,
 IOERR_WRITE_FAILED_MYSTERIOUSLY, IOERR_WRONG_NAMELIST,
 IOERR_ZERO_LENGTH_INPUT, IOERR_ZERO_REPEAT, IOERR_ZERO_SIZE_INPUT,
 IOERR_ZERO_STRIDE.

4 Parameter Description

Integer,Parameter :: IOERR_EOR = -2

End of record

Integer,Parameter :: IOERR_EOF = -1

End of file

Integer,Parameter :: IOERR_OK = 0

Successful operation

| | |
|--|-------|
| Integer,Parameter :: IOERR_BUFFER_OVERFLOW | = 100 |
| Buffer overflow on output | |
| Integer,Parameter :: IOERR_INTERNAL_FILE_OVERFLOW | = 101 |
| Internal file overflow | |
| Integer,Parameter :: IOERR_BAD_SCALE | = 102 |
| Scale factor out of range | |
| Integer,Parameter :: IOERR_BAD_EXPONENT | = 103 |
| Exponent too large for w.d format | |
| Integer,Parameter :: IOERR_INPUT_BUFFER_OVERFLOW | = 104 |
| Record too long for input buffer | |
| Integer,Parameter :: IOERR_ZERO_REPEAT | = 105 |
| Zero repeat factor in list-directed input | |
| Integer,Parameter :: IOERR_BAD_INTEGER | = 106 |
| Invalid input for integer editing | |
| Integer,Parameter :: IOERR_INTEGER1_TOO_BIG | = 107 |
| Input value too large for INTEGER(KIND=1) | |
| Integer,Parameter :: IOERR_INTEGER2_TOO_BIG | = 108 |
| Input value too large for INTEGER(KIND=2) | |
| Integer,Parameter :: IOERR_INTEGER_OVERFLOW_REPEAT | = 109 |
| Repeat factor in list-directed input larger than HUGE(0) | |
| Integer,Parameter :: IOERR_INTEGER_TOO_BIG | = 110 |
| Input value too large for default INTEGER type | |
| Integer,Parameter :: IOERR_BAD_REAL | = 111 |

Invalid input for real editing

Integer,Parameter :: IOERR_BAD_LOGICAL = 112

Invalid input for logical editing

Integer,Parameter :: IOERR_BAD_COMPLEX = 113

Invalid input for complex editing

Integer,Parameter :: IOERR_BAD_CHAR = 114

Invalid input for character editing

Integer,Parameter :: IOERR_FORMAT_NO_LPAREN = 115

Format specification does not begin with a left parenthesis

Integer,Parameter :: IOERR_FORMAT_NO_ENDING_RPAREN = 116

Format specification does not end with a right parenthesis

Integer,Parameter :: IOERR_NO_DATA_EDIT_IN_REVERSION = 117

No data edit descriptor in tail of format specification after reversion

Integer,Parameter :: IOERR_SUBFMT_TOO_DEEP = 118

Sub-format groups nested too deeply

Integer,Parameter :: IOERR_UNEXPECTED_FORMAT_END = 119

Unexpected end of format specification

Integer,Parameter :: IOERR_EXPECTED_INTEGER_VALUE = 120

Expected integer literal constant in format specification

Integer,Parameter :: IOERR_FORMAT_MBNZ = 121

Field/exponent width or repeat in format specification must be non-zero

Integer,Parameter :: IOERR_EXPECTED_PERIOD = 122

Expected decimal point in format specification

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|--|-------|
| Integer,Parameter :: IOERR_EXPECTED_P | = 123 |
| Expected P following signed integer constant in format specification | |
| Integer,Parameter :: IOERR_BAD_BNBZ | = 124 |
| Expected N or Z following B in format specification | |
| Integer,Parameter :: IOERR_BAD_EDIT | = 125 |
| Invalid edit descriptor | |
| Integer,Parameter :: IOERR_NO_EDIT_FOR_REPEAT | = 126 |
| No edit descriptor following repeat factor | |
| Integer,Parameter :: IOERR_REPEAT_FOR_SIGN | = 127 |
| Repeat factor given for sign edit descriptor | |
| Integer,Parameter :: IOERR_REPEAT_FOR_BLANK_INTERP | = 128 |
| Repeat factor given for blank-interpretation edit descriptor | |
| Integer,Parameter :: IOERR_MISSING_HOLLERITH_LENGTH | = 129 |
| Missing length of H edit descriptor | |
| Integer,Parameter :: IOERR_REPEAT_FOR_CHAR_EDIT | = 130 |
| Repeat factor given for character string edit descriptor | |
| Integer,Parameter :: IOERR_NO_SPACING_FOR_X | = 131 |
| No spacing specified for X edit descriptor | |
| Integer,Parameter :: IOERR_REPEAT_FOR_POSITION | = 132 |
| Repeat factor given for position edit descriptor | |
| Integer,Parameter :: IOERR_CHAR_EDIT_IN_READ | = 133 |
| Character string edit descriptor used on input | |
| Integer,Parameter :: IOERR_BAD_EDIT_FOR_REAL | = 134 |

Invalid edit descriptor for real i/o-list item

Integer,Parameter :: IOERR_BAD_EDIT_FOR_INTEGER = 135

Invalid edit descriptor for integer i/o-list item

Integer,Parameter :: IOERR_BAD_EDIT_FOR_LOGICAL = 136

Invalid edit descriptor for logical i/o-list item

Integer,Parameter :: IOERR_CHAR_OVERLAPS_END = 137

Character string edit descriptor does not terminate before format end

Integer,Parameter :: IOERR_ONLY_SIGN_FOUND = 138

Sign in a numeric input field not followed by any digits

Integer,Parameter :: IOERR_BAD_INPUT_EXPONENT = 139

Invalid exponent in real input field

Integer,Parameter :: IOERR_BAD_INPUT_REAL = 140

Invalid character in real input field

Integer,Parameter :: IOERR_BAD_INPUT_INTEGER = 141

Invalid character in integer input field

Integer,Parameter :: IOERR_BAD_BINARY = 142

Invalid character in binary integer input field

Integer,Parameter :: IOERR_BAD_OCTAL = 143

Invalid character in octal integer input field

Integer,Parameter :: IOERR_BAD_HEX = 144

Invalid character in hexadecimal integer input field

Integer,Parameter :: IOERR_BAD_EDIT_FOR_CHARACTER = 145

Invalid edit descriptor for character i/o-list item

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|---|-------|
| Integer,Parameter :: IOERR_READ_AFTER_WRITE | = 146 |
| READ after WRITE with no intervening file positioning | |
| Integer,Parameter :: IOERR_BAD_UNIT | = 147 |
| Unit number out of range | |
| Integer,Parameter :: IOERR_NOT_CONNECTED | = 148 |
| Unit is not connected | |
| Integer,Parameter :: IOERR_CANNOT_BACKSPACE | = 149 |
| File connected to unit is not capable of BACKSPACE | |
| Integer,Parameter :: IOERR_NOT_SEQUENTIAL | = 150 |
| Unit is not connected for SEQUENTIAL i/o | |
| Integer,Parameter :: IOERR_NOT_READ | = 151 |
| Unit is not connected for READ action | |
| Integer,Parameter :: IOERR_NOT_FORMATTED | = 152 |
| Unit is not connected for FORMATTED i/o | |
| Integer,Parameter :: IOERR_NOT_WRITE | = 153 |
| Unit is not connected for WRITE action | |
| Integer,Parameter :: IOERR_NOT_UNFORMATTED | = 154 |
| Unit is not connected for UNFORMATTED i/o | |
| Integer,Parameter :: IOERR_NOT_CONNECTED_NO_FILENAME | = 155 |
| Unit is not connected and no FILE= specifier on OPEN | |
| Integer,Parameter :: IOERR_SCRATCH_NAMED | = 156 |
| FILE= specifier on OPEN with STATUS='SCRATCH' | |
| Integer,Parameter :: IOERR_DIFFERENT_STATUS | = 157 |

OPEN on connected unit has different STATUS= specifier

Integer,Parameter :: IOERR_DIFFERENT_ACCESS = 158

OPEN on connected unit has different ACCESS= specifier

Integer,Parameter :: IOERR_DIFFERENT_FORM = 159

OPEN on connected unit has different FORM= specifier

Integer,Parameter :: IOERR_DIFFERENT_RECL = 160

OPEN on connected unit has different RECL= specifier

Integer,Parameter :: IOERR_DIFFERENT_ACTION = 161

OPEN on connected unit has different ACTION= specifier

Integer,Parameter :: IOERR_DIFFERENT_POSITION = 162

OPEN on connected unit has different POSITION= specifier

Integer,Parameter :: IOERR_BAD_STATUS = 163

Invalid value for STATUS= specifier

Integer,Parameter :: IOERR_BAD_ACCESS = 164

Invalid value for ACCESS= specifier

Integer,Parameter :: IOERR_BAD_FORM = 165

Invalid value for FORM= specifier

Integer,Parameter :: IOERR_BAD_BLANKS = 166

Invalid value for BLANKS= specifier

Integer,Parameter :: IOERR_BAD_POSITION = 167

Invalid value for POSITION= specifier

Integer,Parameter :: IOERR_BAD_ACTION = 168

Invalid value for ACTION= specifier

| | |
|--|-------|
| Integer,Parameter :: IOERR_BAD_DELIM | = 169 |
| Invalid value for DELIM= specifier | |
| Integer,Parameter :: IOERR_BAD_PAD | = 170 |
| Invalid value for PAD= specifier | |
| Integer,Parameter :: IOERR_NO_RECL | = 171 |
| The RECL= specifier must be given for DIRECT access OPEN | |
| Integer,Parameter :: IOERR_CANNOT_KEEP | = 172 |
| STATUS='KEEP' is invalid for a SCRATCH file | |
| Integer,Parameter :: IOERR_ENDFILE_TWICE | = 173 |
| ENDFILE applied twice to unit with no intervening file positioning | |
| Integer,Parameter :: IOERR_NAME_TOO_LONG | = 174 |
| File name too long | |
| Integer,Parameter :: IOERR_NO_OLD_FILE | = 175 |
| Cannot find OLD file | |
| Integer,Parameter :: IOERR_NEW_FILE_EXISTS | = 176 |
| New file already exists | |
| Integer,Parameter :: IOERR_CANNOT_REWIND | = 177 |
| File connected to unit is not capable of REWIND | |
| Integer,Parameter :: IOERR_BACKSPACE_FAILED | = 178 |
| BACKSPACE failed to find the beginning of the previous record | |
| Integer,Parameter :: IOERR_NOT_DIRECT | = 179 |
| Unit is not connected for DIRECT i/o | |
| Integer,Parameter :: IOERR_BAD_REC | = 180 |

Record number out of range

Integer,Parameter :: IOERR_BAD_INPUT_LOGICAL = 181

Illegal character in LOGICAL input field

Integer,Parameter :: IOERR_NO_INPUT_LOGICAL = 182

No value found in LOGICAL input field

Integer,Parameter :: IOERR_CANNOT_OPEN = 183

Unknown OPEN failure on unit

Integer,Parameter :: IOERR_NO_AMPERSAND = 184

Expected '&' but found *C* in NAMELIST input

(*C* is replaced by the erroneous character).

Integer,Parameter :: IOERR_GROUP_NAME_TOO_LONG = 185

NAMELIST group name in input is too long

Integer,Parameter :: IOERR_WRONG_NAMELIST = 186

Expected NAMELIST group */N1/* but found */N2/*

(*N1* and *N2* are replaced by the relevant NAMELIST group names).

Integer,Parameter :: IOERR_NAMELIST_BAD_CHAR = 187

Invalid character *C* in NAMELIST input

(*C* is replaced by the erroneous character).

Integer,Parameter :: IOERR_OBJECT_NAME_TOO_LONG = 188

NAMELIST group name in input of NAMELIST/*N/* is too long

(*N* is replaced by the erroneous namelist group name).

Integer,Parameter :: IOERR_EXPECTED_EQUALS = 189

Expected '=' but found *C* in NAMELIST input

(*C* is replaced by the erroneous character).

Integer,Parameter :: IOERR_UNKNOWN_OBJECT_NAME = 190

Unknown group object V in input for NAMELIST/ N /

(V is replaced by the erroneous group object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_UNEXPECTED_SUBSCRIPT = 191

Unexpected subscript for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_UNEXPECTED_COMPONENT = 192

Unexpected component specifier for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_COMPONENT_NAME_TOO_LONG = 193

Component name too long in input for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_UNKNOWN_COMPONENT = 194

Unknown component C in input for object V of NAMELIST/ N /

(C is replaced by the erroneous component name, V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_ARRAY_OF_ARRAY = 195

Array component of array parent in input for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_BAD_INTEGER_LITERAL = 196

Invalid integer literal in input for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_EXPECTED_COLON = 197

Expected ':' but found ' C ' in input for object V of NAMELIST/ N /

(C is replaced by the erroneous character, V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_ZERO_LENGTH_INPUT = 198

Substring has zero length in input for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_SUBSTRING_OUT_OF_BOUNDS = 199

Substring (I : J) out of bounds in input for object V of NAMELIST/ N /

(I and J are replaced by the substring bounds, V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_EXPECTED_COMMA = 200

Expected ',' but found ' C ' in input for object V of NAMELIST/ N /

(C is replaced by the erroneous character, V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_EXPECTED_RPAREN = 201

Expected ')' but found ' C ' in input for object V of NAMELIST/ N /

(C is replaced by the erroneous character, V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_SUBSCRIPT_OUT_OF_RANGE = 202

Subscript (I) out of range in input for object V of NAMELIST/ N /

(I is replaced by the erroneous subscript value, V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_ZERO_SIZE_INPUT = 203

Array section has zero size in input for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_ZERO_STRIDE = 204

Section stride has value zero in input for object V of NAMELIST/ N /

(V is replaced by the object name, N is replaced by the namelist group name).

Integer,Parameter :: IOERR_NO_NAMELIST_GROUP_NAME = 205

Missing namelist group name in input of NAMELIST/ N /

(N is replaced by the namelist group name).

Integer,Parameter :: IOERR_INPUT_LIST_TOO_BIG = 206

Input list bigger than record length in unformatted READ on unit N
(N is replaced by the unit number).

Integer,Parameter :: IOERR_RECORD_TOO_SHORT = 207

Record too short for format requirement and PAD='NO' on unit N
(N is replaced by the unit number).

Integer,Parameter :: IOERR_CORRUPT_UNFORMATTED_FILE = 208

Unformatted data file open on unit N is corrupt
(N is replaced by the unit number).

Integer,Parameter :: IOERR_TRUNCATE_FAILED = 209

File truncation on unit N failed
(N is replaced by the unit number).

Integer,Parameter :: IOERR_RW_AFTER_ENDFILE = 210

READ/WRITE attempted after ENDFILE on unit N
(N is replaced by the unit number).

Integer,Parameter :: IOERR_INTEGER64_TOO_BIG = 211

Input value too large for 64-bit integer

Integer,Parameter :: IOERR_NO_FILE_WITH_REPLACE = 212

No FILE= specifier with STATUS='REPLACE'

Integer,Parameter :: IOERR_RECL_LE_ZERO = 213

Invalid value for RECL= specifier (must be positive)

Integer,Parameter :: IOERR_END_OF_DIRECT_ACCESS = 214

READ beyond end of direct access file on unit N
(N is replaced by the unit number).

Integer,Parameter :: IOERR_REAL_INPUT_OVERFLOW = 215

Floating overflow on real number input

Integer,Parameter :: IOERR_DIRECT_POSITION_INCOMPAT = 216

Direct access is incompatible with the POSITION= specifier.

Integer,Parameter :: IOERR_SCALE_FOLLOVED_BY_REPEAT = 217

Scale factors cannot be followed by repeat count in format specification.

Integer,Parameter :: IOERR_RECL_WITH_STREAM_ACCESS = 218

RECL= specifier with ACCESS='STREAM'.

Integer,Parameter :: IOERR_BACKSPACE_OF_UNF_STREAM = 219

Cannot BACKSPACE unformatted ACCESS='STREAM' unit *N*
(*N* is replaced by the unit number).

Integer,Parameter :: IOERR_BAD_ADVANCE = 220

ADVANCE= specifier must be 'YES' or 'NO'.

Integer,Parameter :: IOERR_SIZE_WITHOUT_NONADVANCING = 221

SIZE= is not valid without ADVANCE='NO'.

Integer,Parameter :: IOERR_BAD_DECIMAL = 222

DECIMAL= specifier must be 'POINT' or 'COMMA'.

Integer,Parameter :: IOERR_BAD_ROUND = 223

Invalid value for ROUND= specifier.

Integer,Parameter :: IOERR_BAD_SIGN = 224

SIGN= specifier must be 'PROCESSOR_DEFINED', 'PLUS' or 'SUPPRESS'.

Integer,Parameter :: IOERR_BAD_ASYNCHRONOUS = 225

ASYNCHRONOUS= specifier must be 'NO' or 'YES'.

Integer,Parameter :: IOERR_BAD_ENCODING = 226

Invalid value for ENCODING= specifier.

Integer,Parameter :: IOERR_PENDING_BUT_NOT_ASYNC = 227

PENDING= specifier but unit *N* is not open for ASYNCHRONOUS i/o
(*N* is replaced by the unit number).

Integer,Parameter :: IOERR_POS_BUT_NOT_STREAM = 228

POS= specifier but unit *N* is not open for STREAM i/o
(*N* is replaced by the unit number).

Integer,Parameter :: IOERR_BAD_POS = 229

Invalid value for POS= specifier.

Integer,Parameter :: IOERR_DIFFERENT_ASYNCHRONOUS = 230

OPEN on connected unit *N* has different ASYNCHRONOUS= specifier
(*N* is replaced by the unit number).

Integer,Parameter :: IOERR_DELIM_on_unformatted_OPEN = 231

DELIM= specifier in OPEN for an UNFORMATTED file.

Integer,Parameter :: IOERR_PAD_on_unformatted_OPEN = 232

PAD= specifier in OPEN for an UNFORMATTED file.

Integer,Parameter :: IOERR_WAIT_WITH_ID_BUT_FILE_IS_NOT_ASYNC = 233

WAIT with ID= but unit is open with ASYNCHRONOUS='NO'

Integer,Parameter :: IOERR_WAIT_WITH_ID_BUT_NO_CONNECTION = 234

WAIT with ID= but unit is not connected to a file.

Integer,Parameter :: IOERR_INVALID_VALUE_FOR_ID_SPECIFIER = 235

Invalid value *N* for ID= specifier
(*N* is replaced by the bad value).

Integer,Parameter :: IOERR_BAD_CONVERT_SPECIFIER = 236

Invalid value for CONVERT= specifier.

Integer,Parameter :: IOERR_CONVERT_on_formatted_OPEN = 237

CONVERT= specifier in OPEN for a FORMATTED file.

Integer,Parameter :: IOERR_CONVERT_SPECIFIER_MODE_NOT_SUPPORTED = 238

Specified CONVERT= mode is not supported.

Integer,Parameter :: IOERR_ENCODING_ERROR = 239

Contents of formatted file are not valid for the current ENCODING.

Integer,Parameter :: IOERR_NO_NEWUNIT_AVAILABLE = 240

No unit available for NEWUNIT= specifier.

Integer,Parameter :: IOERR_NEWUNIT_BUT_NO_FILE_AND_NOT_STATUS_SCRATCH = 241

NEWUNIT= specifier but no FILE= and STATUS= value is not 'SCRATCH'.

Integer,Parameter :: IOERR_INQUIRE_INTERNAL_UNIT = 242

INQUIRE on a unit number that identifies an internal file.

Integer,Parameter :: IOERR_NESTED_FORMAT_ITEM_LIST_IS_EMPTY = 243

Nested format-item-list is empty.

Integer,Parameter :: IOERR_NO_LPAREN_AFTER_UNLIMITED_STAR = 244

No left parenthesis after unlimited repeat factor '*'.

Integer,Parameter :: IOERR_NO_DATA_EDIT_IN_UNLIMITED_FORMAT_ITEM = 245

No data edit descriptor in unlimited format item.

Integer,Parameter :: IOERR_UNLIMITED_FORMAT_ITEM_IS_NOT_THE_LAST = 246

Unlimited format item is not the last item.

Integer,Parameter :: IOERR_UNLIMITED_FORMAT_ITEM_APPEARS_IN_NESTED = 247

Unlimited format item appears in nested format item.

Integer,Parameter :: IOERR_BAD_EDIT_1C_FOR_2C_ITEM = 248

Invalid edit descriptor *fmt-field* for *type* input/output item.

```
Integer,Parameter :: IOERR_UNEXPECTED_EXPONENT_FOR_G0 = 249
```

Unexpected exponent for G0 edit descriptor.

```
Integer,Parameter :: IOERR_REPEAT_FOR_ROUNDING = 250
```

Repeat factor given for rounding edit descriptor.

```
Integer,Parameter :: IOERR_OPERATING_SYSTEM_ERROR = 251
```

Operating System reported error.

```
Integer,Parameter :: IOERR_WRITE_FAILED_MYSTEROUSLY = 252
```

WRITE operation failed mysteriously.

```
Integer,Parameter :: IOERR_MISSING_COMPONENT_NAME_AFTER_PERCENT = 253
```

Missing component name after %.

```
Integer,Parameter :: IOERR_ASYNC_NOT_PERMITTED = 254
```

ASYNCHRONOUS='YES' is not permitted for this unit.

```
Integer,Parameter :: IOERR_ASYNCHRONOUS_DEFINED_INPUT_OUTPUT = 256
```

ASYNCHRONOUS='YES' cannot be used for defined input/output.

```
Integer,Parameter :: IOERR_POS_IN_CHILD_DATA_TRANSFER = 257
```

POS= specifier in child data transfer statement.

```
Integer,Parameter :: IOERR_REC_IN_CHILD_DATA_TRANSFER = 258
```

REC= specifier in child data transfer statement.

```
Integer,Parameter :: IOERR_UNTERMINATED_DT_STRING = 259
```

Unterminated DT edit descriptor string.

```
Integer,Parameter :: IOERR_INVALID_CHAR_IN_DT_V_LIST = 260
```

Invalid non-digit character in DT v_list (not a digit, comma, or right parenthesis).

`Integer,Parameter :: IOERR_UNTERMINATED_DT_V_LIST = 261`

Unterminated DT v_list (missing right parenthesis).

`Integer,Parameter :: IOERR_BACKSPACE_OF_DEFINED_IO_UNIT = 262`

BACKSPACE of defined input/output unit.

`Integer,Parameter :: IOERR_CLOSE_OF_DEFINED_IO_UNIT = 263`

CLOSE of defined input/output unit.

`Integer,Parameter :: IOERR_ENDFILE_OF_DEFINED_IO_UNIT = 264`

ENDFILE of defined input/output unit.

`Integer,Parameter :: IOERR_OPEN_OF_DEFINED_IO_UNIT = 265`

OPEN of defined input/output unit.

`Integer,Parameter :: IOERR_REWIND_OF_DEFINED_IO_UNIT = 266`

REWIND of defined input/output unit.

5 Notes

The source code for this module may be found in the NAG Fortran runtime library directory (usually `/usr/local/lib/NAG_Fortran`).

6 See Also

`nagfor(1)`, `nag_modules(3)`.

7 Bugs

Please report any bugs found to ‘support@nag.co.uk’ or ‘support@nag.com’, along with any suggestions for improvements.