
Run-Time Error Messages

Table A-1 lists possible Fortran run-time I/O errors. Other errors given by the operating system may also occur (refer to the `intro(2)` and `perror(3F)` reference pages for details).

Each error is listed on the screen alone or with one of the following phrases appended to it:

apparent state: unit *num* named *user filename*

last format: *string*

lately (reading, writing) (sequential, direct, indexed)

formatted, unformatted (external, internal) IO

When the Fortran run-time system detects an error, the following actions take place:

- A message describing the error is written to the standard error unit (Unit 0).
- A core file, which can be used with *dbx* (the debugger) to inspect the state of the program at termination, is produced if the `f77_dump_flag` environment variable is defined and set to `y`.

When a run-time error occurs, the program terminates with one of the error messages shown in Table A-1. The errors are output in the format *user filename : message*.

Table A-1 Run-Time Error Messages

Number	Message/Cause
100	error in format Illegal characters are encountered in FORMAT statement.
101	out of space for I/O unit table Out of virtual space that can be allocated for the I/O unit table.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
102	formatted io not allowed Cannot do formatted I/O on logical units opened for unformatted I/O.
103	unformatted io not allowed Cannot do unformatted I/O on logical units opened for formatted I/O.
104	direct io not allowed Cannot do direct I/O on sequential file.
106	can't backspace file Cannot perform BACKSPACE/REWIND on file.
107	null file name Filename specification in OPEN statement is null.
108	can't stat file The directory information for the file is not accessible.
109	file already connected The specified filename has already been opened as a different logical unit.
110	off end of record Attempt to do I/O beyond the end of the record.
112	incomprehensible list input Input data for list-directed read contains invalid character for its data type.
113	out of free space Cannot allocate virtual memory space on the system.
114	unit not connected Attempt to do I/O on unit that has not been opened or cannot be opened.
115	read unexpected character Unexpected character encountered in formatted or directed read.
116	blank logical input field Invalid character encountered for logical value.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
117	bad variable type Specified type for the namelist element is invalid. This error is most likely caused by incompatible versions of the front end and the run-time I/O library.
118	bad namelist name The specified namelist name cannot be found in the input data file.
119	variable not in namelist The namelist variable name in the input data file does not belong to the specified namelist.
120	no end record \$END is not found at the end of the namelist input data file.
121	namelist subscript out of range The array subscript of the character substring value in the input data file exceeds the range for that array or character string.
122	negative repeat count The repeat count in the input data file is less than or equal to zero.
123	illegal operation for unit You cannot set your own buffer on direct unformatted files.
124	off beginning of record Format edit descriptor causes positioning to go off the beginning of the record.
125	no * after repeat count An asterisk (*) is expected after an integer repeat count.
126	'new' file exists The file is opened as new but already exists.
127	can't find 'old' file The file is opened as old but does not exist.
128	unknown system error An unexpected error was returned by IRIX.
129	requires seek ability The file is on a device that cannot do direct access.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
130	illegal argument Invalid value in the I/O control list.
131	duplicate key value on write Cannot write a key that already exists.
132	indexed file not open Cannot perform indexed I/O on an unopened file.
133	bad isam argument The indexed I/O library function receives a bad argument because of a corrupted index file or bad run-time I/O libraries.
134	bad key description The key description is invalid.
135	too many open indexed files Cannot have more than 32 open indexed files.
136	corrupted isam file The indexed file format is not recognizable. This error is usually caused by a corrupted file.
137	isam file not opened for exclusive access Cannot obtain lock on the indexed file.
138	record locked The record has already been locked by another process.
138	key already exists The key specification in the OPEN statement has already been specified.
140	cannot delete primary key DELETE cannot be executed on a primary key.
141	beginning or end of file reached The index for the specified key points beyond the length of the indexed data file. This error is probably because of corrupted ISAM files or a bad indexed I/O run-time library.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
142	cannot find request record The requested key for indexed READ does not exist.
143	current record not defined Cannot execute REWRITE, UNLOCK, or DELETE before doing a READ to define the current record.
144	isam file is exclusively locked The indexed file has been exclusively locked by another process.
145	filename too long The indexed filename exceeds 128 characters.
148	key structure does not match file structure Mismatch between the key specifications in the OPEN statement and the indexed file.
149	direct access on an indexed file not allowed Cannot have direct-access I/O on an indexed file.
150	keyed access on a sequential file not allowed Cannot specify keyed access together with sequential organization.
151	keyed access on a relative file not allowed Cannot specify keyed access together with relative organization.
152	append access on an indexed file not allowed Cannot specify append access together with indexed organization.
153	must specify record length A record length specification is required when opening a direct or keyed access file.
154	key field value type does not match key type The type of the given key value does not match the type specified in the OPEN statement for that key.
155	character key field value length too long The length of the character key value exceeds the length specification for that key.
156	fixed record on sequential file not allowed RECORDTYPE='fixed' cannot be used with a sequential file.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
157	variable records allowed only on unformatted sequential file RECORDTYPE=' variable' can only be used with an unformatted sequential file.
158	stream records allowed only on formatted sequential file RECORDTYPE=' stream_lf' can only be used with a formatted sequential file.
159	maximum number of records in direct access file exceeded The specified record is bigger than the MAXREC= value used in the OPEN statement.
160	attempt to create or write to a read-only file User does not have write permission on the file.
161	must specify key descriptions Must specify all the keys when opening an indexed file.
162	carriage control not allowed for unformatted units CARRIAGECONTROL specifier can be used only on a formatted file.
163	indexed files only Indexed I/O can be done only on logical units that have been opened for indexed (keyed) access.
164	cannot use on indexed file Illegal I/O operation on an indexed (keyed) file.
165	cannot use on indexed or append file Illegal I/O operation on an indexed (keyed) or append file.
167	invalid code in format specification Unknown code is encountered in format specification.
168	invalid record number in direct access file The specified record number is less than 1.
169	cannot have endfile record on non-sequential file Cannot have an endfile on a direct- or keyed-access file.
170	cannot position within current file Cannot perform fseek() on a file opened for sequential unformatted I/O.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
171	cannot have sequential records on direct access file Cannot do sequential formatted I/O on a file opened for direct access.
173	cannot read from stdout Attempt to read from stdout.
174	cannot write to stdin Attempt to write to stdin.
175	stat call failed in f77inode The directory information for the file is unreadable.
176	illegal specifier The I/O control list contains an invalid value for one of the I/O specifiers. For example, ACCESS='INDEXED'.
180	attempt to read from a writeonly file User does not have read permission on the file.
181	direct unformatted io not allowed Direct unformatted file cannot be used with this I/O operation.
182	cannot open a directory The name specified in FILE= must be the name of a file, not a directory.
183	subscript out of bounds The exit status returned when a program compiled with the -C option has an array subscript that is out of range.
184	function not declared as varargs Variable argument routines called in subroutines that have not been declared in a \$VARARGS directive.
185	internal error Internal run-time library error.
186	Illegal input character in formatted read. The numeric input field in a formatted file contains non-blank characters beyond the maximum usable field width of 83 characters.

Table A-1 (continued) Run-Time Error Messages

Number	Message/Cause
187	Position specifier is allowed on sequential files only Cannot have a position specifier in a format statement for a non-sequential file.
188	Position specifier has an illegal value The position specifier has a value that does not make sense.
189	Out of memory The system is out of memory for allocation. Try to allocate more swap space.
195	Cannot keep a file opened as a scratch file. If a file is opened as a scratch file, it cannot be kept when closed, and is automatically deleted.
