

:mod:`stat` --- Interpreting :func:`~os.stat` results

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 1); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 1); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 4)

Unknown directive type "module".

```
.. module:: stat
   :synopsis: Utilities for interpreting the results of os.stat(),
             os.lstat() and os.fstat().
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 8)

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Skip Montanaro <skip@automatrix.com>
```

Source code: :source:`Lib/stat.py`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 10); [backlink](#)

Unknown interpreted text role "source".

The :mod:`stat` module defines constants and functions for interpreting the results of :func:`os.stat`, :func:`os.fstat` and :func:`os.lstat` (if they exist). For complete details about the :c:func:`stat`, :c:func:`fstat` and :c:func:`lstat` calls, consult the documentation for your system.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 14); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 14); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 14); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 14); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] stat.rst, line 14); [backlink](#)

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 14); [backlink](#)

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 14); [backlink](#)

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 19)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.4
   The stat module is backed by a C implementation.
```

The `mod:stat` module defines the following functions to test for specific file types:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 22); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 26)

Unknown directive type "function".

```
.. function:: S_ISDIR(mode)

   Return non-zero if the mode is from a directory.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 31)

Unknown directive type "function".

```
.. function:: S_ISCHR(mode)

   Return non-zero if the mode is from a character special device file.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 36)

Unknown directive type "function".

```
.. function:: S_ISBLK(mode)

   Return non-zero if the mode is from a block special device file.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 41)

Unknown directive type "function".

```
.. function:: S_ISREG(mode)

   Return non-zero if the mode is from a regular file.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 46)

Unknown directive type "function".

```
.. function:: S_ISFIFO(mode)

    Return non-zero if the mode is from a FIFO (named pipe).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 51)

Unknown directive type "function".

```
.. function:: S_ISLNK(mode)

    Return non-zero if the mode is from a symbolic link.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 56)

Unknown directive type "function".

```
.. function:: S_ISSOCK(mode)

    Return non-zero if the mode is from a socket.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 60)

Unknown directive type "function".

```
.. function:: S_ISDOOR(mode)

    Return non-zero if the mode is from a door.

.. versionadded:: 3.4
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 66)

Unknown directive type "function".

```
.. function:: S_ISPORT(mode)

    Return non-zero if the mode is from an event port.

.. versionadded:: 3.4
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 72)

Unknown directive type "function".

```
.. function:: S_ISWHT(mode)

    Return non-zero if the mode is from a whiteout.

.. versionadded:: 3.4
```

Two additional functions are defined for more general manipulation of the file's mode:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 82)

Unknown directive type "function".

```
.. function:: S_IMODE(mode)
```

Return the portion of the file's mode that can be set by
:func:`os.chmod` ---that is, the file's permission bits, plus the sticky
bit, set-group-id, and set-user-id bits (on systems that support them).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 89)

Unknown directive type "function".

```
.. function:: S_IFMT(mode)
```

Return the portion of the file's mode that describes the file type (used by the
:func:`S_IS` functions above).

Normally, you would use the :func:`os.path.is*` functions for testing the type of a file; the functions here are useful when you are doing multiple tests of the same file and wish to avoid the overhead of the :c:func:`stat` system call for each test. These are also useful when checking for information about a file that isn't handled by :mod:`os.path`, like the tests for block and character devices.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 94); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 94); [backlink](#)

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 94); [backlink](#)

Unknown interpreted text role "mod".

Example:

```
import os, sys
from stat import *

def walktree(top, callback):
    '''recursively descend the directory tree rooted at top,
    calling the callback function for each regular file'''

    for f in os.listdir(top):
        pathname = os.path.join(top, f)
        mode = os.lstat(pathname).st_mode
        if S_ISDIR(mode):
            # It's a directory, recurse into it
            walktree(pathname, callback)
        elif S_ISREG(mode):
            # It's a file, call the callback function
            callback(pathname)
        else:
            # Unknown file type, print a message
            print('Skipping %s' % pathname)

def visitfile(file):
    print('visiting', file)

if __name__ == '__main__':
    walktree(sys.argv[1], visitfile)
```

An additional utility function is provided to convert a file's mode in a human readable string:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 132)

Unknown directive type "function".

```
.. function:: filemode(mode)
```

```
Convert a file's mode to a string of the form '-rwxrwxrwx'.

.. versionadded:: 3.3

.. versionchanged:: 3.4
    The function supports :data:`S_IFDOOR`, :data:`S_IFPORT` and
    :data:`S_IFWHT`.
```

All the variables below are simply symbolic indexes into the 10-tuple returned by `func.stat`, `func.fstat` or `func.lstat`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 143); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 143); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 143); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 147)

Unknown directive type "data".

```
.. data:: ST_MODE

    Inode protection mode.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 152)

Unknown directive type "data".

```
.. data:: ST_INO

    Inode number.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 157)

Unknown directive type "data".

```
.. data:: ST_DEV

    Device inode resides on.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ [cpython-main] [Doc] [library] stat.rst, line 162)

Unknown directive type "data".

```
.. data:: ST_NLINK

    Number of links to the inode.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 167)

Unknown directive type "data".

```
.. data:: ST_UID
```

User id of the owner.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 172)

Unknown directive type "data".

```
.. data:: ST_GID
```

Group id of the owner.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 177)

Unknown directive type "data".

```
.. data:: ST_SIZE
```

Size in bytes of a plain file; amount of data waiting on some special files.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 182)

Unknown directive type "data".

```
.. data:: ST_ATIME
```

Time of last access.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 187)

Unknown directive type "data".

```
.. data:: ST_MTIME
```

Time of last modification.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 192)

Unknown directive type "data".

```
.. data:: ST_CTIME
```

The "ctime" as reported by the operating system. On some systems (like Unix) is the time of the last metadata change, and, on others (like Windows), is the creation time (see platform documentation for details).

The interpretation of "file size" changes according to the file type. For plain files this is the size of the file in bytes. For FIFOs and sockets under most flavors of Unix (including Linux in particular), the "size" is the number of bytes waiting to be read at the time of the call to :func:`os.stat`, :func:`os.fstat`, or :func:`os.lstat`; this can sometimes be useful, especially for polling one of these special files after a non-blocking open. The meaning of the size field for other character and block devices varies more, depending on the implementation of the underlying system call.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 198); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 198); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 198); [backlink](#)

Unknown interpreted text role "func".

The variables below define the flags used in the `:data:ST_MODE` field.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 207); [backlink](#)

Unknown interpreted text role "data".

Use of the functions above is more portable than use of the first set of flags:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 211)

Unknown directive type "data".

```
.. data:: S_IFSOCK

    Socket.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 215)

Unknown directive type "data".

```
.. data:: S_IFLNK

    Symbolic link.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 219)

Unknown directive type "data".

```
.. data:: S_IFREG

    Regular file.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 223)

Unknown directive type "data".

```
.. data:: S_IFBLK

    Block device.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 227)

Unknown directive type "data".

```
.. data:: S_IFDIR
```

Directory.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 231)

Unknown directive type "data".

```
.. data:: S_IFCHR

    Character device.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 235)

Unknown directive type "data".

```
.. data:: S_FIFO

    FIFO.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 239)

Unknown directive type "data".

```
.. data:: S_IFDOOR

    Door.

.. versionadded:: 3.4
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 245)

Unknown directive type "data".

```
.. data:: S_IFPORT

    Event port.

.. versionadded:: 3.4
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 251)

Unknown directive type "data".

```
.. data:: S_IFWHT

    Whiteout.

.. versionadded:: 3.4
```

Note

`:data:`S_IFDOOR``, `:data:`S_IFPORT`` or `:data:`S_IFWHT`` are defined as 0 when the platform does not have support for the file types.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 259); [backlink](#)

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line

259); [backlink](#)

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 259); [backlink](#)

Unknown interpreted text role "data".

The following flags can also be used in the *mode* argument of `func.os.chmod`:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 262); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 264)

Unknown directive type "data".

```
.. data:: S_ISUID

Set UID bit.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 268)

Unknown directive type "data".

```
.. data:: S_ISGID

Set-group-ID bit. This bit has several special uses. For a directory
it indicates that BSD semantics is to be used for that directory:
files created there inherit their group ID from the directory, not
from the effective group ID of the creating process, and directories
created there will also get the :data:`S_ISGID` bit set. For a
file that does not have the group execution bit (:data:`S_IXGRP`)
set, the set-group-ID bit indicates mandatory file/record locking
(see also :data:`S_ENFMT`).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 279)

Unknown directive type "data".

```
.. data:: S_ISVTX

Sticky bit. When this bit is set on a directory it means that a file
in that directory can be renamed or deleted only by the owner of the
file, by the owner of the directory, or by a privileged process.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 285)

Unknown directive type "data".

```
.. data:: S_IRWXU

Mask for file owner permissions.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\cpython-main [Doc] [library]stat.rst, line 289)

Unknown directive type "data".

```
.. data:: S_IRUSR

    Owner has read permission.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 293)

Unknown directive type "data".

```
.. data:: S_IWUSR

    Owner has write permission.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 297)

Unknown directive type "data".

```
.. data:: S_IXUSR

    Owner has execute permission.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 301)

Unknown directive type "data".

```
.. data:: S_IRWXG

    Mask for group permissions.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 305)

Unknown directive type "data".

```
.. data:: S_IRGRP

    Group has read permission.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 309)

Unknown directive type "data".

```
.. data:: S_IWGRP

    Group has write permission.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 313)

Unknown directive type "data".

```
.. data:: S_IXGRP

    Group has execute permission.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 317)

Unknown directive type "data".

```
.. data:: S_IRWXO

    Mask for permissions for others (not in group).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 321)

Unknown directive type "data".

```
.. data:: S_IROTH
```

Others have read permission.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 325)

Unknown directive type "data".

```
.. data:: S_IWOTH
```

Others have write permission.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 329)

Unknown directive type "data".

```
.. data:: S_IXOTH
```

Others have execute permission.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 333)

Unknown directive type "data".

```
.. data:: S_ENFMT
```

System V file locking enforcement. This flag is shared with :data:`S_ISGID`: file/record locking is enforced on files that do not have the group execution bit (:data:`S_IXGRP`) set.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 339)

Unknown directive type "data".

```
.. data:: S_IREAD
```

Unix V7 synonym for :data:`S_IRUSR`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 343)

Unknown directive type "data".

```
.. data:: S_IWRITE
```

Unix V7 synonym for :data:`S_IWUSR`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 347)

Unknown directive type "data".

```
.. data:: S_IEXEC
```

Unix V7 synonym for :data:`S_IXUSR`.

The following flags can be used in the *flags* argument of `func:os.chflags`:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 351); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 353)

Unknown directive type "data".

```
.. data:: UF_NODUMP

    Do not dump the file.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 357)

Unknown directive type "data".

```
.. data:: UF_IMMUTABLE

    The file may not be changed.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 361)

Unknown directive type "data".

```
.. data:: UF_APPEND

    The file may only be appended to.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 365)

Unknown directive type "data".

```
.. data:: UF_OPAQUE

    The directory is opaque when viewed through a union stack.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 369)

Unknown directive type "data".

```
.. data:: UF_NOUNLINK

    The file may not be renamed or deleted.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 373)

Unknown directive type "data".

```
.. data:: UF_COMPRESSED

    The file is stored compressed (macOS 10.6+).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 377)

Unknown directive type "data".

```
.. data:: UF_HIDDEN

    The file should not be displayed in a GUI (macOS 10.5+).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 381)

Unknown directive type "data".

```
.. data:: SF_ARCHIVED
```

The file may be archived.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 385)

Unknown directive type "data".

```
.. data:: SF_IMMUTABLE
```

The file may not be changed.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 389)

Unknown directive type "data".

```
.. data:: SF_APPEND
```

The file may only be appended to.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 393)

Unknown directive type "data".

```
.. data:: SF_NOUNLINK
```

The file may not be renamed or deleted.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 397)

Unknown directive type "data".

```
.. data:: SF_SNAPSHOT
```

The file is a snapshot file.

See the *BSD or macOS systems man page `manpage:chflags(2)` for more information.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 401); [backlink](#)

Unknown interpreted text role "manpage".

On Windows, the following file attribute constants are available for use when testing bits in the `st_file_attributes` member returned by `:func:`os.stat``. See the [Windows API documentation](#) for more detail on the meaning of these constants.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 403); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]stat.rst, line 409)

Unknown directive type "data".

```
.. data:: FILE_ATTRIBUTE_ARCHIVE
```

```
FILE_ATTRIBUTE_COMPRESSED
FILE_ATTRIBUTE_DEVICE
FILE_ATTRIBUTE_DIRECTORY
FILE_ATTRIBUTE_ENCRYPTED
FILE_ATTRIBUTE_HIDDEN
FILE_ATTRIBUTE_INTEGRITY_STREAM
FILE_ATTRIBUTE_NORMAL
FILE_ATTRIBUTE_NOT_CONTENT_INDEXED
FILE_ATTRIBUTE_NO_SCRUB_DATA
FILE_ATTRIBUTE_OFFLINE
FILE_ATTRIBUTE_READONLY
FILE_ATTRIBUTE_REPARSE_POINT
FILE_ATTRIBUTE_SPARSE_FILE
FILE_ATTRIBUTE_SYSTEM
FILE_ATTRIBUTE_TEMPORARY
FILE_ATTRIBUTE_VIRTUAL
```

```
.. versionadded:: 3.5
```

On Windows, the following constants are available for comparing against the `st_reparse_tag` member returned by `:func:`os.lstat``. These are well-known constants, but are not an exhaustive list.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 429); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]stat.rst, line 433)

Unknown directive type "data".

```
.. data:: IO_REPARSE_TAG_SYMLINK
          IO_REPARSE_TAG_MOUNT_POINT
          IO_REPARSE_TAG_APPEXECLINK
```

```
.. versionadded:: 3.8
```