

## Op:sys\_statvfs.h

sys/statvfs.h - VFS File System information structure

```
#include <sys/statvfs.h>
```

**Contents** [1 DESCRIPTION](#) [2 APPLICATION USAGE](#) [3 RATIONALE](#) [4 FUTURE DIRECTIONS](#) [5 RELATED](#)  
[6 COPYRIGHT](#) [7 CATEGORY](#)

### DESCRIPTION

The `<sys/statvfs.h>` header shall define the `statvfs` structure that includes at least the following members:

<code>unsigned long</code>	<code>f_bsize</code>	File system block size.
<code>unsigned long</code>	<code>f_frsize</code>	Fundamental file system block size.
<code>fsblkcnt_t</code>	<code>f_blocks</code>	Total number of blocks on file system in units of <code>f_frsize</code> .
<code>fsblkcnt_t</code>	<code>f_bfree</code>	Total number of free blocks.
<code>fsblkcnt_t</code>	<code>f_bavail</code>	Number of free blocks available to non-privileged process.
<code>fsfilcnt_t</code>	<code>f_files</code>	Total number of file serial numbers.
<code>fsfilcnt_t</code>	<code>f_ffree</code>	Total number of free file serial numbers.
<code>fsfilcnt_t</code>	<code>f_favail</code>	Number of file serial numbers available to non-privileged process.
<code>unsigned long</code>	<code>f_fsid</code>	File system ID.
<code>unsigned long</code>	<code>f_flag</code>	Bit mask of <code>f_flag</code> values.
<code>unsigned long</code>	<code>f_namemax</code>	Maximum filename length.

The `fsblkcnt_t` and `fsfilcnt_t` types shall be defined as described in `<sys/types.h>` .

The following flags for the `f_flag` member shall be defined:

```
ST_RDONLY
```

Read-only file system.

ST\_NOSUID

Does not support the semantics of the ST\_ISUID and ST\_ISGID file mode bits.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```
int statvfs(const char *restrict, struct statvfs *restrict);
int fstatvfs(int, struct statvfs *);
```

*The following sections are informative.*

#### **APPLICATION USAGE**

None.

#### **RATIONALE**

None.

#### **FUTURE DIRECTIONS**

None.

#### **RELATED**

<*sys/types.h*> , the System Interfaces volume of IEEE Std 1003.1-2001, *fstatvfs()*, *statvfs()*

#### **COPYRIGHT**

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1, 2003 Edition, Standard for Information Technology -- Portable Operating System Interface (POSIX), The Open Group Base Specifications Issue 6, Copyright (C) 2001-2003 by the Institute of Electrical and Electronics Engineers, Inc and The Open Group. In the event of any discrepancy between this version and the original IEEE and The Open Group Standard, the original IEEE and The Open Group Standard is the referee document. The original Standard can be obtained online at <http://www.opengroup.org/unix/online.html> .

IEEE/The Open Group 2003 <sys/statvfs.h>(P)