

Op:statvfs.h

sys/statvfs.h - VFS File System information structure

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

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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()*

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