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The Open Group Base Specifications Issue 7, 2018 edition IEEE Std 1003.1-2017 (Revision of IEEE Std 1003.1-2008) Copyright © 2001-2018 IEEE and The Open Group

NAME

sys/statvfs.h - VFS File System information structure

SYNOPSIS

#include <sys/statvfs.h>

DESCRIPTION

The <sys/statvfs.h> header shall define the **statvfs** structure, which shall include at least the following members:

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

The <sys/statvfs.h> header shall define the **fsblkcnt_t** and **fsfilcnt_t** types as described in <sys/types.h>.

The $\langle sys/statvfs.h \rangle$ header shall define the following symbolic constants for the f_flag member:

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

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

<sys/types.h>

XSH <u>fstatvfs</u>

CHANGE HISTORY

First released in Issue 4, Version 2.

Issue 5

The type of f_blocks , f_bfree , and f_bavail is changed from unsigned long to fsblkcnt_t; the type of f_files , f_ffree , and f_favail is changed from unsigned long to fsfilcnt_t.

Issue 6

The Open Group Corrigendum U035/5 is applied. In the DESCRIPTION, the types **fsblkcnt_t** and **fsfilcnt_t** have been described.

The **restrict** keyword is added to the prototype for <u>statufs()</u>.

IEEE Std 1003.1-2001/Cor 1-2002, item XBD/TC1/D6/18 is applied, changing the description of ST_NOSUID from ''Does not support <u>setuid()</u>/ <u>setgid()</u> semantics'' to ''Does not support the semantics of the ST_ISUID and ST_ISGID file mode bits''.

Issue 7

The <sys/statvfs.h> header is moved from the XSI option to the Base.

This reference page is clarified with respect to macros and symbolic constants.

End of informative text.

return to top of page

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[Main Index | XBD | XSH | XCU | XRAT]

<<< Previous Home Next >>>