**NAME** 

```
sg_get_fs_stats - get filesystem statistics
```

### **SYNOPSIS**

```
#include <statgrab.h>
sg_fs_stats *sg_get_fs_stats(int *entries);
```

### **DESCRIPTION**

The sg\_get\_fs\_stats takes a pointer to an int, entries, which is filled with the number of mounted file systems the machine has. The return value is a pointer to the first member of an array of sg\_fs\_stats structures; the number of entries in the array is returned in entries.

The function returns statistics about mounted filesystems, including free space and inode usage.

# **RETURN VALUES**

sg\_get\_fs\_stats returns a pointer to a structure of type sg\_fs\_stats.

```
typedef struct {
    char *device_name;
    char *fs_type;
    char *mnt_point;
    long long size;
    long long used;
    long long avail;
    long long total_inodes;
    long long used_inodes;
    long long free_inodes;
    long long avail inodes;
    long long io_size;
    long long block size;
    long long total_blocks;
    long long free_blocks;
    long long used_blocks;
    long long avail blocks;
} sg_fs_stats;
device_name
        The name known to the operating system. (eg. on linux it might be hda)
fs_type The type of the filesystem.
mnt_point
        The mount point of the file system.
        The size, in bytes, of the file system.
size
        The amount of space, in bytes, used on the filesystem.
used
avail
        The amount of space, in bytes, available on the filesystem.
total inodes
        The total number of inodes in the filesystem.
used inodes
        The number of used inodes in the filesystem.
free_inodes
        The number of free inodes in the filesystem.
```

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avail\_inodes

The number of free inodes available to non-privileged processes.

io\_size A suggested optimal block size for IO operations — if you're reading or writing lots of data, do it in chunks of this size.

block\_size

How big blocks actually are on the underlying fi lesystem (typically for purposes of stats reporting).

total\_blocks

The total number of blocks in the fi lesystem.

free\_blocks

The number of free blocks in the fi lesystem.

used\_blocks

The number of used blocks in the fi lesystem.

avail blocks

The number of free blocks available to non-privileged processes.

# **SEE ALSO**

statgrab(3)

# **WEBSITE**

http://www.i-scream.org/libstatgrab/

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