NAME

libssh2_sftp_statvfs, libssh2_sftp_fstatvfs - get file system statistics

SYNOPSIS

```
#include <libssh2.h>
#include <libssh2_sftp.h>

int
libssh2_sftp_statvfs(LIBSSH2_SFTP *sftp, const char *path,
                     size_t path_len, LIBSSH2_SFTP_STATVFS *st);

int
libssh2_sftp_fstatvfs(LIBSSH2_SFTP_HANDLE *handle,
                      LIBSSH2_SFTP_STATVFS *st)
```

DESCRIPTION

These functions provide statvfs(2)-like operations and require statvfs@openssh.com and fstatvfs@openssh.com extension support on the server.

sftp - SFTP instance as returned by **libssh2_sftp_init(3)**

handle - SFTP File Handle as returned by **libssh2_sftp_open_ex(3)**

path - full path of any file within the mounted file system.

path_len - length of the full path.

st - Pointer to a LIBSSH2_SFTP_STATVFS structure to place file system statistics into.

DATA TYPES

LIBSSH2_SFTP_STATVFS is a typedefed struct that is defined as below

```
struct _LIBSSH2_SFTP_STATVFS {
   libssh2_uint64_t  f_bsize;    /* file system block size */
   libssh2_uint64_t  f_frsize;   /* fragment size */
   libssh2_uint64_t  f_blocks;   /* size of fs in f_frsize units */
   libssh2_uint64_t  f_bfree;    /* # free blocks */
   libssh2_uint64_t  f_bavail;   /* # free blocks for non-root */
   libssh2_uint64_t  f_files;    /* # inodes */
   libssh2_uint64_t  f_ffree;    /* # free inodes */
```

```
  libssh2_uint64_t  f_favail;   /* # free inodes for non-root */
  libssh2_uint64_t  f_fsid;     /* file system ID */
  libssh2_uint64_t  f_flag;     /* mount flags */
  libssh2_uint64_t  f_namemax;  /* maximum filename length */
};
```

It is unspecified whether all members of the returned struct have meaningful values on all file systems.

The field *f_flag* is a bit mask. Bits are defined as follows:

LIBSSH2_SFTP_ST_RDONLY
: Read-only file system.

LIBSSH2_SFTP_ST_NOSUID
: Set-user-ID/set-group-ID bits are ignored by **exec**(3).

RETURN VALUE

Returns 0 on success or negative on failure. If used in non-blocking mode, it returns LIBSSH2_ERROR_EAGAIN when it would otherwise block. While LIBSSH2_ERROR_EAGAIN is a negative number, it is not really a failure per se.

ERRORS

LIBSSH2_ERROR_ALLOC - An internal memory allocation call failed.

LIBSSH2_ERROR_SOCKET_SEND - Unable to send data on socket.

LIBSSH2_ERROR_SOCKET_TIMEOUT -

LIBSSH2_ERROR_SFTP_PROTOCOL - An invalid SFTP protocol response was received on the socket, or an SFTP operation caused an errorcode to be returned by the server.

AVAILABILITY

Added in libssh2 1.2.6

SEE ALSO

libssh2_sftp_open_ex(3)