NAME

rmtstatus, rmtxstatus, _mtg2rmtg, _rmtg2mtg - request MTIOCGET on a connection to a remote tape server (**-lrmt**)

SYNOPSIS

#include <schily/librmt.h>
#include <schily/rmtio.h>

int rmtstatus(int remfd, struct mtget *mtp);

int rmtxstatus(int remfd, struct rmtget *mtp);

void _rmtg2mtg(struct mtget *mtp, struct rmtget *rmtp);

int _mtg2rmtg(struct rmtget *rmtp, struct mtget *mtp);

DESCRIPTION

rmtstatus() and **rmtxstatus()**

perform a MTIOCGET request to the remote server, *remfd* is a file descriptor previously obtained from a call to **rmtgetconn**(3), **struct mtget** is the local magnetic tape status structure, **struct rmtget** is the enhanced magnetic tape status structure from **librmt**. **rmtstatus**(3) and **rmtxstatus**(3) will fail if there was no previous successful **rmtopen**(3) before. **rmtstatus**(3) and **rmtxstatus**(3) take care of using **RMT protocol VERSION 1** if the remote side implements support for protocol version 1. The function **rmtstatus**(3) is outdated and should be avoided as the results in **struct mtget** will be the least common denominator of the local and remote variants of the structure. Use **rmtxstatus**(3) instead. The member **mt_xflags** in **struct rmtget** contains a bitmap that indicates which members of the structure contain valid values. See **mtio(4)** for more information.

_rmtg2mtg()

converts a **struct rmtget** into a **struct mtget**.

_mtg2rmtg()

converts a **struct mtget** into a **struct rmtget** and sets the member **mt_xflags** in **struct rmtget** to contain a bitmap that indicates which members of **struct mtget** are present in the local implementation.

RETURN VALUES

rmtstatus() and **rmtxstatus()**

return a value >= 0 if the remote **ioctl(f, MTIOCGET, struct mtget *)** succeeds.

ERRORS

rmtstatus() and **rmtxstatus()** return -1 on error and set **errno** to the **errno** value retrieved from the remote server.

_mtg2rmtg()

returns -1 if no value from the local **struct mtget** could be converted to the abstract **struct rmtget**.

EXAMPLES

```
int     remfd;
char    *remfn;
char    host[256];
int     iosize = 10240;  /* socket send/receive size to set up */
struct rmtget rmtg;

if ((remfn = rmtfilename(filename)) != NULL) {
        rmthostname(host, sizeof (host), filename);

        if ((remfd = rmtgetconn(host, iosize, 0)) < 0)
                comerrno(EX_BAD, "Cannot get connection to '%s'.\n",
                        /* errno not valid !! */            host);
}

if (rmtopen(remfd, remfn, mode) < 0)
        comerr("Cannot open '%s'.\n", remfn);

if (rmtxstatus(remfd, &rmtg) < 0)
        comerr("Cannot retrieve magnetic tape status from '%s'.\n", remfn);

rmtclose(remfd);
```

SEE ALSO

rmt(1), **rsh**(1), **ssh**(1), **rcmd**(3), **rmtinit**(3), **rmtdebug**(3), **rmtrmt**(3), **rmtrsh**(3), **rmthostname**(3), **rmtfilename**(3), **rmtgetconn**(3), **rmtopen**(3), **rmtioctl**(3), **rmtclose**(3), **rmtread**(3), **rmtwrite**(3), **rmtseek**(3), **rmtxstatus**(3), **rmtstatus**(3), **_mtg2rmtg**(3), **_rmtg2mtg**(3), **errmsgno**(3), **mtio**(4)

BUGS

If local and remote **errno** values do not match, programs may get confused.

Mail other bugs and suggestions to **schilytools@mlists.in-berlin.de** or open a ticket at

https://codeberg.org/schilytools/schilytools/issues.

The mailing list archive may be found at:

https://mlists.in-berlin.de/mailman/listinfo/schilytools-mlists.in-berlin.de.

AUTHORS

librmt has been written in 1990 by Joerg Schilling. In 1995, support for **RMT VERSION 1** has been added. **librmt** is now maintained by the schilytools project authors.

SOURCE DOWNLOAD

The source code for **librmt** is included in the **schilytools** project and may be retrieved from the **schilytools** project at Codeberg at

https://codeberg.org/schilytools/schilytools.

The download directory is

https://codeberg.org/schilytools/schilytools/releases.