NAME

t_rcvuderr – receive a unit data error indication

SYNOPSIS

cc [*flag* ...] *file* ... **–lnsl** [*library* ...]

#include <tiuser.h>

int t_rcvuderr(int *fildes***, struct t_uderr** ∗*uderr***);**

MT-LEVEL

MT-Safe

DESCRIPTION

This function is used in connectionless mode to receive information concerning an error on a previously sent data unit, and should be issued only after a unit data error indication. It informs the transport user that a data unit with a specific destination address and protocol options produced an error. *fildes* identifies the local transport endpoint through which the error report will be received, and *uderr* points to a **t_uderr** structure containing the following members:

```
struct netbuf   addr;
struct netbuf   opt;
long            error;
```

netbuf is described in **t_connect**(3N). The **maxlen** (see **netbuf** in **t_connect**(3N)) field of **addr** and **opt** must be set before issuing this function to indicate the maximum size of the buffer for each.

On return from this call, the **addr** structure specifies the destination protocol address of the erroneous data unit, the **opt** structure identifies protocol-specific options that were associated with the data unit, and **error** specifies a protocol-dependent error code.

If the user does not care to identify the data unit that produced an error, *uderr* may be set to NULL and **t_rcvuderr( )** will simply clear the error indication without reporting any information to the user.

RETURN VALUES

t_rcvuderr( ) returns 0 on successful completion. On failure **t_rcvuderr( )** returns –1, **t_errno** is set to indicate the error, and possibly **errno** is set.

ERRORS

On failure, **t_errno** will be set to one of the following:

TBADF	The specified file descriptor does not refer to a transport endpoint.
TBUFOVFLW	The number of bytes allocated for the incoming protocol address or options is not sufficient to store the information. The unit data error information to be returned in *uderr* will be discarded.
TNOTSUPPORT	This function is not supported by the underlying transport provider.
TNOUDERR	No unit data error indication currently exists on the specified transport endpoint.
TSYSERR	A system error has occurred during execution of this function, **errno** will be set to the specific error.

SEE ALSO

t_connect(3N), **t_rcvudata**(3N), **t_sndudata**(3N)
Transport Interfaces Programming Guide

NOTES

This interface is safe in multithreaded applications.