NAME

t_sndudata – send a data unit

SYNOPSIS

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

#include <tiuser.h>

int t_sndudata(int *fildes***, struct t_unitdata** ∗*unitdata***);**

MT-LEVEL

MT-Safe

DESCRIPTION

This function is used in connectionless mode to send a data unit to another transport user. *fildes* identifies the local transport endpoint through which data will be sent, and *unitdata* points to a **t_unitdata** structure containing the following members:

```
struct netbuf    addr;
struct netbuf    opt;
struct netbuf    udata;
```

netbuf is described in **t_connect**(3N). In *unitdata*, **addr** specifies the protocol address of the destination user, **opt** identifies protocol-specific options that the user wants associated with this request, and **udata** specifies the user data to be sent. The user may choose not to specify what protocol options are associated with the transfer by setting the **len** field of **opt** to zero. In this case, the provider may use default options.

If the **len** field of **udata** is zero, and the sending of zero bytes is not supported by the underlying transport provider, **t_sndudata** will return –1 with **t_errno** set to **TBADDATA**.

By default, **t_sndudata( )** operates in synchronous mode and may wait if flow control restrictions prevent the data from being accepted by the local transport provider at the time the call is made. However, if **O_NDELAY** or **O_NONBLOCK** is set (using **t_open**(3N) or **fcntl**(2)), **t_sndudata( )** will execute in asynchronous mode and will fail under such conditions.

If **t_sndudata( )** is issued from an invalid state, or if the amount of data specified in **udata** exceeds the **TSDU** size as returned in the **tsdu** field of the *info* argument of **t_open**(3N) or **t_getinfo**(3N), the provider will generate an **EPROTO** protocol error. (See **TSYSERR** below.) If the state is invalid, this error may not occur until a subsequent reference is made to the transport endpoint.

RETURN VALUES

t_sndudata( ) returns 0 on successful completion. On failure **t_sndudata( )** 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:

TBADDATA	**nbytes** is zero and sending zero bytes is not supported by the transport provider.
TBADF	The specified file descriptor does not refer to a transport endpoint.
TFLOW]	**O_NDELAY** or **O_NONBLOCK** was set, but the flow control mechanism prevented the transport provider from accepting data at this time.

TNOTSUPPORT	This function is not supported by the underlying transport provider.
TSYSERR	A system error has occurred during execution of this function, **errno** will be set to the specific error.

SEE ALSO

fcntl(2), **t_connect**(3N), **t_getinfo**(3N), **t_rcvudata**(3N), **t_rcvuderr**(3N)

Transport Interfaces Programming Guide

NOTES

This interface is safe in multithreaded applications.