NAME

ticlts, ticots, ticotsord – loopback transport providers

SYNOPSIS

#include <sys/ticlts.h>
#include <sys/ticots.h>
#include <sys/ticotsord.h>

DESCRIPTION

The devices known as **ticlts**, **ticots**, and **ticotsord** are ''loopback transport providers,'' that is, stand-alone networks at the transport level. Loopback transport providers are transport providers in every sense except one: only one host (the local machine) is ''connected to'' a loopback network. Loopback transports present a TPI (**STREAMS**-level) interface to application processes and are intended to be accessed via the TLI (application-level) interface. They are implemented as clone devices and support address spaces consisting of ''flex-addresses,'' that is, arbitrary sequences of octets, of length **>** 0, represented by a **netbuf** structure.

ticlts is a datagram-mode transport provider. It offers (connectionless) service of type **T_CLTS**. Its default address size is **TCL_DEFAULTADDRSZ**. **ticlts** prints the following error messages (see **t_rcvuderr**(3N)):

TCL_BADADDR	bad address specification
TCL_BADOPT	bad option specification
TCL_NOPEER	bound
TCL_PEERBADSTATE	peer in wrong state

ticots is a virtual circuit-mode transport provider. It offers (connection-oriented) service of type **T_COTS**. Its default address size is **TCO_DEFAULTADDRSZ**. **ticots** prints the following disconnect messages (see **t_rcvdis**(3N)):

TCO_NOPEER	no listener on destination address
TCO_PEERNOROOMONQ	peer has no room on connect queue
TCO_PEERBADSTATE	peer in wrong state
TCO_PEERINITIATED	peer-initiated disconnect
TCO_PROVIDERINITIATED	provider-initiated disconnect

ticotsord is a virtual circuit-mode transport provider, offering service of type **T_COTS_ORD** (connection-oriented service with orderly release). Its default address size is **TCOO_DEFAULTADDRSZ**. **ticotsord** prints the following disconnect messages (see **t_rcvdis**(3N)):

TCOO_NOPEER	no listener on destination address
TCOO_PEERNOROOMONQ	peer has no room on connect queue
TCOO_PEERBADSTATE	peer in wrong state
TCOO_PEERINITIATED	peer-initiated disconnect
TCOO_PROVIDERINITIATED	provider-initiated disconnect

USAGE

Loopback transports support a local IPC mechanism through the TLI interface. Applications implemented in a transport provider-independent manner on a client-server model using this IPC are transparently transportable to networked environments.

Transport provider-independent applications must not include the headers listed in the synopsis section above. In particular, the options are (like all transport provider options) provider dependent.

ticlts and **ticots** support the same service types (**T_CLTS** and **T_COTS**) supported by the OSI transport-level model.

ticotsord supports the same service type (**T_COTSORD**) supported by the TCP/IP model.

FILES

/dev/ticlts
/dev/ticots
/dev/ticotsord

SEE ALSO

t_rcvdis(3N), **t_rcvuderr**(3N)