NAME

iscsi - iSCSI initiator

SYNOPSIS

To compile this driver into the kernel, place the following line in the kernel configuration file:

device iscsi

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

iscsi_load="YES"

DESCRIPTION

The **iscsi** subsystem provides the kernel component of an iSCSI initiator, responsible for implementing the Full Feature Phase of the iSCSI protocol. The initiator is the iSCSI client, which connects to an iSCSI target, providing local access to a remote block device. The userland component is provided by iscsid(8) and both the kernel and userland are configured using iscsictl(8).

SYSCTL VARIABLES

The following variables are available as both sysctl(8) variables and loader(8) tunables:

kern.iscsi.debug

Verbosity level for log messages from the **iscsi** driver. Set to 0 to disable logging or 1 to warn about potential problems. Larger values enable debugging output. Defaults to 1.

kern.iscsi.ping_timeout

The number of seconds to wait for the target to respond to a NOP-Out PDU. In the event that there is no response within that time the session gets forcibly restarted. Set to 0 to disable sending NOP-Out PDUs. Defaults to 5.

kern.iscsi.iscsid_timeout

The number of seconds to wait for iscsid(8) to establish a session. After that time **iscsi** will abort and retry. Defaults to 60.

kern.iscsi.login_timeout

The number of seconds to wait for a login attempt to succeed. After that time **iscsi** will abort and retry. Defaults to 60.

kern.iscsi.maxtags

The maximum number of outstanding IO requests. Defaults to 255.

kern.iscsi.fail_on_disconnection

Controls the behavior after an iSCSI connection has been dropped due to network problems. When set to 1, a dropped connection causes the iSCSI device nodes to be destroyed. After reconnecting, they will be created again. By default, the device nodes are left intact. While the connection is down all input/output operations are suspended, to be retried after the connection is reestablished.

SEE ALSO

iser(4), iscsi.conf(5), iscsictl(8), iscsid(8)

HISTORY

The **iscsi** subsystem first appeared in FreeBSD 10.0.

AUTHORS

The **iscsi** subsystem was developed by Edward Tomasz Napierala <*trasz@FreeBSD.org*> under sponsorship from the FreeBSD Foundation.