NAME

stroptions – options structure for M_SETOPTS message

SYNOPSIS

#include <sys/stream.h>
#include <sys/stropts.h>
#include <sys/ddi.h>
#include <sys/sunddi.h>

INTERFACE LEVEL

Architecture independent level 1 (DDI/DKI).

DESCRIPTION

The **M_SETOPTS** message contains a **stroptions** structure and is used to control options in the stream head.

STRUCTURE MEMBERS

ulong	**so_flags;**	**/* options to set */**
short	**so_readopt;**	**/* read option */**
ushort	**so_wroff;**	**/* write offset */**
long	**so_minpsz;**	**/* minimum read packet size */**
long	**so_maxpsz;**	**/* maximum read packet size */**
ulong	**so_hiwat;**	**/* read queue high water mark */**
ulong	**so_lowat;**	**/* read queue low water mark */**
unsigned char	**so_band;**	**/* band for water marks */**
ushort	**so_erropt;**	**/* error option */**

The following are the flags that can be set in the **so_flags** bit mask in the **stroptions** structure. Note that multiple flags can be set.

SO_READOPT	set read option
SO_WROFF	set write offset
SO_MINPSZ	set min packet size
SO_MAXPSZ	set max packet size
SO_HIWAT	set high water mark
SO_LOWAT	set low water mark
SO_MREADON	set read notification ON
SO_MREADOFF	set read notification OFF
SO_NDELON	old TTY semantics for NDELAY reads/writes
SO_NDELOFF	STREAMS semantics for NDELAY reads/writes
SO_ISTTY	the stream is acting as a terminal
SO_ISNTTY	the stream is not acting as a terminal
SO_TOSTOP	stop on background writes to this stream
SO_TONSTOP	do not stop on background writes to stream
SO_BAND	water marks affect band
SO_ERROPT	set error option

When **SO_READOPT** is set, the **so_readopt** field of the **stroptions** structure can take one of the following values (see **read**(2)):

RNORM	read msg norm
RMSGD	read msg discard
RMSGN	read msg no discard

When **SO_BAND** is set, **so_band** determines to which band **so_hiwat** and **so_lowat** apply.

When **SO_ERROPT** is set, the **so_erropt** field of the **stroptions** structure can take a value that is either none or one of:

RERRNORM	persistent read errors; default
RERRNONPERSIST	non-persistent read errors

OR'ed with either none of one of:

WERRNORM	persistent write errors; default
WERRNONPERSIST	non-persistent write errors

SEE ALSO

read(2), **streamio**(7I),

STREAMS Programming Guide