Rocky Enterprise Linux 9.2 Manual Pages on command 'sg_bg_ctl.8'

$ man sg_bg_ctl.8

SG_BG_CTL(8)   SG3_UTILS   SG_BG_CTL(8)

NAME

    sg_bg_ctl - send SCSI BACKGROUND CONTROL command

SYNOPSIS

    sg_bg_ctl [--ctl=CTL] [--help] [--time=TN] [--verbose] [--version] DE?

    VICE

DESCRIPTION

    Sends a SCSI BACKGROUND CONTROL command to the DEVICE. This command was

    first found in the SBC-4 draft standard revision 8 (sbc4r08.pdf). It

    can be used to start and stop 'advanced background operations' on the

    DEVICE. Only resource or thin provisioned devices (logical units which

    are typically (solid state) disks) support this command. Those advanced

    background operations often include garbage collection type operations

    which may degrade the disk's performance while they are being per?

    formed.

OPTIONS

    Arguments to long options are mandatory for short options as well.

    -c, --ctl=CTL

CTL is the value placed in the BO_CTL field of the BACKGROUND

CONTROL command (cdb). It is a two bit field so has 4 variants:

0 does not change the host initiated advanced background opera?

tions; 1 starts these operations; 2 stops these operations and 3

is reserved. The default value is 0.

-h, --help

output the usage message then exit.

-t, --time=TN

TN is a maximum time (with a unit of 100 ms or 1/10 second) that

advanced background operations can occur. This value is ignored

if the CTL argument is other than 1. The default value is 0

which means there is no maximum time limit. Only values 0 to 255

(which is 25.5 seconds) can be given. This value is place in the

BO_TIME field of the BACKGROUND CONTROL command.

-v, --verbose

increase the level of verbosity, (i.e. debug output).

-V, --version

print the version string and then exit.

NOTES

According to T10, support for 'background control operations' is indi?

cated by the BOCS bit being set in the Block device characteristics VPD

page [0xb1]. The setting of the BOCS bit can be checked with the

sg_vpd and sdparm utilities (and it is read only). There is a Back?

ground operations control mode page [0xa, 0x6] with a BO_MODE field for

modifying the action of this operation. The BO_MODE field can be ac?

cessed and possibly modified with the sdparm utility. The BO_STATUS

field can be found in the Background operation log page [0x15, 0x2] and

that can be viewed with the sg_logs utility.

The current draft describing this area is SBC-4 revision 10

(sbc4r10.pdf) in clause 4.33 . That contains the following example of a

background operation: "Advanced background operation may include NAND

block erase operations, media read operations, and media write opera?

tions (e.g., garbage collection), which may impact response time for

normal read requests or write requests from the application client."

EXIT STATUS

The exit status of sg_bg_ctl is 0 when it is successful. Otherwise see

the sg3_utils(8) man page.

AUTHORS

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REPORTING BUGS

Report bugs to <dgilbert at interlog dot com>.

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SEE ALSO

sg_vpd,sg_logs(sg3_utils); sdparm(sdparm)

sg3_utils-1.43   May 2016   SG_BG_CTL(8)