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## *Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sg_get_elem_status.8' command*

***$ man sg_get_elem_status.8***

SG_GET_ELEM_STATUS(8) SG3_UTILS SG_GET_ELEM_STATUS(8)

NAME

sg_get_elem_status - send SCSI GET PHYSICAL ELEMENT STATUS command

SYNOPSIS

sg_get_elem_status [--brief] [--filter=FLT] [--help] [--hex] [--in?

hex=FN] [--maxlen=LEN] [--raw] [--readonly] [--report-type=RT]

[--starting=ELEM] [--verbose] [--version] DEVICE

DESCRIPTION

Send the SCSI GET PHYSICAL ELEMENT STATUS command to the DEVICE and

output the response. The command was introduced in (draft) SBC-4 revi?

sion 16.

The default action is to decode the response into one physical element

status descriptor per line then output a header and the status descrip?

tors to stdout. The amount of output can be reduced by the --brief op?

tion.

Rather than send this SCSI command to DEVICE, if the --inhex=FN option

is given, then the contents of the file named FN are decoded as ASCII

hex (or binary if --raw is also given) and then processed as if it was

the response of this command.

OPTIONS

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

-b, --brief

tbd

-f, --filter=FLT

where FLT is placed in a two bit field called FILTER in the GET PHYSICAL ELEMENT STATUS command. Only two values are defined for that field: 0 for all element descriptors; 1 for those element descriptors that are outside 'spec' or have depopulation infor? mation to report. In both cases the REPORT TYPE and STARTING EL? EMENT fields may further restrict (reduce) the number of element descriptors returned. The default value is zero.

-h, --help

output the usage message then exit.

-H, --hex

output response to this command in ASCII hex.

-i, --inhex=FN

where FN is a file name whose contents are assumed to be ASCII hexadecimal. If DEVICE is also given then DEVICE is ignored, a warning is issued and the utility continues, decoding the file named FN. See the "FORMAT OF FILES CONTAINING ASCII HEX" section in the sg3_utils manpage for more information. If the --raw op? tion is also given then the contents of FN are treated as bi? nary.

-m, --maxlen=LEN

where LEN is the (maximum) response length in bytes. It is placed in the cdb's "allocation length" field. If not given then 32 is used. 32 is enough space for the response header only. LEN should be a multiple of 32 (e.g. 32, 64, and 96 are suit? able).

-r, --raw

output response in binary (to stdout) unless the --inhex=FN op? tion is also given. In that case the input file name (FN) is de? coded as binary (and the output is _not_ in binary).

-R, --readonly

open the DEVICE read-only (e.g. in Unix with the O_RDONLY flag). The default is to open it read-write.

-t, --report-type=RT

where RT will be placed in the REPORT TYPE field of the GET PHYSICAL ELEMENT STATUS command. Currently only two values are defined: 0 for 'physical element' and 1: for 'storage element'. The default value is 1 .

-s, --starting=ELEM

where ELEM is the placed in the STARTING ELEMENT field of the GET PHYSICAL ELEMENT STATUS command. Only physical elements with identifiers equal to or greater than ELEM are returned. The de? fault value is zero which while it isn't a valid element identi? fier (since they must be non-zero) is given in an example in An? nex L of SBC-4 revision 17. So an ELEM of zero is assumed to be valid in this context.

-v, --verbose

increase the level of verbosity, (i.e. debug output). Additional output caused by this option is sent to stderr.

-V, --version

print the version string and then exit.

## EXIT STATUS

The exit status of sg_get_elem_status is 0 when it is successful. Oth? erwise see the sg3_utils(8) man page.

## AUTHORS

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## REPORTING BUGS

Report bugs to <dgilbert at interlog dot com>.

## COPYRIGHT



## SEE ALSO

sg_get_lba_status(8), sg3_utils(8)