Full credit is given to the above companies including the OS that this PDF file was generated!

Red Hat Enterprise Linux Release 9.2 Manual Pages on 'sg_rep_zones.8' command

$ man sg_rep_zones.8

SG_REP_ZONES(8) SG3_UTILS SG_REP_ZONES(8)

NAME

sg_rep_zones - send SCSI REPORT ZONES, REALMS or ZONE DOMAINS command

SYNOPSIS

sg_rep_zones [--domain] [--help] [--hex] [--inhex=FN] [--locator=LBA]

[--maxlen=LEN] [--num=NUM] [--partial] [--raw] [--readonly] [--realm]

[--report=OPT] [--start=LBA] [--verbose] [--version] [--wp] DEVICE

DESCRIPTION

Sends a SCSI REPORT ZONES, REPORT REALMS or REPORT ZONE DOMAINS command

to DEVICE and decodes (or simply outputs) the data returned. These com?

mands is found in the ZBC-2 draft standard, revision 10 (zbc2r05.pdf).

Only the REPORT ZONES command is defined in the original ZBC standard

(INCITS 536-2017) and it is the default.

The REPORT ZONE DOMAINS command will be sent (or decoded) when the

--domain option is given. The REPORT REALMS command will be sent (or

decoded) when the --realm option is given.

Rather than send a 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 the command. By default the REPORT ZONES command response

is assumed; if the --domain or --realm option is given then the corre?

sponding command response is assumed.

OPTIONS

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

-d, --domain

send or decode the SCSI REPORT ZONE DOMAINS command.

-h, --help

output the usage message then exit.

-H, --hex

output the response in hexadecimal to stdout. When used once the whole response is output in ASCII hexadecimal with a leading ad? dress (starting at 0) on each line. When used twice each zone descriptor in the response is output separately in hexadecimal. When used thrice the whole response is output in hexadecimal with no leading address (on each line). The output format when this option is given thrice is suitable contents for a later invocation with the --inhex=FN option.

-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.

Note that by default this utility assumes then contents are the response from a REPORT ZONES command. Use the --domain or --realm option for decoding the other two commands.

-l, --locator=LBA

where LBA plays a similar role as it does in --start=LBA. It is the field name used in the REPORT REALMS and REPORT ZONE DOMAINS commands.

-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 (or LEN is zero) then 8192 is used. The maximum allowed value of LEN

is 1048576.

-n, --num=NUM

where NUM is the (maximum) number of zone descriptors to print out. The default value is zero which is taken to mean print out all zone descriptors returned by the REPORT ZONES command.

-p, --partial

set the PARTIAL bit in the cdb.

-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 (but may be hex)).

-R, --readonly

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

-e, --realm

send or decode the SCSI REPORT REALMS command.

-o, --report=OPT

where OPT will become the contents of the REPORTING OPTION field in the cdb. The reporting options differ between REPORT ZONES, REPORT ZONE DOMAINS and REPORT REALMS. If the --help option is given twice (or the equivalent '-hh') a list of available re? porting options (as of writing) for each command is output. The default value for REPORT ZONES is 0 which means report a list of all zones. Some other values are 1 for list zones with a zone condition of empty; 2 for list zones with a zone condition of implicitly opened; 3 for list zones with a zone condition of explicitly opened; 4 for list zones with a zone condition of closed; 5 for list zones with a zone condition of full; 6 for list zones with a zone condition of read only; 7 for list zones with a zone condition of offline. Other values are 0x10 for list zones with 'RWP recommended' set to true; 0x11 for list zones with non-sequential write resource active set to true and 0x3f

for list zones with a zone condition of 'not write pointer'.

-s, --start=LBA

where LBA is at the start or within the first zone to be re?

ported. The default value is 0. If LBA is not a zone start LBA

then the preceding zone start LBA is used for reporting. Assumed

to be in decimal unless prefixed with '0x' or has a trailing 'h'

which indicate hexadecimal.

The zone start LBA field used in the REPORT ZONES command was

changed to the zone domain/realm locator field for the two newer

ZBC-2 commands. For this utility --locator=LBA and --start=LBA

are interchangeable.

-v, --verbose

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

-V, --version

print the version string and then exit.

-w, --wp

print the write pointer (in hex) only. In the absence of errors,

then a hex LBA will be printed on each line, one line for each

zone. Can be usefully combined with the --num=NUM and

--start=LBA options.

EXIT STATUS

The exit status of sg_rep_zones is 0 when it is successful. Otherwise

see the sg3_utils(8) man page.

AUTHORS

Written by Douglas Gilbert.

REPORTING BUGS

Report bugs to <dgilbert at interlog dot com>.

COPYRIGHT

SEE ALSO