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

$ man sg_copy_results.8

SG_COPY_RESULTS(8) SG3_UTILS SG_COPY_RESULTS(8)

NAME

sg_copy_results - send SCSI RECEIVE COPY RESULTS command (XCOPY re? lated)

SYNOPSIS

sg_copy_results [--failed|--params|--receive|--status] [--help] [--hex] [--list_id=ID] [--readonly] [--verbose] [--version] [--xfer_len=BTL] DEVICE

DESCRIPTION

This utility is designed to query the status of the SCSI Extended Copy (XCOPY) facility (see SPC-3 revision 23 sections 6.3 and 6.17), present in some modern storage arrays. This utility sends a SCSI RECEIVE COPY RESULTS command to the given DEVICE and displays the response. During the draft stages of SPC-4 the T10 committee has expanded the XCOPY command so that it now has two variants: "LID1" (for a List Iden? tifier length of 1 byte) and "LID4" (for a List Identifier length of 4 bytes). This utility supports the older, LID1 variant which is also found in SPC-3 and earlier. While the LID1 variant in SPC-4 is command

level (binary) compatible with XCOPY as defined in SPC-3, some of the command naming has changed. This utility uses the older, SPC-3 XCOPY names.

The command has four distinct modes of operation, distinguished by the service action field:

COPY STATUS [SPC-4: RECEIVE COPY STATUS(LID1)]

Displays the current status of the EXTENDED COPY command identi? fied by the list id field.

RECEIVE DATA [SPC-4: RECEIVE COPY DATA(LID1)]

Return the held data read by the EXTENDED COPY command identi? fied by the list id field. This option is only meaningful if the respective segment descriptor are supported.

OPERATING PARAMETERS [SPC-4: RECEIVE COPY OPERATING PARAMETERS]

Return copy manager operating parameters. This option is also useful to determine if the SCSI Extended Copy facility is sup? ported.

FAILED SEGMENT DETAILS [SPC-4: RECEIVE COPY FAILURE DETAILS(LID1)]

Return copy target device sense data and other information about any failed segments.

OPTIONS

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

-f, --failed

sets the service action field to FAILED SEGMENT DETAILS [4].

-h, --help

output the usage message then exit.

-H, --hex

prints out the response buffer in hex.

-l, --list_id=ID

sets the list identifier field to ID (default: 0).

-p, --params

sets the service action field to OPERATING PARAMETERS [3]. This is the default.

-R, --readonly

open the DEVICE read-only (e.g. in Unix with the O_RDONLY flag).

The default is to open it read-write.

-r, --receive

sets the service action field to RECEIVE DATA [1].

-s, --status

sets the service action field to COPY STATUS [0].

-v, --verbose

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

-V, --version

print the version string and then exit.

-x, --xfer_len=BTL

sets the allocation length field to BTL. It is the byte transfer length and is the maximum (byte) size of the response. BTL must be less than 10000 and defaults to 520.

NOTES

Decoding of RECEIVE DATA service action is not implemented.

In a similar way the functionality of sg_xcopy has been ported to the more general ddpt utility (and package), the functionality of this utility has been ported to the ddptctl utility.

EXAMPLES

Query the operating parameters for a device:

sg_copy_results -p /dev/sdo

Receive copy results (report operating parameters):

Supports no list identifier: no

Maximum target descriptor count: 2

Maximum segment descriptor count: 1

Maximum descriptor list length: 92 bytes

Maximum segment length: 33553920 bytes

Inline data not supported

Held data limit: 0 bytes

Maximum stream device transfer size: 0 bytes

Total concurrent copies: 0

Maximum concurrent copies: 255

Data segment granularity: 512 bytes

Inline data granularity: 1 bytes

Held data granularity: 1 bytes

Implemented descriptor list:

Segment descriptor 0x02: Copy from block device to block device

Target descriptor 0xe4: Identification descriptor

EXIT STATUS

The exit status of sg_copy_results is 0 when it is successful. Other?

wise 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_xcopy(sg3_utils), ddpt,ddptctl(ddpt)