# Rocky Enterprise Linux 9.2 Manual Pages on command 'dcb-buffer.8'

***$ man dcb-buffer.8***

DCB-BUFFER(8)                        Linux                        DCB-BUFFER(8)

NAME

    dcb-buffer - show / manipulate port buffer settings of the DCB (Data Center Bridging) sub?

    system

SYNOPSIS

    dcb [ OPTIONS ] buffer { COMMAND | help }

    dcb buffer show dev DEV [ prio-buffer ] [ buffer-size ] [ total-size ]

    dcb buffer set dev DEV [ prio-buffer PRIO-MAP ] [ buffer-size SIZE-MAP ]

    PRIO-MAP := [ PRIO-MAP ] PRIO-MAPPING

    PRIO-MAPPING := { PRIO | all }:BUFFER

    SIZE-MAP := [ SIZE-MAP ] SIZE-MAPPING

    SIZE-MAPPING := { BUFFER | all }:SIZE

    PRIO := { 0 .. 7 }

    BUFFER := { 0 .. 7 }

    SIZE := { INTEGER | INTEGERK | INTEGERM | ... }

DESCRIPTION

    dcb buffer is used to configure assignment of traffic to port buffers based on traffic

    priority, and sizes of those buffers. It can be also used to inspect the current configu?

    ration, as well as total device memory that the port buffers take.

PARAMETERS

    For read-write parameters, the following describes only the write direction, i.e. as used

    with the set command. For the show command, the parameter name is to be used as a simple

    keyword without further arguments. This instructs the tool to show the value of a given

parameter. When no parameters are given, the tool shows the complete buffer configuration.

total-size

A read-only property that shows the total device memory taken up by port buffers.
This might be more than a simple sum of individual buffer sizes if there are any
hidden or internal buffers.

prio-buffer PRIO-MAP

PRIO-MAP uses the array parameter syntax, see dcb(8) for details. Keys are priori?
ties, values are buffer indices. For each priority sets a buffer where traffic with
that priority is directed to.

buffer-size SIZE-MAP

SIZE-MAP uses the array parameter syntax, see dcb(8) for details. Keys are buffer
indices, values are sizes of that buffer in bytes.  The sizes can use the notation
documented in section PARAMETERS at tc(8).  Note that the size requested by the
tool can be rounded or capped by the driver to satisfy the requirements of the de?
vice.

EXAMPLE & USAGE

Configure the priomap in a one-to-one fashion:

# dcb buffer set dev eth0 prio-buffer 0:0 1:1 2:2 3:3 4:4 5:5 6:6 7:7

Set sizes of all buffers to 10KB, except for buffer 6, which will have the size 1MB:

# dcb buffer set dev eth0 buffer-size all:10K 6:1M

Show what was set:

# dcb buffer show dev eth0

prio-buffer 0:0 1:1 2:2 3:3 4:4 5:5 6:6 7:7

buffer-size 0:10Kb 1:10Kb 2:10Kb 3:10Kb 4:10Kb 5:10Kb 6:1Mb 7:10Kb

total-size 1222Kb

EXIT STATUS

Exit status is 0 if command was successful or a positive integer upon failure.

SEE ALSO

dcb(8)

REPORTING BUGS

Report any bugs to the Network Developers mailing list <netdev@vger.kernel.org> where the
development and maintenance is primarily done.  You do not have to be subscribed to the
list to send a message there.

## AUTHOR

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