

NAME

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

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 also be used to inspect the current configuration, 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 priorities, 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 device.

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.

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