NAME

dcb-pfc − show / manipulate PFC (Priority-based Flow Control) settings of the DCB (Data Center Bridging) subsystem

SYNOPSIS

dcb [*OPTIONS*] **pfc** { *COMMAND* | *help* }

dcb pfc show dev DEV [**pfc-cap**] [**prio-pfc**] [**macsec-bypass**] [**delay**] [**requests**] [**indications**]

dcb pfc set dev DEV [**prio-pfc** *PFC-MAP*] [**macsec-bypass** { **on** | **off** }] [**delay** *INTEGER*]

PFC-MAP := [*PFC-MAP*] *PFC-MAPPING*

PFC-MAPPING := { *PRIO* | **all** }**:**{ **on** | **off** }

PRIO := { **0** .. **7** }

DESCRIPTION

dcb pfc is used to configure Priority-based Flow Control attributes through Linux DCB (Data Center Bridging) interface. PFC permits marking flows with a certain priority as lossless, and holds related configuration, as well as PFC counters.

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 PFC configuration.

pfc-cap
: A read-only property that shows the number of traffic classes that may simultaneously support PFC.

requests
: A read-only count of the sent PFC frames per traffic class. Only shown when -s is given, or when requested explicitly.

indications
: A read-only count of the received PFC frames per traffic class. Only shown when -s is given, or when requested explicitly.

macsec-bypass { **on** | **off** }
: Whether the sending station is capable of bypassing MACsec processing when MACsec is disabled.

prio-pfc *PFC-MAP*
: *PFC-MAP* uses the array parameter syntax, see **dcb**(8) for details. Keys are priorities, values are on / off indicators of whether PFC is enabled for a given priority.

delay *INTEGER*
: The allowance made for round-trip propagation delay of the link in bits. The value shall be 0..65535.

EXAMPLE & USAGE

Enable PFC on priorities 6 and 7, leaving the rest intact:

```
# dcb pfc set dev eth0 prio-pfc 6:on 7:on
```

Disable PFC of all priorities except 6 and 7, and configure delay to 4096 bits:

```
# dcb pfc set dev eth0 prio-pfc all:off 6:on 7:on delay 0x1000
```

Show what was set:

```
# dcb pfc show dev eth0
pfc-cap 8 macsec-bypass off delay 4096
prio-pfc 0:off 1:off 2:off 3:off 4:off 5:off 6:on 7:on
```

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

Petr Machata <me@pmachata.org>