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Rocky Enterprise Linux 9.2 Manual Pages on command 'rdma-statistic.8'

\$ man rdma-statistic.8

RDMA-STATISTIC(8) Linux RDMA-STATISTIC(8)

NAME

rdma-statistic - RDMA statistic counter configuration

SYNOPSIS

```
rdma [ OPTIONS ] statistic { COMMAND | help }
rdma statistic { OBJECT } show
rdma statistic [ OBJECT ] show link [ DEV/PORT_INDEX ] [ FILTER_NAME FILTER_VALUE ]
rdma statistic OBJECT mode
rdma statistic OBJECT set COUNTER_SCOPE [ DEV/PORT_INDEX ] auto { CRITERIA | off }
rdma statistic OBJECT bind COUNTER_SCOPE [ DEV/PORT_INDEX ] [ OBJECT-ID ] [ COUNTER-ID ]
rdma statistic OBJECT unbind COUNTER_SCOPE [ DEV/PORT_INDEX ] [ COUNTER-ID ] [ OBJECT-ID ]
COUNTER_SCOPE := { link | dev }
OBJECT := { qp | mr }
CRITERIA := { type | pid }
FILTER_NAME := { cntn | lqpn | pid | qp-type }
```

DESCRIPTION

rdma statistic [object] show - Queries the specified RDMA device for RDMA and driver-specific statistics. Show the default hw counters if object is not specified

DEV - specifies counters on this RDMA device to show.

PORT_INDEX - specifies counters on this RDMA port to show.

FILTER_NAME - specifies a filter to show only the results matching it.

rdma statistic <object> set - configure counter statistic auto-mode for a specific device/port

In auto mode all objects belong to one category are bind automatically to a single counter

set. The "off" is global for all auto modes together. Not applicable for MR's.

`rdma statistic <object> bind` - manually bind an object (e.g., a qp) with a counter

When bound the statistics of this object are available in this counter. Not applicable for MR's.

`rdma statistic <object> unbind` - manually unbind an object (e.g., a qp) from the counter previously bound

viously bound

When unbound the statistics of this object are no longer available in this counter; And if object id is not specified then all objects on this counter will be unbound. Not applicable for MR's.

`COUNTER-ID` - specifies the id of the counter to be bound. If this argument is omitted then a new counter will be allocated.

EXAMPLES

`rdma statistic show`

Shows the state of the default counter of all RDMA devices on the system.

`rdma statistic show link mlx5_2/1`

Shows the state of the default counter of specified RDMA port

`rdma statistic qp show`

Shows the state of all qp counters of all RDMA devices on the system.

`rdma statistic qp show link mlx5_2/1`

Shows the state of all qp counters of specified RDMA port.

`rdma statistic qp show link mlx5_2 pid 30489`

Shows the state of all qp counters of specified RDMA port and belonging to pid 30489

`rdma statistic qp show link mlx5_2 qp-type UD`

Shows the state of all qp counters of specified RDMA port and with QP type UD

`rdma statistic qp mode`

List current counter mode on all devices

`rdma statistic qp mode link mlx5_2/1`

List current counter mode of device mlx5_2 port 1

`rdma statistic qp set link mlx5_2/1 auto type on`

On device mlx5_2 port 1, for each new user QP bind it with a counter automatically.

Per counter for QPs with same qp type.

`rdma statistic qp set link mlx5_2/1 auto pid on`

On device mlx5_2 port 1, for each new user QP bind it with a counter automatically.

Per counter for QPs with same pid.

```
rdma statistic qp set link mlx5_2/1 auto pid,type on
```

On device mlx5_2 port 1, for each new user QP bind it with a counter automatically.

Per counter for QPs with same pid and same type.

```
rdma statistic qp set link mlx5_2/1 auto off
```

Turn-off auto mode on device mlx5_2 port 1. The allocated counters can be manually accessed.

```
rdma statistic qp bind link mlx5_2/1 lqpn 178
```

On device mlx5_2 port 1, allocate a counter and bind the specified qp on it

```
rdma statistic qp unbind link mlx5_2/1 cntn 4 lqpn 178
```

On device mlx5_2 port 1, bind the specified qp on the specified counter

```
rdma statistic qp unbind link mlx5_2/1 cntn 4
```

On device mlx5_2 port 1, unbind all QPs on the specified counter. After that this counter will be released automatically by the kernel.

```
rdma statistic show mr
```

List all currently allocated MR's and their counters.

```
rdma statistic show mr mrn 6
```

Dump a specific MR statistics with mrn 6. Dumps nothing if does not exists.

SEE ALSO

rdma(8), rdma-dev(8), rdma-link(8), rdma-resource(8),

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iproute2

27 June 2019

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