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## Red Hat Enterprise Linux Release 9.2 Manual Pages on 'rdma-statistic.8' command

\$ 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\_INDX ] [ FILTER\_NAME FILTER VALUE ] rdma statistic OBJECT mode rdma statistic OBJECT set COUNTER\_SCOPE [ DEV/PORT\_INDEX ] auto { CRI? TERIA | 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 ] rdma statistic mode [ supported ] link [ DEV/PORT\_INDEX ] rdma statistic set link [ DEV/PORT\_INDEX ] optional-counters [ OP? TIONAL-COUNTERS ] rdma statistic unset link [ DEV/PORT\_INDEX ] optional-counters COUNTER\_SCOPE := { link | dev }  $OBJECT := \{ qp \mid mr \}$ 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 to? gether. 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

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 ar? gument is omitted then a new counter will be allocated.

rdma statistic mode - Display the enabled optional counters for each link.

rdma statistic mode supported - Display the supported optional counters for each link.

rdma statistic set - Enable a set of optional counters for a specific de? vice/port.

OPTIONAL-COUNTERS - specifies the name of the optional counters to en? able. Optional counters that are not specified will be disabled. Note that optional counters are driver-specific.

rdma statistic unset - Disable all optional counters for a specific de? vice/port.

## **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 sys? tem.

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 be?

longing 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

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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 ker?
      nel.
    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.
    rdma statistic mode link mlx5_2/1
      Display the optional counters that was enabled on mlx5 2/1.
    rdma statistic mode supported link mlx5_2/1
      Display the optional counters that mlx5_2/1 supports.
    rdma statistic set link mlx5_2/1 optional-counters
    cc_rx_ce_pkts,cc_rx_cnp_pkts
      Enable the cc_rx_ce_pkts,cc_rx_cnp_pkts counters on device mlx5_2
      port 1.
    rdma statistic unset link mlx5_2/1 optional-counters
      Disable all the optional counters on device mlx5 2 port 1.
SEE ALSO
    rdma(8), rdma-dev(8), rdma-link(8), rdma-resource(8),
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