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** { *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

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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