

**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* ]

**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** }

**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.

**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. 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 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 QP bind it with a counter automatically. Per counter for QPs with same qp type in each process. Currently only "type" is supported.

`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\(8\)](#),

## AUTHORS

Mark Zhang <markz@mellanox.com>

Erez Alfasi <ereza@mellanox.com>