NAME

mlx5dv_get_clock_info - Get device clock information

SYNOPSIS

#include <infiniband/mlx5dv.h>

DESCRIPTION

Get the updated core *clock_info* from the device driver. This information will be used later to translate the completion timestamp from HCA core clock to nanoseconds. The values of the clock are updated from the driver's PTP clock, therefore, without a running PTP client on the machine, the wall clock conversion will not be accurate.

Pass the latest **struct mlx5dv_clock_info** to **mlx5dv_ts_to_ns(3)** in order to translate the completion time-stamp from HCA core clock to nanoseconds.

If the clock_info becomes too old then time conversion will return wrong conversion results. The user must ensure that mlx5dv_get_clock_info(3) is called at least once every max_clock_info_update_nsec as returned by the mlx5dv query device(3) function.

RETURN VALUE

0 on success or the value of errno on failure (which indicates the failure reason).

SEE ALSO

mlx5dv(7), $mlx5dv_ts_to_ns(3)$

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