NAME

      mlx5dv_create_flow_matcher – creates a matcher to be used with *mlx5dv_create_flow(3)*

SYNOPSIS

```
#include <infiniband/mlx5dv.h>

struct mlx5dv_flow_matcher *
mlx5dv_create_flow_matcher(struct ibv_context *context,
            struct mlx5dv_flow_matcher_attr *attr)
```

DESCRIPTION

      mlx5dv_create_flow_matcher() creates a flow matcher (mask) to be used with *mlx5dv_create_flow(3)*.

ARGUMENTS

      Please see *ibv_open_device(3)* for *context*.

attr

```
struct mlx5dv_flow_matcher_attr {
    enum ibv_flow_attr_type type;
    uint32_t flags; /* From enum ibv_flow_flags */
    uint16_t priority;
    uint8_t match_criteria_enable; /* Device spec format */
    struct mlx5dv_flow_match_parameters *match_mask;
    uint64_t comp_mask;
    enum mlx5dv_flow_table_type ft_type;
};
```

type   Type of matcher to be created: IBV_FLOW_ATTR_NORMAL: Normal rule according to specification.

flags   special flags to control rule: 0: Nothing or zero value means matcher will store ingress flow rules. IBV_FLOW_ATTR_FLAGS_EGRESS: Specified this matcher will store egress flow rules.

priority See *ibv_create_flow(3)*.

match_criteria_enable

      What match criteria is configured in *match_mask*, passed in device spec format.

match_mask

```
struct mlx5dv_flow_match_parameters {
    size_t match_sz;
    uint64_t match_buf[]; /* Device spec format */
};
```

match_sz

      Size in bytes of *match_buf*.

match_buf

      Set which mask to be used, passed in device spec format.

comp_mask

      MLX5DV_FLOW_MATCHER_MASK_FT_TYPE for *ft_type*

ft_type

      Specified in which flow table type, the matcher will store the flow rules: MLX5DV_FLOW_TABLE_TYPE_NIC_RX: Specified this matcher will store ingress flow rules. MLX5DV_FLOW_TABLE_TYPE_NIC_TX Specified this matcher will store egress flow rules. MLX5DV_FLOW_TABLE_TYPE_FDB : Specified this matcher will store FDB rules.

RETURN VALUE

      mlx5dv_create_flow_matcher returns a pointer to *mlx5dv_flow_matcher*, on error NULL will be returned and errno will be set.

SEE ALSO

ibv_open_device(3), *ibv_create_flow(3)*

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