NAME

　　　　mlx5dv_create_flow − creates a steering flow rule

SYNOPSIS

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

struct ibv_flow *
mlx5dv_create_flow(struct mlx5dv_flow_matcher *flow_matcher,
        struct mlx5dv_flow_match_parameters *match_value,
        size_t num_actions,
        struct mlx5dv_flow_action_attr actions_attr[])
```

DESCRIPTION

　　　　mlx5dv_create_flow() creates a steering flow rule with the ability to specify specific driver properties.

ARGUMENTS

　　　　Please see *mlx5dv_create_flow_matcher(3)* for *flow_matcher* and *match_value*.

　　　　num_actions

　　　　　　　　Specifies how many actions are passed in *actions_attr*

　　actions_attr

```
struct mlx5dv_flow_action_attr {
    enum mlx5dv_flow_action_type type;
    union {
        struct ibv_qp *qp;
        struct ibv_counters *counter;
        struct ibv_flow_action *action;
        uint32_t tag_value;
        struct mlx5dv_devx_obj *obj;
    };
};
```

　　type　　MLX5DV_FLOW_ACTION_DEST_IBV_QP The QP passed will receive the matched packets. MLX5DV_FLOW_ACTION_IBV_FLOW_ACTION The flow action to be applied. MLX5DV_FLOW_ACTION_TAG Flow tag to be provided in work completion. MLX5DV_FLOW_ACTION_DEST_DEVX The DEVX destination object for the matched packets. MLX5DV_FLOW_ACTION_COUNTERS_DEVX The DEVX counter object for the matched packets.

　　qp　　QP passed, to be used with *type MLX5DV_FLOW_ACTION_DEST_IBV_QP*.

　　action　Flow action, to be used with *type MLX5DV_FLOW_ACTION_IBV_FLOW_ACTION* see *mlx5dv_create_flow_action_modify_header(3)* and *mlx5dv_create_flow_action_packet_reformat(3)*.

　　tag_value

　　　　　　tag value to be passed in the work completion, to be used with *type MLX5DV_FLOW_ACTION_TAG* see *ibv_create_cq_ex(3)*.

　　obj　　DEVX object, to be used with *type MLX5DV_FLOW_ACTION_DEST_DEVX* or by *MLX5DV_FLOW_ACTION_COUNTERS_DEVX*.

RETURN VALUE

　　　　mlx5dv_create_flow returns a pointer to the created flow rule, on error NULL will be returned and errno will be set.

SEE ALSO

　　　　mlx5dv_create_flow_action_modify_header(3),　　　　　*mlx5dv_create_flow_action_packet_reformat(3)*, *mlx5dv_create_flow_matcher(3)*, *mlx5dv_create_qp(3)*, *ibv_create_qp_ex(3) ibv_create_cq_ex(3) ibv_create_counters(3)*

AUTHOR
　　　Mark Bloch <marb@mellanox.com>