```
typedef struct {

  flow_hash_table_entry_t buckets[HASH_BUCKETS];

  flow_info_t* free_list_head;

  flow_info_t* free_list_tail;

  mrapi_mutex_hndl_t free_list_lock;

} flow_hash_table_t;


flow_hash_table_t *flow_table;



void init(int rank)

{

  mrapi_status_t status;


  if (rank == 0)

  {

    size_t size =

      sizeof(flow_info_t) * MAX_FLOWS +

      sizeof(flow_hash_table_t);


    mrapi_shmem_hndl_t mem_hndl =

      mrapi_shmem_create(MY_SHMEM_ID, size, NULL, 0, NULL, 0, &status);

    if (status != MRAPI_SUCCESS)

      die("Couldn't create shared memory.\n");


    void* mem = mrapi_shmem_attach(mem_hndl, &status);

    if (status != MRAPI_SUCCESS)

      die("Couldn't map shared memory region.\n");
```