4.4.2.11 MRAPI_RMEM_WRITE

NAME

mrapi_rmem_write

SYNOPSIS

```
void mrapi_rmem_write(
  MRAPI_IN mrapi_rmem_hndl_t rmem,
  MRAPI_IN mrapi_uint32_t rmem_offset,
  MRAPI_IN void* local_buf,
  MRAPI_IN mrapi_uint32_t local_offset,
  MRAPI_IN mrapi_uint32_t bytes_per_access,
  MRAPI_IN mrapi_uint32_t num_strides,
  MRAPI_IN mrapi_uint32_t rmem_stride,
  MRAPI_IN mrapi_uint32_t local_stride,
  MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

This function performs `num_strides` memory writes, where each write is of size `bytes_per_access` bytes. The *i*-th write copies `bytes_per_access` bytes of data from `local_buf` with offset `local_offset + i*local_stride` to `rmem` with offset `rmem_offset + i*rmem_stride`, where 0 <= *i* < `num_strides`.

This supports scatter/gather type accesses. To perform a single write, without the need for scatter/gather, set the `num_strides` parameter to 1.

This routine blocks until memory can be written.

RETURN VALUE

On success, `*status` is set to `MRAPI_SUCCESS`. On error, `*status` is set to the appropriate error defined below.

ERRORS

`MRAPI_ERR_RMEM_INVALID`	Argument is not a valid remote memory segment handle.
`MRAPI_ERR_RMEM_BUFF_OVERRUN`	`rmem_offset + (rmem_stride * num_strides )` would fall out of bounds of the remote memory buffer.
`MRAPI_ERR_RMEM_STRIDE`	`num_strides`>1 and `rmem_stride` and/or `local_stride` are less than `bytes_per_access.`
`MRAPI_ERR_RMEM_NOTATTACHED`	The caller is not attached to the remote memory.
`MRAPI_ERR_PARAMETER`	Either the `local_buf` is invalid or `bytes_per_access` is zero.
`MRAPI_ERR_NODE_NOTINIT`	The calling node is not intialized.

NOTE

SEE ALSO