### 4.8.19   MRAPI_ATOMIC_SET (ABB Extension)

**NAME**

mrapi_atomic_set

**SYNOPSIS**

```
void  mrapi_atomic_set(
  MRAPI_OUT void* sync, MRAPI_IN void* dest,
  MRAPI_IN int bit, MRAPI_OUT int* previous,
  MRAPI_IN size_t size, MRAPI_OUT
  mrapi_status_t* status
);
```

**DESCRIPTION**

mrapi_atomic_set()performs atomic bit set within an integer. Atomic bit clear is provided by mrapi_atomic_clear(), and atomic bit change is provided by mrapi_atomic_change(). The operation is only valid for memory locations within shared memory, where the synchronization can be across real-time processes. The integer value at destination address is modified to set the specified bit, indexed from 0, to be 1 and the previous bit value returned if that argument is non-NULL. Different integer widths are supported based on the platform. The desired integer size is passed as input and returned status indicates if the operation succeeded.

**RETURN VALUE**

None.

**ERRORS**

| | |
|---|---|
| MRAPI_ERR_NODE_NOTINIT | The calling node is not initialized |
| MRAPI_ERR_ATOM_OP_FAILED | The local atomic operation failed |

**NOTE**

Supported integer types:

Windows – uint32_t
Unix - uint32_t

**SEE ALSO**