4.8.6 MRAPI_ATOMIC_ADD (ABB Extension)

NAME

mrapi_atomic_add

SYNOPSIS

```
void  mrapi_atomic_add(
  MRAPI_OUT void* sync, MRAPI_IN void* dest,
  MRAPI_IN void* value, MRAPI_OUT void*
  previous, MRAPI_IN size_t size, MRAPI_OUT
  mrapi_status_t* status
);
```

DESCRIPTION

`mrapi_atomic_add()`performs atomic integer addition. With a negative addend value, subtraction is also possible. 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 incremented by the specified integer `value` and the `previous` integer value returned if that argument is non-NULL. Different integer widths are supported based on the platform. The desired `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, uint64_t
Unix - uint8_t, uint16_t, uint32_t, uint64_t

SEE ALSO