4.8.15   MRAPI_ATOMIC_XCHG_PTR (ABB Extension)

NAME

mrapi_atomic_xchg_ptr

SYNOPSIS

```
void  mrapi_atomic_xchg_ptr(
  MRAPI_OUT void* sync, MRAPI_IN uintptr_t*
  dest, MRAPI_IN uintptr_t exchange, MRAPI_IN
  uintptr_t compare, MRAPI_OUT uintptr_t*
  previous, MRAPI_OUT mrapi_status_t* status
);
```

DESCRIPTION

mrapi_atomic_xchg_ptr() performs atomic pointer exchange. Atomic integer exchange is provided by mrapi_atomic_xchg(). The operation is only valid for memory locations within shared memory, where the synchronization can be across real-time processes. The pointer value at destination address is replaced by exchange. The exchange argument can be NULL, otherwise it must be an address within the shared memory. The previous value is returned if that argument is non-NULL. 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

SEE ALSO