

# MPRACE Reference Manual

## 0.1

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# Chapter 1

## MPRACE Class Index

### 1.1 MPRACE Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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## Chapter 2

# MPRACE Class Documentation

### 2.1 mprace::Board Class Reference

Abstract interface to a board supported by the library.

```
#include <Board.h>
```

#### Public Member Functions

- virtual [~Board](#) ()  
*Releases a board.*
- virtual void [write](#) (unsigned int address, unsigned int value)=0  
*Write a value to the board address space.*
- virtual unsigned int [read](#) (unsigned int address)=0  
*Read a value from the board address space.*

#### Protected Member Functions

- [Board](#) ()  
*Creates a board.*

#### 2.1.1 Detailed Description

Abstract interface to a board supported by the library.

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## 2.1.2 Constructor & Destructor Documentation

### 2.1.2.1 `mprace::Board::Board()` [protected]

Creates a board.

Protected because only subclasses should be instantiated.

### 2.1.2.2 `virtual mprace::Board::~~Board()` [virtual]

Releases a board.

Must be virtual to ensure the proper subclass destructor is called.

## 2.1.3 Member Function Documentation

### 2.1.3.1 `virtual unsigned int mprace::Board::read(unsigned int address)` [pure virtual]

Read a value from the board address space.

#### Parameters:

*address* Address in the board.

#### Returns:

The value read from the board.

#### Exceptions:

*mprace::Exception* On Error.

### 2.1.3.2 `virtual void mprace::Board::write(unsigned int address, unsigned int value)` [pure virtual]

Write a value to the board address space.

#### Parameters:

*address* Address in the board.

*value* Value to write.

#### Exceptions:

*mprace::Exception* On Error.

The documentation for this class was generated from the following file:

- include/Board.h



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