Intel Hex Encoder/Decoder Class

Generated by Doxygen 1.7.1

Sat Jan 7 2012 17:39:54

Contents

Chapter 1

Class Index

1.1 Class List

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

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

Chapter 3

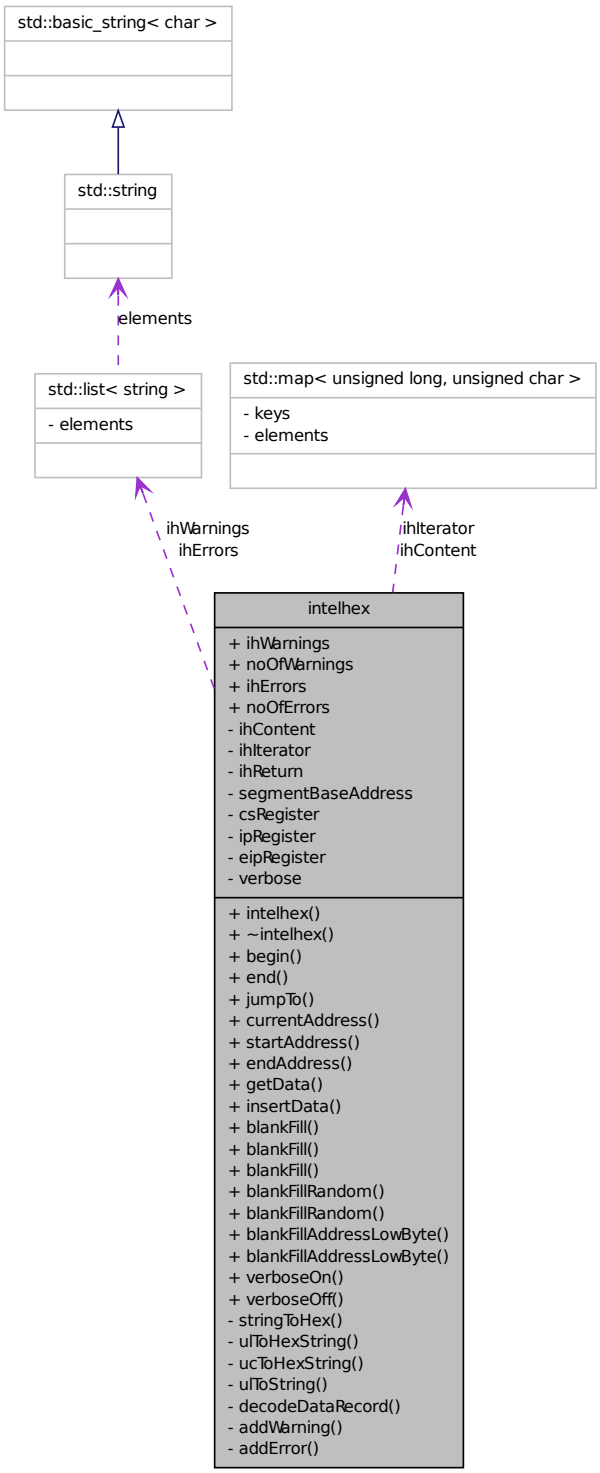
Class Documentation

3.1 intelhex Class Reference

Class to decode, encode and manipulate Intel HEX format files.

`#include <intelhexclass.hpp>`

Collaboration diagram for intelhex:



Public Member Functions

- void **begin** ()
- void **end** ()
- bool **jumpTo** (unsigned long address)
- unsigned long **currentAddress** ()
- unsigned long **startAddress** ()
- unsigned long **endAddress** ()
- unsigned char **getData** ()
- bool **insertData** (unsigned char data)
- bool **blankFill** (unsigned char data)
- bool **blankFill** (unsigned char ∗const data, unsigned long sizeOfData)
- void **blankFill** (unsigned char ∗const data, unsigned long sizeOfData, unsigned long endAddress)
- bool **blankFillRandom** ()
- void **blankFillRandom** (unsigned long endAddress)
- bool **blankFillAddressLowByte** ()
- void **blankFillAddressLowByte** (unsigned long endAddress)
- void **verboseOn** ()
- void **verboseOff** ()

Public Attributes

- list< string > **ihWarnings**
- unsigned long **noOfWarnings**
- list< string > **ihErrors**
- unsigned long **noOfErrors**

Friends

- ostream & operator<< (ostream &dataOut, const intelhex &ihLocal)
- istream & **operator**>> (istream &dataIn, intelhex &ihLocal)

3.1.1 Detailed Description

Class to decode, encode and manipulate Intel HEX format files. The Intel HEX class allows the user to stream in the content of an Intel HEX file so that its content can by analysed more easily than trying to decode the Intel HEX file in a text editor. In conjunction with a suitable application it is possible to create content, analyse content and even compare the content of files with one another.

Definition at line 83 of file intelhexclass.hpp.

3.1.2 Friends And Related Function Documentation

3.1.2.1 ostream& operator<< (ostream & *dataOut,* const intelhex & *ihLocal*) [friend]

Output stream overload operator Operator overloaded to encode any data held in memory into the Intel HEX format for storgae on disk

See also

operator>>()

Parameters

dataOut - Output stream for the encoded file information

ihLocal - Points to this class so that friend function has access to private class members

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

- intelhexclass.hpp
- intelhexclass.cpp

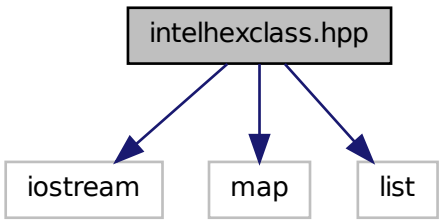
Chapter 4

File Documentation

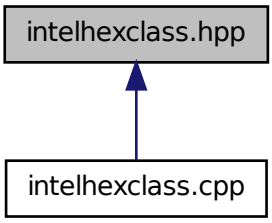
4.1 intelhexclass.hpp File Reference

```
#include <iostream>
#include <map>
#include <list>
```

Include dependency graph for intelhexclass.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class intelhex

  Class to decode, encode and manipulate Intel HEX format files.

4.1.1 Detailed Description

Author

Stuart Cording aka CODINGHEAD

A class to handle the encoding, decoding and manipulatio of an Intel HEX format file as generated by many tool chains for embedded processors and microcontrollers.

This class is constructed based upon the definition given in the document 'Hexadecimal Object File Format Specification', Revision A, January 6, 1988, © 1998 Intel Corporation.

Note

See the git versioning notes for version information

Definition in file intelhexclass.hpp.

Index