

16006 E2x/AIR

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Namespace Index

Namespace List

Here is a list of all namespaces with brief descriptions:

<u>PY AIR</u>	6
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Hierarchical Index

Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Cair_core::air_mux_table	11
reg_super	
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Class Index

Class List

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

<u>Cair_core::air_mux_table</u>	11
<u>Cair</u> (AIR model class)	13
<u>Cair_core</u> (AIR_CORE class)	47
<u>Cair_core_regif</u> (Register IF class of AIR_CORE model)	55
<u>Cair_core_regif::RegCBstr</u>	95
<u>Cair_core_regif::SRegList</u>	97

File Index

File List

Here is a list of all files with brief descriptions:

air.cpp	100
air.h	101
air_cmdif.h	102
air_core.cpp	107
air_core.h	108
air_core_regif.cpp (Register IF class of model AIR_CORE \$Id\$ \$Date\$ \$Revison\$ \$Author\$)	109
air_core_regif.h (Register IF class of model AIR_CORE \$Id\$ \$Date\$ \$Revison\$ \$Author\$)	110
PY_AIR.cpp	112
PY_AIR.h	113

Namespace Documentation

PY_AIR Namespace Reference

Functions

- void [SetPyExtCmd](#) (void)
- void [SeparateString](#) (std::vector< std::string > &vtr, const std::string msg)
- void [ProcessCommand](#) (const std::string cmd_id, const std::string cmd_name, char *token, char *input_arg)
- PyObject * [DumpStatInfoPy](#) (PyObject *self, PyObject *args)
- PyObject * [SetCLKfreqPy](#) (PyObject *self, PyObject *args)
- PyObject * [tgtPy](#) (PyObject *self, PyObject *args)
- PyObject * [regPy](#) (PyObject *self, PyObject *args)
- PyObject * [MessageLevelPy](#) (PyObject *self, PyObject *args)
- PyObject * [helpPy](#) (PyObject *self, PyObject *args)
- PyObject * [AssertResetPy](#) (PyObject *self, PyObject *args)

Variables

- PyMethodDef [mShApiDef](#) []

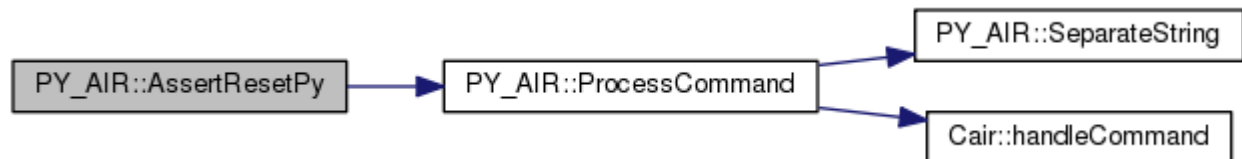
Function Documentation

static PyObject * PY_AIR::AssertResetPy (PyObject * self, PyObject * args)

Definition at line 143 of file PY_AIR.cpp.

References [ProcessCommand\(\)](#).

Here is the call graph for this function:

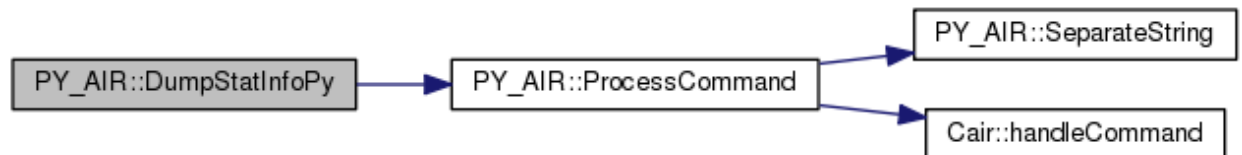


static PyObject * PY_AIR::DumpStatInfoPy (PyObject * self, PyObject * args)

Definition at line 67 of file PY_AIR.cpp.

References [ProcessCommand\(\)](#).

Here is the call graph for this function:



static PyObject * PY_AIR::helpPy (PyObject * self, PyObject * args)

Definition at line 131 of file PY_AIR.cpp.

References ProcessCommand().

Here is the call graph for this function:

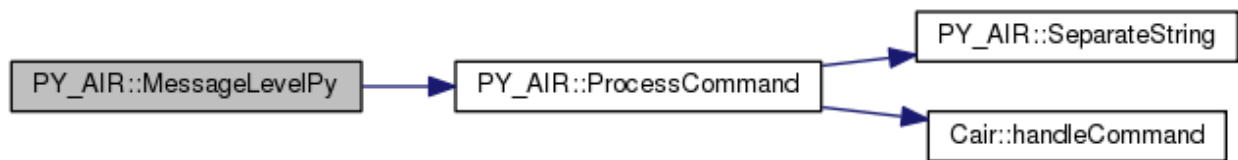


static PyObject * PY_AIR::MessageLevelPy (PyObject * self, PyObject * args)

Definition at line 118 of file PY_AIR.cpp.

References ProcessCommand().

Here is the call graph for this function:



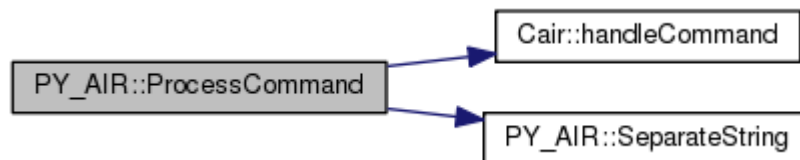
void PY_AIR::ProcessCommand (const std::string cmd_id, const std::string cmd_name, char * token, char * input_arg)

Definition at line 47 of file PY_AIR.cpp.

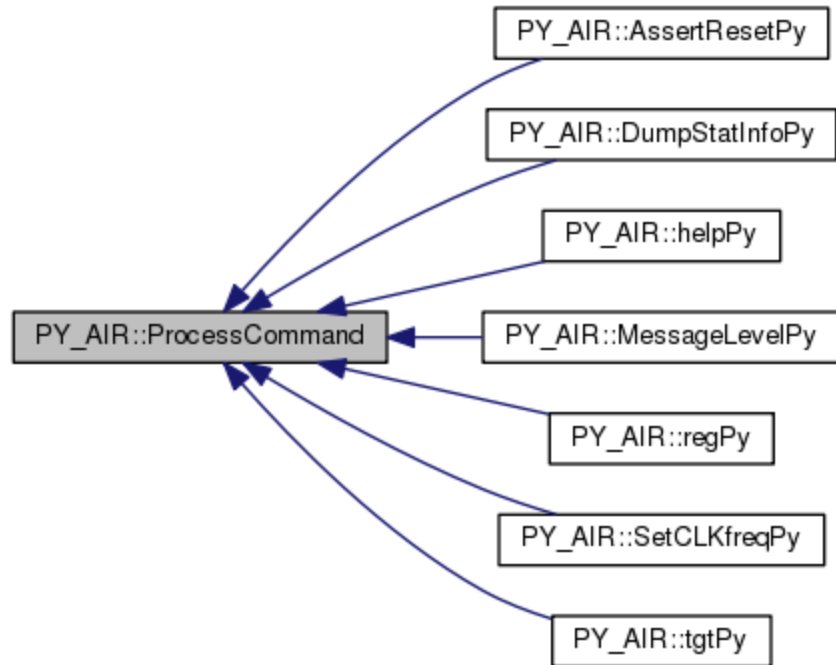
References Cair::handleCommand(), and SeparateString().

Referenced by AssertResetPy(), DumpStatInfoPy(), helpPy(), MessageLevelPy(), regPy(), SetCLKfreqPy(), and tgtPy().

Here is the call graph for this function:



Here is the caller graph for this function:



static PyObject * PY_AIR::regPy (PyObject * self, PyObject * args)

Definition at line 105 of file PY_AIR.cpp.

References ProcessCommand().

Here is the call graph for this function:

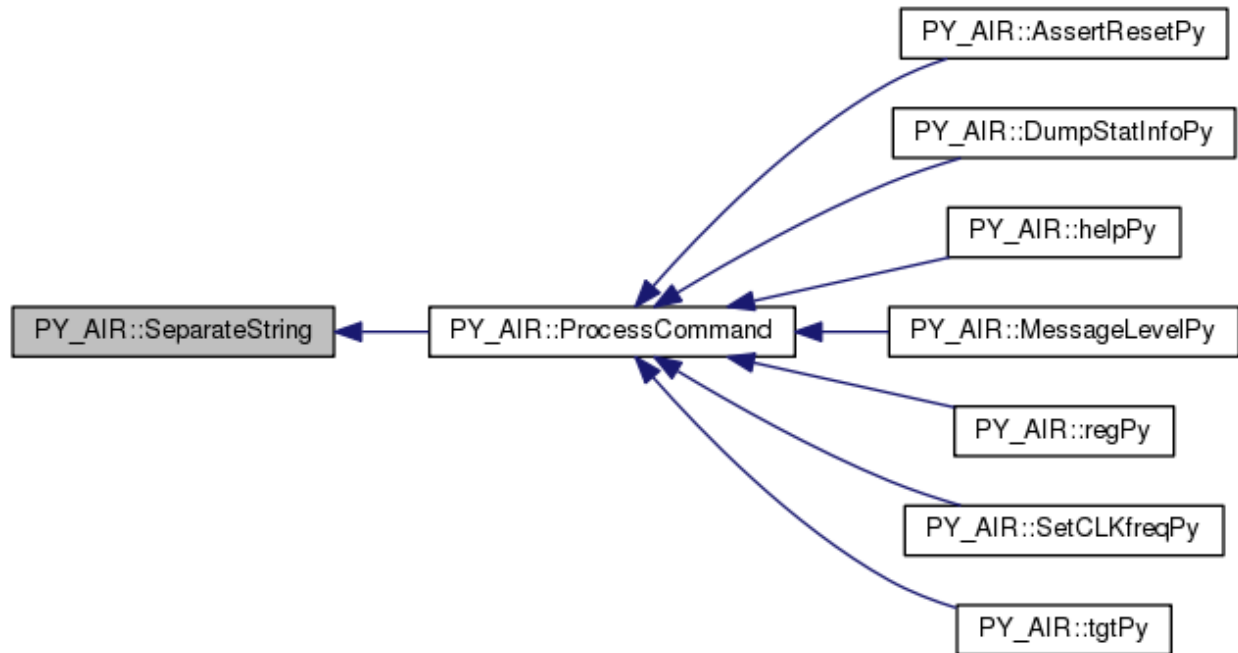


void PY_AIR::SeparateString (std::vector< std::string > & vtr, const std::string msg)

Definition at line 32 of file PY_AIR.cpp.

Referenced by ProcessCommand().

Here is the caller graph for this function:

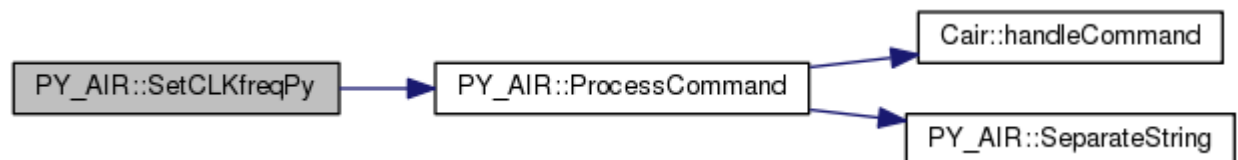


static PyObject * PY_AIR::SetCLKfreqPy (PyObject * self, PyObject * args)

Definition at line 79 of file PY_AIR.cpp.

References ProcessCommand().

Here is the call graph for this function:



void PY_AIR::SetPyExtCmd (void)

Definition at line 27 of file PY_AIR.cpp.

References mShApiDef, and PY_INITMODULE_NAME.

static PyObject * PY_AIR::tgtPy (PyObject * self, PyObject * args)

Definition at line 92 of file PY_AIR.cpp.

References ProcessCommand().

Here is the call graph for this function:



Variable Documentation

PyMethodDef PY_AIR::mShApiDef[]

```
Initial value:= {  
    {"AIR_DumpStatInfo", DumpStatInfoPy, METH_VARARGS, ""},  
    {"AIR_SetCLKfreq", SetCLKfreqPy, METH_VARARGS, ""},  
    {"AIR_tgt", tgtPy, METH_VARARGS, ""},  
    {"AIR_reg", regPy, METH_VARARGS, ""},  
    {"AIR_MessageLevel", MessageLevelPy, METH_VARARGS, ""},  
    {"AIR_help", helpPy, METH_VARARGS, ""},  
    {"AIR_AssertReset", AssertResetPy, METH_VARARGS, ""},  
    {NULL, NULL, 0, NULL}  
}
```

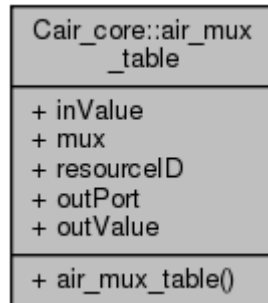
Definition at line 16 of file PY_AIR.cpp.

Referenced by SetPyExtCmd().

Class Documentation

Cair_core::air_mux_table Struct Reference

Collaboration diagram for Cair_core::air_mux_table:



Public Member Functions

- [air_mux_table](#) (bool [inValue](#), vpcl::bit_info * [mux](#), unsigned int id, unsigned int [outPort](#), bool [outValue](#))

Public Attributes

- bool [inValue](#)
- vpcl::bit_info * [mux](#)
- unsigned int [resourceID](#)
- unsigned int [outPort](#)
- bool [outValue](#)

Detailed Description

Definition at line 43 of file air_core.h.

Constructor & Destructor Documentation

Cair_core::air_mux_table::air_mux_table (bool *inValue*, vpcl::bit_info * *mux*, unsigned int *id*, unsigned int *outPort*, bool *outValue*) [*inline*]

Definition at line 50 of file air_core.h.

References [inValue](#), [mux](#), [outPort](#), [outValue](#), and [resourceID](#).

Member Data Documentation

bool Cair_core::air_mux_table::inValue

Definition at line 44 of file air_core.h.

Referenced by `air_mux_table()`.

`vpcl::bit_info* Cair_core::air_mux_table::mux`

Definition at line 45 of file `air_core.h`.

Referenced by `air_mux_table()`.

`unsigned int Cair_core::air_mux_table::outPort`

Definition at line 47 of file `air_core.h`.

Referenced by `air_mux_table()`.

`bool Cair_core::air_mux_table::outValue`

Definition at line 48 of file `air_core.h`.

Referenced by `air_mux_table()`.

`unsigned int Cair_core::air_mux_table::resourceID`

Definition at line 46 of file `air_core.h`.

Referenced by `air_mux_table()`.

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

- [air_core.h](#)

Cair Class Reference

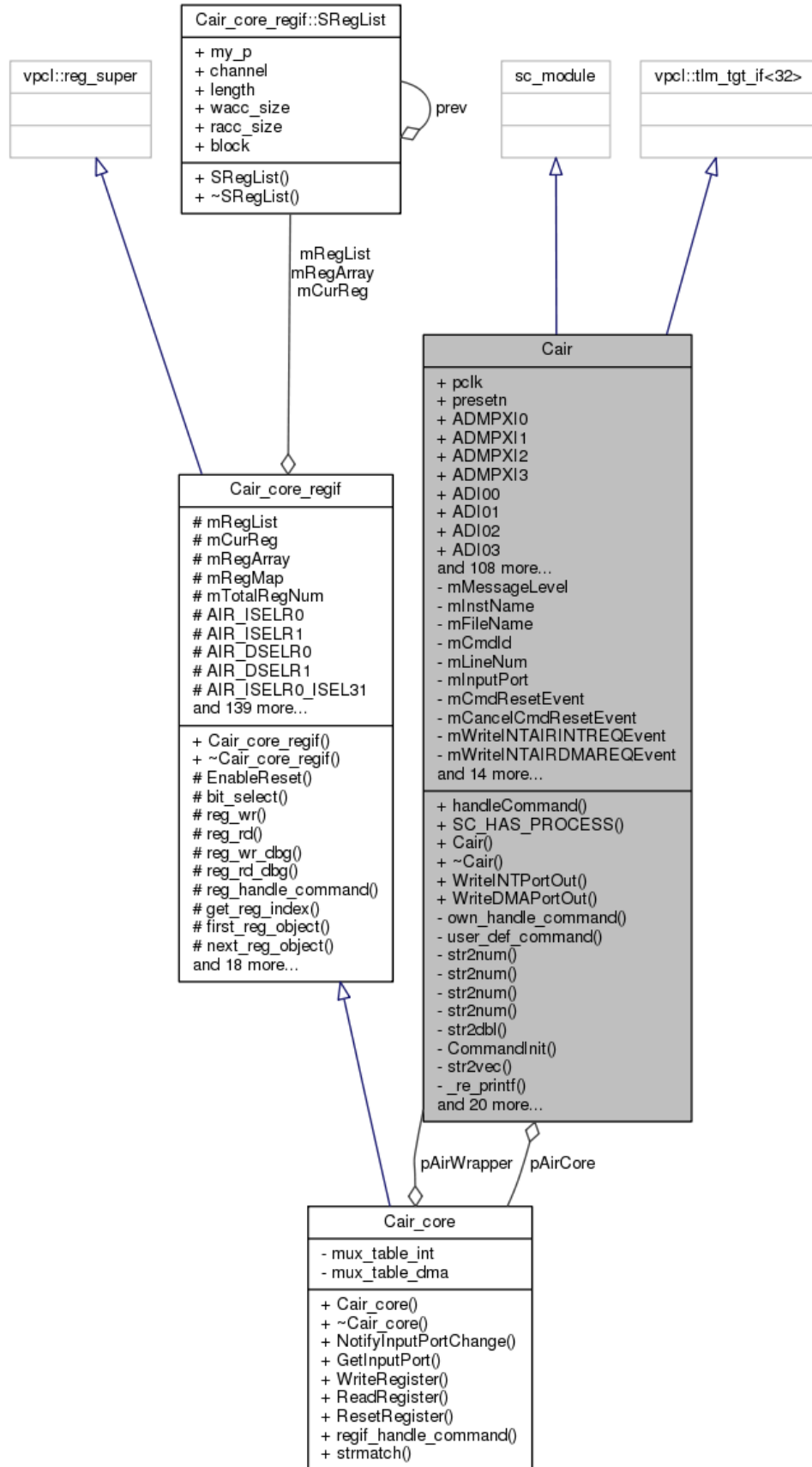
AIR model class.

```
#include <air.h>
```

Inheritance diagram for Cair:



Collaboration diagram for Cair:



Public Member Functions

- std::string [handleCommand](#) (const std::vector< std::string > &args)
- [SC_HAS_PROCESS](#) ([Cair](#))
- [Cair](#) (sc_module_name name)
- [~Cair](#) ()
- void [WriteINTPortOut](#) (unsigned int index, bool is_active)
- void [WriteDMAPortOut](#) (unsigned int index, bool is_active)

Public Attributes

- sc_in< sc_dt::uint64 > [pclk](#)
- sc_in< bool > [presetn](#)
- sc_in< bool > [ADMPXI0](#)
- sc_in< bool > [ADMPXI1](#)
- sc_in< bool > [ADMPXI2](#)
- sc_in< bool > [ADMPXI3](#)
- sc_in< bool > [ADI00](#)
- sc_in< bool > [ADI01](#)
- sc_in< bool > [ADI02](#)
- sc_in< bool > [ADI03](#)
- sc_in< bool > [ADI04](#)
- sc_in< bool > [ADI10](#)
- sc_in< bool > [ADI11](#)
- sc_in< bool > [ADI12](#)
- sc_in< bool > [ADI13](#)
- sc_in< bool > [ADI14](#)
- sc_in< bool > [ADI20](#)
- sc_in< bool > [ADI21](#)
- sc_in< bool > [ADI22](#)
- sc_in< bool > [ADI23](#)
- sc_in< bool > [ADI24](#)
- sc_in< bool > [ADI30](#)
- sc_in< bool > [ADI31](#)
- sc_in< bool > [ADI32](#)
- sc_in< bool > [ADI33](#)
- sc_in< bool > [ADI34](#)
- sc_in< bool > [ADE0](#)
- sc_in< bool > [ADE1](#)
- sc_in< bool > [ADE2](#)
- sc_in< bool > [ADE3](#)
- sc_in< bool > [DSADE00](#)
- sc_in< bool > [DSADE10](#)
- sc_in< bool > [DSADE20](#)
- sc_in< bool > [DSADE11](#)
- sc_in< bool > [DSADE12](#)
- sc_in< bool > [DSADE13](#)
- sc_in< bool > [DSADI00](#)
- sc_in< bool > [DSADI10](#)
- sc_in< bool > [DSADI20](#)
- sc_in< bool > [DSADI11](#)
- sc_in< bool > [DSADI12](#)

- sc_in< bool > [DSADI13](#)
- sc_in< bool > [CADE00](#)
- sc_in< bool > [CADI00](#)
- sc_in< bool > [ASI0](#)
- sc_in< bool > [ASI1](#)
- sc_in< bool > [ASI2](#)
- sc_in< bool > [ASI3](#)
- sc_in< bool > [ASI4](#)
- sc_in< bool > [ASI5](#)
- sc_in< bool > [ASI6](#)
- sc_in< bool > [ASI7](#)
- sc_in< bool > [ASI8](#)
- sc_in< bool > [ASI9](#)
- sc_in< bool > [ASI10](#)
- sc_in< bool > [ASI11](#)
- sc_in< bool > [ASI12](#)
- sc_in< bool > [ASI13](#)
- sc_in< bool > [ASI14](#)
- sc_in< bool > [ASI15](#)
- sc_in< bool > [BFP0](#)
- sc_in< bool > [BFP1](#)
- sc_in< bool > [BFP2](#)
- sc_in< bool > [BFP3](#)
- sc_in< bool > [BFP4](#)
- sc_in< bool > [BFP5](#)
- sc_in< bool > [BFP6](#)
- sc_in< bool > [BFP7](#)
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- sc_in< bool > [BFP28](#)
- sc_in< bool > [BFP29](#)
- sc_in< bool > [BFP30](#)
- sc_in< bool > [BFP31](#)
- sc_in< bool > [BFP32](#)
- sc_in< bool > [BFP33](#)

- `sc_in< bool > BFP34`
- `sc_in< bool > BFP35`
- `sc_in< bool > BFP36`
- `sc_in< bool > BFP37`
- `sc_in< bool > BFP38`
- `sc_in< bool > BFP39`
- `sc_in< bool > DSADE14`
- `sc_in< bool > DSADE15`
- `sc_in< bool > DSADE21`
- `sc_in< bool > DSADE22`
- `sc_in< bool > DSADI14`
- `sc_in< bool > DSADI15`
- `sc_in< bool > DSADI21`
- `sc_in< bool > DSADI22`
- `sc_in< bool > BFP40`
- `sc_in< bool > BFP41`
- `sc_in< bool > BFP42`
- `sc_in< bool > BFP43`
- `sc_in< bool > BFP44`
- `sc_in< bool > BFP45`
- `sc_in< bool > BFP46`
- `sc_in< bool > BFP47`
- `sc_out< bool > INTAIRINTREQ [emNumOfOutputPort]`
- `sc_out< bool > INTAIRDMAREQ [emNumOfOutputPort]`

Private Types

- `enum eAirConstant { emNumOfOutputPort = 64, emNumOfInputPort = 114 }`
- `enum eAirState { emResetState = 0, emOperateState = 1 }`
- `enum eTimeUnit { emNanoSecond = 1000000000 }`

Private Member Functions

- `std::string own_handle_command (std::vector< std::string > &args)`
- `std::string user_def_command (std::vector< std::string > &args)`
- `bool str2num (std::string str, bool &num)`
- `bool str2num (std::string str, char &num)`
- `bool str2num (std::string str, unsigned char &num)`
- `template<typename T > bool str2num (std::string str, T &num)`
- `bool str2dbl (std::string str, double &num)`
- `void CommandInit (std::string name="")`
- `std::vector< std::string > str2vec (std::string str, const char sep)`
- `void re_printf (std::string group, const char *message,...)`
- `void get_fileline (std::string filename, int line_number)`
- `bool strmatch (const char *ptn, const char *str)`
- `void tgt_acc (unsigned int id, tlm::tlm_generic_payload &trans, sc_time &t)`
- `void tgt_acc (tlm::tlm_generic_payload &trans, sc_time &t)`
- `unsigned int tgt_acc_dbg (unsigned int id, tlm::tlm_generic_payload &trans)`
- `unsigned int tgt_acc_dbg (tlm::tlm_generic_payload &trans)`
- `void Initialize (void)`
- `double GetTimeResolution (void)`
- `void SetLatency_TLM (const double pclk_period, const bool is_constructor)`
- `void SetCLKfreq (std::string clk_name, double clk_freq)`
- `void AssertReset (double delay, double period)`

- void [EnableReset](#) (const bool is_active)
- void [WriteINTAIRDMAREQMethod](#) (void)
- void [WriteINTAIRINTREQMethod](#) (void)
- void [ReceiveInputMethod](#) (const unsigned int i)
- void [PCLKPeriodMethod](#) (void)
- void [PortResetMethod](#) (void)
- void [CmdResetMethod](#) (void)
- void [CancelCmdResetMethod](#) (void)
- void [DumpStatInfo](#) (void)

Private Attributes

- std::map< std::string, bool > [mMessageLevel](#)
- std::string [mInstName](#)
- std::string [mFileName](#)
- std::string [mCmdId](#)
- int [mLineNum](#)
- sc_in< bool > [mInputPort](#) [[emNumOfInputPort](#)]
- [Cair_core](#) * [pAirCore](#)
- sc_event [mCmdResetEvent](#)
- sc_event [mCancelCmdResetEvent](#)
- sc_event [mWriteINTAIRINTREQEvent](#)
- sc_event [mWriteINTAIRDMAREQEvent](#)
- bool [mPortReset](#)
- bool [mCmdReset](#)
- bool [mIsCmdResetStatus](#)
- bool [mIsInitialize](#)
- unsigned int [mState](#)
- double [mPCLKPeriod](#)
- double [mResetPeriod](#)
- bool [mINTOut](#) [[emNumOfOutputPort](#)]
- bool [mDMAOut](#) [[emNumOfOutputPort](#)]
- bool [mPreINTOut](#) [[emNumOfOutputPort](#)]
- bool [mPreDMAOut](#) [[emNumOfOutputPort](#)]
- std::string [mInputPortName](#) [[emNumOfInputPort](#)]
- unsigned int [mNumINTReq](#) [[emNumOfOutputPort](#)]
- unsigned int [mNumDMAReq](#) [[emNumOfOutputPort](#)]

Detailed Description

AIR model class.

Definition at line 21 of file air.h.

Member Enumeration Documentation

enum [Cair::eAirConstant](#) [`private`]

Enumerator:

emNumOfOutputPort

emNumOfInputPort

Definition at line 26 of file air.h.

enum [Cair::eAirState](#) [private]

Enumerator:

emResetState
emOperateState

Definition at line 30 of file air.h.

enum [Cair::eTimeUnit](#) [private]

Enumerator:

emNanoSecond

Definition at line 34 of file air.h.

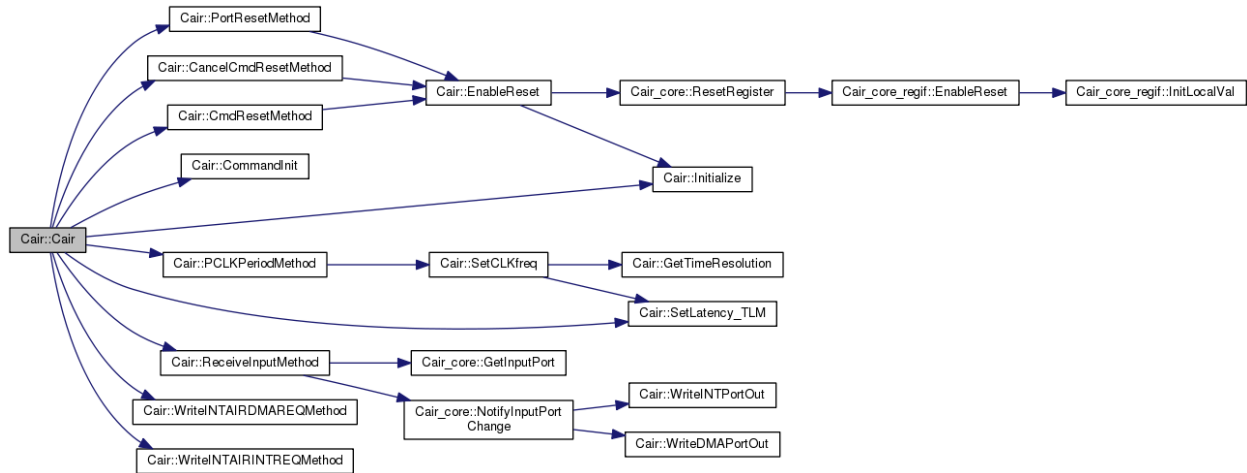
Constructor & Destructor Documentation

Cair::Cair (sc_module_name name)

Definition at line 18 of file air.cpp.

References ADE0, ADE1, ADE2, ADE3, ADI00, ADI01, ADI02, ADI03, ADI04, ADI10, ADI11, ADI12, ADI13, ADI14, ADI20, ADI21, ADI22, ADI23, ADI24, ADI30, ADI31, ADI32, ADI33, ADI34, ADMPXI0, ADMPXI1, ADMPXI2, ADMPXI3, ASI0, ASI1, ASI10, ASI11, ASI12, ASI13, ASI14, ASI15, ASI2, ASI3, ASI4, ASI5, ASI6, ASI7, ASI8, ASI9, BFP0, BFP1, BFP10, BFP11, BFP12, BFP13, BFP14, BFP15, BFP16, BFP17, BFP18, BFP19, BFP2, BFP20, BFP21, BFP22, BFP23, BFP24, BFP25, BFP26, BFP27, BFP28, BFP29, BFP3, BFP30, BFP31, BFP32, BFP33, BFP34, BFP35, BFP36, BFP37, BFP38, BFP39, BFP4, BFP40, BFP41, BFP42, BFP43, BFP44, BFP45, BFP46, BFP47, BFP5, BFP6, BFP7, BFP8, BFP9, CADE00, CADI00, CancelCmdResetMethod(), CmdResetMethod(), CommandInit(), DSADE00, DSADE10, DSADE11, DSADE12, DSADE13, DSADE14, DSADE15, DSADE20, DSADE21, DSADE22, DSADI00, DSADI10, DSADI11, DSADI12, DSADI13, DSADI14, DSADI15, DSADI20, DSADI21, DSADI22, emNumOfInputPort, emNumOfOutputPort, emOperateState, Initialize(), INTAIRDMAREQ, INTAIRINTREQ, mCancelCmdResetEvent, mCmdReset, mCmdResetEvent, mInputPort, mInputPortName, mIsCmdResetStatus, mIsInitialize, mPCLKPeriod, mPortReset, mResetPeriod, mState, mWriteINTAIRDMAREQEvent, mWriteINTAIRINTREQEvent, pAirCore, pclk, PCLKPeriodMethod(), PortResetMethod(), presetn, ReceiveInputMethod(), SetLatency_TLM(), WriteINTAIRDMAREQMethod(), and WriteINTAIRINTREQMethod().

Here is the call graph for this function:



Cair::~~Cair ()

Definition at line 422 of file air.cpp.

References pAirCore.

Member Function Documentation

void Cair::_re_printf (std::string *group*, const char * *message*, ...)[inline], [private]

Definition at line 745 of file air.h.

void Cair::AssertReset (double *delay*, double *period*)[private]

Definition at line 618 of file air.cpp.

References mCmdResetEvent, mIsCmdResetStatus, mPortReset, mResetPeriod, and re_printf.

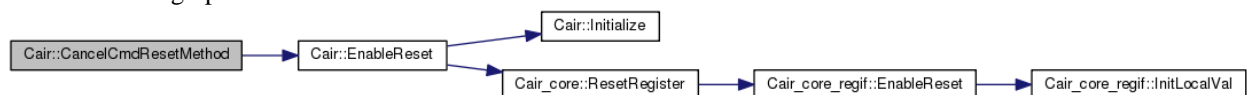
void Cair::CancelCmdResetMethod (void) [private]

Definition at line 639 of file air.cpp.

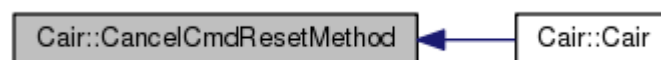
References EnableReset(), mCmdReset, and mIsCmdResetStatus.

Referenced by Cair().

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair::CmdResetMethod (void) [private]

Definition at line 632 of file air.cpp.

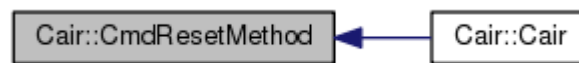
References EnableReset(), mCancelCmdResetEvent, mCmdReset, and mResetPeriod.

Referenced by Cair().

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair::CommandInit (std::string name = "") [inline], [private]

Definition at line 695 of file air.h.

Referenced by Cair().

Here is the caller graph for this function:



void Cair::DumpStatInfo (void) [private]

Definition at line 439 of file air.cpp.

References emNumOfOutputPort, mNumDMAReq, and mNumINTReq.

void Cair::EnableReset (const bool is_active) [private]

Definition at line 534 of file air.cpp.

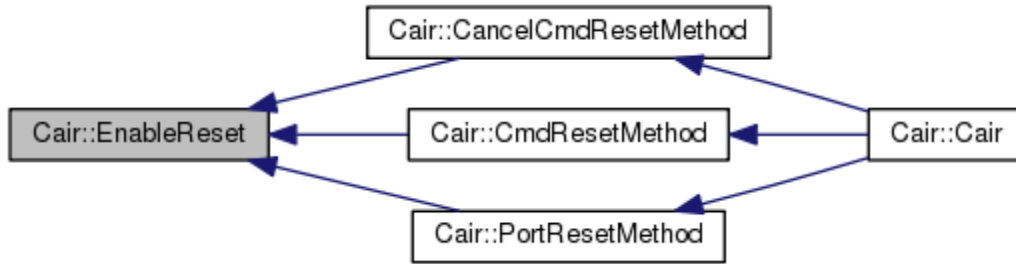
References emOperateState, emResetState, Initialize(), mState, mWriteINTAIRDMAREQEvent, mWriteINTAIRINTREQEvent, pAirCore, and Cair_core::ResetRegister().

Referenced by CancelCmdResetMethod(), CmdResetMethod(), and PortResetMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair::get_fileline (std::string *filename*, int *line_number*)[inline], [private]

Definition at line 879 of file air.h.

double Cair::GetTimeResolution (void) [private]

Definition at line 481 of file air.cpp.

Referenced by SetCLKfreq().

Here is the caller graph for this function:

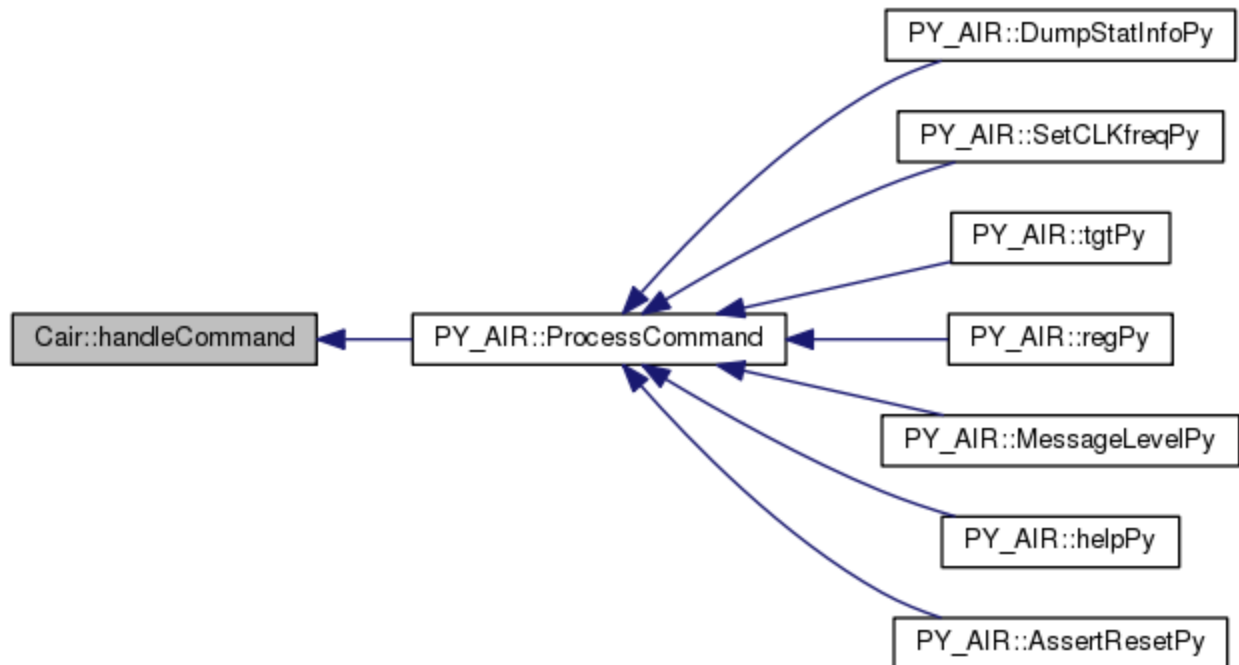


std::string Cair::handleCommand (const std::vector< std::string > & *args*)[inline]

Definition at line 45 of file air.h.

Referenced by PY_AIR::ProcessCommand().

Here is the caller graph for this function:



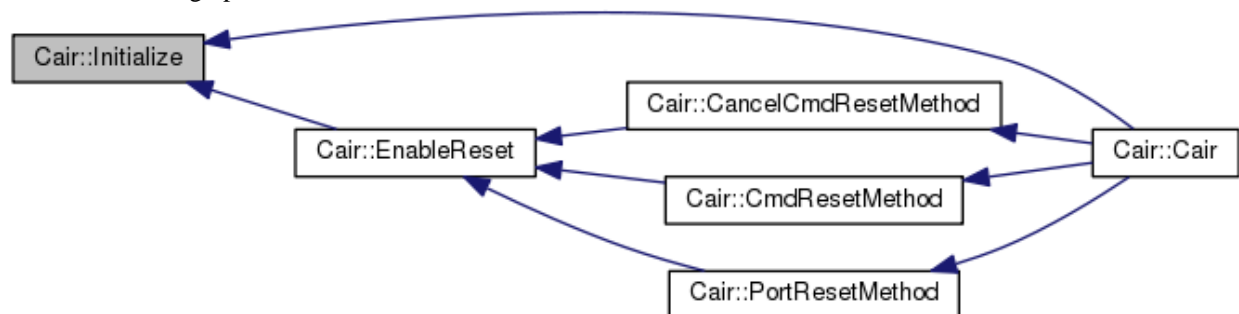
void Cair::Initialize (void) [private]

Definition at line 427 of file air.cpp.

References `emNumOfOutputPort`, `mDMAOut`, `mINTOut`, `mNumDMAReq`, `mNumINTReq`, `mPreDMAOut`, and `mPreINTOut`.

Referenced by `Cair()`, and `EnableReset()`.

Here is the caller graph for this function:



std::string Cair::own_handle_command (std::vector< std::string > & args) [inline], [private]

Definition at line 162 of file air.h.

void Cair::PCLKPeriodMethod (void) [private]

Definition at line 453 of file air.cpp.

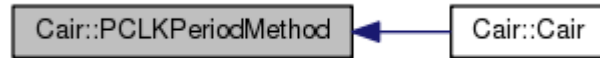
References pclk, and SetCLKfreq().

Referenced by Cair().

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair::PortResetMethod (void) [private]

Definition at line 500 of file air.cpp.

References EnableReset(), mCancelCmdResetEvent, mCmdReset, mCmdResetEvent, mIsCmdResetStatus, mIsInitialize, mPortReset, presetn, and re_printf.

Referenced by Cair().

Here is the call graph for this function:



Here is the caller graph for this function:



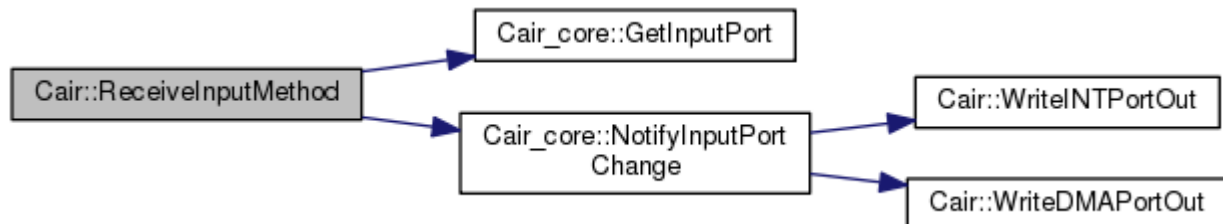
void Cair::ReceiveInputMethod (const unsigned int) [private]

Definition at line 647 of file air.cpp.

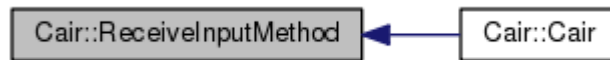
References emOperateState, Cair_core::GetInputPort(), mInputPort, mInputPortName, mPCLKPeriod, mState, mWriteINTAIRDMAREQEvent, mWriteINTAIRINTREQEvent, Cair_core::NotifyInputPortChange(), pAirCore, and re_printf.

Referenced by Cair().

Here is the call graph for this function:



Here is the caller graph for this function:



Cair::SC_HAS_PROCESS ([Cair](#))

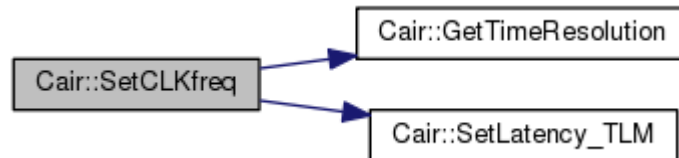
void Cair::SetCLKfreq (std::string *clk_name*, double *clk_freq*)[private]

Definition at line 458 of file air.cpp.

References `emNanoSecond`, `GetTimeResolution()`, `mPCLKPeriod`, `mWriteINTAIRDMAREQEvent`, `mWriteINTAIRINTREQEvent`, `re_printf`, and `SetLatency_TLM()`.

Referenced by `PCLKPeriodMethod()`.

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair::SetLatency_TLM (const double *pclk_period*, const bool *is_constructor*)[private]

Definition at line 704 of file air.cpp.

Referenced by `Cair()`, and `SetCLKfreq()`.

Here is the caller graph for this function:



bool Cair::str2dbl (std::string *str*, double & *num*)[inline], [private]

Definition at line 679 of file air.h.

bool Cair::str2num (std::string *str*, bool & *num*)[inline], [private]

Definition at line 572 of file air.h.

bool Cair::str2num (std::string *str*, char & *num*)[inline], [private]

Definition at line 606 of file air.h.

```
bool Cair::str2num (std::string str, unsigned char & num)[inline], [private]
```

Definition at line 630 of file air.h.

```
template<typename T > bool Cair::str2num (std::string str, T & num)[inline], [private]
```

Definition at line 655 of file air.h.

```
std::vector<std::string> Cair::str2vec (std::string str, const char sep)[inline], [private]
```

Definition at line 726 of file air.h.

```
bool Cair::strmatch (const char * ptn, const char * str)[inline], [private]
```

Definition at line 893 of file air.h.

```
void Cair::tgt_acc (unsigned int id, tlm::tlm_generic_payload & trans, sc_time & t)[private]
```

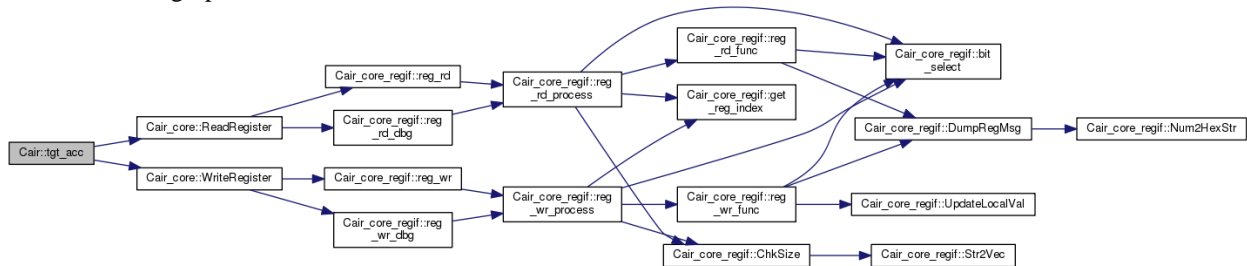
Definition at line 547 of file air.cpp.

```
void Cair::tgt_acc (tlm::tlm_generic_payload & trans, sc_time & t)[private]
```

Definition at line 553 of file air.cpp.

References pAirCore, Cair_core::ReadRegister(), and Cair_core::WriteRegister().

Here is the call graph for this function:



```
unsigned int Cair::tgt_acc_dbg (unsigned int id, tlm::tlm_generic_payload & trans)[private]
```

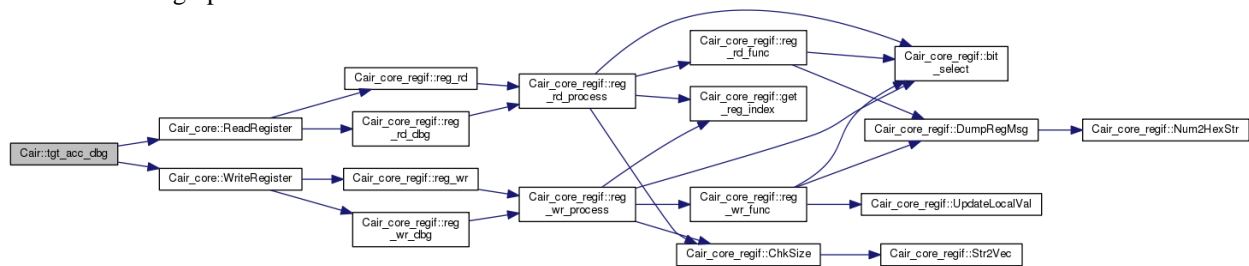
Definition at line 581 of file air.cpp.

```
unsigned int Cair::tgt_acc_dbg (tlm::tlm_generic_payload & trans)[private]
```

Definition at line 587 of file air.cpp.

References pAirCore, Cair_core::ReadRegister(), and Cair_core::WriteRegister().

Here is the call graph for this function:



std::string Cair::user_def_command (std::vector< std::string > & args)[inline], [private]

Definition at line 419 of file air.h.

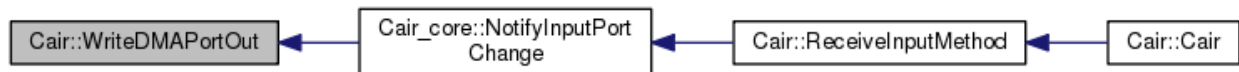
void Cair::WriteDMAPortOut (unsigned int *index*, bool *is_active*)

Definition at line 695 of file air.cpp.

References emNumOfOutputPort, mDMAOut, and mNumDMAReq.

Referenced by Cair_core::NotifyInputPortChange().

Here is the caller graph for this function:



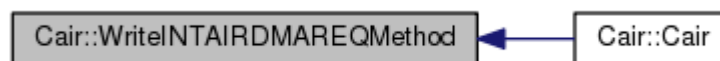
void Cair::WriteINTAIRDMAREQMethod (void) [private]

Definition at line 663 of file air.cpp.

References emNumOfOutputPort, INTAIRDMAREQ, mDMAOut, mPreDMAOut, and re_printf.

Referenced by Cair().

Here is the caller graph for this function:



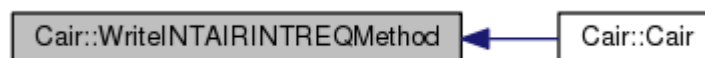
void Cair::WriteINTAIRINTREQMethod (void) [private]

Definition at line 675 of file air.cpp.

References emNumOfOutputPort, INTAIRINTREQ, mINTOut, mPreINTOut, and re_printf.

Referenced by Cair().

Here is the caller graph for this function:



void Cair::WriteINTPortOut (unsigned int *index*, bool *is_active*)

Definition at line 686 of file air.cpp.

References emNumOfOutputPort, mINTOut, and mNumINTReq.

Referenced by Cair_core::NotifyInputPortChange().

Here is the caller graph for this function:



Member Data Documentation

sc_in<bool> Cair::ADE0

Definition at line 112 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADE1

Definition at line 113 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADE2

Definition at line 114 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADE3

Definition at line 115 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI00

Definition at line 92 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI01

Definition at line 93 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI02

Definition at line 94 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI03

Definition at line 95 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI04

Definition at line 96 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI10

Definition at line 97 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI11

Definition at line 98 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI12

Definition at line 99 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI13

Definition at line 100 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI14

Definition at line 101 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI20

Definition at line 102 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI21

Definition at line 103 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI22

Definition at line 104 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI23

Definition at line 105 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI24

Definition at line 106 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI30

Definition at line 107 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI31

Definition at line 108 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI32

Definition at line 109 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI33

Definition at line 110 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADI34

Definition at line 111 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADMPXI0

Definition at line 88 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADMPXI1

Definition at line 89 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADMPXI2

Definition at line 90 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ADMPXI3

Definition at line 91 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI0

Definition at line 130 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI1

Definition at line 131 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI10

Definition at line 140 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI11

Definition at line 141 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI12

Definition at line 142 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI13

Definition at line 143 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI14

Definition at line 144 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI15

Definition at line 145 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI2

Definition at line 132 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI3

Definition at line 133 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI4

Definition at line 134 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI5

Definition at line 135 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI6

Definition at line 136 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI7

Definition at line 137 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI8

Definition at line 138 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::ASI9

Definition at line 139 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP0

Definition at line 146 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP1

Definition at line 147 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP10

Definition at line 156 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP11

Definition at line 157 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP12

Definition at line 158 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP13

Definition at line 159 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP14

Definition at line 160 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP15

Definition at line 161 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP16

Definition at line 162 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP17

Definition at line 163 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP18

Definition at line 164 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP19

Definition at line 165 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP2

Definition at line 148 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP20

Definition at line 166 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP21

Definition at line 167 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP22

Definition at line 168 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP23

Definition at line 169 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP24

Definition at line 170 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP25

Definition at line 171 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP26

Definition at line 172 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP27

Definition at line 173 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP28

Definition at line 174 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP29

Definition at line 175 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP3

Definition at line 149 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP30

Definition at line 176 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP31

Definition at line 177 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP32

Definition at line 178 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP33

Definition at line 179 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP34

Definition at line 180 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP35

Definition at line 181 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP36

Definition at line 182 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP37

Definition at line 183 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP38

Definition at line 184 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP39

Definition at line 185 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP4

Definition at line 150 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP40

Definition at line 195 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP41

Definition at line 196 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP42

Definition at line 197 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP43

Definition at line 198 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP44

Definition at line 199 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP45

Definition at line 200 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP46

Definition at line 201 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP47

Definition at line 202 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP5

Definition at line 151 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP6

Definition at line 152 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP7

Definition at line 153 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP8

Definition at line 154 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::BFP9

Definition at line 155 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::CADE00

Definition at line 128 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::CADI00

Definition at line 129 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE00

Definition at line 116 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE10

Definition at line 117 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE11

Definition at line 119 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE12

Definition at line 120 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE13

Definition at line 121 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE14

Definition at line 187 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE15

Definition at line 188 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE20

Definition at line 118 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE21

Definition at line 189 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADE22

Definition at line 190 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI00

Definition at line 122 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI10

Definition at line 123 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI11

Definition at line 125 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI12

Definition at line 126 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI13

Definition at line 127 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI14

Definition at line 191 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI15

Definition at line 192 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI20

Definition at line 124 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI21

Definition at line 193 of file air.h.

Referenced by Cair().

sc_in<bool> Cair::DSADI22

Definition at line 194 of file air.h.

Referenced by Cair().

sc_out<bool> Cair::INTAIRDMAREQ[[emNumOfOutputPort](#)]

Definition at line 205 of file air.h.

Referenced by Cair(), and WriteINTAIRDMAREQMethod().

sc_out<bool> Cair::INTAIRINTREQ[[emNumOfOutputPort](#)]

Definition at line 204 of file air.h.

Referenced by Cair(), and WriteINTAIRINTREQMethod().

sc_event Cair::mCancelCmdResetEvent [private]

Definition at line 42 of file air.h.

Referenced by Cair(), CmdResetMethod(), and PortResetMethod().

std::string Cair::mCmdId [private]

Definition at line 930 of file air.h.

bool Cair::mCmdReset [private]

Definition at line 47 of file air.h.

Referenced by Cair(), CancelCmdResetMethod(), CmdResetMethod(), and PortResetMethod().

sc_event Cair::mCmdResetEvent [private]

Definition at line 41 of file air.h.

Referenced by AssertReset(), Cair(), and PortResetMethod().

bool Cair::mDMAOut[\[emNumOfOutputPort\]](#) [private]

Definition at line 54 of file air.h.

Referenced by Initialize(), WriteDMAPortOut(), and WriteINTAIRDMAREQMethod().

std::string Cair::mFileName [private]

Definition at line 929 of file air.h.

sc_in<bool> Cair::mInputPort[\[emNumOfInputPort\]](#) [private]

Definition at line 38 of file air.h.

Referenced by Cair(), and ReceiveInputMethod().

std::string Cair::mInputPortName[\[emNumOfInputPort\]](#) [private]

Definition at line 57 of file air.h.

Referenced by Cair(), and ReceiveInputMethod().

std::string Cair::mInstName [private]

Definition at line 928 of file air.h.

bool Cair::mINTOut[\[emNumOfOutputPort\]](#) [private]

Definition at line 53 of file air.h.

Referenced by Initialize(), WriteINTAIRINTREQMethod(), and WriteINTPortOut().

bool Cair::mIsCmdResetStatus [private]

Definition at line 48 of file air.h.

Referenced by AssertReset(), Cair(), CancelCmdResetMethod(), and PortResetMethod().

bool Cair::mIsInitialize [private]

Definition at line 49 of file air.h.

Referenced by Cair(), and PortResetMethod().

int Cair::mLineNum [private]

Definition at line 931 of file air.h.

std::map<std::string, bool> Cair::mMessageLevel [private]

Definition at line 921 of file air.h.

unsigned int Cair::mNumDMAReq[\[emNumOfOutputPort\]](#) [private]

Definition at line 59 of file air.h.

Referenced by DumpStatInfo(), Initialize(), and WriteDMAPortOut().

unsigned int Cair::mNumINTReq[\[emNumOfOutputPort\]](#) [private]

Definition at line 58 of file air.h.

Referenced by DumpStatInfo(), Initialize(), and WriteINTPortOut().

double Cair::mPCLKPeriod [private]

Definition at line 51 of file air.h.

Referenced by Cair(), ReceiveInputMethod(), and SetCLKfreq().

bool Cair::mPortReset [private]

Definition at line 46 of file air.h.

Referenced by AssertReset(), Cair(), and PortResetMethod().

bool Cair::mPreDMAOut[\[emNumOfOutputPort\]](#) [private]

Definition at line 56 of file air.h.

Referenced by Initialize(), and WriteINTAIRDMAREQMethod().

bool Cair::mPreINTOut[\[emNumOfOutputPort\]](#) **[private]**

Definition at line 55 of file air.h.

Referenced by Initialize(), and WriteINTAIRINTREQMethod().

double Cair::mResetPeriod **[private]**

Definition at line 52 of file air.h.

Referenced by AssertReset(), Cair(), and CmdResetMethod().

unsigned int Cair::mState **[private]**

Definition at line 50 of file air.h.

Referenced by Cair(), EnableReset(), and ReceiveInputMethod().

sc_event Cair::mWriteINTAIRDMAREQEvent **[private]**

Definition at line 44 of file air.h.

Referenced by Cair(), EnableReset(), ReceiveInputMethod(), and SetCLKfreq().

sc_event Cair::mWriteINTAIRINTREQEvent **[private]**

Definition at line 43 of file air.h.

Referenced by Cair(), EnableReset(), ReceiveInputMethod(), and SetCLKfreq().

[Cair_core](#)* **Cair::pAirCore** **[private]**

Definition at line 40 of file air.h.

Referenced by Cair(), EnableReset(), ReceiveInputMethod(), tgt_acc(), tgt_acc_dbg(), and ~Cair().

sc_in<sc_dt::uint64> Cair::pclk

Definition at line 85 of file air.h.

Referenced by Cair(), and PCLKPeriodMethod().

sc_in<bool> Cair::presetn

Definition at line 86 of file air.h.

Referenced by Cair(), and PortResetMethod().

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

- [air.h](#)

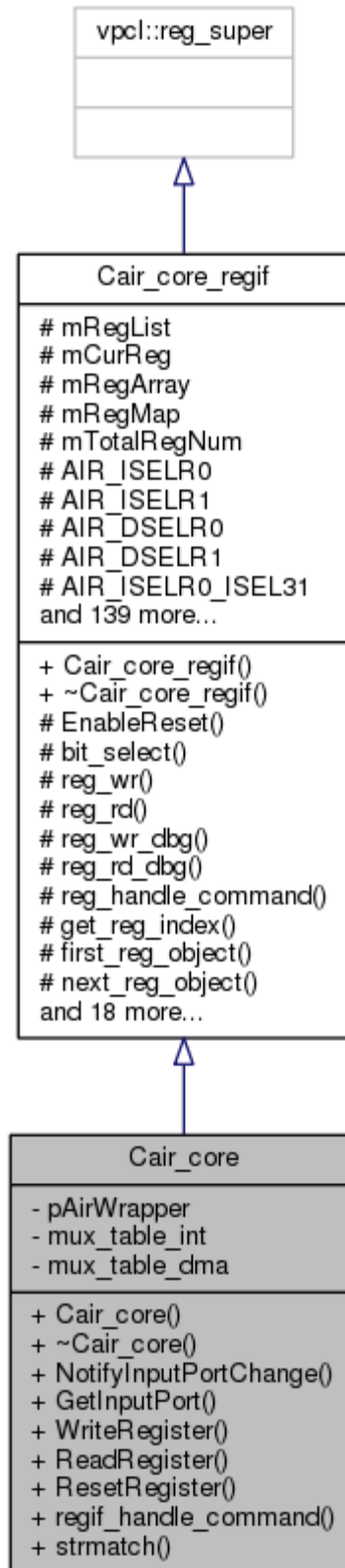
- [air_cmdif.h](#)
- [air.cpp](#)

Cair_core Class Reference

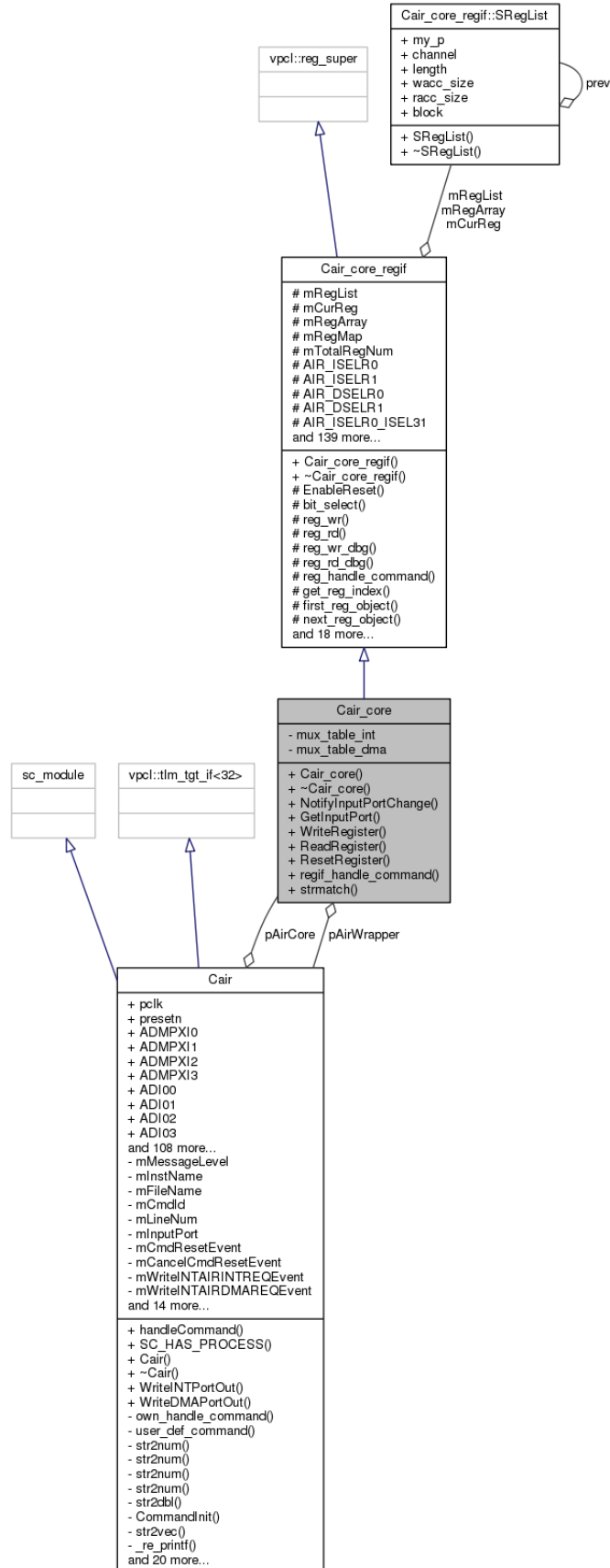
AIR_CORE class.

```
#include <air_core.h>
```

Inheritance diagram for Cair_core:



Collaboration diagram for Cair_core:



Classes

- struct [air_mux_table](#)

Public Types

- enum [eAirCoreConstant](#) { [emResource0](#) = 0, [emResource1](#) = 1, [emNotResource](#) = 2 }

Public Member Functions

- [Cair_core](#) (std::string name, [Cair](#) *air)
- [~Cair_core](#) ()
- void [NotifyInputPortChange](#) (unsigned int index, bool is_active)
- bool [GetInputPort](#) (unsigned int index)
- bool [WriteRegister](#) ([cuint](#) addr, const unsigned char *p_data, [cuint](#) size, bool is_debug)
- bool [ReadRegister](#) ([cuint](#) addr, unsigned char *p_data, [cuint](#) size, bool is_debug)
- void [ResetRegister](#) (bool is_active)
- std::string [regif_handle_command](#) (std::vector< std::string > &args)
- bool [strmatch](#) (const char *ptn, const char *str)

Private Attributes

- [Cair](#) * [pAirWrapper](#)
- std::vector< [air_mux_table](#) > [mux_table_int](#)
- std::vector< [air_mux_table](#) > [mux_table_dma](#)

Friends

- class [Cair](#)

Additional Inherited Members

Detailed Description

AIR_CORE class.

Definition at line 19 of file air_core.h.

Member Enumeration Documentation

enum [Cair_core::eAirCoreConstant](#)

Enumerator:

emResource0
emResource1
emNotResource

Definition at line 23 of file air_core.h.

Constructor & Destructor Documentation

Cair_core::Cair_core (std::string *name*, [Cair](#) * *air*)

Definition at line 18 of file air_core.cpp.

References Cair_core_regif::AIR_DSELR0, Cair_core_regif::AIR_DSELR1, Cair_core_regif::AIR_ISELR0, Cair_core_regif::AIR_ISELR1, emNotResource, emResource0, emResource1, mux_table_dma, mux_table_int, and pAirWrapper.

Cair_core::~Cair_core ()

Definition at line 259 of file air_core.cpp.

Member Function Documentation

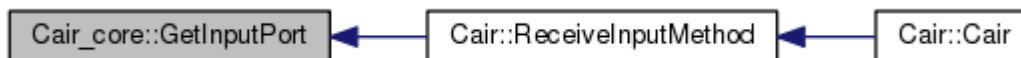
bool Cair_core::GetInputPort (unsigned int *index*)

Definition at line 303 of file air_core.cpp.

References mux_table_int.

Referenced by Cair::ReceiveInputMethod().

Here is the caller graph for this function:



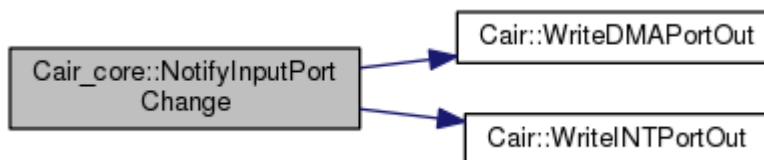
void Cair_core::NotifyInputPortChange (unsigned int *index*, bool *is_active*)

Definition at line 284 of file air_core.cpp.

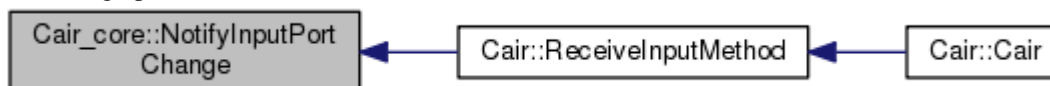
References emNotResource, mux_table_dma, mux_table_int, pAirWrapper, Cair::WriteDMAPortOut(), and Cair::WriteINTPortOut().

Referenced by Cair::ReceiveInputMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



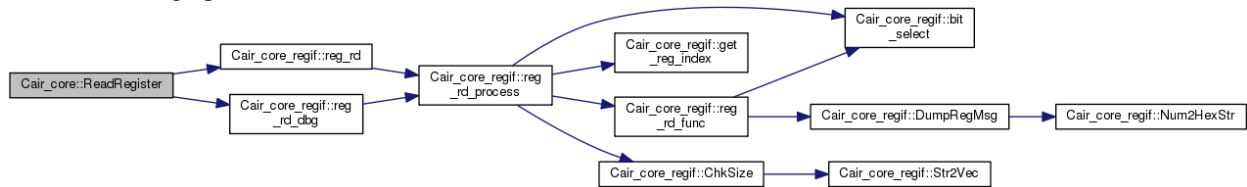
bool Cair_core::ReadRegister (cuint addr, unsigned char * p_data, cuint size, bool is_debug)

Definition at line 274 of file air_core.cpp.

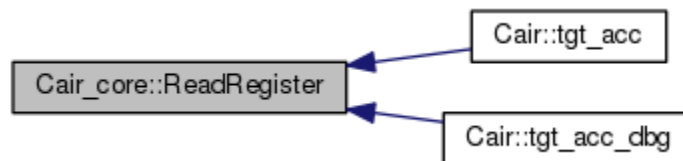
References Cair_core_regif::reg_rd(), and Cair_core_regif::reg_rd_dbg().

Referenced by Cair::tgt_acc(), and Cair::tgt_acc_dbg().

Here is the call graph for this function:



Here is the caller graph for this function:

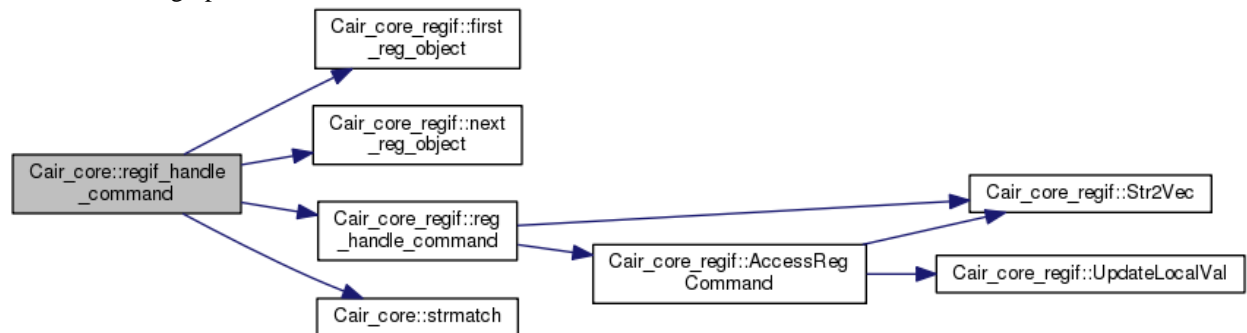


std::string Cair_core::regif_handle_command (std::vector< std::string > & args)

Definition at line 314 of file air_core.cpp.

References Cair_core_regif::first_reg_object(), Cair_core_regif::mInstName, Cair_core_regif::next_reg_object(), Cair_core_regif::reg_handle_command(), and strmatch().

Here is the call graph for this function:



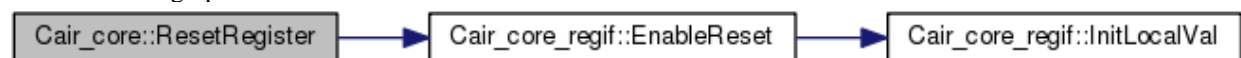
void Cair_core::ResetRegister (bool is_active)

Definition at line 309 of file air_core.cpp.

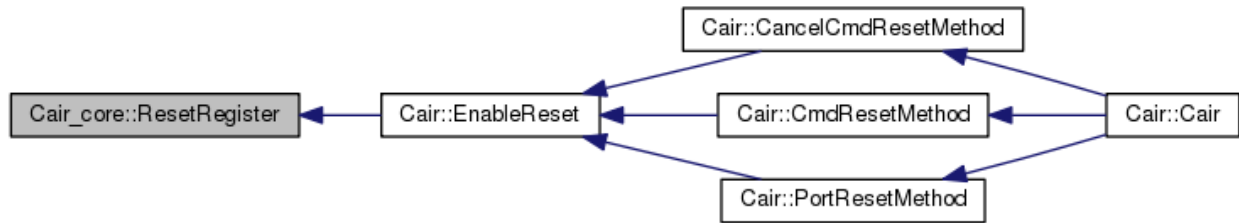
References Cair_core_regif::EnableReset().

Referenced by Cair::EnableReset().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core::strmatch (const char * *ptn*, const char * *str*)

Definition at line 353 of file air_core.cpp.

Referenced by regif_handle_command().

Here is the caller graph for this function:



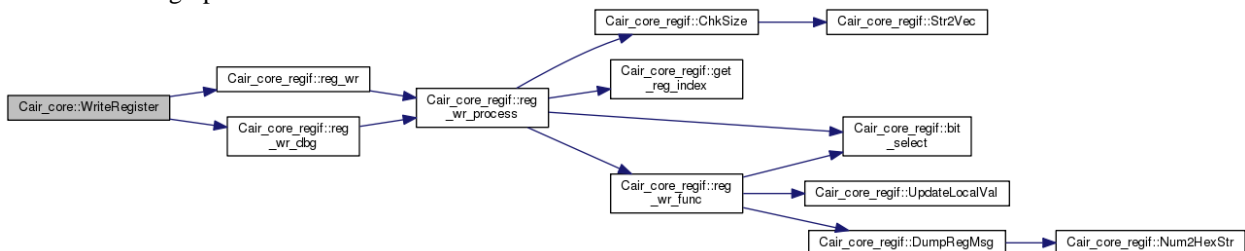
bool Cair_core::WriteRegister ([cuint](#) *addr*, const unsigned char * *p_data*, [cuint](#) *size*, bool *is_debug*)

Definition at line 264 of file air_core.cpp.

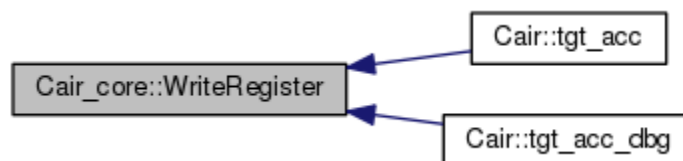
References Cair_core_regif::reg_wr(), and Cair_core_regif::reg_wr_dbg().

Referenced by Cair::tgt_acc(), and Cair::tgt_acc_dbg().

Here is the call graph for this function:



Here is the caller graph for this function:



Friends And Related Function Documentation

friend class [Cair](#) [friend]

Definition at line 22 of file air_core.h.

Member Data Documentation

std::vector<[air_mux_table](#)> Cair_core::mux_table_dma [private]

Definition at line 61 of file air_core.h.

Referenced by Cair_core(), and NotifyInputPortChange().

std::vector<[air_mux_table](#)> Cair_core::mux_table_int [private]

Definition at line 60 of file air_core.h.

Referenced by Cair_core(), GetInputPort(), and NotifyInputPortChange().

[Cair](#)* Cair_core::pAirWrapper [private]

Definition at line 41 of file air_core.h.

Referenced by Cair_core(), and NotifyInputPortChange().

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

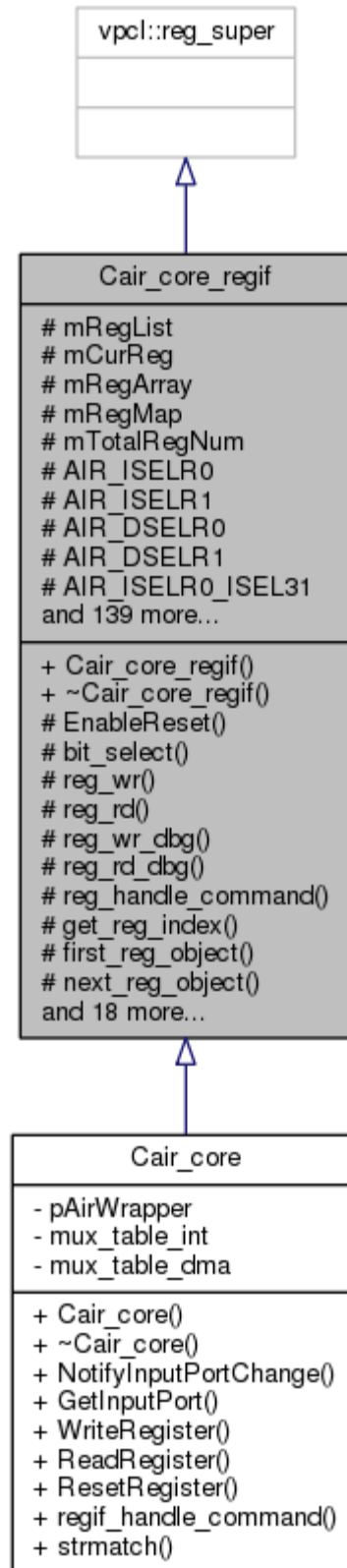
- [air_core.h](#)
- [air_core.cpp](#)

Cair_core_regif Class Reference

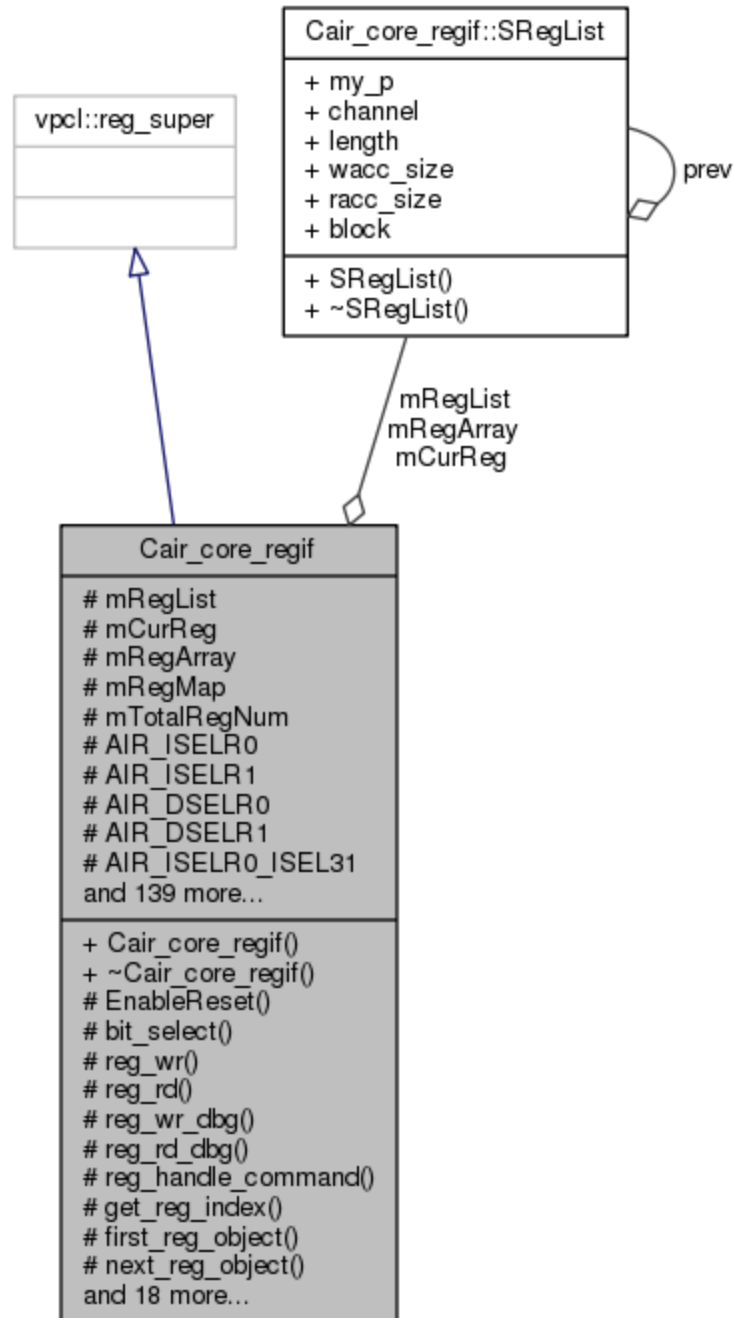
Register IF class of AIR_CORE model.

```
#include <air_core_regif.h>
```

Inheritance diagram for Cair_core_regif:



Collaboration diagram for `Cair_core_regif`:



Classes

- struct [RegCBstr](#)
- struct [SRegList](#)

Public Member Functions

- [Cair_core_regif](#) (std::string name, [uint](#) buswidth)
- [~Cair_core_regif](#) ()

Protected Types

- enum [eRegGroup](#) { [emNum_of_gr](#) }
- typedef const unsigned int [cuint](#)
- typedef unsigned int [uint](#)

Protected Member Functions

- void [EnableReset](#) (const bool is_active)
- [uint bit_select](#) ([cuint](#) val, [cuint](#) start, [cuint](#) end)
- bool [reg_wr](#) ([cuint](#) addr, const unsigned char *p_data, [cuint](#) size)
- bool [reg_rd](#) ([cuint](#) addr, unsigned char *p_data, [cuint](#) size)
- bool [reg_wr_dbg](#) ([cuint](#) addr, const unsigned char *p_data, [cuint](#) size)
- bool [reg_rd_dbg](#) ([cuint](#) addr, unsigned char *p_data, [cuint](#) size)
- std::string [reg_handle_command](#) (const std::vector< std::string > &args)
- int [get_reg_index](#) ([cuint](#) addr)
- vpcl::re_register * [first_reg_object](#) ()
- vpcl::re_register * [next_reg_object](#) ()
- void [wr_cb](#) ([cuint](#) addr, [uint](#) data)
- [uint rd_cb](#) ([cuint](#) addr)
- void [set_instance_name](#) (std::string InstName)
- bool [reg_wr_process](#) ([cuint](#) addr, const unsigned char *p_data, [cuint](#) size, bool IsDbgFunc)
- bool [reg_rd_process](#) ([cuint](#) addr, unsigned char *p_data, [cuint](#) size, bool IsDbgFunc)
- bool [reg_wr_func](#) ([cuint](#) addr, const unsigned char *p_data, [cuint](#) size, [cuint](#) reg_index, bool IsDbgFunc)
- bool [reg_rd_func](#) ([cuint](#) addr, unsigned char *p_data, [cuint](#) size, [cuint](#) reg_index, bool IsDbgFunc)
- void [_re_printf](#) (const std::string msg_level, const char *format,...)
- void [get_fileline](#) (std::string filename, int line_number)
- void [CommandInit](#) ()
- bool [ChkSize](#) (std::string expect_size, [cuint](#) detect_size, [cuint](#) addr, bool is_wr)
- std::vector< std::string > [Str2Vec](#) (std::string str, const char sep)
- std::string [Num2HexStr](#) ([cuint](#) num, [cuint](#) num_length, bool space_strip, bool is_data, [uint](#) acc_size)
- void [DumpRegMsg](#) (const std::string operation, const std::string RegName, const std::string BitName, [cuint](#) size, [cuint](#) addr, [cuint](#) wr_data, [cuint](#) pre_data, [cuint](#) data, [cuint](#) reg_length)
- std::string [AccessRegCommand](#) (const std::vector< std::string > &args, vpcl::re_register *Register, bool &BlockReg)
- void [InitLocalVal](#) ()
- void [UpdateLocalVal](#) ([cuint](#) addr)
- void [UpdateRegVal](#) ([cuint](#) addr)

Protected Attributes

- struct [Cair_core_regif::SRegList](#) * [mRegList](#)
- struct [Cair_core_regif::SRegList](#) * [mCurReg](#)
- struct [Cair_core_regif::SRegList](#) ** [mRegArray](#)
- [uint](#) * [mRegMap](#)
- [uint](#) [mTotalRegNum](#)
- vpcl::re_register * [AIR_ISELR0](#)
- vpcl::re_register * [AIR_ISELR1](#)
- vpcl::re_register * [AIR_DSELR0](#)
- vpcl::re_register * [AIR_DSELR1](#)
- [uint](#) [AIR_ISELR0_ISEL31](#)
- [uint](#) [AIR_ISELR0_ISEL30](#)
- [uint](#) [AIR_ISELR0_ISEL29](#)
- [uint](#) [AIR_ISELR0_ISEL28](#)
- [uint](#) [AIR_ISELR0_ISEL27](#)

- [uint AIR ISELR0 ISEL26](#)
- [uint AIR ISELR0 ISEL25](#)
- [uint AIR ISELR0 ISEL24](#)
- [uint AIR ISELR0 ISEL23](#)
- [uint AIR ISELR0 ISEL22](#)
- [uint AIR ISELR0 ISEL21](#)
- [uint AIR ISELR0 ISEL20](#)
- [uint AIR ISELR0 ISEL19](#)
- [uint AIR ISELR0 ISEL18](#)
- [uint AIR ISELR0 ISEL17](#)
- [uint AIR ISELR0 ISEL16](#)
- [uint AIR ISELR0 ISEL15](#)
- [uint AIR ISELR0 ISEL14](#)
- [uint AIR ISELR0 ISEL13](#)
- [uint AIR ISELR0 ISEL12](#)
- [uint AIR ISELR0 ISEL11](#)
- [uint AIR ISELR0 ISEL10](#)
- [uint AIR ISELR0 ISEL9](#)
- [uint AIR ISELR0 ISEL8](#)
- [uint AIR ISELR0 ISEL7](#)
- [uint AIR ISELR0 ISEL6](#)
- [uint AIR ISELR0 ISEL5](#)
- [uint AIR ISELR0 ISEL4](#)
- [uint AIR ISELR0 ISEL3](#)
- [uint AIR ISELR0 ISEL2](#)
- [uint AIR ISELR0 ISEL1](#)
- [uint AIR ISELR0 ISEL0](#)
- [uint AIR ISELR1 ISEL63](#)
- [uint AIR ISELR1 ISEL62](#)
- [uint AIR ISELR1 ISEL61](#)
- [uint AIR ISELR1 ISEL60](#)
- [uint AIR ISELR1 ISEL59](#)
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- [uint AIR ISELR1 ISEL57](#)
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- [uint AIR ISELR1 ISEL48](#)
- [uint AIR ISELR1 ISEL47](#)
- [uint AIR ISELR1 ISEL46](#)
- [uint AIR ISELR1 ISEL45](#)
- [uint AIR ISELR1 ISEL44](#)
- [uint AIR ISELR1 ISEL43](#)
- [uint AIR ISELR1 ISEL42](#)
- [uint AIR ISELR1 ISEL41](#)
- [uint AIR ISELR1 ISEL40](#)
- [uint AIR ISELR1 ISEL39](#)
- [uint AIR ISELR1 ISEL38](#)

- [uint AIR ISELR1 ISEL37](#)
- [uint AIR ISELR1 ISEL36](#)
- [uint AIR ISELR1 ISEL35](#)
- [uint AIR ISELR1 ISEL34](#)
- [uint AIR ISELR1 ISEL33](#)
- [uint AIR ISELR1 ISEL32](#)
- [uint AIR DSELR0 DSEL31](#)
- [uint AIR DSELR0 DSEL30](#)
- [uint AIR DSELR0 DSEL29](#)
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- [uint AIR DSELR0 DSEL25](#)
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- [uint AIR DSELR0 DSEL12](#)
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- [uint AIR DSELR0 DSEL10](#)
- [uint AIR DSELR0 DSEL9](#)
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- [uint AIR DSELR0 DSEL4](#)
- [uint AIR DSELR0 DSEL3](#)
- [uint AIR DSELR0 DSEL2](#)
- [uint AIR DSELR0 DSEL1](#)
- [uint AIR DSELR0 DSEL0](#)
- [uint AIR DSELR1 DSEL63](#)
- [uint AIR DSELR1 DSEL62](#)
- [uint AIR DSELR1 DSEL61](#)
- [uint AIR DSELR1 DSEL60](#)
- [uint AIR DSELR1 DSEL59](#)
- [uint AIR DSELR1 DSEL58](#)
- [uint AIR DSELR1 DSEL57](#)
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- [uint AIR DSELR1 DSEL54](#)
- [uint AIR DSELR1 DSEL53](#)
- [uint AIR DSELR1 DSEL52](#)
- [uint AIR DSELR1 DSEL51](#)
- [uint AIR DSELR1 DSEL50](#)
- [uint AIR DSELR1 DSEL49](#)

- [uint AIR_DSELR1_DSEL48](#)
- [uint AIR_DSELR1_DSEL47](#)
- [uint AIR_DSELR1_DSEL46](#)
- [uint AIR_DSELR1_DSEL45](#)
- [uint AIR_DSELR1_DSEL44](#)
- [uint AIR_DSELR1_DSEL43](#)
- [uint AIR_DSELR1_DSEL42](#)
- [uint AIR_DSELR1_DSEL41](#)
- [uint AIR_DSELR1_DSEL40](#)
- [uint AIR_DSELR1_DSEL39](#)
- [uint AIR_DSELR1_DSEL38](#)
- [uint AIR_DSELR1_DSEL37](#)
- [uint AIR_DSELR1_DSEL36](#)
- [uint AIR_DSELR1_DSEL35](#)
- [uint AIR_DSELR1_DSEL34](#)
- [uint AIR_DSELR1_DSEL33](#)
- [uint AIR_DSELR1_DSEL32](#)
- [uint mBusByteWidth](#)
- [uint mBusWidth](#)
- bool [mIsReset](#)
- bool [mDumpRegisterRW](#)
- bool [mAPBAccessMode](#)
- bool [mDumpBitInfo](#)
- std::map< std::string, bool > [mMessageLevel](#)
- std::map< std::string,
- std::map< std::string, void(Cair_core_regif::*)(RegCbStr)> > [mWrCbAPI](#)
- std::map< std::string,
- std::map< std::string, void(Cair_core_regif::*)(RegCbStr)> > [mRdCbAPI](#)
- std::string [mFileName](#)
- std::string [mInstName](#)
- int [mLineNum](#)

Detailed Description

Register IF class of AIR_CORE model.

Definition at line 214 of file air_core_regif.h.

Member Typedef Documentation

typedef const unsigned int [Cair_core_regif::cuint](#) [protected]

Definition at line 218 of file air_core_regif.h.

typedef unsigned int [Cair_core_regif::uint](#) [protected]

Definition at line 219 of file air_core_regif.h.

Member Enumeration Documentation

enum [Cair_core_regif::eRegGroup](#) [protected]

Enumerator:

emNum_of_gr

Definition at line 224 of file air_core_regif.h.

Constructor & Destructor Documentation

Cair_core_regif::Cair_core_regif (std::string *name*, [uint](#) *buswidth*)

Constructor of Register IF class: define registers and bits

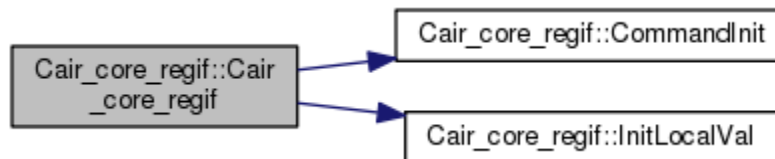
Returns:

none

Definition at line 202 of file air_core_regif.cpp.

References [AIR_DSELR0](#), [AIR_DSELR1](#), [AIR_ISELR0](#), [AIR_ISELR1](#), [CommandInit\(\)](#), [InitLocalVal\(\)](#), [mBusByteWidth](#), [mBusWidth](#), [mCurReg](#), [mFileName](#), [mInstName](#), [mIsReset](#), [mLineNum](#), [mRdCbAPI](#), [mRegArray](#), [mRegList](#), [mRegMap](#), [mTotalRegNum](#), [mWrCbAPI](#), and [Cair_core_regif::SRegList::my_p](#).

Here is the call graph for this function:



Cair_core_regif::~~Cair_core_regif ()

Destructor: delete pointers

Returns:

none

Definition at line 402 of file air_core_regif.cpp.

References [mRegArray](#), [mRegMap](#), [mTotalRegNum](#), [Cair_core_regif::SRegList::my_p](#), and [Cair_core_regif::SRegList::prev](#).

Member Function Documentation

void Cair_core_regif::_re_printf (const std::string *msg_level*, const char * *message*, ...)[protected]

print message function

Returns:

none

Definition at line 1553 of file air_core_regif.cpp.

References mFileName, mInstName, mLineNum, and mMessageLevel.

std::string Cair_core_regif::AccessRegCommand (const std::vector< std::string > & args, vpcl::re_register * Register, bool & BlockReg) [protected]

process reg_handle_command of "reg" parameter

Returns:

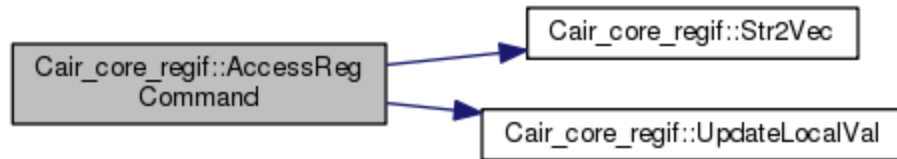
string

Definition at line 942 of file air_core_regif.cpp.

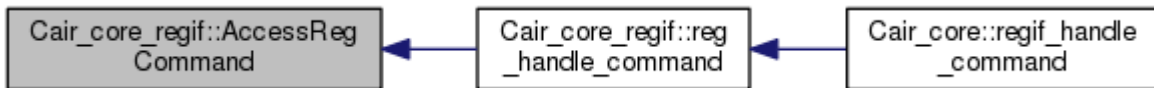
References mInstName, Str2Vec(), and UpdateLocalVal().

Referenced by reg_handle_command().

Here is the call graph for this function:



Here is the caller graph for this function:



Cair_core_regif::uint Cair_core_regif::bit_select (uint val, uint start, uint end) [protected]

Mask unselected bit

Returns:

selected value

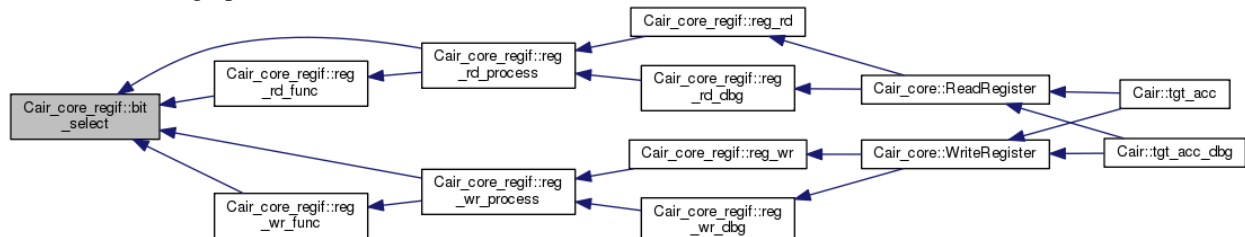
Parameters:

in	<i>val</i>	Writing address
in	<i>start</i>	start bit position
in	<i>end</i>	end bit position

Definition at line 416 of file air_core_regif.cpp.

Referenced by reg_rd_func(), reg_rd_process(), reg_wr_func(), and reg_wr_process().

Here is the caller graph for this function:



bool Cair_core_regif::ChkSize (std::string *expect_size*, [cuint](#) *detect_size*, [cuint](#) *addr*, bool *is_wr*) [protected]

Check access size @return true if detect_size equal expect_size

Definition at line 796 of file air_core_regif.cpp.

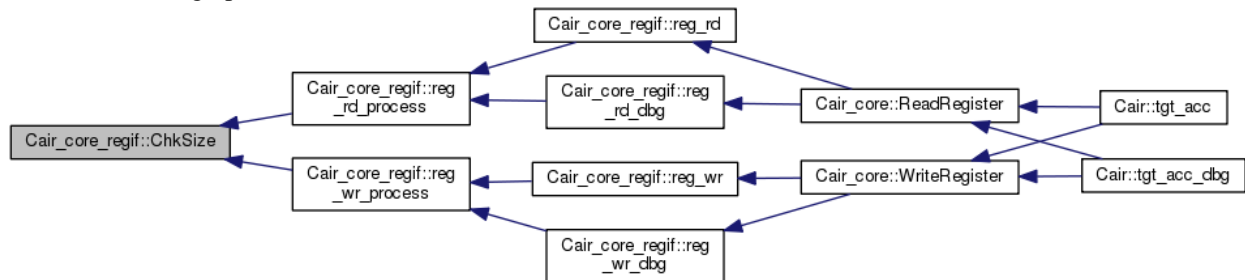
References mAPBAccessMode, mBusByteWidth, re_printf, and Str2Vec().

Referenced by reg_rd_process(), and reg_wr_process().

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair_core_regif::CommandInit () [protected]

Initialize reg_handle_command variables

Returns:

none

Definition at line 828 of file air_core_regif.cpp.

References mAPBAccessMode, mDumpBitInfo, mDumpRegisterRW, and mMessageLevel.

Referenced by Cair_core_regif().

Here is the caller graph for this function:



void Cair_core_regif::DumpRegMsg (const std::string *operation*, const std::string *RegName*, const std::string *BitName*, [cuint](#) *size*, [cuint](#) *addr*, [cuint](#) *wr_data*, [cuint](#) *pre_data*, [cuint](#) *data*, [cuint](#) *reg_length*) [protected]

Dump register access information

Returns:

none

Definition at line 1468 of file air_core_regif.cpp.

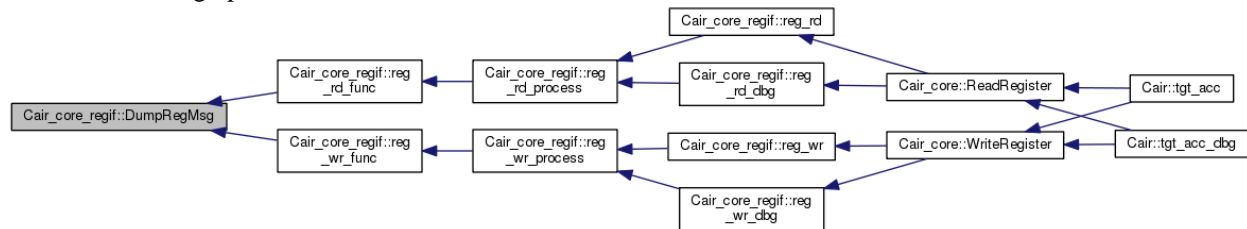
References mDumpRegisterRW, Num2HexStr(), and re_printf.

Referenced by reg_rd_func(), and reg_wr_func().

Here is the call graph for this function:



Here is the caller graph for this function:



```
void Cair_core_regif::EnableReset (const bool is_active) [protected]
```

Method to change value of mIsReset

Returns:

none

Definition at line 1693 of file air_core_regif.cpp.

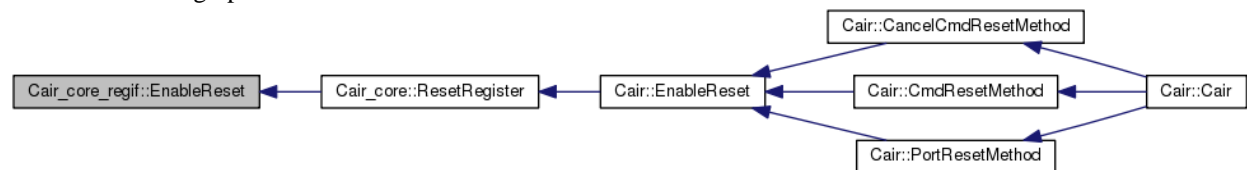
References InitLocalVal(), mIsReset, mRegArray, mTotalRegNum, Cair_core_regif::SRegList::my_p, and re_printf.

Referenced by Cair_core::ResetRegister().

Here is the call graph for this function:



Here is the caller graph for this function:



```
vpcl::re_register * Cair_core_regif::first_reg_object () [protected]
```

find first register pointer

Returns:

first register pointer

Definition at line 1508 of file air_core_regif.cpp.

References mCurReg, mRegList, and Cair_core_regif::SRegList::my_p.

Referenced by `Cair_core::regif_handle_command()`.

Here is the caller graph for this function:



void Cair_core_regif::get_fileline (std::string filename, int line_number) [protected]

Get file name and line number

Returns:

none

Definition at line 1678 of file air_core_regif.cpp.

References mFileName, and mLineNum.

int Cair_core_regif::get_reg_index (cuint access_addr) [protected]

find register pointer based on accessed address

Returns:

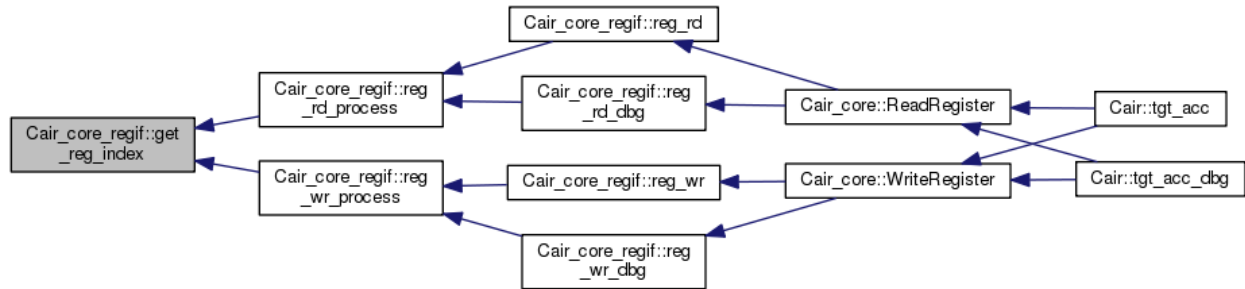
accessed register pointer

Definition at line 1497 of file air_core_regif.cpp.

References mRegMap.

Referenced by reg_rd_process(), and reg_wr_process().

Here is the caller graph for this function:



void Cair_core_regif::InitLocalVal () [protected]

Initialize local variables

Returns:

none

Definition at line 1001 of file air_core_regif.cpp.

References AIR_DSELR0_DSEL0, AIR_DSELR0_DSEL1, AIR_DSELR0_DSEL10, AIR_DSELR0_DSEL11, AIR_DSELR0_DSEL12, AIR_DSELR0_DSEL13, AIR_DSELR0_DSEL14, AIR_DSELR0_DSEL15, AIR_DSELR0_DSEL16, AIR_DSELR0_DSEL17, AIR_DSELR0_DSEL18, AIR_DSELR0_DSEL19, AIR_DSELR0_DSEL2, AIR_DSELR0_DSEL20, AIR_DSELR0_DSEL21, AIR_DSELR0_DSEL22, AIR_DSELR0_DSEL23, AIR_DSELR0_DSEL24, AIR_DSELR0_DSEL25, AIR_DSELR0_DSEL26, AIR_DSELR0_DSEL27, AIR_DSELR0_DSEL28, AIR_DSELR0_DSEL29, AIR_DSELR0_DSEL3, AIR_DSELR0_DSEL30, AIR_DSELR0_DSEL31, AIR_DSELR0_DSEL4, AIR_DSELR0_DSEL5, AIR_DSELR0_DSEL6, AIR_DSELR0_DSEL7, AIR_DSELR0_DSEL8, AIR_DSELR0_DSEL9, AIR_DSELR1_DSEL32, AIR_DSELR1_DSEL33, AIR_DSELR1_DSEL34, AIR_DSELR1_DSEL35, AIR_DSELR1_DSEL36, AIR_DSELR1_DSEL37, AIR_DSELR1_DSEL38, AIR_DSELR1_DSEL39, AIR_DSELR1_DSEL40, AIR_DSELR1_DSEL41, AIR_DSELR1_DSEL42, AIR_DSELR1_DSEL43, AIR_DSELR1_DSEL44, AIR_DSELR1_DSEL45, AIR_DSELR1_DSEL46, AIR_DSELR1_DSEL47, AIR_DSELR1_DSEL48, AIR_DSELR1_DSEL49, AIR_DSELR1_DSEL50, AIR_DSELR1_DSEL51, AIR_DSELR1_DSEL52, AIR_DSELR1_DSEL53, AIR_DSELR1_DSEL54, AIR_DSELR1_DSEL55, AIR_DSELR1_DSEL56, AIR_DSELR1_DSEL57, AIR_DSELR1_DSEL58, AIR_DSELR1_DSEL59, AIR_DSELR1_DSEL60, AIR_DSELR1_DSEL61, AIR_DSELR1_DSEL62, AIR_DSELR1_DSEL63, AIR_ISELR0_ISEL0, AIR_ISELR0_ISEL1, AIR_ISELR0_ISEL10, AIR_ISELR0_ISEL11,

AIR_ISELR0_ISEL12, AIR_ISELR0_ISEL13, AIR_ISELR0_ISEL14, AIR_ISELR0_ISEL15,
 AIR_ISELR0_ISEL16, AIR_ISELR0_ISEL17, AIR_ISELR0_ISEL18, AIR_ISELR0_ISEL19,
 AIR_ISELR0_ISEL2, AIR_ISELR0_ISEL20, AIR_ISELR0_ISEL21, AIR_ISELR0_ISEL22,
 AIR_ISELR0_ISEL23, AIR_ISELR0_ISEL24, AIR_ISELR0_ISEL25, AIR_ISELR0_ISEL26,
 AIR_ISELR0_ISEL27, AIR_ISELR0_ISEL28, AIR_ISELR0_ISEL29, AIR_ISELR0_ISEL3,
 AIR_ISELR0_ISEL30, AIR_ISELR0_ISEL31, AIR_ISELR0_ISEL4, AIR_ISELR0_ISEL5,
 AIR_ISELR0_ISEL6, AIR_ISELR0_ISEL7, AIR_ISELR0_ISEL8, AIR_ISELR0_ISEL9,
 AIR_ISELR1_ISEL32, AIR_ISELR1_ISEL33, AIR_ISELR1_ISEL34, AIR_ISELR1_ISEL35,
 AIR_ISELR1_ISEL36, AIR_ISELR1_ISEL37, AIR_ISELR1_ISEL38, AIR_ISELR1_ISEL39,
 AIR_ISELR1_ISEL40, AIR_ISELR1_ISEL41, AIR_ISELR1_ISEL42, AIR_ISELR1_ISEL43,
 AIR_ISELR1_ISEL44, AIR_ISELR1_ISEL45, AIR_ISELR1_ISEL46, AIR_ISELR1_ISEL47,
 AIR_ISELR1_ISEL48, AIR_ISELR1_ISEL49, AIR_ISELR1_ISEL50, AIR_ISELR1_ISEL51,
 AIR_ISELR1_ISEL52, AIR_ISELR1_ISEL53, AIR_ISELR1_ISEL54, AIR_ISELR1_ISEL55,
 AIR_ISELR1_ISEL56, AIR_ISELR1_ISEL57, AIR_ISELR1_ISEL58, AIR_ISELR1_ISEL59,
 AIR_ISELR1_ISEL60, AIR_ISELR1_ISEL61, AIR_ISELR1_ISEL62, and AIR_ISELR1_ISEL63.

Referenced by Cair_core_regif(), and EnableReset().

Here is the caller graph for this function:



vpcl::re_register * Cair_core_regif::next_reg_object () [protected]

find next register pointer

Returns:

next register pointer

Definition at line 1516 of file air_core_regif.cpp.

References mCurReg, Cair_core_regif::SRegList::my_p, and Cair_core_regif::SRegList::prev.

Referenced by Cair_core::regif_handle_command().

Here is the caller graph for this function:



std::string Cair_core_regif::Num2HexStr (uint num, uint num_length, bool space_strip, bool is_wr_data, uint acc_size) [protected]

Align nuber to hexadecimal format

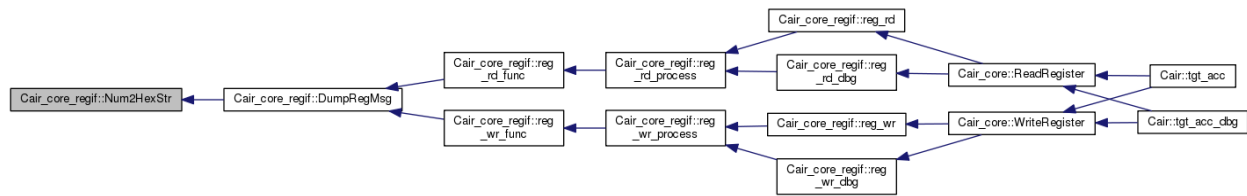
Returns:

aligned number

Definition at line 1444 of file air_core_regif.cpp.

Referenced by DumpRegMsg().

Here is the caller graph for this function:



Cair_core_regif::uint Cair_core_regif::rd_cb (cuint addr) [protected]

read callback function of CoWare

Returns:

read data

Definition at line 1540 of file air_core_regif.cpp.

std::string Cair_core_regif::reg_handle_command (const std::vector< std::string > &args) [protected]

Process reg_handle_command command

Returns:

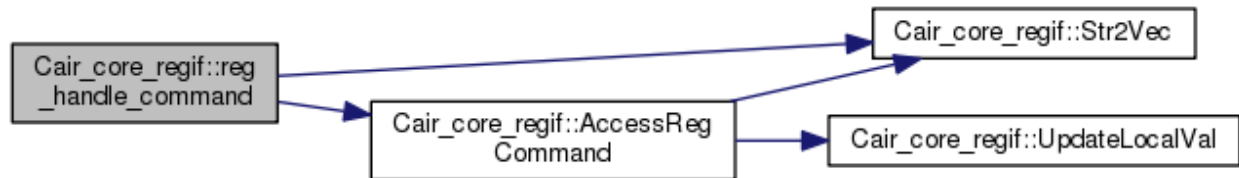
string

Definition at line 841 of file air_core_regif.cpp.

References AccessRegCommand(), mAPBAccessMode, mDumpBitInfo, mDumpRegisterRW, mInstName, mMessageLevel, mRegArray, mTotalRegNum, and Str2Vec().

Referenced by Cair_core::regif_handle_command().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_rd (cuint addr, unsigned char * p_data, cuint size) [protected]

Read the register value of requested module

Returns:

true if reading transaction is finished normally

Parameters:

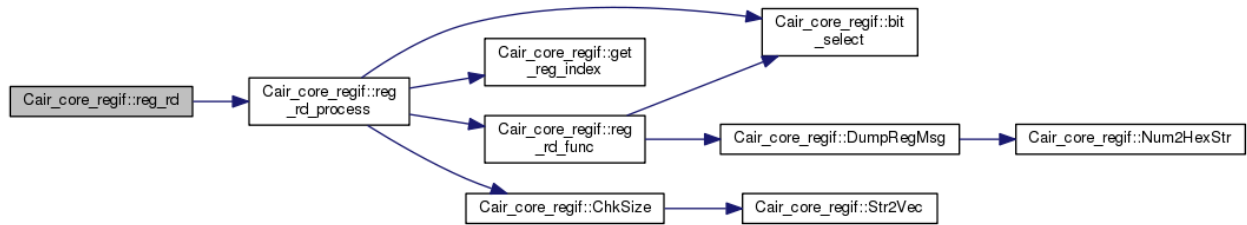
in	addr	Reading address
out	p_data	Reading data
in	size	Data size (byte)

Definition at line 452 of file air_core_regif.cpp.

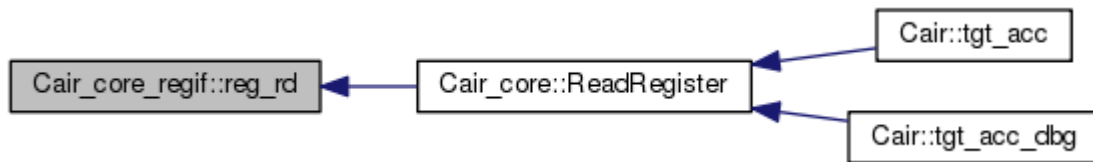
References mBusByteWidth, re_printf, and reg_rd_process().

Referenced by Cair_core::ReadRegister().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_rd_dbg (cuint addr, unsigned char * p_data, cuint size) [protected]

Read the register value of requested module

Returns:

true if reading transaction is finished normally

Parameters:

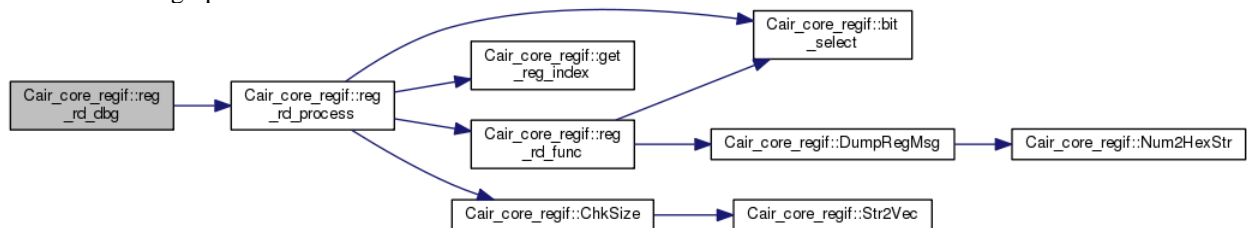
in	<i>addr</i>	Reading address
out	<i>p_data</i>	Reading data
in	<i>size</i>	Data size (byte)

Definition at line 498 of file air_core_regif.cpp.

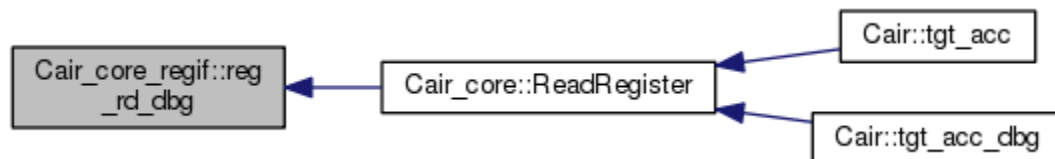
References mBusByteWidth, re_printf, and reg_rd_process().

Referenced by Cair_core::ReadRegister().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_rd_func (cuint addr, unsigned char * p_data, cuint size, cuint reg_index, bool IsDbgFunc) [protected]

Process reading function

Returns:

true if reading successfully

Parameters:

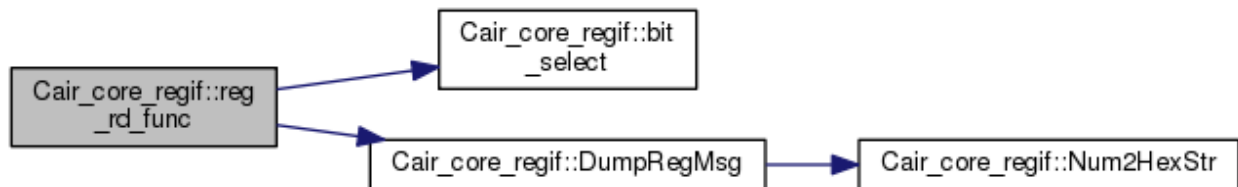
in	<i>addr</i>	Reading address
out	<i>p_data</i>	Reading data
in	<i>size</i>	Data size (byte)
in	<i>reg_index</i>	Register index
in	<i>IsDbgFunc</i>	Flag indicate reg_rd or reg_rd_dbg

Definition at line 669 of file air_core_regif.cpp.

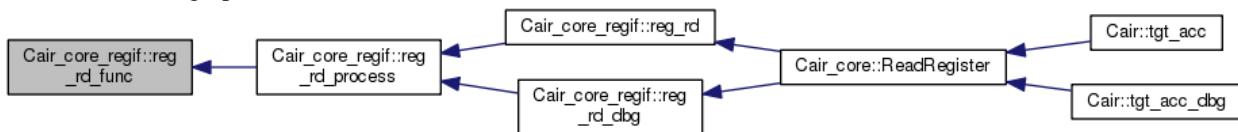
References bit_select(), DumpRegMsg(), Cair_core_regif::SRegList::length, mDumpBitInfo, mIsReset, mRegArray, Cair_core_regif::SRegList::my_p, and re_printf.

Referenced by reg_rd_process().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_rd_process (cuint addr, unsigned char * p_data, cuint size, bool IsDbgFunc) [protected]

Read the register value of requested module

Returns:

true if reading transaction is finished normally

Parameters:

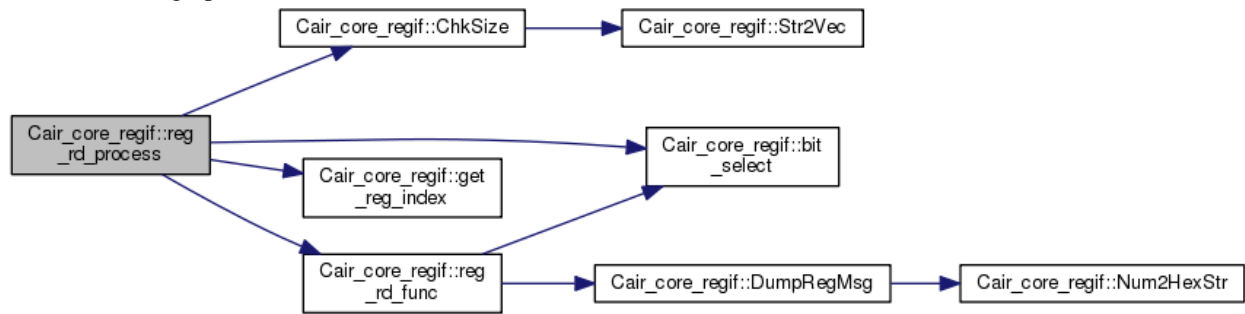
in	<i>addr</i>	Reading address
out	<i>p_data</i>	Reading data
in	<i>size</i>	Data size (byte)
in	<i>IsDbgFunc</i>	Flag indicate reg_rd or reg_rd_dbg

Definition at line 596 of file air_core_regif.cpp.

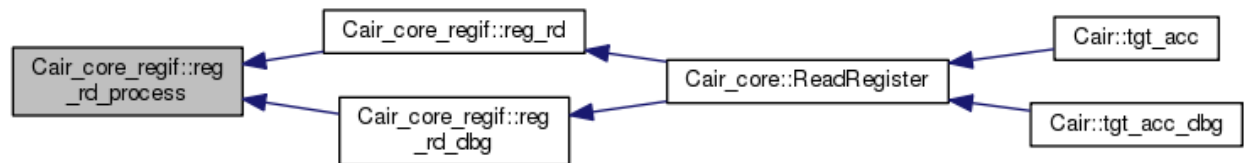
References bit_select(), ChkSize(), get_reg_index(), Cair_core_regif::SRegList::length, mAPBAccessMode, mBusByteWidth, mRegArray, Cair_core_regif::SRegList::my_p, re_printf, and reg_rd_func().

Referenced by reg_rd(), and reg_rd_dbg().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_wr (cuint addr, const unsigned char * p_data, cuint size) [protected]

Write the value to requested module register

Returns:

true if writing transaction is finished normally

Parameters:

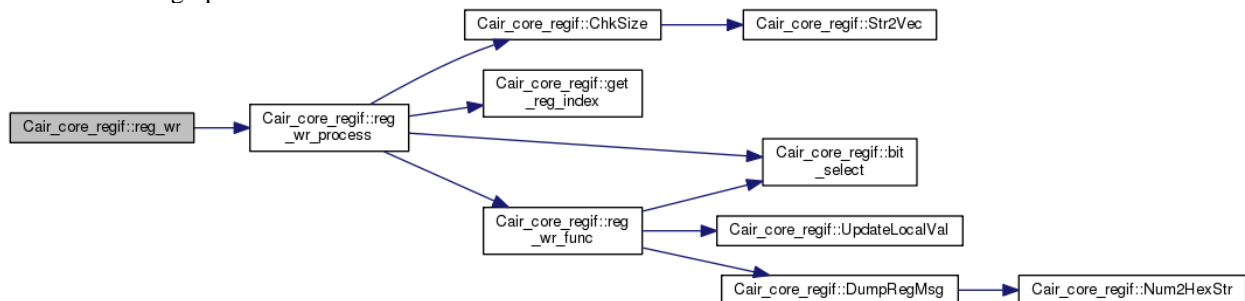
in	<i>addr</i>	Writting address
in	<i>p_data</i>	Writing data
in	<i>size</i>	Data size (byte)

Definition at line 429 of file air_core_regif.cpp.

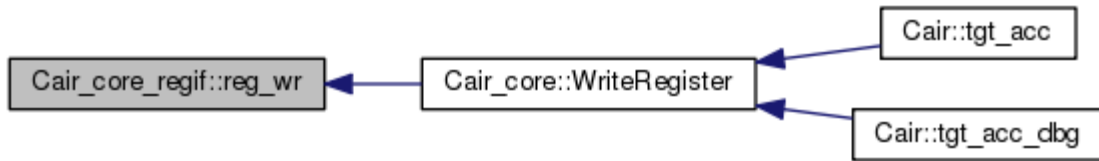
References mBusByteWidth, re_printf, and reg_wr_process().

Referenced by Cair_core::WriteRegister().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_wr_dbg (cuint addr, const unsigned char * p_data, cuint size) [protected]

Write the value to requested module register

Returns:

true if writing transaction is finished normally

Parameters:

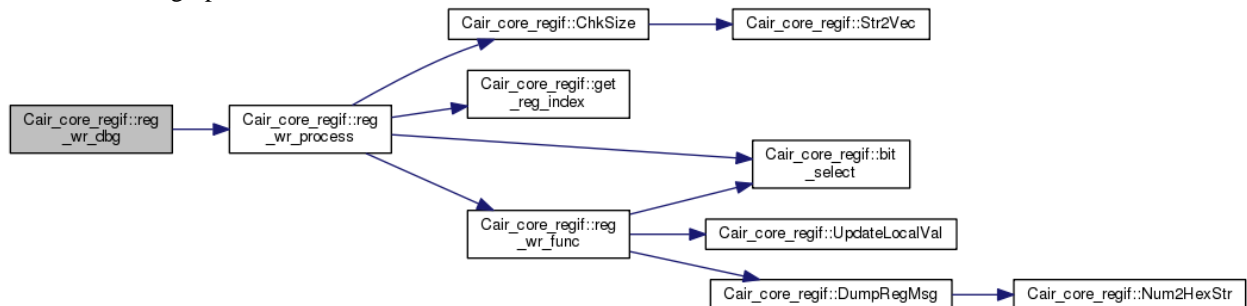
in	addr	Writing address
in	p_data	Writing data
in	size	Data size (byte)

Definition at line 475 of file air_core_regif.cpp.

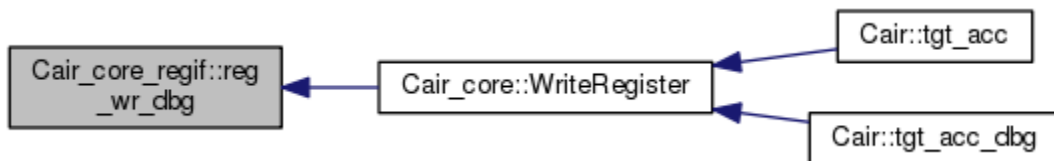
References mBusByteWidth, re_printf, and reg_wr_process().

Referenced by Cair_core::WriteRegister().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_wr_func (cuint addr, const unsigned char * p_data, cuint size, cuint reg_index, bool isDbgFunc) [protected]

Process writing function

Returns:

true if writing successfully

Parameters:

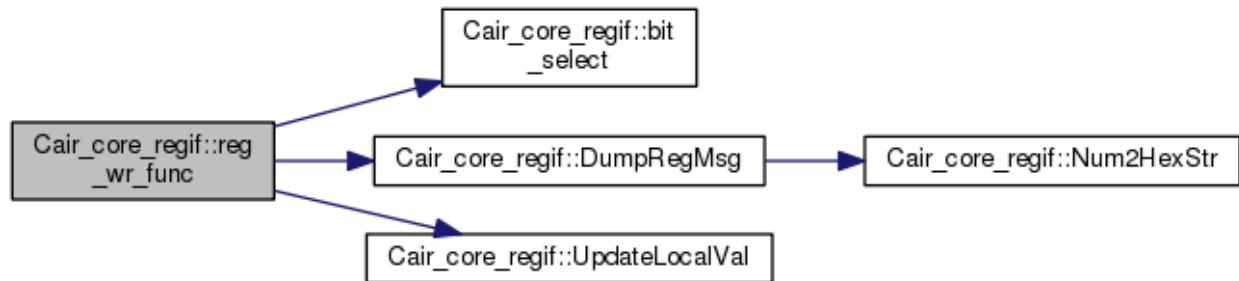
in	<i>addr</i>	Writing address
in	<i>p_data</i>	Writing data
in	<i>size</i>	Data size (byte)
in	<i>reg_index</i>	Register index
in	<i>IsDbgFunc</i>	Flag indicate reg_wr or reg_wr_dbg

Definition at line 728 of file air_core_regif.cpp.

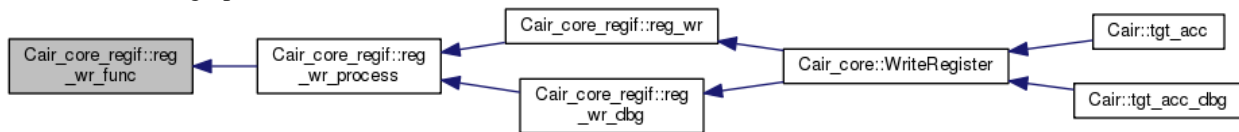
References `bit_select()`, `DumpRegMsg()`, `Cair_core_regif::SRegList::length`, `mDumpBitInfo`, `mRegArray`, `Cair_core_regif::SRegList::my_p`, `re_printf`, and `UpdateLocalVal()`.

Referenced by `reg_wr_process()`.

Here is the call graph for this function:



Here is the caller graph for this function:



bool Cair_core_regif::reg_wr_process ([cuint](#) *addr*, const unsigned char * *p_data*, [cuint](#) *size*, bool *IsDbgFunc*) [protected]

Write the value to requested module register

Returns:

true if writing transaction is finished normally

Parameters:

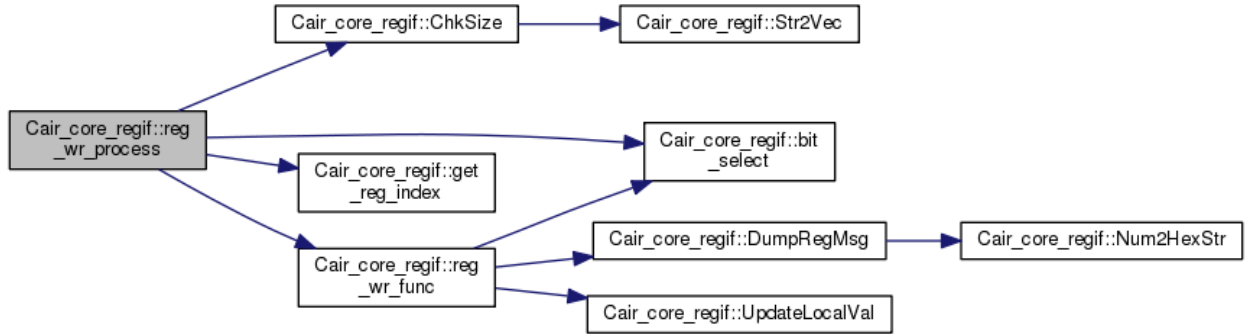
in	<i>addr</i>	Writing address
in	<i>p_data</i>	Writing data
in	<i>size</i>	Data size (byte)
in	<i>IsDbgFunc</i>	Flag indicate reg_rd or reg_rd_dbg

Definition at line 521 of file air_core_regif.cpp.

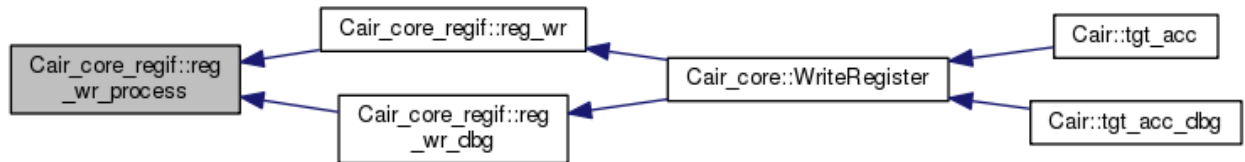
References `bit_select()`, `ChkSize()`, `get_reg_index()`, `Cair_core_regif::SRegList::length`, `mBusByteWidth`, `mIsReset`, `mRegArray`, `Cair_core_regif::SRegList::my_p`, `re_printf`, and `reg_wr_func()`.

Referenced by `reg_wr()`, and `reg_wr_dbg()`.

Here is the call graph for this function:



Here is the caller graph for this function:



void Cair_core_regif::set_instance_name (std::string *InstName*) [protected]

API for instance registration

Returns:

none

Definition at line 1686 of file air_core_regif.cpp.

References mInstName.

std::vector< std::string > Cair_core_regif::Str2Vec (std::string *str*, const char *sep*) [protected]

convert string to vector

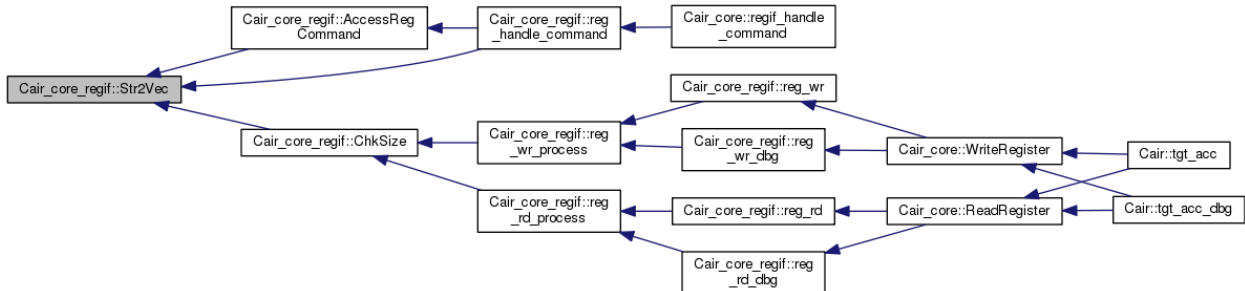
Returns:

vector

Definition at line 1428 of file air_core_regif.cpp.

Referenced by AccessRegCommand(), ChkSize(), and reg_handle_command().

Here is the caller graph for this function:



void Cair_core_regif::UpdateLocalVal ([cuint](#) *addr*) [protected]

Update bit value to local value

Returns:

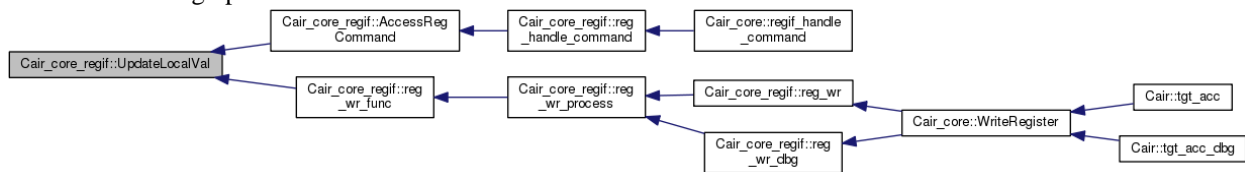
None

Definition at line 1136 of file air_core_regif.cpp.

References AIR_DSELR0_DSEL0, AIR_DSELR0_DSEL1, AIR_DSELR0_DSEL10, AIR_DSELR0_DSEL11, AIR_DSELR0_DSEL12, AIR_DSELR0_DSEL13, AIR_DSELR0_DSEL14, AIR_DSELR0_DSEL15, AIR_DSELR0_DSEL16, AIR_DSELR0_DSEL17, AIR_DSELR0_DSEL18, AIR_DSELR0_DSEL19, AIR_DSELR0_DSEL2, AIR_DSELR0_DSEL20, AIR_DSELR0_DSEL21, AIR_DSELR0_DSEL22, AIR_DSELR0_DSEL23, AIR_DSELR0_DSEL24, AIR_DSELR0_DSEL25, AIR_DSELR0_DSEL26, AIR_DSELR0_DSEL27, AIR_DSELR0_DSEL28, AIR_DSELR0_DSEL29, AIR_DSELR0_DSEL3, AIR_DSELR0_DSEL30, AIR_DSELR0_DSEL31, AIR_DSELR0_DSEL4, AIR_DSELR0_DSEL5, AIR_DSELR0_DSEL6, AIR_DSELR0_DSEL7, AIR_DSELR0_DSEL8, AIR_DSELR0_DSEL9, AIR_DSELR1_DSEL32, AIR_DSELR1_DSEL33, AIR_DSELR1_DSEL34, AIR_DSELR1_DSEL35, AIR_DSELR1_DSEL36, AIR_DSELR1_DSEL37, AIR_DSELR1_DSEL38, AIR_DSELR1_DSEL39, AIR_DSELR1_DSEL40, AIR_DSELR1_DSEL41, AIR_DSELR1_DSEL42, AIR_DSELR1_DSEL43, AIR_DSELR1_DSEL44, AIR_DSELR1_DSEL45, AIR_DSELR1_DSEL46, AIR_DSELR1_DSEL47, AIR_DSELR1_DSEL48, AIR_DSELR1_DSEL49, AIR_DSELR1_DSEL50, AIR_DSELR1_DSEL51, AIR_DSELR1_DSEL52, AIR_DSELR1_DSEL53, AIR_DSELR1_DSEL54, AIR_DSELR1_DSEL55, AIR_DSELR1_DSEL56, AIR_DSELR1_DSEL57, AIR_DSELR1_DSEL58, AIR_DSELR1_DSEL59, AIR_DSELR1_DSEL60, AIR_DSELR1_DSEL61, AIR_DSELR1_DSEL62, AIR_DSELR1_DSEL63, AIR_ISELR0_ISEL0, AIR_ISELR0_ISEL1, AIR_ISELR0_ISEL10, AIR_ISELR0_ISEL11, AIR_ISELR0_ISEL12, AIR_ISELR0_ISEL13, AIR_ISELR0_ISEL14, AIR_ISELR0_ISEL15, AIR_ISELR0_ISEL16, AIR_ISELR0_ISEL17, AIR_ISELR0_ISEL18, AIR_ISELR0_ISEL19, AIR_ISELR0_ISEL2, AIR_ISELR0_ISEL20, AIR_ISELR0_ISEL21, AIR_ISELR0_ISEL22, AIR_ISELR0_ISEL23, AIR_ISELR0_ISEL24, AIR_ISELR0_ISEL25, AIR_ISELR0_ISEL26, AIR_ISELR0_ISEL27, AIR_ISELR0_ISEL28, AIR_ISELR0_ISEL29, AIR_ISELR0_ISEL3, AIR_ISELR0_ISEL30, AIR_ISELR0_ISEL31, AIR_ISELR0_ISEL4, AIR_ISELR0_ISEL5, AIR_ISELR0_ISEL6, AIR_ISELR0_ISEL7, AIR_ISELR0_ISEL8, AIR_ISELR0_ISEL9, AIR_ISELR1_ISEL32, AIR_ISELR1_ISEL33, AIR_ISELR1_ISEL34, AIR_ISELR1_ISEL35, AIR_ISELR1_ISEL36, AIR_ISELR1_ISEL37, AIR_ISELR1_ISEL38, AIR_ISELR1_ISEL39, AIR_ISELR1_ISEL40, AIR_ISELR1_ISEL41, AIR_ISELR1_ISEL42, AIR_ISELR1_ISEL43, AIR_ISELR1_ISEL44, AIR_ISELR1_ISEL45, AIR_ISELR1_ISEL46, AIR_ISELR1_ISEL47, AIR_ISELR1_ISEL48, AIR_ISELR1_ISEL49, AIR_ISELR1_ISEL50, AIR_ISELR1_ISEL51, AIR_ISELR1_ISEL52, AIR_ISELR1_ISEL53, AIR_ISELR1_ISEL54, AIR_ISELR1_ISEL55, AIR_ISELR1_ISEL56, AIR_ISELR1_ISEL57, AIR_ISELR1_ISEL58, AIR_ISELR1_ISEL59, AIR_ISELR1_ISEL60, AIR_ISELR1_ISEL61, AIR_ISELR1_ISEL62, and AIR_ISELR1_ISEL63.

Referenced by AccessRegCommand(), and reg_wr_func().

Here is the caller graph for this function:



void Cair_core_regif::UpdateRegVal (cuint addr) [protected]

Update local value to bit value

Returns:

None

Definition at line 1282 of file air_core_regif.cpp.

References AIR_DSELR0_DSEL0, AIR_DSELR0_DSEL1, AIR_DSELR0_DSEL10, AIR_DSELR0_DSEL11, AIR_DSELR0_DSEL12, AIR_DSELR0_DSEL13, AIR_DSELR0_DSEL14, AIR_DSELR0_DSEL15, AIR_DSELR0_DSEL16, AIR_DSELR0_DSEL17, AIR_DSELR0_DSEL18, AIR_DSELR0_DSEL19,

AIR_DSELR0_DSEL2,	AIR_DSELR0_DSEL20,	AIR_DSELR0_DSEL21,	AIR_DSELR0_DSEL22,
AIR_DSELR0_DSEL23,	AIR_DSELR0_DSEL24,	AIR_DSELR0_DSEL25,	AIR_DSELR0_DSEL26,
AIR_DSELR0_DSEL27,	AIR_DSELR0_DSEL28,	AIR_DSELR0_DSEL29,	AIR_DSELR0_DSEL3,
AIR_DSELR0_DSEL30,	AIR_DSELR0_DSEL31,	AIR_DSELR0_DSEL4,	AIR_DSELR0_DSEL5,
AIR_DSELR0_DSEL6,	AIR_DSELR0_DSEL7,	AIR_DSELR0_DSEL8,	AIR_DSELR0_DSEL9,
AIR_DSELR1_DSEL32,	AIR_DSELR1_DSEL33,	AIR_DSELR1_DSEL34,	AIR_DSELR1_DSEL35,
AIR_DSELR1_DSEL36,	AIR_DSELR1_DSEL37,	AIR_DSELR1_DSEL38,	AIR_DSELR1_DSEL39,
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AIR_DSELR1_DSEL44,	AIR_DSELR1_DSEL45,	AIR_DSELR1_DSEL46,	AIR_DSELR1_DSEL47,
AIR_DSELR1_DSEL48,	AIR_DSELR1_DSEL49,	AIR_DSELR1_DSEL50,	AIR_DSELR1_DSEL51,
AIR_DSELR1_DSEL52,	AIR_DSELR1_DSEL53,	AIR_DSELR1_DSEL54,	AIR_DSELR1_DSEL55,
AIR_DSELR1_DSEL56,	AIR_DSELR1_DSEL57,	AIR_DSELR1_DSEL58,	AIR_DSELR1_DSEL59,
AIR_DSELR1_DSEL60,	AIR_DSELR1_DSEL61,	AIR_DSELR1_DSEL62,	AIR_DSELR1_DSEL63,
AIR_ISELR0_ISEL0,	AIR_ISELR0_ISEL1,	AIR_ISELR0_ISEL10,	AIR_ISELR0_ISEL11,
AIR_ISELR0_ISEL12,	AIR_ISELR0_ISEL13,	AIR_ISELR0_ISEL14,	AIR_ISELR0_ISEL15,
AIR_ISELR0_ISEL16,	AIR_ISELR0_ISEL17,	AIR_ISELR0_ISEL18,	AIR_ISELR0_ISEL19,
AIR_ISELR0_ISEL2,	AIR_ISELR0_ISEL20,	AIR_ISELR0_ISEL21,	AIR_ISELR0_ISEL22,
AIR_ISELR0_ISEL23,	AIR_ISELR0_ISEL24,	AIR_ISELR0_ISEL25,	AIR_ISELR0_ISEL26,
AIR_ISELR0_ISEL27,	AIR_ISELR0_ISEL28,	AIR_ISELR0_ISEL29,	AIR_ISELR0_ISEL3,
AIR_ISELR0_ISEL30,	AIR_ISELR0_ISEL31,	AIR_ISELR0_ISEL4,	AIR_ISELR0_ISEL5,
AIR_ISELR0_ISEL6,	AIR_ISELR0_ISEL7,	AIR_ISELR0_ISEL8,	AIR_ISELR0_ISEL9,
AIR_ISELR1_ISEL32,	AIR_ISELR1_ISEL33,	AIR_ISELR1_ISEL34,	AIR_ISELR1_ISEL35,
AIR_ISELR1_ISEL36,	AIR_ISELR1_ISEL37,	AIR_ISELR1_ISEL38,	AIR_ISELR1_ISEL39,
AIR_ISELR1_ISEL40,	AIR_ISELR1_ISEL41,	AIR_ISELR1_ISEL42,	AIR_ISELR1_ISEL43,
AIR_ISELR1_ISEL44,	AIR_ISELR1_ISEL45,	AIR_ISELR1_ISEL46,	AIR_ISELR1_ISEL47,
AIR_ISELR1_ISEL48,	AIR_ISELR1_ISEL49,	AIR_ISELR1_ISEL50,	AIR_ISELR1_ISEL51,
AIR_ISELR1_ISEL52,	AIR_ISELR1_ISEL53,	AIR_ISELR1_ISEL54,	AIR_ISELR1_ISEL55,
AIR_ISELR1_ISEL56,	AIR_ISELR1_ISEL57,	AIR_ISELR1_ISEL58,	AIR_ISELR1_ISEL59,
AIR_ISELR1_ISEL60,	AIR_ISELR1_ISEL61,	AIR_ISELR1_ISEL62,	AIR_ISELR1_ISEL63,

void Cair_core_regif::wr_cb ([cuint](#) *addr*, [uint](#) *data*) **[protected]**

write callback function of CoWare

Returns:

none

Definition at line 1529 of file air_core_regif.cpp.

Member Data Documentation

vpcl::re_register* Cair_core_regif::AIR_DSELR0 **[protected]**

Definition at line 297 of file air_core_regif.h.

Referenced by Cair_core::Cair_core(), and Cair_core_regif().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL0 **[protected]**

Definition at line 399 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL1 [protected]

Definition at line 398 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL10 [protected]

Definition at line 389 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL11 [protected]

Definition at line 388 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL12 [protected]

Definition at line 387 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL13 [protected]

Definition at line 386 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL14 [protected]

Definition at line 385 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL15 [protected]

Definition at line 384 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL16 [protected]

Definition at line 383 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL17 [protected]

Definition at line 382 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL18[protected]

Definition at line 381 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL19[protected]

Definition at line 380 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL2[protected]

Definition at line 397 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL20[protected]

Definition at line 379 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL21[protected]

Definition at line 378 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL22[protected]

Definition at line 377 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL23[protected]

Definition at line 376 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR0_DSEL24[protected]

Definition at line 375 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL25 [protected]

Definition at line 374 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL26 [protected]

Definition at line 373 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL27 [protected]

Definition at line 372 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL28 [protected]

Definition at line 371 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL29 [protected]

Definition at line 370 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL3 [protected]

Definition at line 396 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL30 [protected]

Definition at line 369 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL31 [protected]

Definition at line 368 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL4 [protected]

Definition at line 395 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL5 [protected]

Definition at line 394 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL6 [protected]

Definition at line 393 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL7 [protected]

Definition at line 392 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL8 [protected]

Definition at line 391 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR0_DSEL9 [protected]

Definition at line 390 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Cair_core_regif::AIR_DSELR1 [protected]

Definition at line 298 of file air_core_regif.h.

Referenced by Cair_core::Cair_core(), and Cair_core_regif().

uint Cair_core_regif::AIR_DSELR1_DSEL32 [protected]

Definition at line 431 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL33 [protected]

Definition at line 430 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL34 [protected]

Definition at line 429 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL35 [protected]

Definition at line 428 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL36 [protected]

Definition at line 427 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL37 [protected]

Definition at line 426 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL38 [protected]

Definition at line 425 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL39 [protected]

Definition at line 424 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL40 [protected]

Definition at line 423 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL41 [protected]

Definition at line 422 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL42 [protected]

Definition at line 421 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL43 [protected]

Definition at line 420 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL44 [protected]

Definition at line 419 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL45 [protected]

Definition at line 418 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL46 [protected]

Definition at line 417 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL47 [protected]

Definition at line 416 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL48 [protected]

Definition at line 415 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL49 [protected]

Definition at line 414 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_DSELR1_DSEL50 [protected]

Definition at line 413 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL51 [protected]

Definition at line 412 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL52 [protected]

Definition at line 411 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL53 [protected]

Definition at line 410 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL54 [protected]

Definition at line 409 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL55 [protected]

Definition at line 408 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL56 [protected]

Definition at line 407 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL57 [protected]

Definition at line 406 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL58 [protected]

Definition at line 405 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_DSELR1_DSEL59 [protected]

Definition at line 404 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_DSELR1_DSEL60 [protected]**

Definition at line 403 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_DSELR1_DSEL61 [protected]**

Definition at line 402 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_DSELR1_DSEL62 [protected]**

Definition at line 401 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_DSELR1_DSEL63 [protected]**

Definition at line 400 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Cair_core_regif::AIR_ISELR0 [protected]

Definition at line 295 of file air_core_regif.h.

Referenced by Cair_core::Cair_core(), and Cair_core_regif().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL0 [protected]**

Definition at line 335 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL1 [protected]**

Definition at line 334 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL10 [protected]**

Definition at line 325 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL11 [protected]

Definition at line 324 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL12 [protected]

Definition at line 323 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL13 [protected]

Definition at line 322 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL14 [protected]

Definition at line 321 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL15 [protected]

Definition at line 320 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL16 [protected]

Definition at line 319 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL17 [protected]

Definition at line 318 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL18 [protected]

Definition at line 317 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR0_ISEL19 [protected]

Definition at line 316 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL2 [protected]**

Definition at line 333 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL20 [protected]**

Definition at line 315 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL21 [protected]**

Definition at line 314 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL22 [protected]**

Definition at line 313 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL23 [protected]**

Definition at line 312 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL24 [protected]**

Definition at line 311 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL25 [protected]**

Definition at line 310 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL26 [protected]**

Definition at line 309 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL27** [protected]

Definition at line 308 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL28** [protected]

Definition at line 307 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL29** [protected]

Definition at line 306 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL3** [protected]

Definition at line 332 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL30** [protected]

Definition at line 305 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL31** [protected]

Definition at line 304 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL4** [protected]

Definition at line 331 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL5** [protected]

Definition at line 330 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL6** [protected]

Definition at line 329 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL7 [protected]**

Definition at line 328 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL8 [protected]**

Definition at line 327 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR0_ISEL9 [protected]**

Definition at line 326 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Cair_core_regif::AIR_ISELR1 [protected]

Definition at line 296 of file air_core_regif.h.

Referenced by Cair_core::Cair_core(), and Cair_core_regif().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL32 [protected]**

Definition at line 367 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL33 [protected]**

Definition at line 366 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL34 [protected]**

Definition at line 365 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL35 [protected]**

Definition at line 364 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL36 [protected]

Definition at line 363 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL37 [protected]

Definition at line 362 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL38 [protected]

Definition at line 361 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL39 [protected]

Definition at line 360 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL40 [protected]

Definition at line 359 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL41 [protected]

Definition at line 358 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL42 [protected]

Definition at line 357 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL43 [protected]

Definition at line 356 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) Cair_core_regif::AIR_ISELR1_ISEL44 [protected]

Definition at line 355 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL45 [protected]

Definition at line 354 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL46 [protected]

Definition at line 353 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL47 [protected]

Definition at line 352 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL48 [protected]

Definition at line 351 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL49 [protected]

Definition at line 350 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL50 [protected]

Definition at line 349 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL51 [protected]

Definition at line 348 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL52 [protected]

Definition at line 347 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL53** [protected]

Definition at line 346 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL54** [protected]

Definition at line 345 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL55** [protected]

Definition at line 344 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL56** [protected]

Definition at line 343 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL57** [protected]

Definition at line 342 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL58** [protected]

Definition at line 341 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL59** [protected]

Definition at line 340 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL60** [protected]

Definition at line 339 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

[uint](#) **Cair_core_regif::AIR_ISELR1_ISEL61** [protected]

Definition at line 338 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL62 [protected]

Definition at line 337 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Cair_core_regif::AIR_ISELR1_ISEL63 [protected]

Definition at line 336 of file air_core_regif.h.

Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

bool Cair_core_regif::mAPBAccessMode [protected]

Definition at line 454 of file air_core_regif.h.

Referenced by ChkSize(), CommandInit(), reg_handle_command(), and reg_rd_process().

uint Cair_core_regif::mBusByteWidth [protected]

Definition at line 450 of file air_core_regif.h.

Referenced by Cair_core_regif(), ChkSize(), reg_rd(), reg_rd_dbg(), reg_rd_process(), reg_wr(), reg_wr_dbg(), and reg_wr_process().

uint Cair_core_regif::mBusWidth [protected]

Definition at line 451 of file air_core_regif.h.

Referenced by Cair_core_regif().

struct Cair_core_regif::SRegList * Cair_core_regif::mCurReg [protected]

Referenced by Cair_core_regif(), first_reg_object(), and next_reg_object().

bool Cair_core_regif::mDumpBitInfo [protected]

Definition at line 455 of file air_core_regif.h.

Referenced by CommandInit(), reg_handle_command(), reg_rd_func(), and reg_wr_func().

bool Cair_core_regif::mDumpRegisterRW [protected]

Definition at line 453 of file air_core_regif.h.

Referenced by CommandInit(), DumpRegMsg(), and reg_handle_command().

std::string Cair_core_regif::mFileName [protected]

Definition at line 459 of file air_core_regif.h.

Referenced by _re_printf(), Cair_core_regif(), and get_fileline().

std::string Cair_core_regif::mInstName [protected]

Definition at line 460 of file air_core_regif.h.

Referenced by _re_printf(), AccessRegCommand(), Cair_core_regif(), reg_handle_command(), Cair_core::regif_handle_command(), and set_instance_name().

bool Cair_core_regif::mIsReset [protected]

Definition at line 452 of file air_core_regif.h.

Referenced by Cair_core_regif(), EnableReset(), reg_rd_func(), and reg_wr_process().

int Cair_core_regif::mLineNum [protected]

Definition at line 461 of file air_core_regif.h.

Referenced by _re_printf(), Cair_core_regif(), and get_fileline().

std::map<std::string, bool> Cair_core_regif::mMessageLevel [protected]

Definition at line 456 of file air_core_regif.h.

Referenced by _re_printf(), CommandInit(), and reg_handle_command().

std::map<std::string, std::map<std::string, void (Cair_core_regif::*) (RegCBstr)>> Cair_core_regif::mRdCbAPI [protected]

Definition at line 458 of file air_core_regif.h.

Referenced by Cair_core_regif().

struct [Cair_core_regif::SRegList](#) ** Cair_core_regif::mRegArray [protected]

Referenced by Cair_core_regif(), EnableReset(), reg_handle_command(), reg_rd_func(), reg_rd_process(), reg_wr_func(), reg_wr_process(), and ~Cair_core_regif().

struct [Cair_core_regif::SRegList](#) * Cair_core_regif::mRegList [protected]

Referenced by Cair_core_regif(), and first_reg_object().

[uint](#)* Cair_core_regif::mRegMap [protected]

Definition at line 287 of file air_core_regif.h.

Referenced by Cair_core_regif(), get_reg_index(), and ~Cair_core_regif().

[uint](#) Cair_core_regif::mTotalRegNum [protected]

Definition at line 288 of file air_core_regif.h.

Referenced by Cair_core_regif(), EnableReset(), reg_handle_command(), and ~Cair_core_regif().

**std::map<std::string, std::map<std::string, void (Cair_core_regif::*) ([RegCBstr](#))> >
Cair_core_regif::mWrCbAPI [protected]**

Definition at line 457 of file air_core_regif.h.

Referenced by Cair_core_regif().

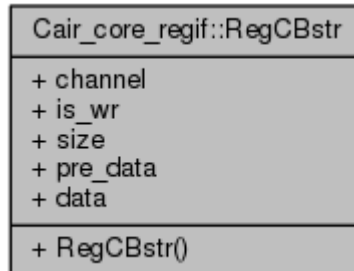
The documentation for this class was generated from the following files:

- [air_core_regif.h](#)
- [air_core_regif.cpp](#)

Cair_core_regif::RegCBstr Struct Reference

```
#include <air_core_regif.h>
```

Collaboration diagram for Cair_core_regif::RegCBstr:



Public Member Functions

- [RegCBstr](#) ([uint channel](#), bool [is_wr](#), [uint size](#), [uint pre_data](#), [uint data](#))

Public Attributes

- [uint channel](#)
- bool [is_wr](#)
- [uint size](#)
- [uint pre_data](#)
- [uint data](#)

Detailed Description

Definition at line 228 of file `air_core_regif.h`.

Constructor & Destructor Documentation

Cair_core_regif::RegCBstr::RegCBstr ([uint channel](#), bool *is_wr*, [uint size](#), [uint pre_data](#), [uint data](#)) [`inline`]

Definition at line 234 of file `air_core_regif.h`.

References `channel`, `data`, `is_wr`, `pre_data`, and `size`.

Member Data Documentation

[uint](#) Cair_core_regif::RegCBstr::channel

Definition at line 229 of file `air_core_regif.h`.

Referenced by `RegCBstr()`.

[uint](#) Cair_core_regif::RegCBstr::data

Definition at line 233 of file air_core_regif.h.

Referenced by RegCBstr().

bool Cair_core_regif::RegCBstr::is_wr

Definition at line 230 of file air_core_regif.h.

Referenced by RegCBstr().

[uint](#) Cair_core_regif::RegCBstr::pre_data

Definition at line 232 of file air_core_regif.h.

Referenced by RegCBstr().

[uint](#) Cair_core_regif::RegCBstr::size

Definition at line 231 of file air_core_regif.h.

Referenced by RegCBstr().

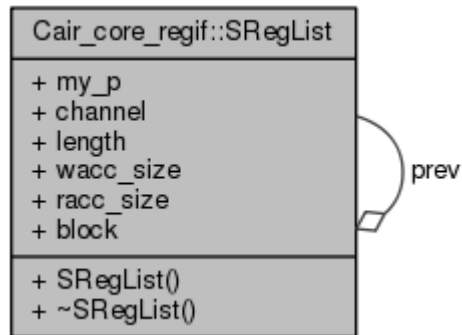
The documentation for this struct was generated from the following file:

- [air_core_regif.h](#)

Cair_core_regif::SRegList Struct Reference

```
#include <air_core_regif.h>
```

Collaboration diagram for Cair_core_regif::SRegList:



Public Member Functions

- [SRegList](#) (vpcl::re_register * _my_p, [SRegList](#) * _prev, [uint](#) _channel, [uint](#) _length, std::string _wacc_size, std::string _racc_size, bool _block=false)
- [~SRegList](#) ()

Public Attributes

- vpcl::re_register * [my_p](#)
- [SRegList](#) * [prev](#)
- [uint](#) [channel](#)
- [uint](#) [length](#)
- std::string [wacc_size](#)
- std::string [racc_size](#)
- bool [block](#)

Detailed Description

Definition at line 243 of file air_core_regif.h.

Constructor & Destructor Documentation

Cair_core_regif::SRegList::SRegList (vpcl::re_register * [_my_p](#), [SRegList](#) * [_prev](#), [uint](#) [_channel](#), [uint](#) [_length](#), std::string [_wacc_size](#), std::string [_racc_size](#), bool [_block](#) = false)[inline]

Definition at line 264 of file air_core_regif.h.

References [block](#), [channel](#), [length](#), [my_p](#), [prev](#), [racc_size](#), and [wacc_size](#).

Cair_core_regif::SRegList::~~SRegList () [inline]

Definition at line 280 of file air_core_regif.h.

Member Data Documentation

bool Cair_core_regif::SRegList::block

Definition at line 250 of file air_core_regif.h.

Referenced by SRegList().

[uint](#) **Cair_core_regif::SRegList::channel**

Definition at line 246 of file air_core_regif.h.

Referenced by SRegList().

[uint](#) **Cair_core_regif::SRegList::length**

Definition at line 247 of file air_core_regif.h.

Referenced by Cair_core_regif::reg_rd_func(), Cair_core_regif::reg_rd_process(), Cair_core_regif::reg_wr_func(), Cair_core_regif::reg_wr_process(), and SRegList().

vpcl::re_register* Cair_core_regif::SRegList::my_p

Definition at line 244 of file air_core_regif.h.

Referenced by Cair_core_regif::Cair_core_regif(), Cair_core_regif::EnableReset(), Cair_core_regif::first_reg_object(), Cair_core_regif::next_reg_object(), Cair_core_regif::reg_rd_func(), Cair_core_regif::reg_rd_process(), Cair_core_regif::reg_wr_func(), Cair_core_regif::reg_wr_process(), SRegList(), and Cair_core_regif::~Cair_core_regif().

[SRegList*](#) **Cair_core_regif::SRegList::prev**

Definition at line 245 of file air_core_regif.h.

Referenced by Cair_core_regif::next_reg_object(), SRegList(), and Cair_core_regif::~Cair_core_regif().

std::string Cair_core_regif::SRegList::racc_size

Definition at line 249 of file air_core_regif.h.

Referenced by SRegList().

std::string Cair_core_regif::SRegList::wacc_size

Definition at line 248 of file air_core_regif.h.

Referenced by SRegList().

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

- [air_core_regif.h](#)

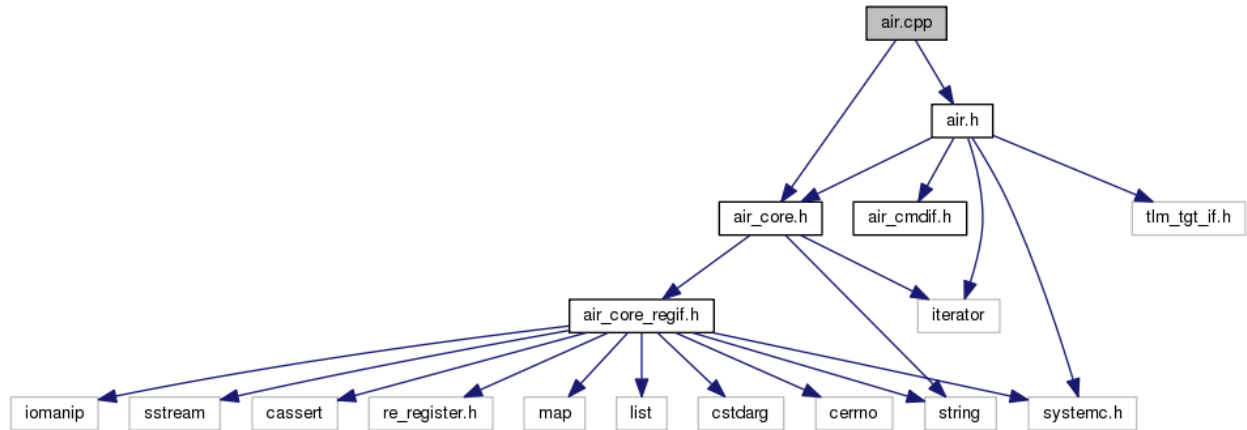
File Documentation

air.cpp File Reference

```
#include "air.h"
```

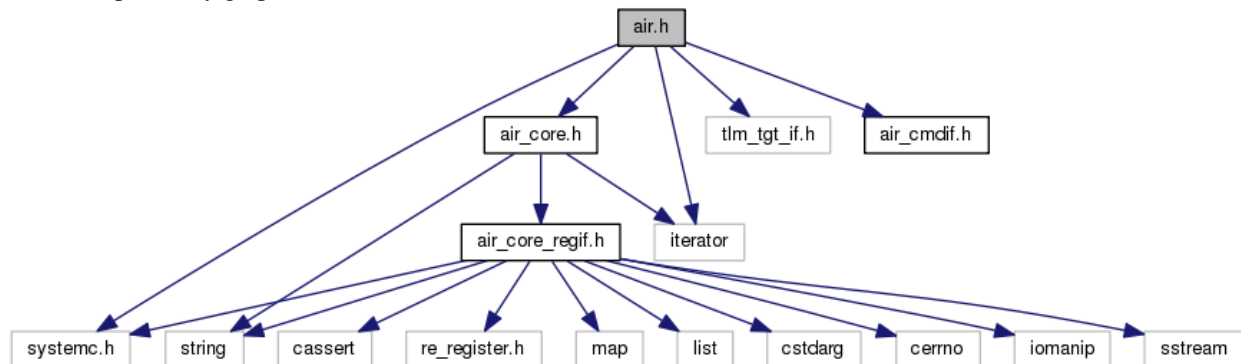
```
#include "air_core.h"
```

Include dependency graph for air.cpp:

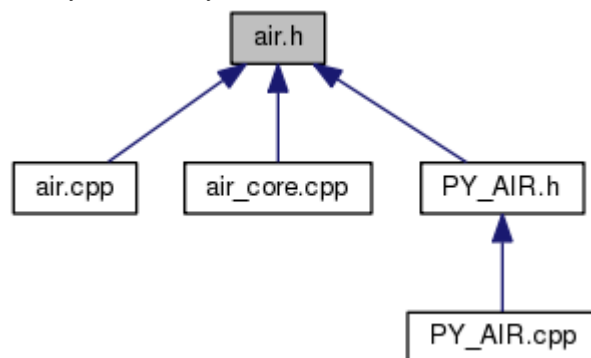


air.h File Reference

```
#include "systemc.h"
#include "tlm_tgt_if.h"
#include "air_core.h"
#include <iterator>
#include "air_cmdif.h"
Include dependency graph for air.h:
```



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

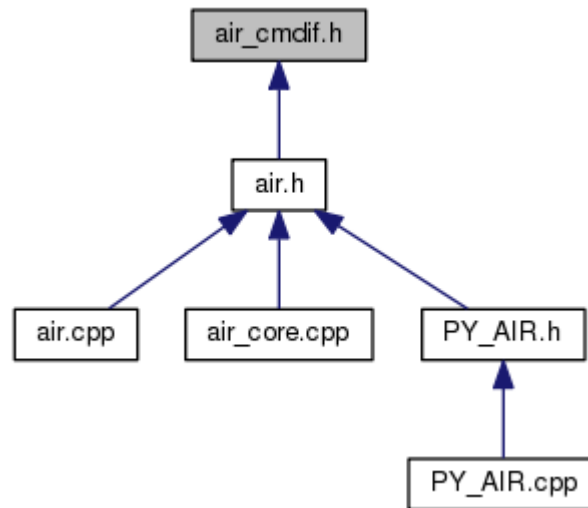


Classes

- class [Cair](#)
AIR model class.

air_cmdif.h File Reference

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



Macros

- `#define re_printf get_fileline(__FILE__, __LINE__); re_printf`

Functions

- `std::string handleCommand (const std::vector< std::string > &args)`
- `std::string own_handle_command (std::vector< std::string > &args)`
- `std::string user_def_command (std::vector< std::string > &args)`
- `bool str2num (std::string str, bool &num)`
- `bool str2num (std::string str, char &num)`
- `bool str2num (std::string str, unsigned char &num)`
- `template<typename T > bool str2num (std::string str, T &num)`
- `bool str2dbl (std::string str, double &num)`
- `void CommandInit (std::string name="")`
- `std::vector< std::string > str2vec (std::string str, const char sep)`
- `void re_printf (std::string group, const char *message,...)`
- `void get_fileline (std::string filename, int line_number)`
- `bool strmatch (const char *ptn, const char *str)`

Variables

- `std::map< std::string, bool > mMessageLevel`
- `std::string mInstName`
- `std::string mFileName`
- `std::string mCmdId`
- `int mLineNum`

Macro Definition Documentation

#define re_printf [get_fileline](#)(__FILE__, __LINE__); [re_printf](#)

Definition at line 889 of file air_cmdif.h.

Referenced by Cair::AssertReset(), Cair::PortResetMethod(), Cair::ReceiveInputMethod(), Cair::SetCLKfreq(), Cair::WriteINTAIRDMAREQMethod(), and Cair::WriteINTAIRINTREQMethod().

Function Documentation

void _re_printf (std::string *group*, const char * *message*, ...)[private]

Definition at line 744 of file air_cmdif.h.

References mFileName, mInstName, mLineNum, and mMessageLevel.

void CommandInit (std::string *name* = "")[private]

Definition at line 694 of file air_cmdif.h.

References mCmdId, mFileName, mInstName, mLineNum, and mMessageLevel.

void get_fileline (std::string *filename*, int *line_number*)[private]

Definition at line 878 of file air_cmdif.h.

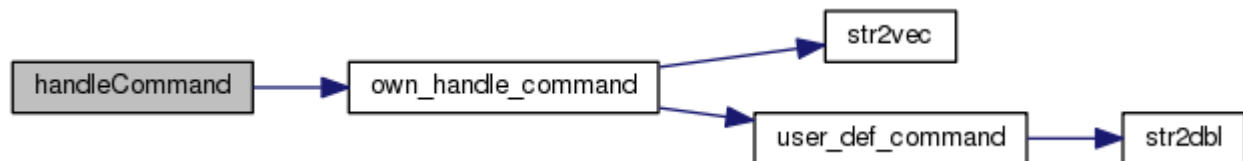
References mFileName, and mLineNum.

std::string handleCommand (const std::vector< std::string > & *args*)

Definition at line 44 of file air_cmdif.h.

References mCmdId, mInstName, and own_handle_command().

Here is the call graph for this function:



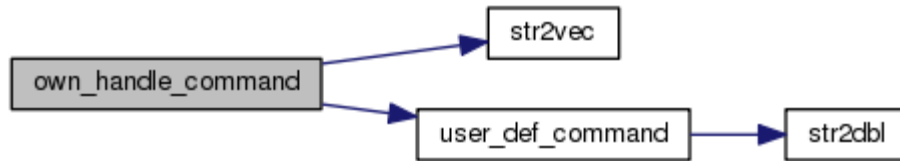
std::string own_handle_command (std::vector< std::string > & *args*)[private]

Definition at line 161 of file air_cmdif.h.

References mInstName, mMessageLevel, str2vec(), and user_def_command().

Referenced by handleCommand().

Here is the call graph for this function:



Here is the caller graph for this function:

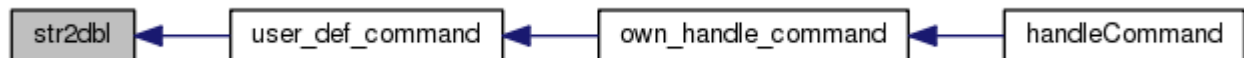


bool str2dbl (std::string str, double & num) [private]

Definition at line 678 of file `air_cmdif.h`.

Referenced by `user_def_command()`.

Here is the caller graph for this function:



bool str2num (std::string str, bool & num) [private]

Definition at line 571 of file `air_cmdif.h`.

bool str2num (std::string str, char & num) [private]

Definition at line 605 of file `air_cmdif.h`.

bool str2num (std::string str, unsigned char & num) [private]

Definition at line 629 of file `air_cmdif.h`.

template<typename T > bool str2num (std::string str, T & num) [private]

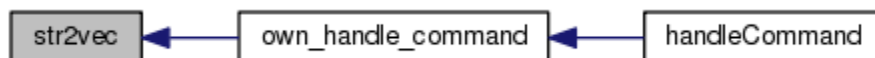
Definition at line 654 of file `air_cmdif.h`.

std::vector<std::string> str2vec (std::string str, const char sep) [private]

Definition at line 725 of file `air_cmdif.h`.

Referenced by `own_handle_command()`.

Here is the caller graph for this function:



bool strmatch (const char * *ptn*, const char * *str*) [private]

Definition at line 892 of file air_cmdif.h.

std::string user_def_command (std::vector< std::string > & *args*) [private]

Definition at line 418 of file air_cmdif.h.

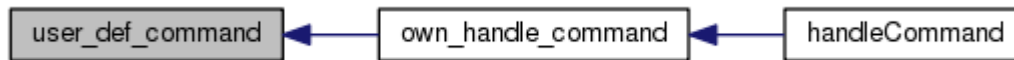
References mInstName, and str2dbl().

Referenced by own_handle_command().

Here is the call graph for this function:



Here is the caller graph for this function:



Variable Documentation

std::string mCmdId

Definition at line 929 of file air_cmdif.h.

Referenced by CommandInit(), and handleCommand().

std::string mFileName

Definition at line 928 of file air_cmdif.h.

Referenced by `_re_printf()`, `CommandInit()`, and `get_fileline()`.

std::string mInstName

Definition at line 927 of file air_cmdif.h.

Referenced by `_re_printf()`, `CommandInit()`, `handleCommand()`, `own_handle_command()`, and `user_def_command()`.

int mLineNum

Definition at line 930 of file air_cmdif.h.

Referenced by `_re_printf()`, `CommandInit()`, and `get_fileline()`.

std::map<std::string, bool> mMessageLevel

Definition at line 920 of file air_cmdif.h.

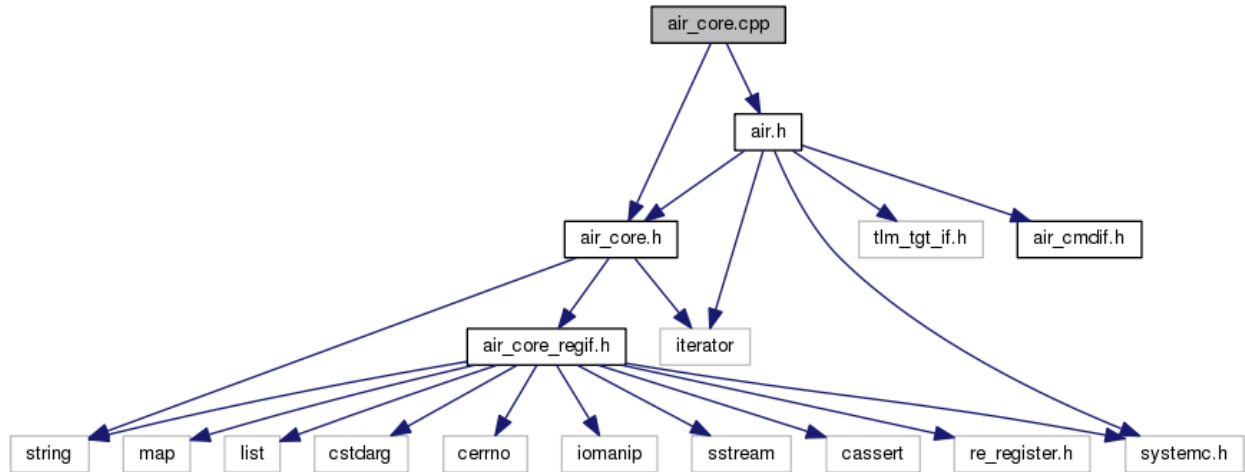
Referenced by `_re_printf()`, `CommandInit()`, and `own_handle_command()`.

air_core.cpp File Reference

```
#include "air_core.h"
```

```
#include "air.h"
```

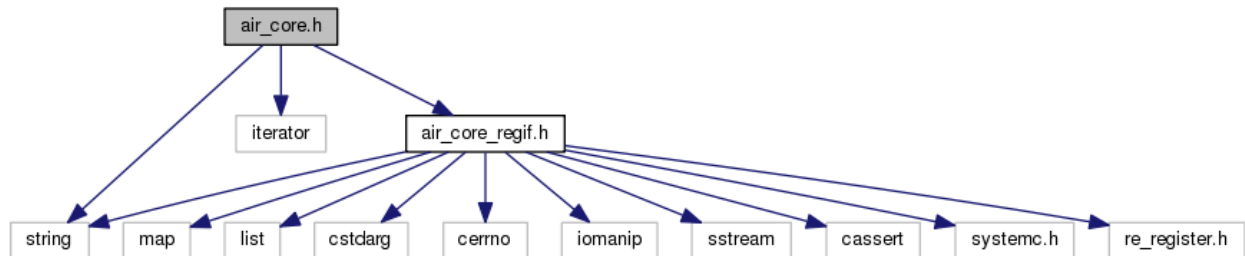
Include dependency graph for air_core.cpp:



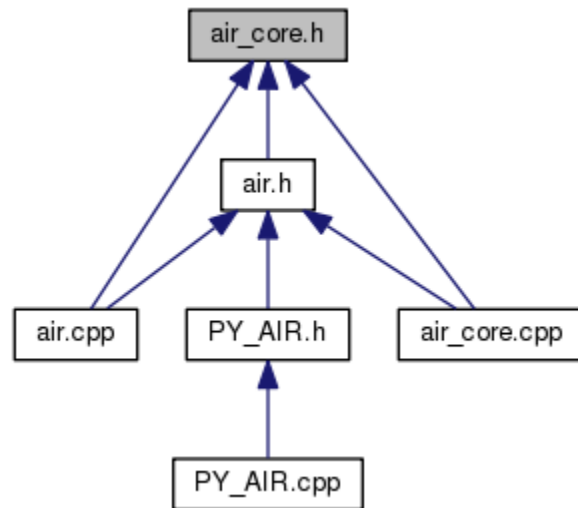
air_core.h File Reference

```
#include <string>
#include <iterator>
#include "air_core_regif.h"
```

Include dependency graph for air_core.h:



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



Classes

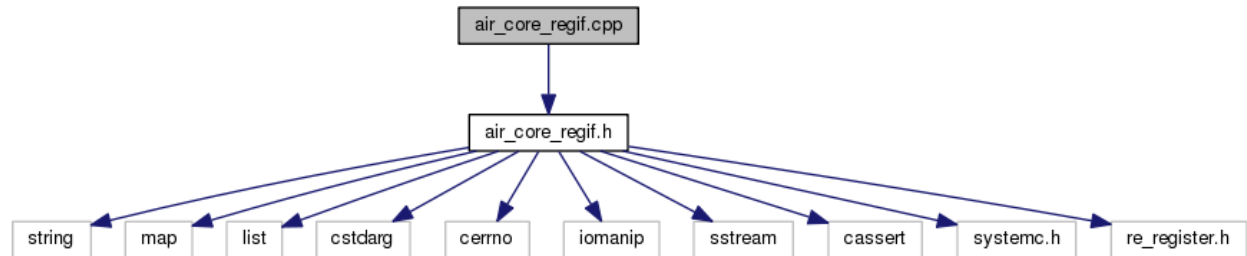
- class [Cair_core](#)
- `AIR_CORE` class, struct [Cair_core::air_mux_table](#)

air_core_regif.cpp File Reference

Register IF class of model AIR_CORE \$Id\$ \$Date\$ \$Revison\$ \$Author\$.

```
#include "air_core_regif.h"
```

Include dependency graph for air_core_regif.cpp:



Macros

- `#define re_printf get_fileline(__FILE__, __LINE__); _re_printf`
-

Detailed Description

Register IF class of model AIR_CORE \$Id\$ \$Date\$ \$Revison\$ \$Author\$.

Definition in file [air_core_regif.cpp](#).

Macro Definition Documentation

`#define re_printf get_fileline(__FILE__, __LINE__); _re_printf`

Definition at line 197 of file `air_core_regif.cpp`.

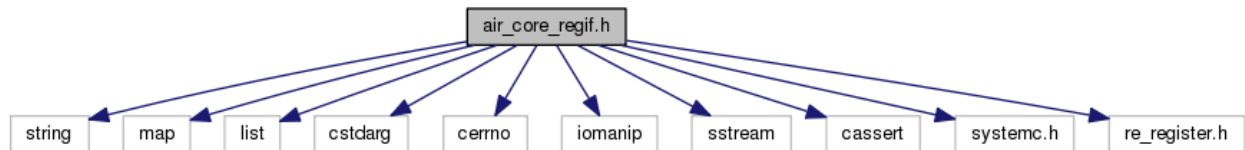
Referenced by `Cair_core_regif::ChkSize()`, `Cair_core_regif::DumpRegMsg()`, `Cair_core_regif::EnableReset()`, `Cair_core_regif::reg_rd()`, `Cair_core_regif::reg_rd_dbg()`, `Cair_core_regif::reg_rd_func()`, `Cair_core_regif::reg_rd_process()`, `Cair_core_regif::reg_wr()`, `Cair_core_regif::reg_wr_dbg()`, `Cair_core_regif::reg_wr_func()`, and `Cair_core_regif::reg_wr_process()`.

air_core_regif.h File Reference

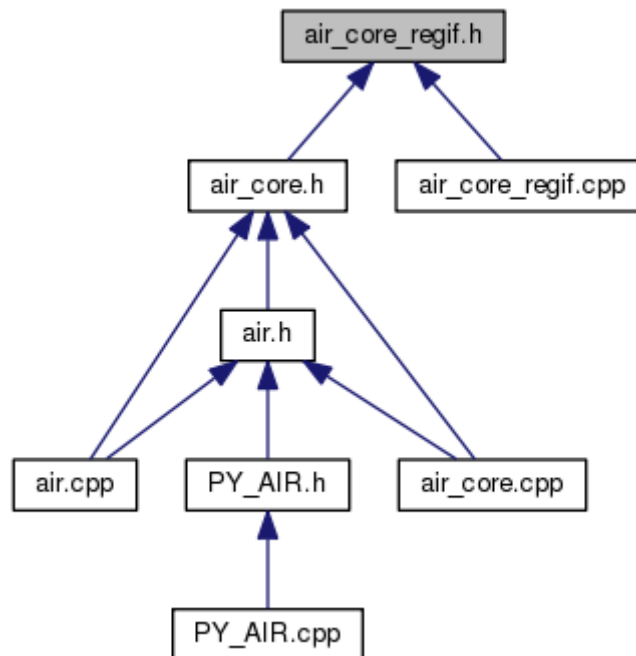
Register IF class of model AIR_CORE \$Id\$ \$Date\$ \$Revision\$ \$Author\$.

```
#include <string>
#include <map>
#include <list>
#include <cstdarg>
#include <cerrno>
#include <iomanip>
#include <sstream>
#include <cassert>
#include "systemc.h"
#include "re_register.h"
```

Include dependency graph for air_core_regif.h:



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



Classes

- class [Cair_core_regif](#)
- Register IF class of AIR_CORE model. struct [Cair_core_regif::RegCBstr](#)
- struct [Cair_core_regif::SRegList](#)

Detailed Description

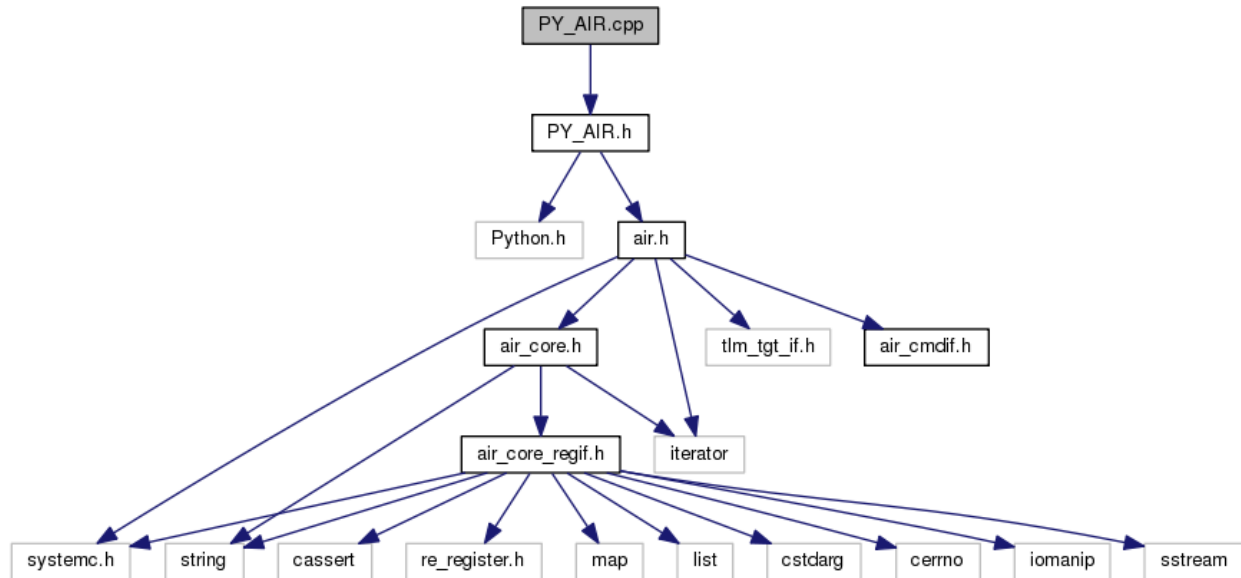
Register IF class of model AIR_CORE \$Id\$ \$Date\$ \$Revision\$ \$Author\$.

Definition in file [air_core_regif.h](#).

PY_AIR.cpp File Reference

```
#include "PY_AIR.h"
```

Include dependency graph for PY_AIR.cpp:



Namespaces

- namespace [PY_AIR](#)

Functions

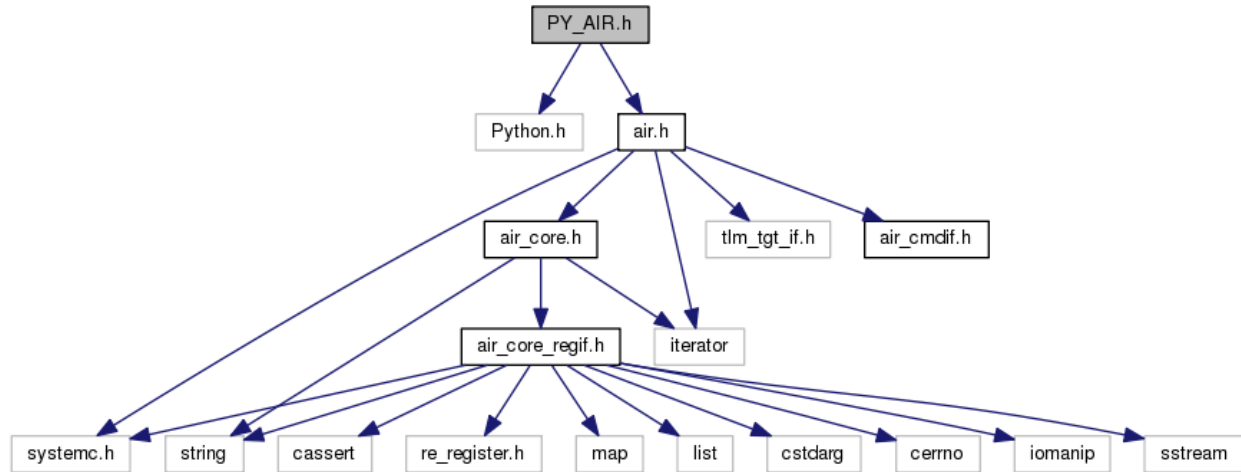
- void [PY_AIR::SetPyExtCmd](#) (void)
- void [PY_AIR::SeparateString](#) (std::vector< std::string > &vtr, const std::string msg)
- void [PY_AIR::ProcessCommand](#) (const std::string cmd_id, const std::string cmd_name, char *token, char *input_arg)
- PyObject * [PY_AIR::DumpStatInfoPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::SetCLKfreqPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::tgtPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::regPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::MessageLevelPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::helpPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::AssertResetPy](#) (PyObject *self, PyObject *args)

Variables

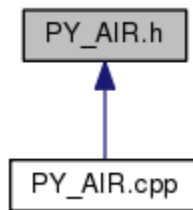
- PyMethodDef [PY_AIR::mShApiDef](#) []

PY_AIR.h File Reference

```
#include <Python.h>
#include "air.h"
Include dependency graph for PY_AIR.h:
```



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



Namespaces

- namespace [PY_AIR](#)

Macros

- #define [PY_INITMODULE_NAME](#) "SCHEAP"

Functions

- PyObject * [PY_AIR::DumpStatInfoPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::SetCLKfreqPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::tgtPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::regPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::MessageLevelPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::helpPy](#) (PyObject *self, PyObject *args)
- PyObject * [PY_AIR::AssertResetPy](#) (PyObject *self, PyObject *args)
- void [PY_AIR::SetPyExtCmd](#) (void)
- void [PY_AIR::SeparateString](#) (std::vector< std::string > &vtr, const std::string msg)
- void [PY_AIR::ProcessCommand](#) (const std::string cmd_id, const std::string cmd_name, char *token, char *input_arg)

Macro Definition Documentation

#define PY_INITMODULE_NAME "SCHEAP"

Definition at line 17 of file PY_AIR.h.

Referenced by PY_AIR::SetPyExtCmd().

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