15007 F1K/SARAD113x

Version
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Class List

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

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File List

Here is a list of all files with brief descriptions:

Namespace Documentation

PY_SARAD113x 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 * DumpInterruptPy (PyObject *self, PyObject *args)
- PyObject * EnableConvertInfoPy (PyObject *self, PyObject *args)
- PyObject * AvrefhPy (PyObject *self, PyObject *args)
- PyObject * AVccPy (PyObject *self, PyObject *args)
- PyObject * AVssPy (PyObject *self, PyObject *args)
- PyObject * EX_HLD_CDTPy (PyObject *self, PyObject *args)
- PyObject * EX_CNVTPy (PyObject *self, PyObject *args)
- PyObject * tDPy (PyObject *self, PyObject *args)
- PyObject * tPWDDPy (PyObject *self, PyObject *args)
- PyObject * tEDPy (PyObject *self, PyObject *args)
- PyObject * EnableTimeCalculationPy (PyObject *self, PyObject *args)
- 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 []

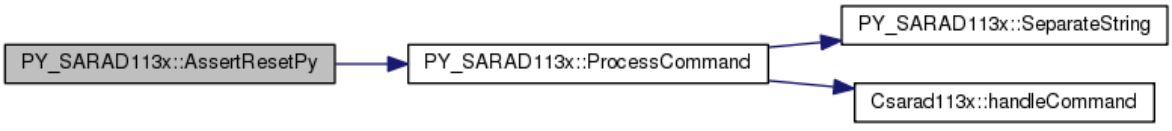
Function Documentation

static PyObject * PY_SARAD113x::AssertResetPy (PyObject * *self*, PyObject * *args*)

Definition at line 297 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

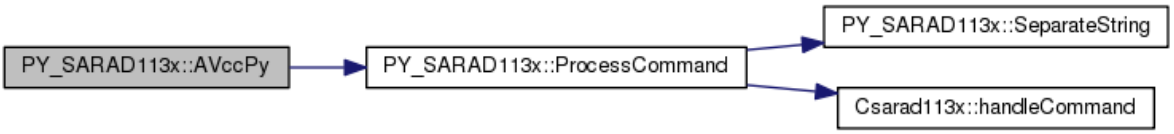


static PyObject * PY_SARAD113x::AVccPy (PyObject * *self*, PyObject * *args*)

Definition at line 117 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

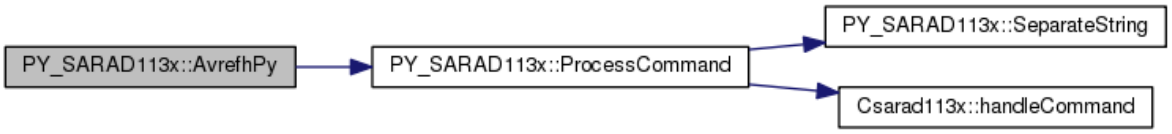


static PyObject * PY_SARAD113x::AvrefhPy (PyObject * *self*, PyObject * *args*)

Definition at line 104 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:



static PyObject * PY_SARAD113x::AVssPy (PyObject * *self*, PyObject * *args*)

Definition at line 130 of file PY_SARAD113x.cpp.

References ProcessCommand().

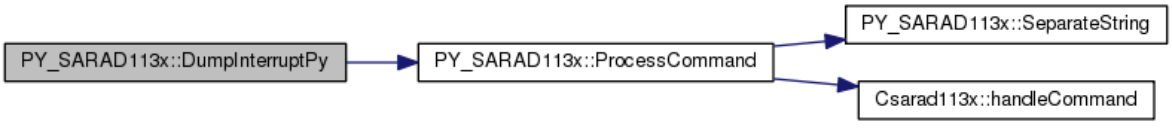
Here is the call graph for this function:

static PyObject * PY_SARAD113x::DumpInterruptPy (PyObject * *self*, PyObject * *args*)

Definition at line 78 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

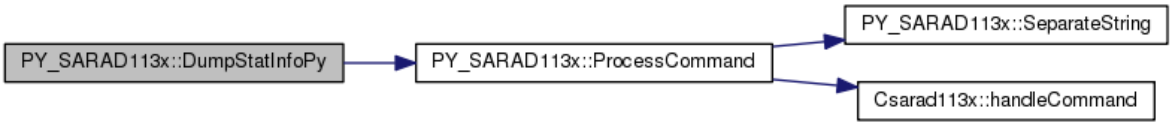


static PyObject * PY_SARAD113x::DumpStatInfoPy (PyObject * *self*, PyObject * *args*)

Definition at line 221 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

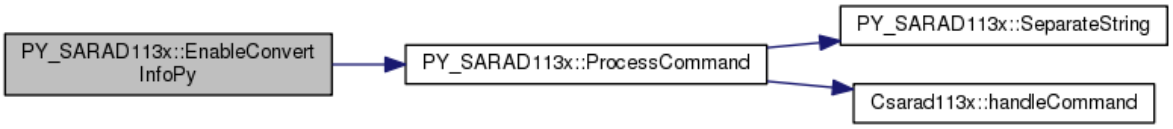


static PyObject * PY_SARAD113x::EnableConvertInfoPy (PyObject * *self*, PyObject * *args*)

Definition at line 91 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

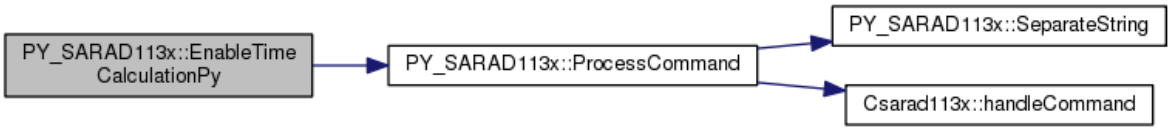


static PyObject * PY_SARAD113x::EnableTimeCalculationPy (PyObject * *self*, PyObject * *args*)

Definition at line 208 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

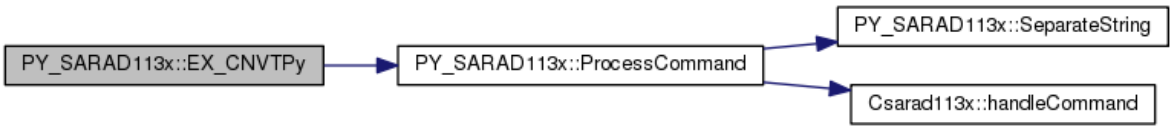


static PyObject * PY_SARAD113x::EX_CNVTPy (PyObject * *self*, PyObject * *args*)

Definition at line 156 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

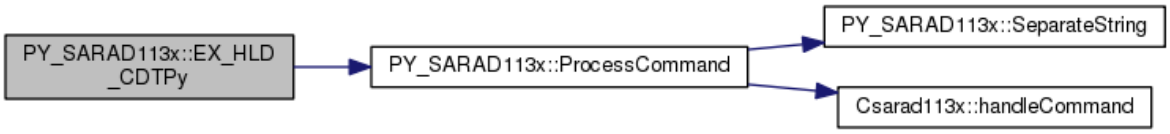


static PyObject * PY_SARAD113x::EX_HLD_CDTPy (PyObject * *self*, PyObject * *args*)

Definition at line 143 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

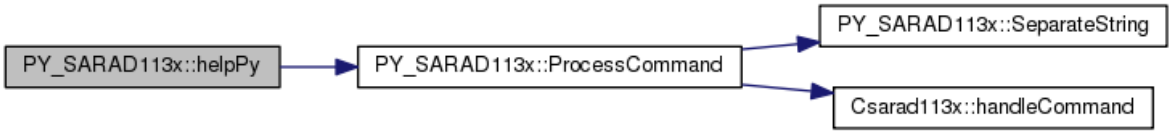


static PyObject * PY_SARAD113x::helpPy (PyObject * *self*, PyObject * *args*)

Definition at line 285 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:

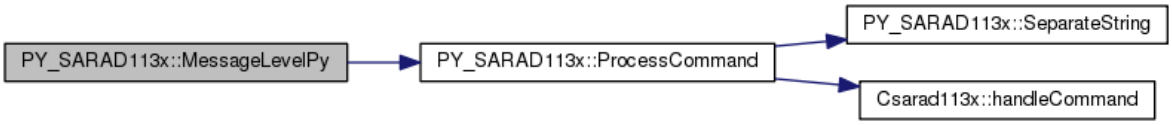


static PyObject * PY_SARAD113x::MessageLevelPy (PyObject * *self*, PyObject * *args*)

Definition at line 272 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:



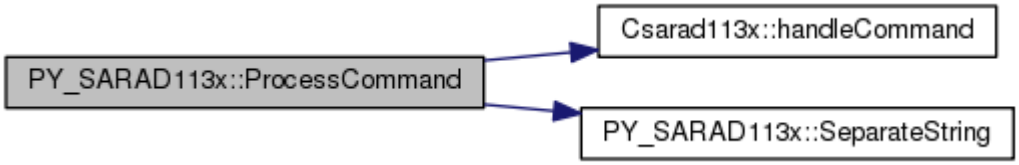
void PY_SARAD113x::ProcessCommand (const std::string *cmd_id*, const std::string *cmd_name*, char * *token*, char * *input_arg*)

Definition at line 58 of file PY_SARAD113x.cpp.

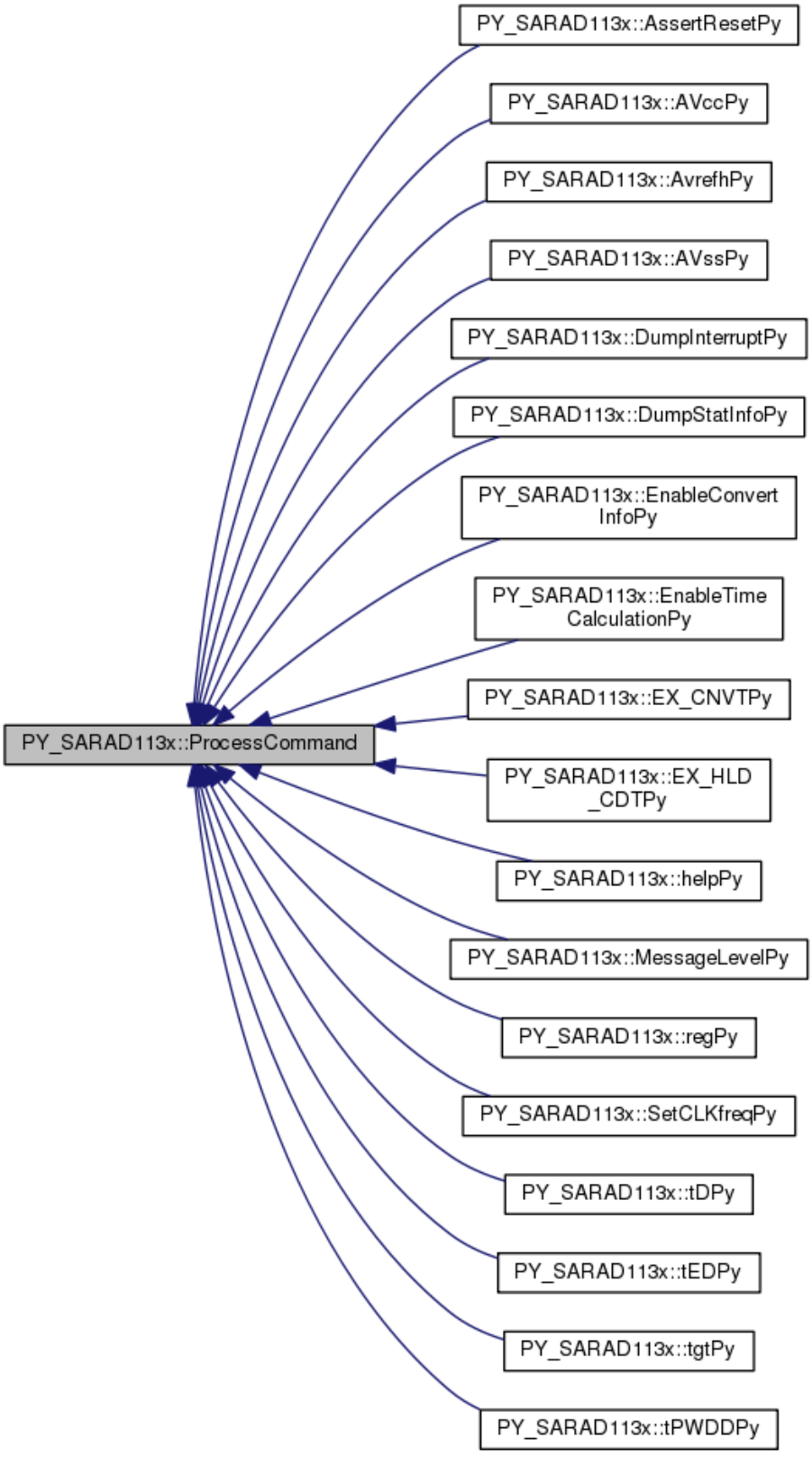
References Csarad113x::handleCommand(), and SeparateString().

Referenced by AssertResetPy(), AVccPy(), AvrefhPy(), AVssPy(), DumpInterruptPy(), DumpStatInfoPy(), EnableConvertInfoPy(), EnableTimeCalculationPy(), EX_CNVTPy(), EX_HLD_CDTPy(), helpPy(), MessageLevelPy(), regPy(), SetCLKfreqPy(), tDPy(), tEDPy(), tgtPy(), and tPWDDPy().

Here is the call graph for this function:



Here is the caller graph for this function:


PY_SARAD113x::AssertResetPy
PY_SARAD113x::AVccPy
PY_SARAD113x::AvrefhPy
PY_SARAD113x::AVssPy
PY_SARAD113x::DumpInterruptPy
PY_SARAD113x::DumpStatInfoPy
PY_SARAD113x::EnableConvert InfoPy
PY_SARAD113x::EnableTime CalculationPy
PY_SARAD113x::EX_CNVTPy
PY_SARAD113x::ProcessCommand
PY_SARAD113x::EX_HLD _CDTPy
PY_SARAD113x::helpPy
PY_SARAD113x::MessageLevelPy
PY_SARAD113x::regPy
PY_SARAD113x::SetCLKfreqPy
PY_SARAD113x::tDPy
PY_SARAD113x::tEDPy
PY_SARAD113x::tgtPy
PY_SARAD113x::tPWDDPy

static PyObject * PY_SARAD113x::regPy (PyObject * *self*, PyObject * *args*)

Definition at line 259 of file PY_SARAD113x.cpp.

References ProcessCommand().

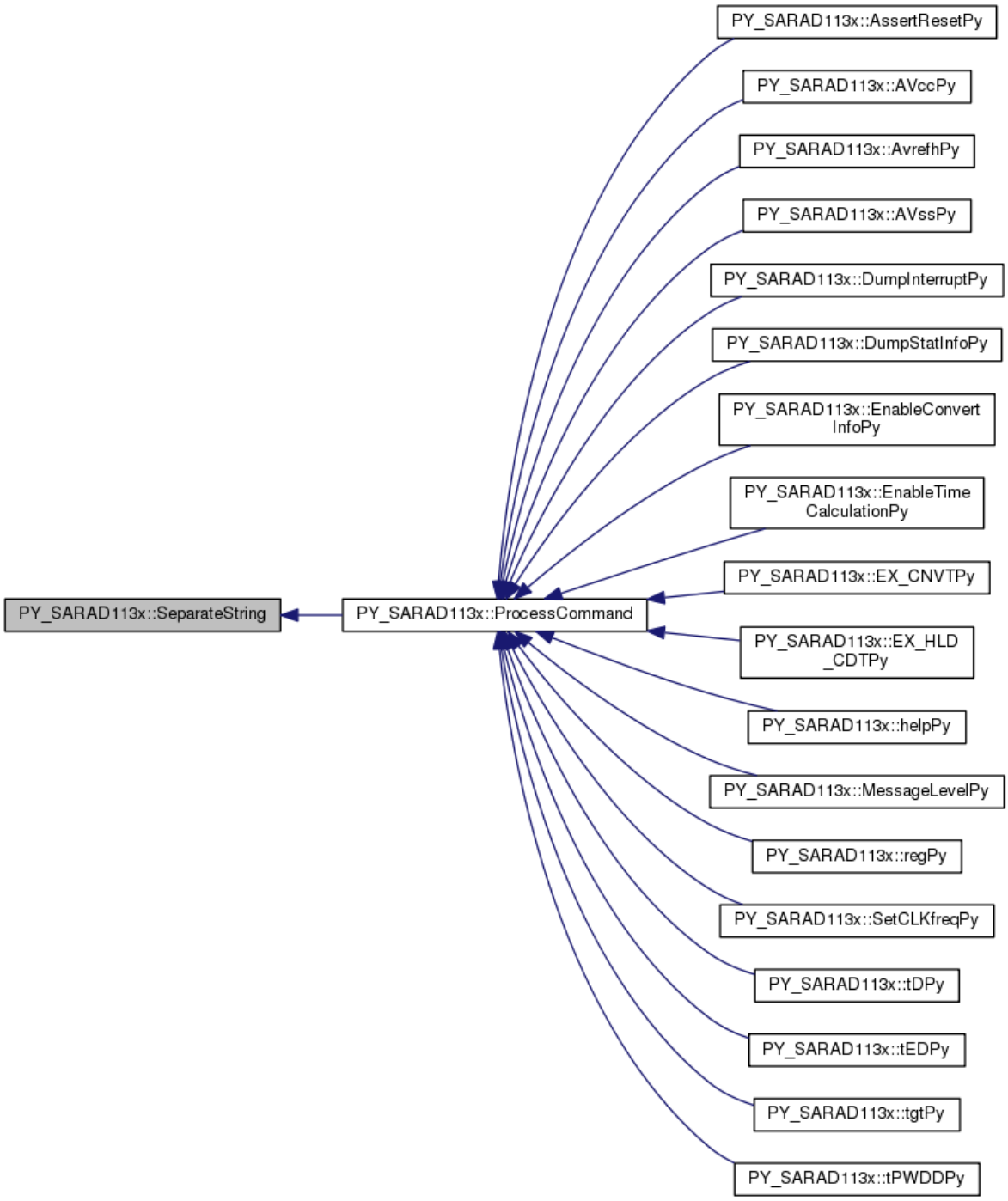
Here is the call graph for this function:

void PY_SARAD113x::SeparateString (std::vector< std::string > & *vtr*, const std::string *msg*)

Definition at line 43 of file PY_SARAD113x.cpp.

Referenced by ProcessCommand().

Here is the caller graph for this function:

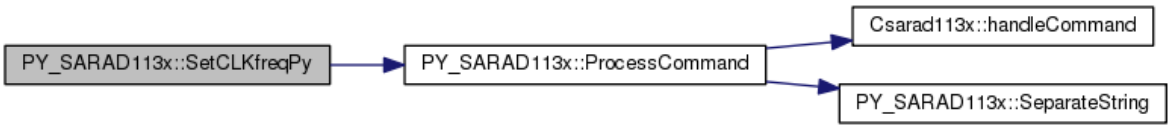


static PyObject * PY_SARAD113x::SetCLKfreqPy (PyObject * *self*, PyObject * *args*)

Definition at line 233 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:



void PY_SARAD113x::SetPyExtCmd (void)

Definition at line 38 of file PY_SARAD113x.cpp.

References mShApiDef, and PY_INITMODULE_NAME.

static PyObject * PY_SARAD113x::tDPy (PyObject * *self*, PyObject * *args*)

Definition at line 169 of file PY_SARAD113x.cpp.

References ProcessCommand().

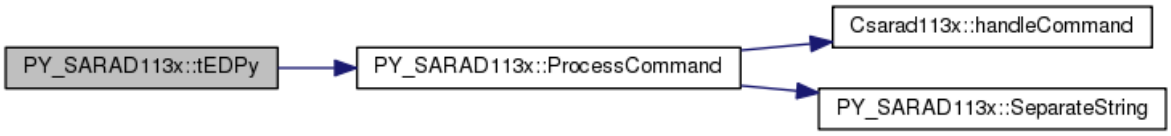
Here is the call graph for this function:

static PyObject * PY_SARAD113x::tEDPy (PyObject * *self*, PyObject * *args*)

Definition at line 195 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:



static PyObject * PY_SARAD113x::tgtPy (PyObject * *self*, PyObject * *args*)

Definition at line 246 of file PY_SARAD113x.cpp.

References ProcessCommand().

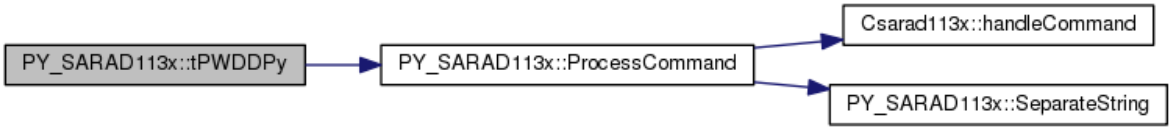
Here is the call graph for this function:

static PyObject * PY_SARAD113x::tPWDDPy (PyObject * *self*, PyObject * *args*)

Definition at line 182 of file PY_SARAD113x.cpp.

References ProcessCommand().

Here is the call graph for this function:



Variable Documentation

PyMethodDef PY_SARAD113x::mShApiDef[]

```
Initial value:= {
       {"SARAD113x_DumpInterrupt", DumpInterruptPy, METH_VARARGS, ""},
       {"SARAD113x EnableConvertInfo", EnableConvertInfoPy, METH VARARGS, ""},
       {"SARAD113x_Avrefh", AvrefhPy, METH_VARARGS, ""},
       {"SARAD113x AVcc", AVccPy, METH VARARGS, ""},
       {"SARAD113x_AVss", AVssPy, METH_VARARGS, ""},
       {"SARAD113x_EX_HLD_CDT", EX_HLD_CDTPy, METH_VARARGS, ""},
       {"SARAD113x_EX_CNVT", EX_CNVTPy, METH_VARARGS, ""},
       {"SARAD113x tD", tDPy, METH VARARGS, ""},
       {"SARAD113x_tPWDD", tPWDDPy, METH_VARARGS, ""},
       {"SARAD113x tED", tEDPy, METH VARARGS, ""},
       {"SARAD113x_EnableTimeCalculation", EnableTimeCalculationPy, METH_VARARGS, ""},
       {"SARAD113x_DumpStatInfo", DumpStatInfoPy, METH_VARARGS, ""},
       {"SARAD113x SetCLKfreq", SetCLKfreqPy, METH VARARGS, ""},
       {"SARAD113x_tgt", tgtPy, METH_VARARGS, ""},
       {"SARAD113x reg", regPy, METH VARARGS, ""},
       {"SARAD113x_MessageLevel", MessageLevelPy, METH_VARARGS, ""},
       {"SARAD113x_help", helpPy, METH_VARARGS, ""},
       {"SARAD113x_AssertReset", AssertResetPy, METH_VARARGS, ""},
       {NULL, NULL, 0, NULL}
   }
```

Definition at line 16 of file PY_SARAD113x.cpp.

Referenced by SetPyExtCmd().

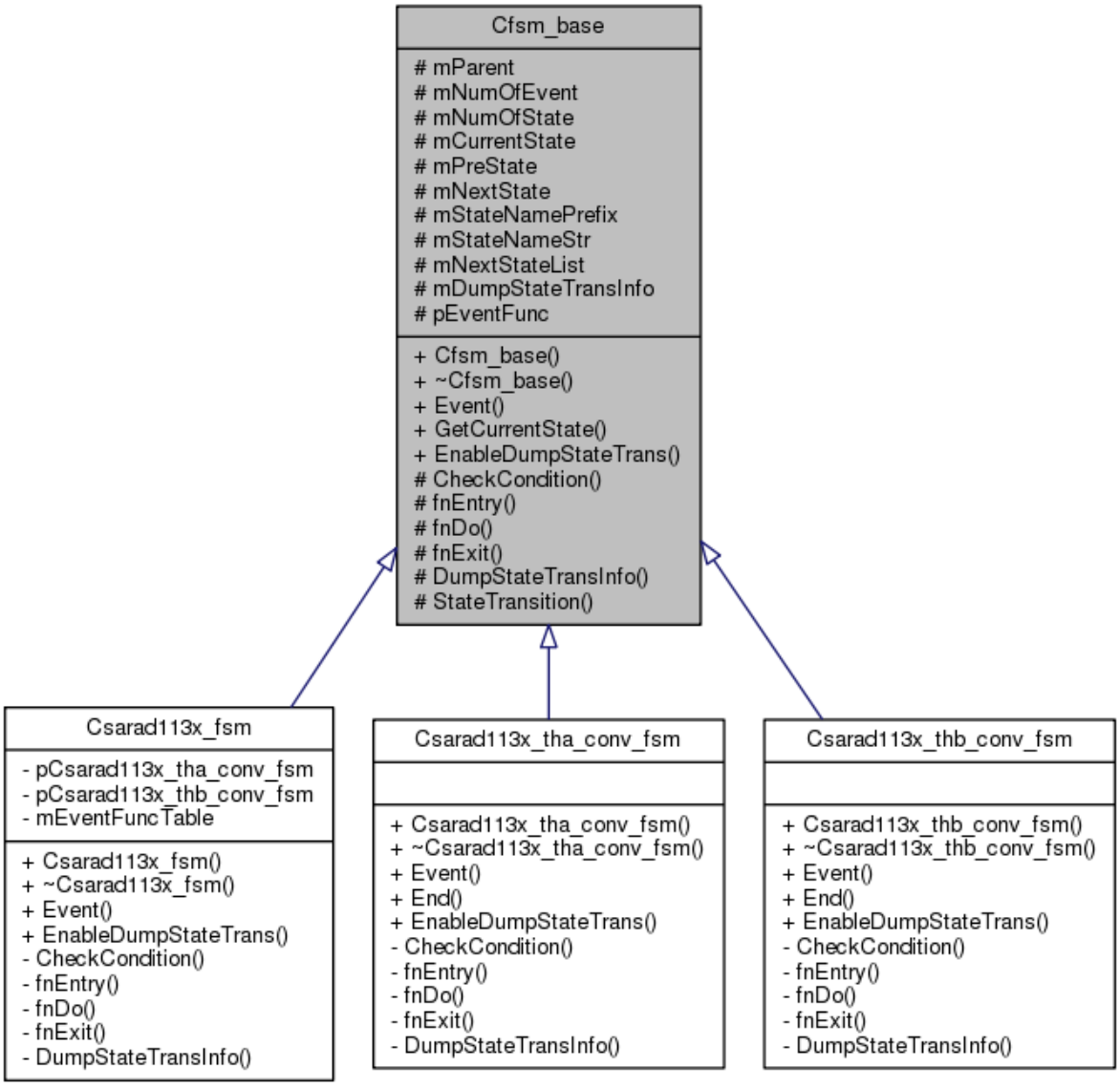
Class Documentation

Cfsm_base Class Reference

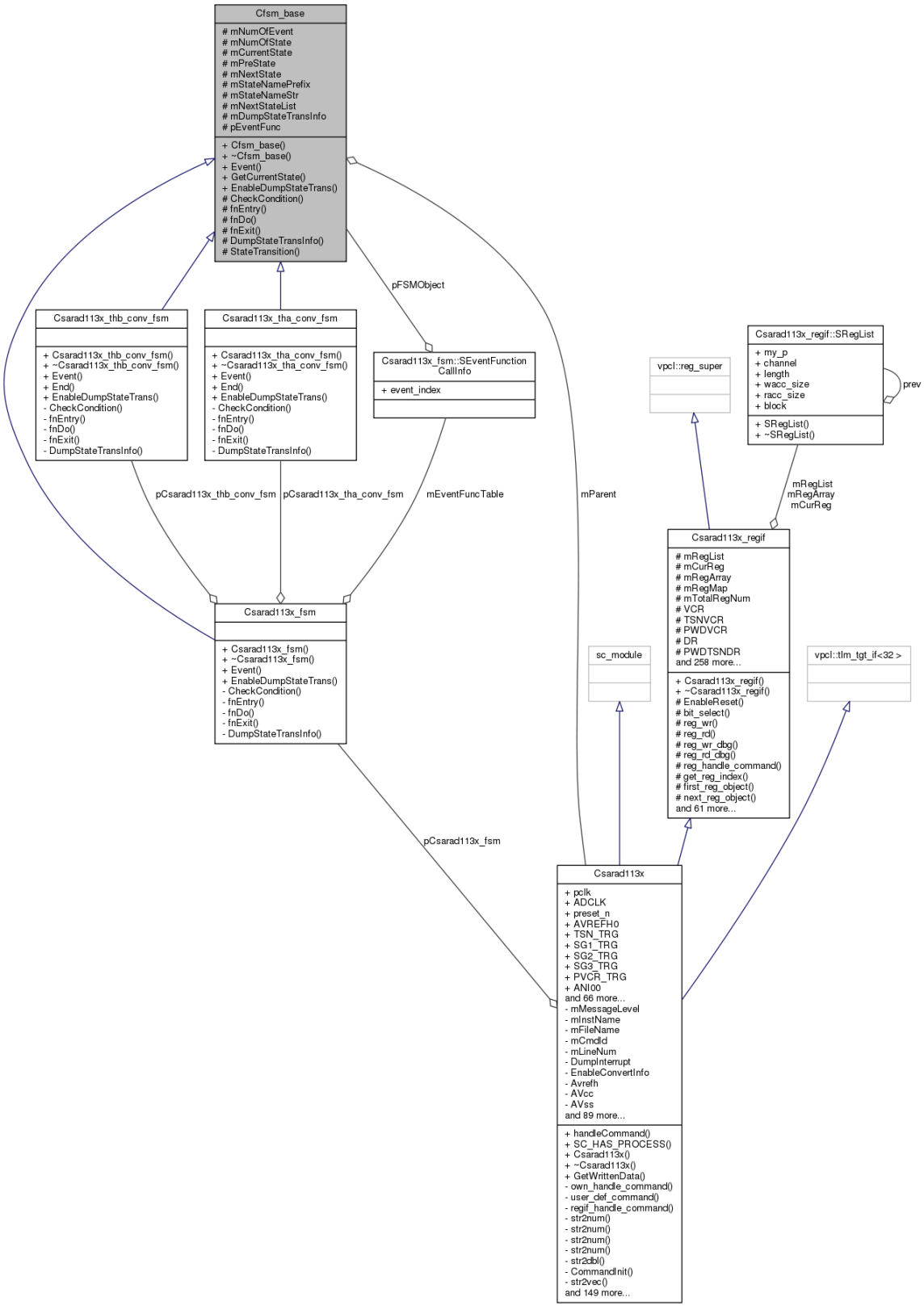
FSM base class.

`#include <sarad113x_fsm.h>`

Inheritance diagram for Cfsm_base:



Collaboration diagram for Cfsm_base:


Cfsm_base
mNumOfEvent
mNumOfState
mCurrentState
mPreState
mNextState
mStateNamePrefix
mStateNameStr
mNextStateList
mDumpStateTransInfo
pEventFunc
+ Cfsm_base()
+ ~Cfsm_base()
+ Event()
+ GetCurrentState()
+ EnableDumpStateTrans()
# CheckCondition()
# fnEntry()
# fnDo()
# fnExit()
# DumpStateTransInfo()
# StateTransition()
pFSMObject
Csarad113x_thb_conv_fsm
+ Csarad113x_thb_conv_fsm()
+ ~Csarad113x_thb_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_tha_conv_fsm
+ Csarad113x_tha_conv_fsm()
+ ~Csarad113x_tha_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_fsm::SEventFunction CallInfo
+ event_index
vpcl::reg_super
Csarad113x_regif::SRegList
+ my_p
+ channel
+ length
+ wacc_size
+ racc_size
+ block
prev
+ SRegList()
+ ~SRegList()
pCsarad113x_thb_conv_fsm
pCsarad113x_tha_conv_fsm
mEventFuncTable
mParent
mRegList
mRegArray
mCurReg
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
Csarad113x_fsm
+ Csarad113x_fsm()
+ ~Csarad113x_fsm()
+ Event()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
sc_module
vpcl::tlm_tgt_if<32 >
pCsarad113x_fsm
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 89 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...

Public Member Functions

- Cfsm_base (Csarad113x *_parent, std::string upper_state, unsigned int num_of_state, unsigned int num_of_event)
- virtual ~Cfsm_base (void)
- virtual void Event (unsigned int)=0
- unsigned int GetCurrentState (void)
- virtual void EnableDumpStateTrans (bool enable)=0

Protected Member Functions

- virtual void CheckCondition (const unsigned int condition_id)=0
- virtual void fnEntry (void)=0
- virtual void fnDo (void)=0
- virtual void fnExit (void)=0
- virtual void DumpStateTransInfo (void)=0
- bool StateTransition (unsigned int event)

Protected Attributes

- Csarad113x * mParent
- unsigned int mNumOfEvent
- unsigned int mNumOfState
- unsigned int mCurrentState
- unsigned int mPreState
- unsigned int mNextState
- std::string mStateNamePrefix
- std::string * mStateNameStr
- unsigned int ** mNextStateList
- bool mDumpStateTransInfo
- void(Cfsm_base::* pEventFunc)(unsigned int)

Detailed Description

FSM base class.

Definition at line 28 of file sarad113x_fsm.h.

Constructor & Destructor Documentation

Cfsm_base::Cfsm_base (Csarad113x * *_parent*, std::string *upper_state*, unsigned int *num_of_state*, unsigned int *num_of_event*) `[inline]`

Definition at line 31 of file sarad113x_fsm.h.

References Event(), mDumpStateTransInfo, mNextState, mNextStateList, mNumOfEvent, mNumOfState, mParent, mPreState, mStateNamePrefix, mStateNameStr, and pEventFunc.

Here is the call graph for this function:

virtual Cfsm_base::~Cfsm_base (void) [inline], [virtual]

Definition at line 60 of file sarad113x_fsm.h.

References mNextStateList, mNumOfState, and mStateNameStr.

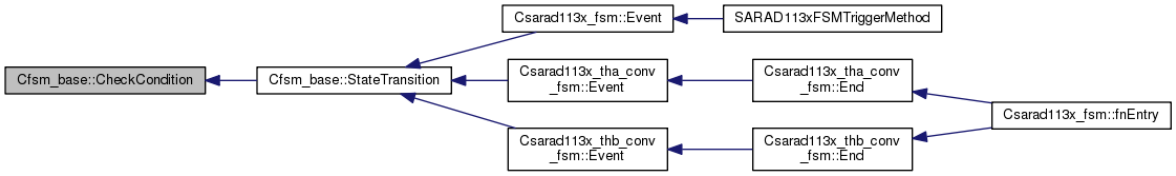
Member Function Documentation

virtual void Cfsm_base::CheckCondition (const unsigned int *condition_id*) [protected], [pure virtual]

Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

Referenced by StateTransition().

Here is the caller graph for this function:

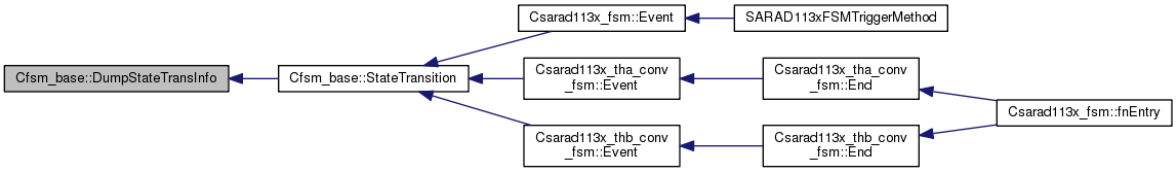


virtual void Cfsm_base::DumpStateTransInfo (void) [protected], [pure virtual]

Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

Referenced by StateTransition().

Here is the caller graph for this function:



virtual void Cfsm_base::EnableDumpStateTrans (bool *enable*) [pure virtual]

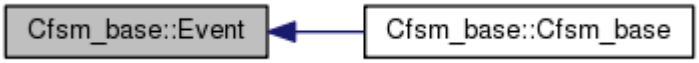
Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

virtual void Cfsm_base::Event (unsigned *int*) [pure virtual]

Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

Referenced by Cfsm_base().

Here is the caller graph for this function:

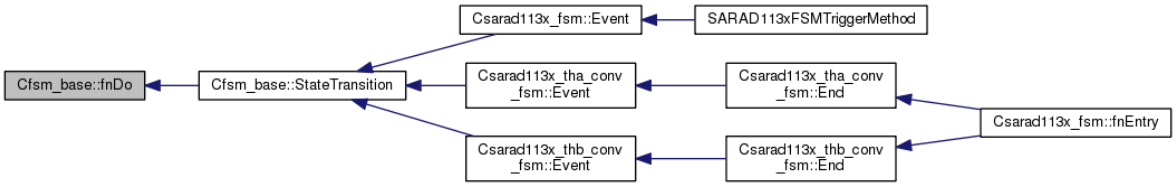


virtual void Cfsm_base::fnDo (void) [protected], [pure virtual]

Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

Referenced by StateTransition().

Here is the caller graph for this function:

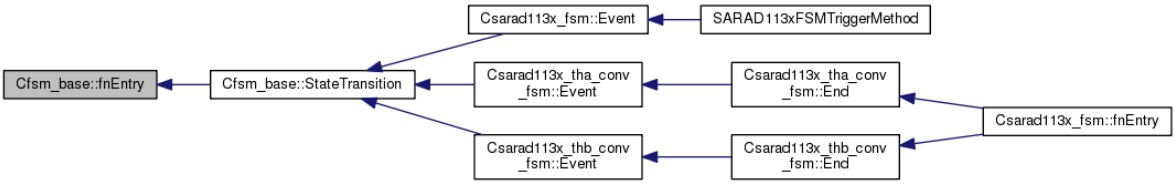


virtual void Cfsm_base::fnEntry (void) [protected], [pure virtual]

Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

Referenced by StateTransition().

Here is the caller graph for this function:

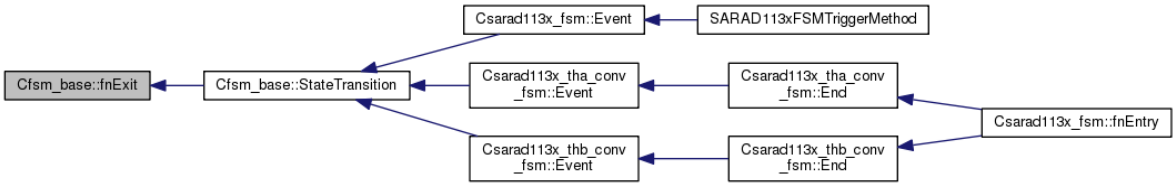


virtual void Cfsm_base::fnExit (void) [protected], [pure virtual]

Implemented in Csarad113x_thb_conv_fsm, Csarad113x_tha_conv_fsm, and Csarad113x_fsm.

Referenced by StateTransition().

Here is the caller graph for this function:



unsigned int Cfsm_base::GetCurrentState (void) `[inline]`

Definition at line 70 of file sarad113x_fsm.h.

References mCurrentState.

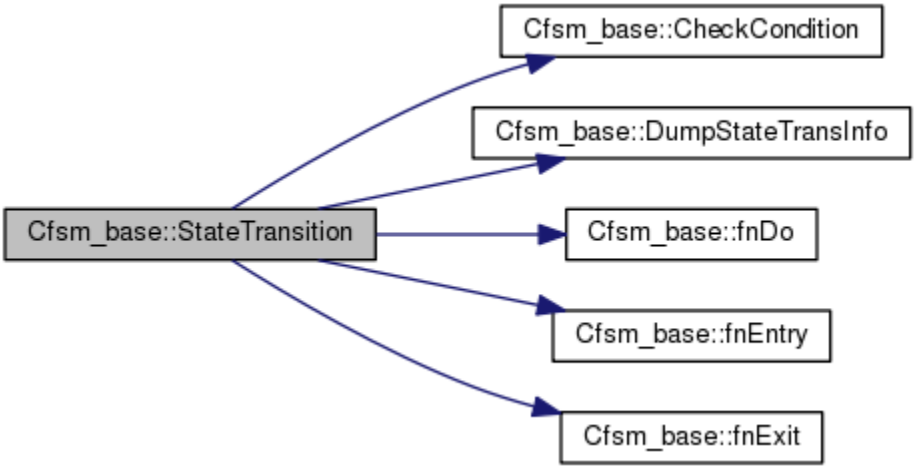
bool Cfsm_base::StateTransition (unsigned int *event*) `[inline]`, `[protected]`

Definition at line 94 of file sarad113x_fsm.h.

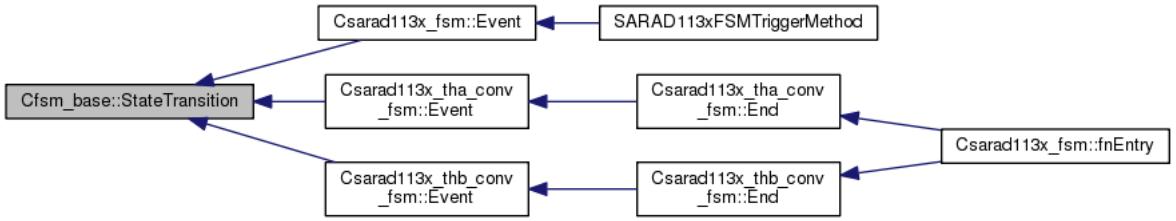
References CheckCondition(), DumpStateTransInfo(), fnDo(), fnEntry(), fnExit(), mCurrentState, mNextState, mNextStateList, mNumOfEvent, and mNumOfState.

Referenced by Csarad113x_fsm::Event(), Csarad113x_tha_conv_fsm::Event(), and Csarad113x_thb_conv_fsm::Event().

Here is the call graph for this function:



Here is the caller graph for this function:



Member Data Documentation

unsigned int Cfsm_base::mCurrentState [protected]

Definition at line 80 of file sarad113x_fsm.h.

Referenced by Csarad113x::CheckTrigger(), Csarad113x_fsm::Csarad113x_fsm(), Csarad113x_tha_conv_fsm::Csarad113x_tha_conv_fsm(), Csarad113x_thb_conv_fsm::Csarad113x_thb_conv_fsm(), Csarad113x_fsm::DumpStateTransInfo(), Csarad113x_tha_conv_fsm::DumpStateTransInfo(), Csarad113x_thb_conv_fsm::DumpStateTransInfo(), Csarad113x_fsm::Event(), Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), Csarad113x_thb_conv_fsm::fnEntry(), Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), Csarad113x_thb_conv_fsm::fnExit(), GetCurrentState(), StateTransition(), and Csarad113x::SuspendScanning().

bool Cfsm_base::mDumpStateTransInfo [protected]

Definition at line 86 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::DumpStateTransInfo(), Csarad113x_tha_conv_fsm::DumpStateTransInfo(), Csarad113x_thb_conv_fsm::DumpStateTransInfo(), Csarad113x_fsm::EnableDumpStateTrans(), Csarad113x_tha_conv_fsm::EnableDumpStateTrans(), and Csarad113x_thb_conv_fsm::EnableDumpStateTrans().

unsigned int Cfsm_base::mNextState [protected]

Definition at line 82 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::CheckCondition(), Csarad113x_tha_conv_fsm::CheckCondition(), Csarad113x_thb_conv_fsm::CheckCondition(), Csarad113x_fsm::DumpStateTransInfo(), Csarad113x_tha_conv_fsm::DumpStateTransInfo(), Csarad113x_thb_conv_fsm::DumpStateTransInfo(), Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), Csarad113x_thb_conv_fsm::fnEntry(), and StateTransition().

unsigned int** Cfsm_base::mNextStateList [protected]

Definition at line 85 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::Csarad113x_fsm(), Csarad113x_tha_conv_fsm::Csarad113x_tha_conv_fsm(), Csarad113x_thb_conv_fsm::Csarad113x_thb_conv_fsm(), StateTransition(), and ~Cfsm_base().

unsigned int Cfsm_base::mNumOfEvent [protected]

Definition at line 78 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), and StateTransition().

unsigned int Cfsm_base::mNumOfState [protected]

Definition at line 79 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), StateTransition(), and ~Cfsm_base().

Csarad113x* Cfsm_base::mParent [protected]

Definition at line 77 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::CheckCondition(), Csarad113x_tha_conv_fsm::CheckCondition(), Csarad113x_thb_conv_fsm::CheckCondition(), Csarad113x_fsm::Csarad113x_fsm(), Csarad113x_fsm::DumpStateTransInfo(), Csarad113x_tha_conv_fsm::DumpStateTransInfo(), Csarad113x_thb_conv_fsm::DumpStateTransInfo(), Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), Csarad113x_thb_conv_fsm::fnEntry(), Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

unsigned int Cfsm_base::mPreState [protected]

Definition at line 81 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

std::string Cfsm_base::mStateNamePrefix [protected]

Definition at line 83 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::Csarad113x_fsm(), Csarad113x_tha_conv_fsm::Csarad113x_tha_conv_fsm(), and Csarad113x_thb_conv_fsm::Csarad113x_thb_conv_fsm().

std::string* Cfsm_base::mStateNameStr [protected]

Definition at line 84 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), Csarad113x_fsm::Csarad113x_fsm(), Csarad113x_tha_conv_fsm::Csarad113x_tha_conv_fsm(), Csarad113x_thb_conv_fsm::Csarad113x_thb_conv_fsm(), Csarad113x_fsm::DumpStateTransInfo(), Csarad113x_tha_conv_fsm::DumpStateTransInfo(), Csarad113x_thb_conv_fsm::DumpStateTransInfo(), and ~Cfsm_base().

void(Cfsm_base::* Cfsm_base::pEventFunc)(unsigned int) [protected]

Definition at line 87 of file sarad113x_fsm.h.

Referenced by Cfsm_base(), and Csarad113x_fsm::Event().

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

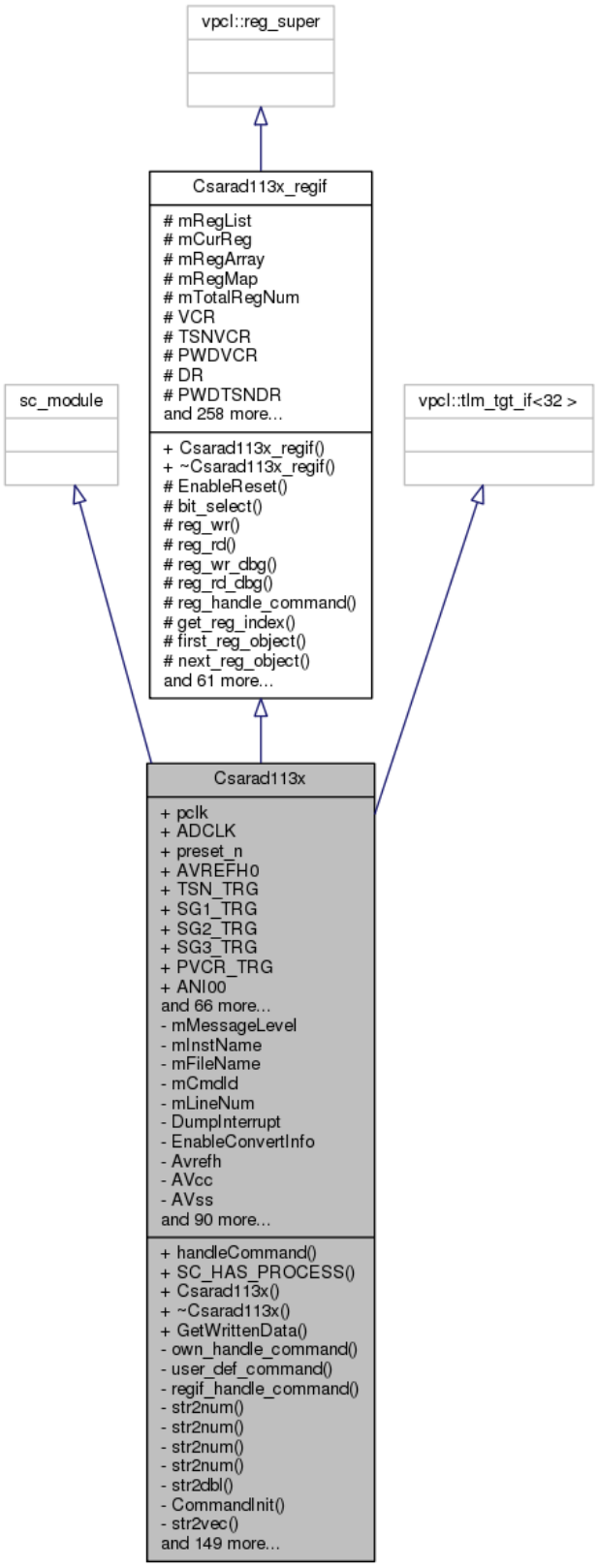
- sarad113x_fsm.h

Csarad113x Class Reference

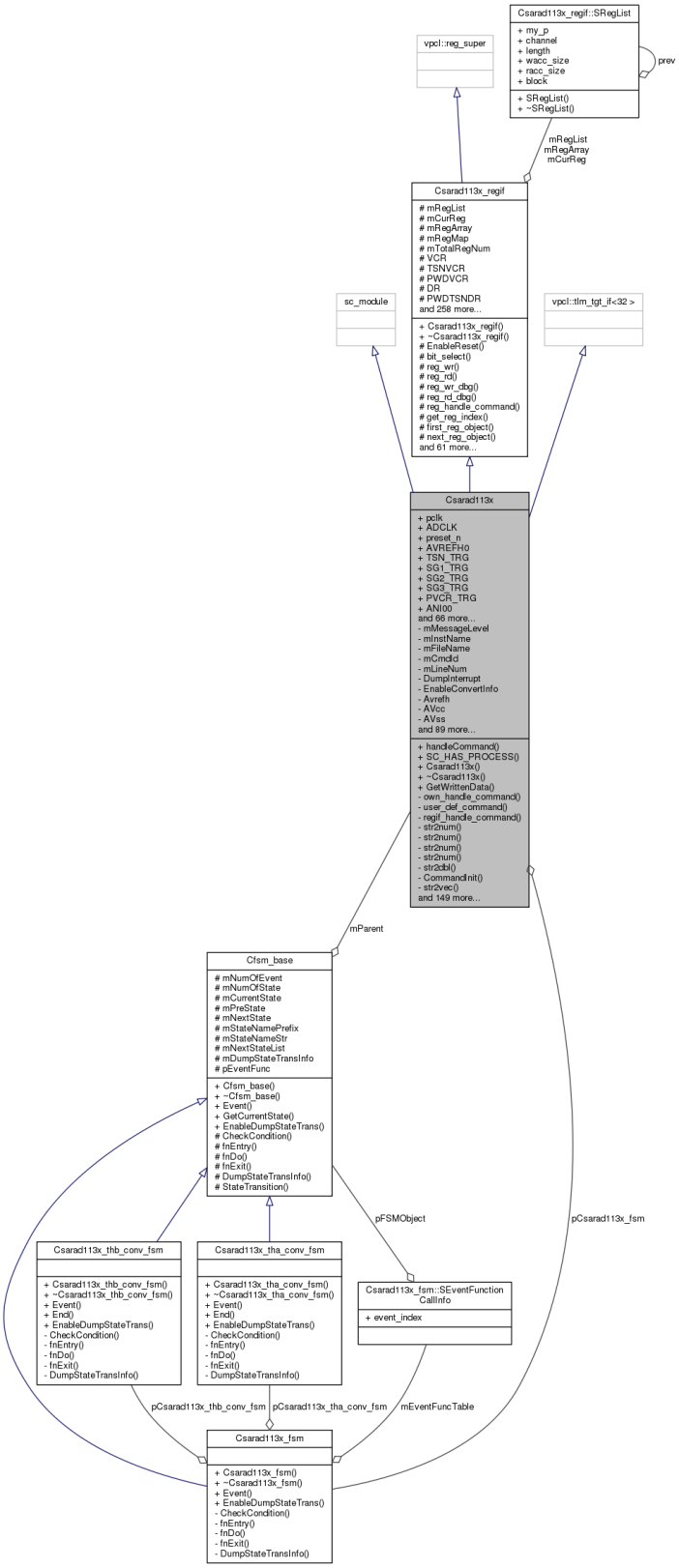
SARAD113x model class.

`#include <sarad113x.h>`

Inheritance diagram for Csarad113x:


vpcl::reg_super
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
sc_module
vpcl::tlm_tgt_if<32 >
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 90 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...

Collaboration diagram for Csarad113x:


Csarad113x_regif::SRegList
+ my_p
+ channel
+ length
+ wacc_size
+ racc_size
+ block
+ SRegList()
+ ~SRegList()
prev
vpcl::reg_super
mRegList
mRegArray
mCurReg
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
sc_module
vpcl::tlm_tgt_if<32 >
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 89 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2bit()
- CommandInit()
- str2vec()
and 149 more...
mParent
Cfsm_base
mNumOfEvent
mNumOfState
mCurrentState
mPreState
mNextState
mStateNamePrefix
mStateNameStr
mNextStateList
mDumpStateTransInfo
pEventFunc
+ Cfsm_base()
+ ~Cfsm_base()
+ Event()
+ GetCurrentState()
+ EnableDumpStateTrans()
# CheckCondition()
# fnEntry()
# fnDo()
# fnExit()
# DumpStateTransInfo()
# StateTransition()
pFSMObject
pCsarad113x_fsm
Csarad113x_thb_conv_fsm
+ Csarad113x_thb_conv_fsm()
+ ~Csarad113x_thb_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_tha_conv_fsm
+ Csarad113x_tha_conv_fsm()
+ ~Csarad113x_tha_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_fsm::SEventFunction CallInfo
+ event_index
pCsarad113x_thb_conv_fsm
pCsarad113x_tha_conv_fsm
mEventFuncTable
Csarad113x_fsm
+ Csarad113x_fsm()
+ ~Csarad113x_fsm()
+ Event()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()

Public Member Functions

- std::string handleCommand (const std::vector< std::string > &args)
- SC_HAS_PROCESS (Csarad113x)
- Csarad113x (sc_module_name name)
- ~Csarad113x ()
- unsigned int GetWrittenData (void)

Public Attributes

- sc_in< sc_dt::uint64 > pclk
- sc_in< sc_dt::uint64 > ADCLK
- sc_in< bool > preset_n
- sc_in< double > AVREFH0
- sc_in< bool > TSN_TRG
- sc_in< bool > SG1_TRG
- sc_in< bool > SG2_TRG
- sc_in< bool > SG3_TRG
- sc_in< bool > PVCR_TRG
- sc_in< double > ANI00
- sc_in< double > ANI01
- sc_in< double > ANI02
- sc_in< double > ANI03
- sc_in< double > ANI04
- sc_in< double > ANI05
- sc_in< double > ANI06
- sc_in< double > ANI07
- sc_in< double > ANI08
- sc_in< double > ANI09
- sc_in< double > ANI10
- sc_in< double > ANI11
- sc_in< double > ANI12
- sc_in< double > ANI13
- sc_in< double > ANI14
- sc_in< double > ANI15
- sc_in< double > ANI16
- sc_in< double > ANI17
- sc_in< double > ANI18
- sc_in< double > ANI19
- sc_in< double > ANI20
- sc_in< double > ANI21
- sc_in< double > ANI22
- sc_in< double > ANI23
- sc_in< double > ANI24
- sc_in< double > ANI25
- sc_in< double > ANI26
- sc_in< double > ANI27
- sc_in< double > ANI28

- sc_in< double > ANI29
- sc_in< double > ANI30
- sc_in< double > ANI31
- sc_in< double > ANI32
- sc_in< double > ANI33
- sc_in< double > ANI34
- sc_in< double > ANI35
- sc_in< double > TSN_ANI
- sc_in< sc_uint< 12 > > PVCR_VALUE
- sc_in< sc_uint< 16 > > ADOP_OPA1_DATA
- sc_in< sc_uint< 16 > > ADOP_OPA2_DATA
- sc_in< sc_uint< 16 > > ADOP_OPA3_DATA
- sc_out< bool > INT_TSN
- sc_out< bool > INT_SG1
- sc_out< bool > INT_SG2
- sc_out< bool > INT_SG3
- sc_out< bool > INT_ADE
- sc_out< bool > ADCATCNV0
- sc_out< bool > ADCATCNV1
- sc_out< bool > ADCATCNV2
- sc_out< bool > ADCATCNV3
- sc_out< bool > ADCATCNV4
- sc_out< bool > ULE
- sc_out< sc_uint< 3 > > PVCR_MUXCUR
- sc_out< bool > PVCR_END
- sc_out< bool > TSN_TS_EN
- sc_out< bool > TSN_TSSW
- sc_out< bool > TSN_TSSW_DISCH
- sc_out< bool > TSN_TSMASK
- sc_out< bool > TSN_SELF_DIAG
- sc_out< sc_uint< 2 > > TSN_TRIM
- sc_out< bool > ADOP_OPA1_PSEL
- sc_out< bool > ADOP_OPA1_WEN
- sc_out< bool > ADOP_OPA2_PSEL
- sc_out< bool > ADOP_OPA2_WEN
- sc_out< bool > ADOP_OPA3_PSEL
- sc_out< bool > ADOP_OPA3_WEN
- sc_event mWrittenPWDATAEvent

Private Types

- enum eSARAD113x_CONSTANCE { emNanoSecond = 1000000000, emMaxPhyChannel = 36, emMaxVirChannel = 50, emMaxMultiCyc = 0x03, emMinSmpNum = 0x12, emMinStartTSNConv = 200000, emDGOUTNum = 3, emDRMask0 = 0xFFFF0000, emDRMask1 = 0x0000FFFF, emTSNOWECAP = 60, emMaxADData = 0xFFF, emMinTHSmpTime = 450 }
- enum eADConversionType { em12bit = 0, em10bit = 1, em12bitCoff = 4096 }
- enum eADAlignType { emRightAlign = 0, emLeftAlign = 1 }
- enum eScanningGroupNum { emTSNSG = 0, emSG1 = 1, emSG2 = 2, emSG3 = 3, emPWDSG = 4, emAllSG = 5, emAllSGn = 6 }

- enum eTHChannel { emTHCh0 = 0, emTHCh1 = 1, emTHCh2 = 2, emTHCh3 = 3, emTHCh4 = 4, emTHCh5 = 5, emAllTHCh = 6 }
- enum eTHGroup { emTHGroupA = 0, emTHGroupB = 1, emAllTHGroup = 2, emDisableTH = 3 }
- enum ePrioritySet { emPriority0 = 0x43210, emPriority1 = 0x32401 }
- enum eSuspendMode { emSyncMode = 0x0, emHybridMode = 0x1, emAsyncMode = 0x2 }
- enum eTSNControlState { emAssertTSSW, emAssertTSSW_DISCH_EN, emDeassertTSSW_DISCH_EN, emAssertTSMASK, emDeassertTSMASK, emDeassertTSSW, emDeassertAll }
- enum eScanningMode { emMultiCycleMode, emContinuousMode }
- enum eInputPortGroupNum { emANIGroup1 = 16, emANIGroup2 = 20 }
- enum eUpperLowerBoundCheck { emDisableULCheck = 0x0, emULCheck0 = 0x1, emULCheck1 = 0x2, emULCheck2 = 0x3, emMinULMTB10bit = 0x3, emMinLLMTB10bit = 0x0 }
- enum eSelfDiagPortNum { emSelfNum36 = 36 }
- enum eVCCheckStatus { emSuspend, emLastVC, emContinue }
- enum eTriggerType { emHWTrigger, emSWTrigger, emOtherTrigger }

Private Member Functions

- std::string own_handle_command (std::vector< std::string > &args)
- std::string user_def_command (std::vector< std::string > &args)
- std::string regif_handle_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 SARAD113xFSMInit (void)
- void SARAD113xFSMTriggerMethod (unsigned int event_code)
- void tgt_acc (tlm::tlm_generic_payload &trans, sc_time &t)
- unsigned int tgt_acc_dbg (tlm::tlm_generic_payload &trans)
- double GetTimeResolution (void)
- void SetLatency_TLM (const double pclk_period, const bool is_constructor)
- void SetCLKfreq (std::string clk_name, double clk_freq)
- std::string CommandCB (const std::vector< std::string > &args)
- void DumpStatInfo (void)
- void AssertReset (const double start_time, const double period)
- void EnableReset (const bool is_active)
- unsigned int GetTRGMD (const unsigned int sg)
- void Initialize (void)
- void InitOperation (void)
- void ClearScanningEndFlag (const unsigned int sg)
- void WriteADOPControl (const unsigned int sg)
- double NextPCLKPosedge (double offset)
- double NextADCLKPosedge (double offset)
- double GetANIPortVal (unsigned int port_index)

- void UpdateSelfDiag (void)
- void SetCurrentSG (unsigned int group, bool is_th)
- void StartScanning (unsigned int sg, bool is_th)
- void FinishScanning (unsigned int sg)
- bool CheckSGSetting (unsigned int sg, bool is_th)
- void SuspendScanning (unsigned int group, bool is_th)
- void StartVCConv (unsigned int sg)
- void FinishVCConv (unsigned int sg)
- void UpdateInternalCount (unsigned int sg)
- bool CheckSuspend (unsigned int trg_num, unsigned int current_sg)
- unsigned int IsLastVC (unsigned int sg)
- void CheckTrigger (void)
- bool ComparePriority (unsigned int check_sg, unsigned int current_sg)
- void SetStartSmpTime (unsigned int channel)
- bool CheckSmpTime (unsigned int group, bool hw_trg)
- bool IsReset (void)
- bool CheckTH (unsigned int sg)
- bool CheckEnableTH (unsigned int group)
- bool CheckTHStart (unsigned int group)
- void StartHoldProcess (unsigned int group)
- void HoldPortVal (unsigned int group)
- void DelayEndHolding (unsigned int group)
- void ResumeTH (void)
- void StartTrigger (unsigned int sg, double delay_time)
- bool IsAutoStartSampling (void)
- bool CheckEnableStart (unsigned int sg)
- bool CheckHoldStart (unsigned int group, bool is_trg, eTriggerType trg_type)
- bool CheckHoldComplete (unsigned int group, eTriggerType trg_type)
- void EndHolding (unsigned int group)
- void HWTrigger (unsigned int sg)
- void SWTrigger (unsigned int sg)
- bool IsContinuousMode (unsigned int sg)
- void FinishTHConversion (void)
- void StopOperation (void)
- void AssertADCATCNVTH (unsigned int sg)
- double GetSampleTime (unsigned int sg)
- double GetConversionTime (void)
- unsigned int ADConvert (double value, unsigned int sg, unsigned int vc_num)
- bool StoreADData (unsigned int data, unsigned int sg, unsigned int vc_num)
- unsigned int GetRepetitionTime (unsigned int sg)
- unsigned int GetMPXE (unsigned int sg, unsigned int vc_num)
- unsigned int GetMPXV (unsigned int sg, unsigned int vc_num)
- unsigned int GetADIE (unsigned int sg, unsigned int vc_num)
- unsigned int GetULS (unsigned int sg, unsigned int vc_num)
- unsigned int GetGCTRL (unsigned int sg, unsigned int vc_num)
- unsigned int GetCNVCLSSelfDiag (unsigned int vc_num)
- void ClearDRProcess (unsigned int sg, unsigned int channel)
- void ClearDIRProcess (unsigned int sg, unsigned int vc_num)
- void PrintVCmessage (std::string msg, unsigned int sg, unsigned int vc_num)

- void DumpInfo (const char *type, const char *message,...)
- void DumpInterruptMessage (const std::string intr_name, const bool is_assert)
- void DumpActivity (unsigned int sg, unsigned int vc_num, double start_time)
- void PCLKMethod (void)
- void ADCLKMethod (void)
- void ResetMethod (void)
- void AssertResetMethod (void)
- void DeAssertResetMethod (void)
- void SG1TRGMethod (void)
- void SG2TRGMethod (void)
- void SG3TRGMethod (void)
- void PVCRTRGMethod (void)
- void PVCR_VALUEMethod (void)
- void WriteADOPControlMethod (void)
- void WritePVCR_MUXCURMethod (void)
- void WriteADCATCNVControlMethod (unsigned int sg)
- void WriteSGEndInterruptMethod (unsigned int sg)
- void WriteULEInterruptMethod (void)
- void WriteADEInterruptMethod (void)
- void AVREFHMethod (void)
- void InitialAVREFHMethod (void)
- void HWTriggerProcessMethod (unsigned int sg)
- void SWTriggerProcessMethod (unsigned int sg)
- void CheckTriggerMethod (void)
- void UpdateSGACTMethod (unsigned int sg)
- void UpdateSHACTMethod (void)
- void StartTHSamplingMethod (void)
- void VCSamplingMethod (void)
- void VCConversionMethod (void)
- void VCEndConversionMethod (void)
- void UpdateConversionDataMethod (unsigned int sg)
- void ClearDRMethod (unsigned int channel)
- void ClearPWDDRMethod (void)
- void ClearDIRMethod (unsigned int vc)
- void ClearPWDDIRMethod (void)
- bool CheckAccess (const unsigned int sg, vpcl::re_register *reg, RegCBstr str)
- void cb_VCR_GCTRL (RegCBstr str)
- void cb_TSNVCR_ULS (RegCBstr str)
- void cb_DR_DR0 (RegCBstr str)
- void cb_PWDTSNDR_TSNDR (RegCBstr str)
- void cb_DIR_DR (RegCBstr str)
- void cb_TSNDIR_TSNDR (RegCBstr str)
- void cb_PWDDIR_PWDDR (RegCBstr str)
- void cb_ADHALTR_HALT (RegCBstr str)
- void cb_ADCR_SUSMTD (RegCBstr str)
- void cb_TSNCR_TSNEN (RegCBstr str)
- void cb_THSMPSTCR_SMPST (RegCBstr str)
- void cb_THCR_ASMPMSK (RegCBstr str)
- void cb_THAHLDSTCR_HLDST (RegCBstr str)

- void cb_THBHLDSTCR_HLDST (RegCBstr str)
- void cb_THACR_SGS (RegCBstr str)
- void cb_THBCR_SGS (RegCBstr str)
- void cb_THER_TH0E (RegCBstr str)
- void cb_THGSR_TH0GS (RegCBstr str)
- void cb_SFTCR_OWEIE (RegCBstr str)
- void cb_ULLMTBR_ULMTB (RegCBstr str)
- void cb_ECR_ULEC (RegCBstr str)
- void cb_DGCTL0_PSEL0 (RegCBstr str)
- void cb_DGCTL1_CDG00 (RegCBstr str)
- void cb_PDCTL1_PDNA00 (RegCBstr str)
- void cb_PDCTL2_PDNB00 (RegCBstr str)
- void cb_SMPCR_SMPT (RegCBstr str)
- void cb_TSNSMPCR_TSNSMPT (RegCBstr str)
- void cb_EMUCR_SVSDIS (RegCBstr str)
- void cb_SGPRCR_SGPR0 (RegCBstr str)
- void cb_SGSTCR_SGSTn (RegCBstr str)
- void cb_TSNSGSTCR_TSNSGST (RegCBstr str)
- void cb_PWDSGSTCR_PWDSGST (RegCBstr str)
- void cb_SGCR_ADIE (RegCBstr str)
- void cb_TSNSGCR_TSNTRGMD (RegCBstr str)
- void cb_PWDSGCR_PWDTRGMD (RegCBstr str)
- void cb_SGSEFCR_SEFCn (RegCBstr str)
- void cb_TSNSGSEFCR_TSNSEFC (RegCBstr str)
- void cb_PWDSGSEFCR_PWDSEFC (RegCBstr str)
- void cb_SGVCSP_VCSP (RegCBstr str)
- void cb_SGVCEP_VCEP (RegCBstr str)
- void cb_SGMCYCR_MCYC (RegCBstr str)
- void cb_SGTSEL_TxSEL00 (RegCBstr str)

Private Attributes

- std::map< std::string, bool > mMessageLevel
- std::string mInstName
- std::string mFileName
- std::string mCmdId
- int mLineNum
- bool DumpInterrupt
- bool EnableConvertInfo
- double Avrefh
- double AVcc
- double AVss
- unsigned int EX_HLD_CDT
- unsigned int EX_CNVT
- double tD
- double tPWDD
- double tED
- bool EnableTimeCalculation
- Csarad113x_fsm * pCsarad113x_fsm
- sc_event mSARAD113xFSMEvent [Csarad113x_fsm::emTotalNumOfEvent]

- bool mIsInitialize
- bool mIsRefVolUpdate
- unsigned int mResetPeriod
- bool mSARPortResetFlag
- bool mSARCmdResetFlag
- bool mIsOperating
- bool mADOPControlVal [3]
- bool mADCATCNVnVal [emAllSG]
- bool mIntrVal [emAllSG]
- bool mULEVal
- bool mADEVal
- unsigned int mPVCR_MUXCURVal
- unsigned int mPrioritySet
- double mAccessTimeTSNCR
- unsigned int mCurrentSG
- unsigned int mPreviousVC
- unsigned int mCurrentStartVC [emAllSG]
- unsigned int mNextVC [emAllSG]
- unsigned int mFirstVC [emAllSG]
- unsigned int mLastVC [emAllSG]
- unsigned int mSGACTVal [emAllSG]
- unsigned int mSHACTVal
- unsigned int mScanFreqCount [emAllSG]
- unsigned int mCurrentTrigger
- unsigned int mTSNStateControl
- unsigned int mRepetitionTime
- unsigned int mRepetitionCount
- unsigned int mADData
- unsigned int mULError
- bool mIsEnableStart [emAllSG]
- bool mIsScanning [emAllSG]
- bool mIsSuspend [emAllSG]
- bool mIsFirstTimeConv [emAllSG]
- bool mIsHWTrigger [emAllSG]
- bool mIsSWTrigger [emAllSG]
- bool mIsLastRepetition
- double mStartTHSamplingTime [emAllTHCh]
- double mHoldPortVal [emAllTHCh]
- double mCurrentAnalogVal
- double mDGOUTAD
- double mDGOUTSH [emDGOUTNum]
- double mStartTimeVC
- unsigned int mINTActiveNum [emAllSG]
- unsigned int mINTADEActiveNum
- unsigned int mULEActiveNum
- unsigned int mPWDATAVal
- sc_event mCmdResetEvent
- sc_event mCmdCancelResetEvent
- sc_event mAssertResetEvent

- sc_event mZeroClockEvent
- sc_event mSuspendEvent
- sc_event mClearDREvent [(emMaxVirChannel+1)/2]
- sc_event mClearDIREvent [emMaxVirChannel]
- sc_event mClearPWDDREvent
- sc_event mClearPWDDIREvent
- sc_event mWriteADOPControlEvent
- sc_event mWritePVCR_MUXCUREvent
- sc_event mWriteADCATCNVControlEvent [emAllSG]
- sc_event mWriteSGEndInterruptEvent [emAllSG]
- sc_event mWriteULEInterruptEvent
- sc_event mWriteADEInterruptEvent
- sc_event mHWTriggerEvent [emAllSG]
- sc_event mSWTriggerEvent [emAllSG]
- sc_event mCheckTriggerMethodEvent
- sc_event mUpdateSGACTEvent [emAllSG]
- sc_event mUpdateSHACTEvent
- sc_event mStartTHSamplingEvent
- sc_event mStartVCSamplingEvent
- sc_event mStartVCConversionEvent
- sc_event mEndVCConversionEvent
- sc_event mUpdateConversionDataEvent [emAllSG]
- double mPreAvrefh
- double mPreAVcc
- double mPreAVss
- unsigned int mPreEX_HLD_CDT
- unsigned int mPreEX_CNVT
- double mPretD
- double mPretPWDD
- double mPretED
- bool mPreEnableTimeCalculation
- double mPCLKPeriod
- double mADCLKPeriod

Friends

- class Csarad113x_fsm
- class Csarad113x_tha_conv_fsm
- class Csarad113x_thb_conv_fsm

Additional Inherited Members

Detailed Description

SARAD113x model class.

Definition at line 23 of file sarad113x.h.

Member Enumeration Documentation

enum Csarad113x::eADAlignType [private]

Enumerator:

emRightAlign
emLeftAlign

Definition at line 141 of file sarad113x.h.

enum Csarad113x::eADConversionType [private]

Enumerator:

em12bit
em10bit
em12bitCoff

Definition at line 136 of file sarad113x.h.

enum Csarad113x::eInputPortGroupNum [private]

Enumerator:

emANIGroup1
emANIGroup2

Definition at line 191 of file sarad113x.h.

enum Csarad113x::ePrioritySet [private]

Enumerator:

emPriority0
emPriority1

Definition at line 169 of file sarad113x.h.

enum Csarad113x::eSARAD113x_CONSTANCE [private]

Enumerator:

emNanoSecond
emMaxPhyChannel
emMaxVirChannel
emMaxMultiCyc
emMinSmpNum

emMinStartTSNConv
emDGOUTNum
emDRMask0
emDRMask1
emTSNOWECAP
emMaxADData
emMinTHSmpTime

Definition at line 122 of file sarad113x.h.

enum Csarad113x::eScanningGroupNum [private]

Enumerator:

emTSNSG
emSG1
emSG2
emSG3
emPWDSG
emAllSG
emAllSGn

Definition at line 145 of file sarad113x.h.

enum Csarad113x::eScanningMode [private]

Enumerator:

emMultiCycleMode
emContinuousMode

Definition at line 187 of file sarad113x.h.

enum Csarad113x::eSelfDiagPortNum [private]

Enumerator:

emSelfNum36

Definition at line 203 of file sarad113x.h.

enum Csarad113x::eSuspendMode [private]

Enumerator:

emSyncMode
emHybridMode
emAsyncMode

Definition at line 173 of file sarad113x.h.

enum Csarad113x::eTHChannel [private]

Enumerator:

emTHCh0
emTHCh1
emTHCh2
emTHCh3
emTHCh4
emTHCh5
emAllTHCh

Definition at line 154 of file sarad113x.h.

enum Csarad113x::eTHGroup [private]

Enumerator:

emTHGroupA
emTHGroupB
emAllTHGroup
emDisableTH

Definition at line 163 of file sarad113x.h.

enum Csarad113x::eTriggerType [private]

Enumerator:

emHWTrigger
emSWTrigger
emOtherTrigger

Definition at line 211 of file sarad113x.h.

enum Csarad113x::eTSNControlState [private]

Enumerator:

emAssertTSSW
emAssertTSSW_DISCH_EN
emDeassertTSSW_DISCH_EN
emAssertTSMASK
emDeassertTSMASK
emDeassertTSSW
emDeassertAll

Definition at line 178 of file sarad113x.h.

enum Csarad113x::eUpperLowerBoundCheck [private]

Enumerator:

emDisableULCheck
emULCheck0
emULCheck1
emULCheck2
emMinULMTB10bit
emMinLLMTB10bit

Definition at line 195 of file sarad113x.h.

enum Csarad113x::eVCCheckStatus [private]

Enumerator:

emSuspend
emLastVC
emContinue

Definition at line 206 of file sarad113x.h.

Constructor & Destructor Documentation

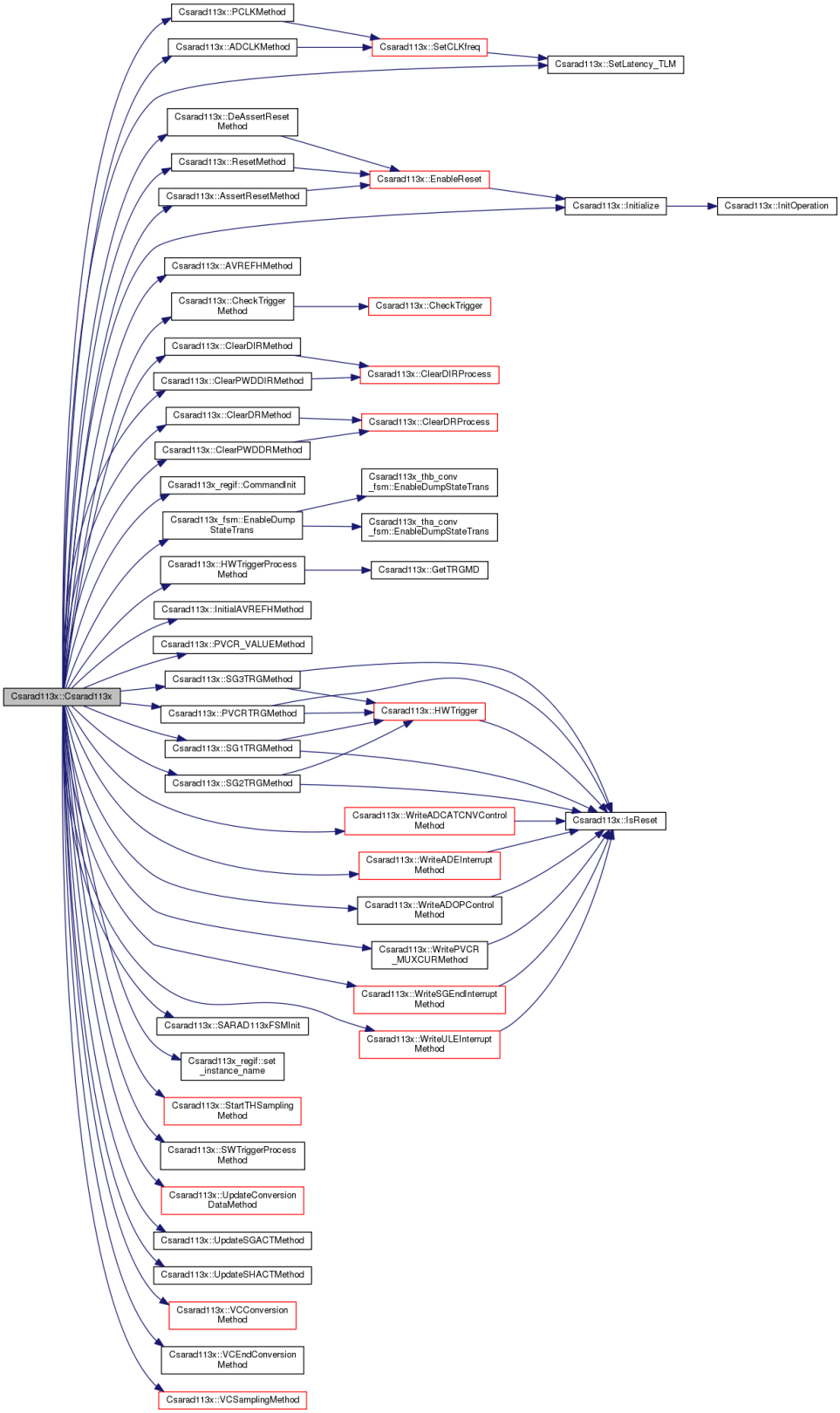
Csarad113x::Csarad113x (sc_module_name *name*)

Definition at line 18 of file sarad113x.cpp.

References ADCATCNV0, ADCATCNV1, ADCATCNV2, ADCATCNV3, ADCATCNV4, ADCLK, ADCLKMethod(), ADOP_OPA1_PSEL, ADOP_OPA1_WEN, ADOP_OPA2_PSEL, ADOP_OPA2_WEN, ADOP_OPA3_PSEL, ADOP_OPA3_WEN, AssertResetMethod(), AVREFH0, AVREFHMethod(), CheckTriggerMethod(), ClearDIRMethod(), ClearDRMethod(), ClearPWDDIRMethod(), ClearPWDDRMethod(), Csarad113x_regif::CommandInit(), DeAssertResetMethod(), emAllSG, emDGOUTNum, emMaxVirChannel, Csarad113x_fsm::EnableDumpStateTrans(), HWTriggerProcessMethod(), InitialAVREFHMethod(), Initialize(), INT_ADE, INT_SG1, INT_SG2, INT_SG3, INT_TSN, mAccessTimeTSNCR, mADCLKPeriod, mCheckTriggerMethodEvent, mClearDIREvent, mClearDREvent, mClearPWDDIREvent, mClearPWDDREvent, mCmdCancelResetEvent, mCmdResetEvent, mDGOUTAD, mDGOUTSH, mEndVCConversionEvent, mHWTriggerEvent, mIsInitialize, mIsRefVolUpdate, mPCLKPeriod, mPreAVcc, mPreAvrefh, mPreAVss, mPreEnableTimeCalculation, mPreEX_CNVT, mPreEX_HLD_CDT, mPretD, mPretED, mPretPWDD, mResetPeriod, mSARCmdResetFlag, mSARPortResetFlag, mStartTHSamplingEvent, mStartVCConversionEvent, mStartVCSamplingEvent, mSWTriggerEvent, mUpdateConversionDataEvent, mUpdateSGACTEvent, mUpdateSHACTEvent, mWriteADCATCNVControlEvent, mWriteADEInterruptEvent,

mWriteADOPControlEvent, mWritePVCR_MUXCUREvent, mWriteSGEndInterruptEvent, mWriteULEInterruptEvent, pclk, PCLKMethod(), pCsarad113x_fsm, preset_n, PVCR_END, PVCR_MUXCUR, PVCR_TRG, PVCR_VALUE, PVCR_VALUEMethod(), PVCRTRGMethod(), ResetMethod(), SARAD113xFSMInit(), Csarad113x_regif::set_instance_name(), SetLatency_TLM(), SG1_TRG, SG1TRGMethod(), SG2_TRG, SG2TRGMethod(), SG3_TRG, SG3TRGMethod(), StartTHSamplingMethod(), SWTriggerProcessMethod(), TSN_SELF_DIAG, TSN_TRG, TSN_TRIM, TSN_TS_EN, TSN_TSMASK, TSN_TSSW, TSN_TSSW_DISCH, ULE, UpdateConversionDataMethod(), UpdateSGACTMethod(), UpdateSHACTMethod(), VCConversionMethod(), VCEndConversionMethod(), VCSamplingMethod(), WriteADCATCNVControlMethod(), WriteADEInterruptMethod(), WriteADOPControlMethod(), WritePVCR_MUXCURMethod(), WriteSGEndInterruptMethod(), and WriteULEInterruptMethod().

Here is the call graph for this function:


Csarad113x::Csarad113x
Csarad113x::PCLKMethod
Csarad113x::ADCLKMethod
Csarad113x::SetCLKfreq
Csarad113x::SetLatency_TLM
Csarad113x::DeAssertReset Method
Csarad113x::ResetMethod
Csarad113x::AssertResetMethod
Csarad113x::EnableReset
Csarad113x::Initialize
Csarad113x::InitOperation
Csarad113x::AVREFHMethod
Csarad113x::CheckTrigger Method
Csarad113x::CheckTrigger
Csarad113x::ClearDIRMethod
Csarad113x::ClearPWDDIRMethod
Csarad113x::ClearDIRProcess
Csarad113x::ClearDRMethod
Csarad113x::ClearPWDDRMethod
Csarad113x::ClearDRProcess
Csarad113x_regif::CommandInit
Csarad113x_fsm::EnableDump StateTrans
Csarad113x_thb_conv _fsm::EnableDumpStateTrans
Csarad113x_tha_conv _fsm::EnableDumpStateTrans
Csarad113x::HWTriggerProcess Method
Csarad113x::GetTRGMD
Csarad113x::InitialAVREFHMethod
Csarad113x::PVCR_VALUEMethod
Csarad113x::SG3TRGMethod
Csarad113x::PVCRTRGMethod
Csarad113x::HWTrigger
Csarad113x::SG1TRGMethod
Csarad113x::SG2TRGMethod
Csarad113x::WriteADCATCNVControl Method
Csarad113x::IsReset
Csarad113x::WriteADEInterrupt Method
Csarad113x::WriteADOPControl Method
Csarad113x::WritePVCR _MUXCURMethod
Csarad113x::WriteSGEndInterrupt Method
Csarad113x::SARAD113xFSMInit
Csarad113x::WriteULEInterrupt Method
Csarad113x_regif::set _instance_name
Csarad113x::StartTHSampling Method
Csarad113x::SWTriggerProcess Method
Csarad113x::UpdateConversion DataMethod
Csarad113x::UpdateSGACTMethod
Csarad113x::UpdateSHACTMethod
Csarad113x::VCConversion Method
Csarad113x::VCEndConversion Method
Csarad113x::VCSamplingMethod

Csarad113x::~Csarad113x ()

Definition at line 329 of file sarad113x.cpp.

References pCsarad113x_fsm.

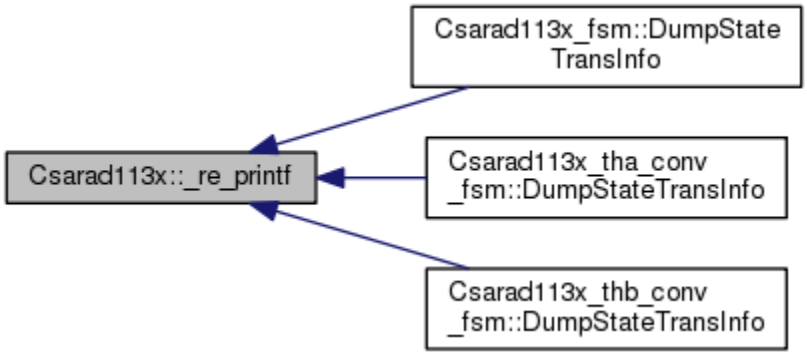
Member Function Documentation

void Csarad113x::_re_printf (std::string *group*, const char * *message*, ...) [inline], [private]

Definition at line 1102 of file sarad113x.h.

Referenced by Csarad113x_fsm::DumpStateTransInfo(), Csarad113x_tha_conv_fsm::DumpStateTransInfo(), and Csarad113x_thb_conv_fsm::DumpStateTransInfo().

Here is the caller graph for this function:



void Csarad113x::ADCLKMethod (void) [private]

Definition at line 1735 of file sarad113x.cpp.

References ADCLK, and SetCLKfreq().

Referenced by Csarad113x().

Here is the call graph for this function:

Here is the caller graph for this function:

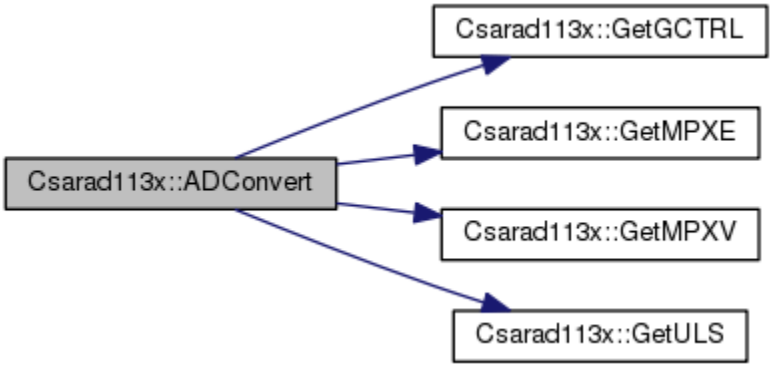
unsigned int Csarad113x::ADConvert (double *value*, unsigned int *sg*, unsigned int *vc_num*) `[private]`

Definition at line 1463 of file sarad113x.cpp.

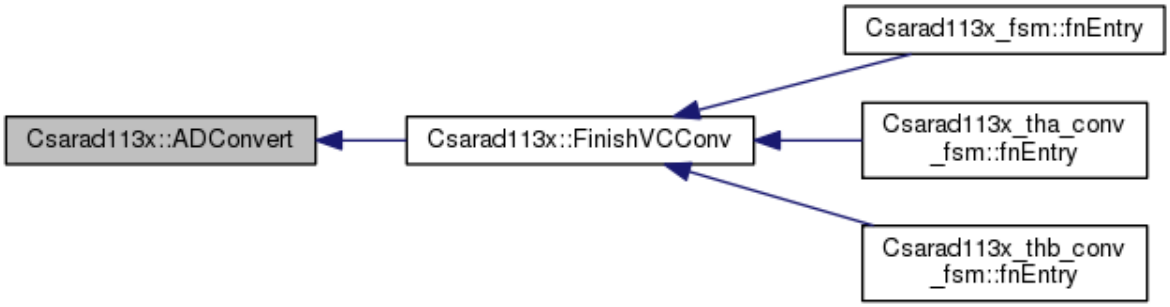
References Csarad113x_regif::ADCR, Avrefh, em10bit, em12bitCoff, emDisableULCheck, emLeftAlign, emMaxADData, emPWDSG, emSG1, emSG3, GetGCTRL(), GetMPXE(), GetMPXV(), GetULS(), mULError, re_printf, and Csarad113x_regif::ULLMTBR.

Referenced by FinishVCConv().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::AssertADCATCNVTH (unsigned int *sg*) `[private]`

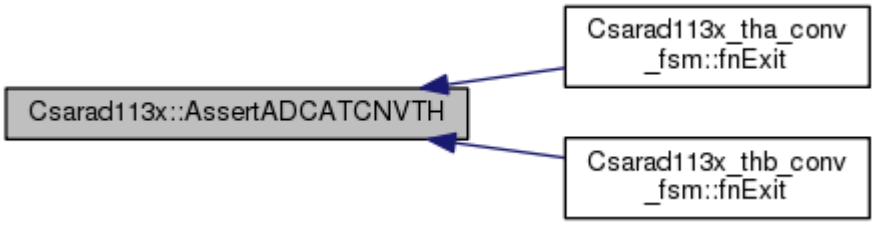
Definition at line 1418 of file sarad113x.cpp.

References emTHGroupA, mADCATCNVnVal, mWriteADCATCNVControlEvent, NextADCLKPosedge(), Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

Here is the call graph for this function:

Here is the caller graph for this function:



void Csarad113x::AssertReset (const double *start_time*, const double *period*) [private]

Definition at line 2446 of file sarad113x.cpp.

References mCmdResetEvent, mResetPeriod, mSARCmdResetFlag, mSARPortResetFlag, and re_printf.

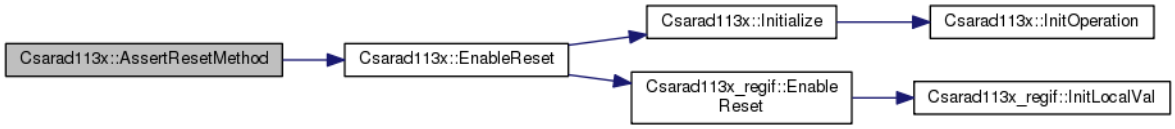
void Csarad113x::AssertResetMethod (void) [private]

Definition at line 1990 of file sarad113x.cpp.

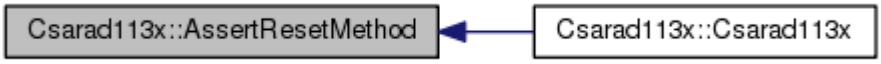
References EnableReset(), mCmdCancelResetEvent, mResetPeriod, and mSARCmdResetFlag.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::AVREFHMethod (void) [private]

Definition at line 1740 of file sarad113x.cpp.

References re_printf.

Referenced by Csarad113x().

Here is the caller graph for this function:

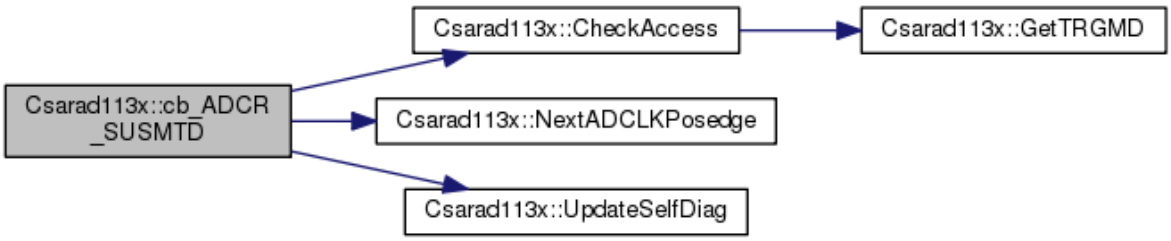
void Csarad113x::cb_ADCR_SUSMTD (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2763 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, CheckAccess(), emAllSG, NextADCLKPosedge(), Csarad113x_regif::RegCBstr::pre_data, and UpdateSelfDiag().

Here is the call graph for this function:



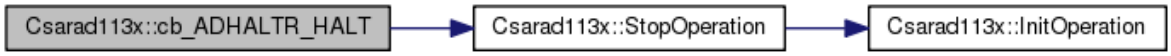
void Csarad113x::cb_ADHALTR_HALT (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2749 of file sarad113x.cpp.

References Csarad113x_regif::ADHALTR, Csarad113x_fsm::emEvtHaltTrigger, mSARAD113xFSMEvent, and StopOperation().

Here is the call graph for this function:



void Csarad113x::cb_DGCTL0_PSEL0 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2971 of file sarad113x.cpp.

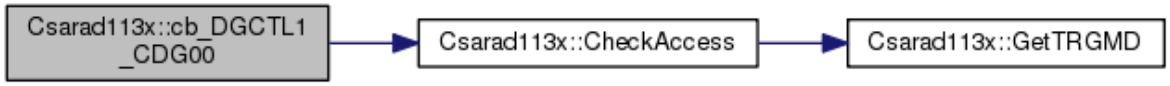
void Csarad113x::cb_DGCTL1_CDG00 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2976 of file sarad113x.cpp.

References CheckAccess(), Csarad113x_regif::DGCTL1, and emAllSGn.

Here is the call graph for this function:



void Csarad113x::cb_DIR_DR (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2732 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, and mClearDIREvent.

void Csarad113x::cb_DR_DR0 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2719 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, and mClearDREvent.

void Csarad113x::cb_ECR_ULEC (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2955 of file sarad113x.cpp.

References Csarad113x_regif::ECR, mULEVal, mWriteULEInterruptEvent, and NextPCLKPosedge().

Here is the call graph for this function:

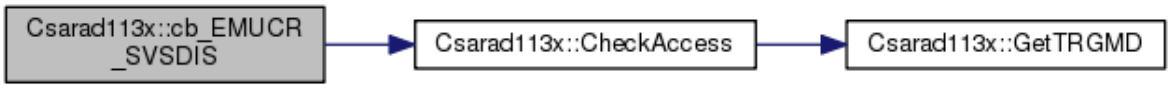
void Csarad113x::cb_EMUCR_SVSDIS (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3011 of file sarad113x.cpp.

References CheckAccess(), emAllSG, and Csarad113x_regif::EMUCR.

Here is the call graph for this function:



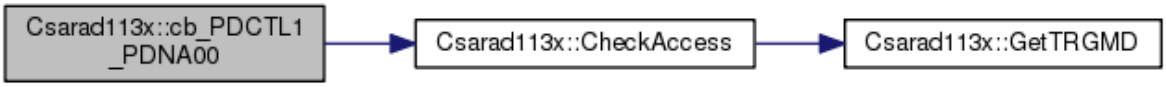
void Csarad113x::cb_PDCTL1_PDNA00 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2981 of file sarad113x.cpp.

References CheckAccess(), emAllSGn, and Csarad113x_regif::PDCTL1.

Here is the call graph for this function:



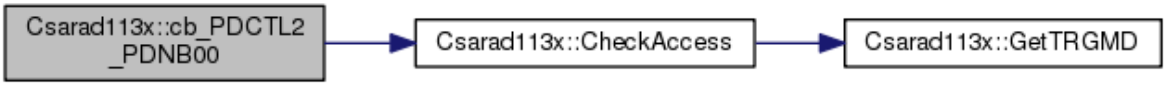
void Csarad113x::cb_PDCTL2_PDNB00 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2986 of file sarad113x.cpp.

References CheckAccess(), emAllSGn, and Csarad113x_regif::PDCTL2.

Here is the call graph for this function:



void Csarad113x::cb_PWDDIR_PWDDR (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2744 of file sarad113x.cpp.

References mClearPWDDIREvent.

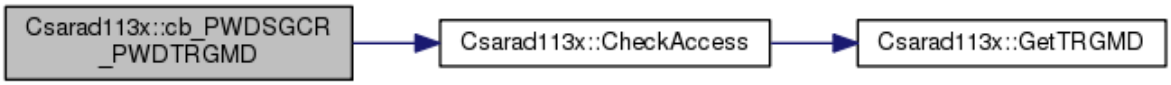
void Csarad113x::cb_PWDSGCR_PWDTRGMD (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3084 of file sarad113x.cpp.

References CheckAccess(), emAllSG, emPWDSG, mADCATCNVnVal, Csarad113x_regif::RegCBstr::pre_data, and Csarad113x_regif::PWDSGCR.

Here is the call graph for this function:



void Csarad113x::cb_PWDSGSEFCR_PWDSEFC (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3111 of file sarad113x.cpp.

References ClearScanningEndFlag(), and emPWDSG.

Here is the call graph for this function:

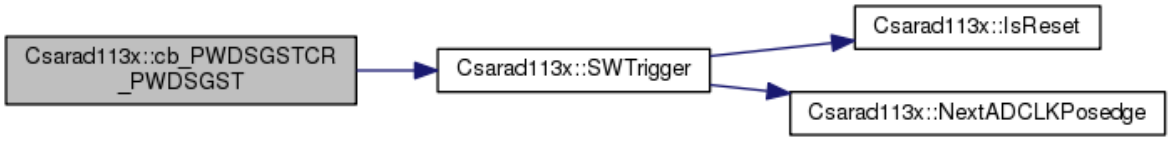
void Csarad113x::cb_PWDSGSTCR_PWDSGST (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3049 of file sarad113x.cpp.

References emPWDSG, mADCLKPeriod, mPCLKPeriod, Csarad113x_regif::PWDSGSTCR, Csarad113x_regif::SGSTR, and SWTrigger().

Here is the call graph for this function:



void Csarad113x::cb_PWDTSNDR_TSNDR (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2724 of file sarad113x.cpp.

References mClearPWDDREvent.

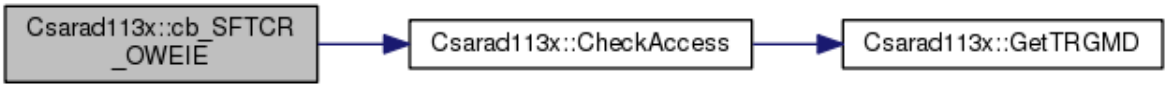
void Csarad113x::cb_SFTCR_OWEIE (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2936 of file sarad113x.cpp.

References CheckAccess(), emAllSG, and Csarad113x_regif::SFTCR.

Here is the call graph for this function:



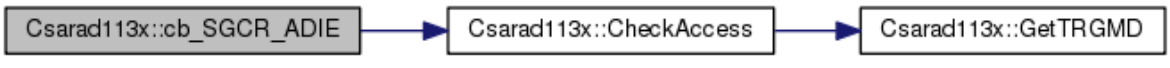
void Csarad113x::cb_SGCR_ADIE (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3060 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, CheckAccess(), emAllSG, mADCATCNVnVal, Csarad113x_regif::RegCBstr::pre_data, and Csarad113x_regif::SGCR.

Here is the call graph for this function:



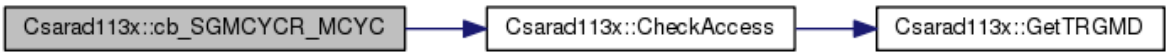
void Csarad113x::cb_SGMCYCR_MCYC (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3170 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, CheckAccess(), emAllSGn, emMaxMultiCyc, Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::SGMCYCR.

Here is the call graph for this function:



void Csarad113x::cb_SGPRCR_SGPR0 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3016 of file sarad113x.cpp.

References mIsOperating, mPrioritySet, Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::SGPRCR.

void Csarad113x::cb_SGSEFCR_SEFCn (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3096 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, ClearScanningEndFlag(), and Csarad113x_regif::SGSEFCR.

Here is the call graph for this function:

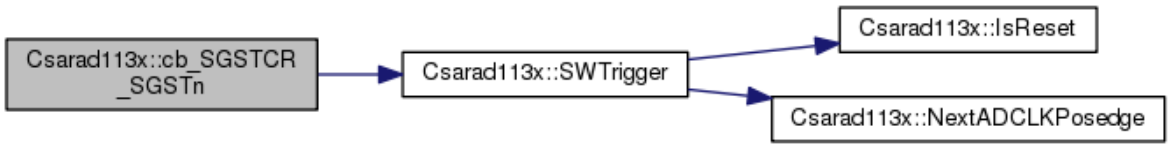
void Csarad113x::cb_SGSTCR_SGSTn (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3025 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, mADCLKPeriod, mPCLKPeriod, Csarad113x_regif::SGSTCR, Csarad113x_regif::SGSTR, and SWTrigger().

Here is the call graph for this function:



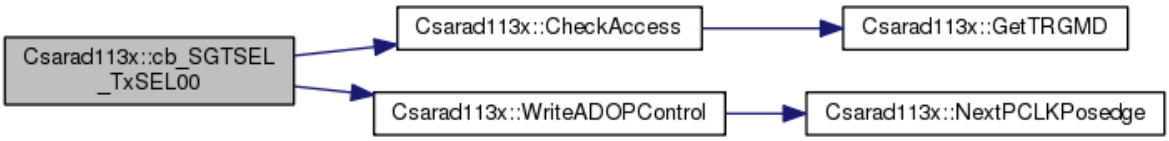
void Csarad113x::cb_SGTSEL_TxSEL00 (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3180 of file sarad113x.cpp.

References ADOP_OPA1_DATA, ADOP_OPA2_DATA, ADOP_OPA3_DATA, Csarad113x_regif::RegCBstr::channel, CheckAccess(), emAllSGn, emSG1, emSG2, Csarad113x_regif::RegCBstr::is_wr, mADCLKPeriod, mPCLKPeriod, Csarad113x_regif::SGTSEL, and WriteADOPControl().

Here is the call graph for this function:



void Csarad113x::cb_SGVCEP_VCEP (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3148 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, emMaxVirChannel, mLastVC, Csarad113x_regif::RegCBstr::pre_data, re_printf, Csarad113x_regif::SGSTR, Csarad113x_regif::SGVCEP, and Csarad113x_regif::SGVCSP.

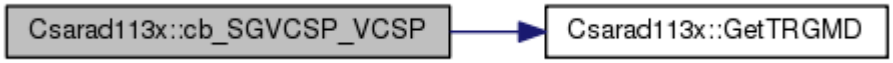
void Csarad113x::cb_SGVCSP_VCSP (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3119 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, emMaxVirChannel, GetTRGMD(), mFirstVC, mNextVC, Csarad113x_regif::RegCBstr::pre_data, re_printf, Csarad113x_regif::SGSTR, Csarad113x_regif::SGVCEP, and Csarad113x_regif::SGVCSP.

Here is the call graph for this function:



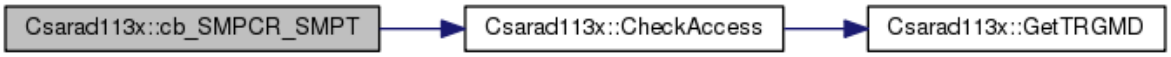
void Csarad113x::cb_SMPCR_SMPT (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2991 of file sarad113x.cpp.

References CheckAccess(), emAllSG, emMinSmpNum, Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::SMPCR.

Here is the call graph for this function:



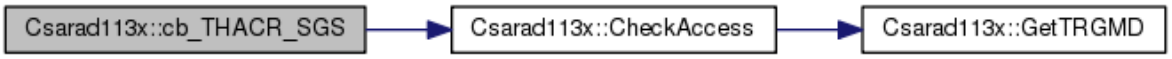
void Csarad113x::cb_THACR_SGS (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2890 of file sarad113x.cpp.

References CheckAccess(), emAllSG, Csarad113x_regif::RegCBstr::pre_data, and Csarad113x_regif::THACR.

Here is the call graph for this function:



void Csarad113x::cb_THAHLDSTCR_HLDST (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2840 of file sarad113x.cpp.

References emAllTHCh, Csarad113x_fsm::emEvtTHAHoldStart, emTHGroupA, mADCLKPeriod, mPCLKPeriod, mSARAD113xFSMEvent, NextADCLKPosedge(), re_printf, Csarad113x_regif::THACR, Csarad113x_regif::THER, and Csarad113x_regif::THGSR.

Here is the call graph for this function:

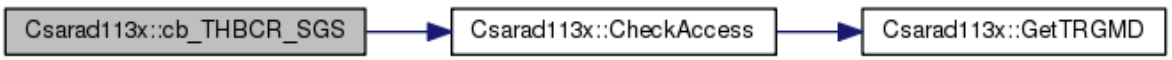
void Csarad113x::cb_THBCR_SGS (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2899 of file sarad113x.cpp.

References CheckAccess(), emAllSG, Csarad113x_regif::RegCBstr::pre_data, and Csarad113x_regif::THBCR.

Here is the call graph for this function:



void Csarad113x::cb_THBHLDSTCR_HLDST (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2865 of file sarad113x.cpp.

References emAllTHCh, Csarad113x_fsm::emEvtTHBHoldStart, emTHGroupB, mADCLKPeriod, mPCLKPeriod, mSARAD113xFSMEvent, NextADCLKPosedge(), re_printf, Csarad113x_regif::THBCR, Csarad113x_regif::THER, and Csarad113x_regif::THGSR.

Here is the call graph for this function:

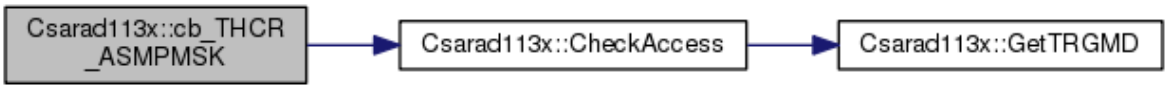
void Csarad113x::cb_THCR_ASMPMSK (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2835 of file sarad113x.cpp.

References CheckAccess(), emAllSG, and Csarad113x_regif::THCR.

Here is the call graph for this function:



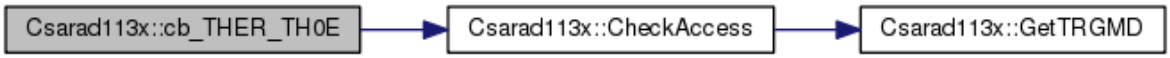
void Csarad113x::cb_THER_TH0E (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2908 of file sarad113x.cpp.

References CheckAccess(), emAllSG, emAllTHCh, Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::THER.

Here is the call graph for this function:



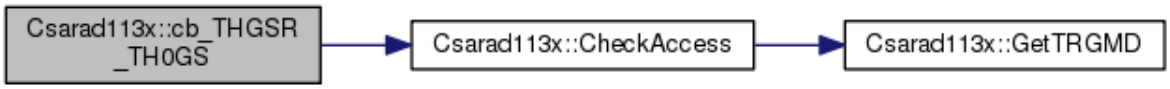
void Csarad113x::cb_THGSR_TH0GS (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2926 of file sarad113x.cpp.

References CheckAccess(), emAllSG, Csarad113x_regif::RegCBstr::pre_data, re_printf, Csarad113x_regif::SGSTR, and Csarad113x_regif::THGSR.

Here is the call graph for this function:



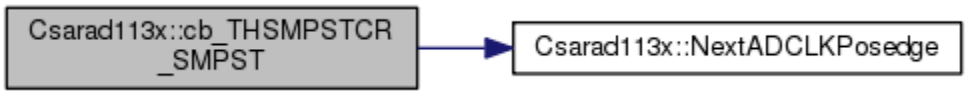
void Csarad113x::cb_THSMPSTCR_SMPST (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2787 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, emAllTHCh, mADCLKPeriod, mPCLKPeriod, mStartTHSamplingEvent, NextADCLKPosedge(), re_printf, Csarad113x_regif::SGSTR, Csarad113x_regif::THACR, Csarad113x_regif::THBCR, Csarad113x_regif::THER, and Csarad113x_regif::THSMPSTCR.

Here is the call graph for this function:



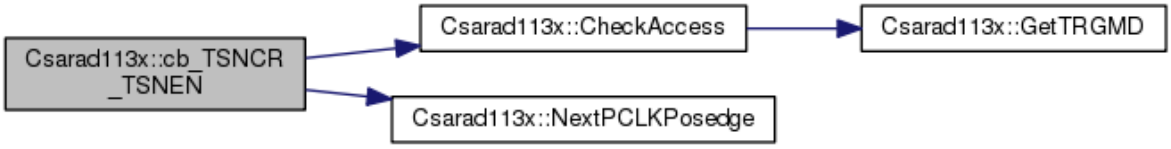
void Csarad113x::cb_TSNCR_TSNEN (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2775 of file sarad113x.cpp.

References CheckAccess(), emTSNSG, mAccessTimeTSNCR, NextPCLKPosedge(), and Csarad113x_regif::TSNCR.

Here is the call graph for this function:



void Csarad113x::cb_TSNDIR_TSNDR (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2737 of file sarad113x.cpp.

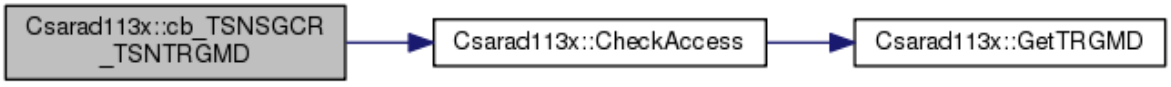
void Csarad113x::cb_TSNSGCR_TSNTRGMD (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3072 of file sarad113x.cpp.

References CheckAccess(), emAllSG, emTSNSG, mADCATCNVnVal, Csarad113x_regif::RegCBstr::pre_data, and Csarad113x_regif::TSNSGCR.

Here is the call graph for this function:



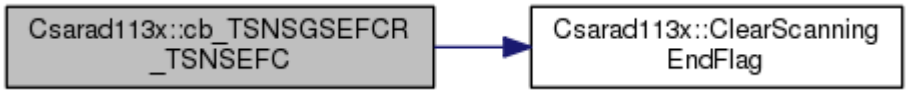
void Csarad113x::cb_TSNSGSEFCR_TSNSEFC (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3103 of file sarad113x.cpp.

References ClearScanningEndFlag(), and emTSNSG.

Here is the call graph for this function:



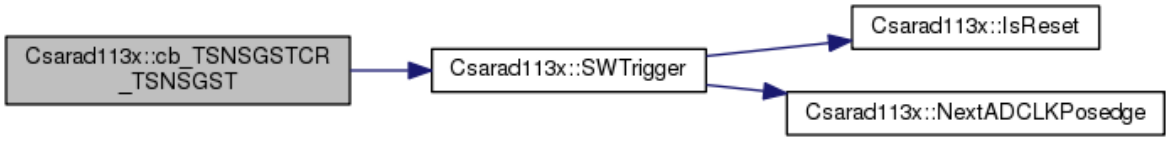
void Csarad113x::cb_TSNSGSTCR_TSNSGST (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3036 of file sarad113x.cpp.

References emTSNSG, mADCLKPeriod, mPCLKPeriod, Csarad113x_regif::SGSTR, SWTrigger(), and Csarad113x_regif::TSNSGSTCR.

Here is the call graph for this function:



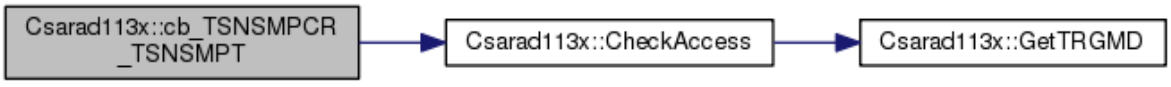
void Csarad113x::cb_TSNSMPCR_TSNSMPT (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 3001 of file sarad113x.cpp.

References CheckAccess(), emAllSG, emMinSmpNum, Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::TSNSMPCR.

Here is the call graph for this function:



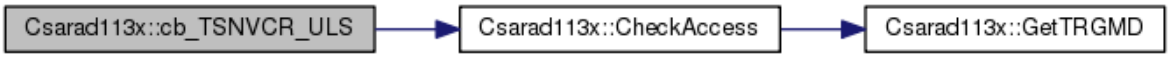
void Csarad113x::cb_TSNVCR_ULS (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2714 of file sarad113x.cpp.

References CheckAccess(), emAllSG, and Csarad113x_regif::TSNVCR.

Here is the call graph for this function:



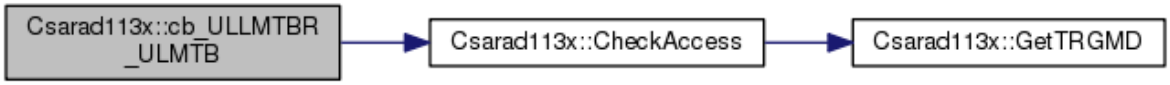
void Csarad113x::cb_ULLMTBR_ULMTB (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2941 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, Csarad113x_regif::RegCBstr::channel, CheckAccess(), em10bit, emAllSG, emMinLLMTB10bit, emMinULMTB10bit, Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::ULLMTBR.

Here is the call graph for this function:



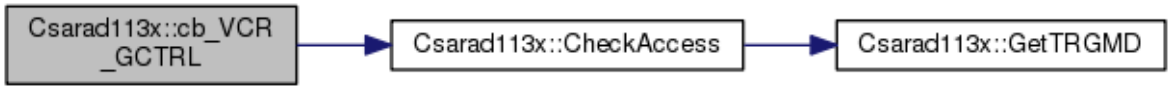
void Csarad113x::cb_VCR_GCTRL (RegCBstr *str*) [private], [virtual]

Implements Csarad113x_regif.

Definition at line 2699 of file sarad113x.cpp.

References Csarad113x_regif::RegCBstr::channel, CheckAccess(), emAllSG, emMaxPhyChannel, Csarad113x_regif::RegCBstr::pre_data, re_printf, Csarad113x_regif::SGSTR, and Csarad113x_regif::VCR.

Here is the call graph for this function:



bool Csarad113x::CheckAccess (const unsigned int *sg*, vpcl::re_register * *reg*, RegCBstr *str*) [private]

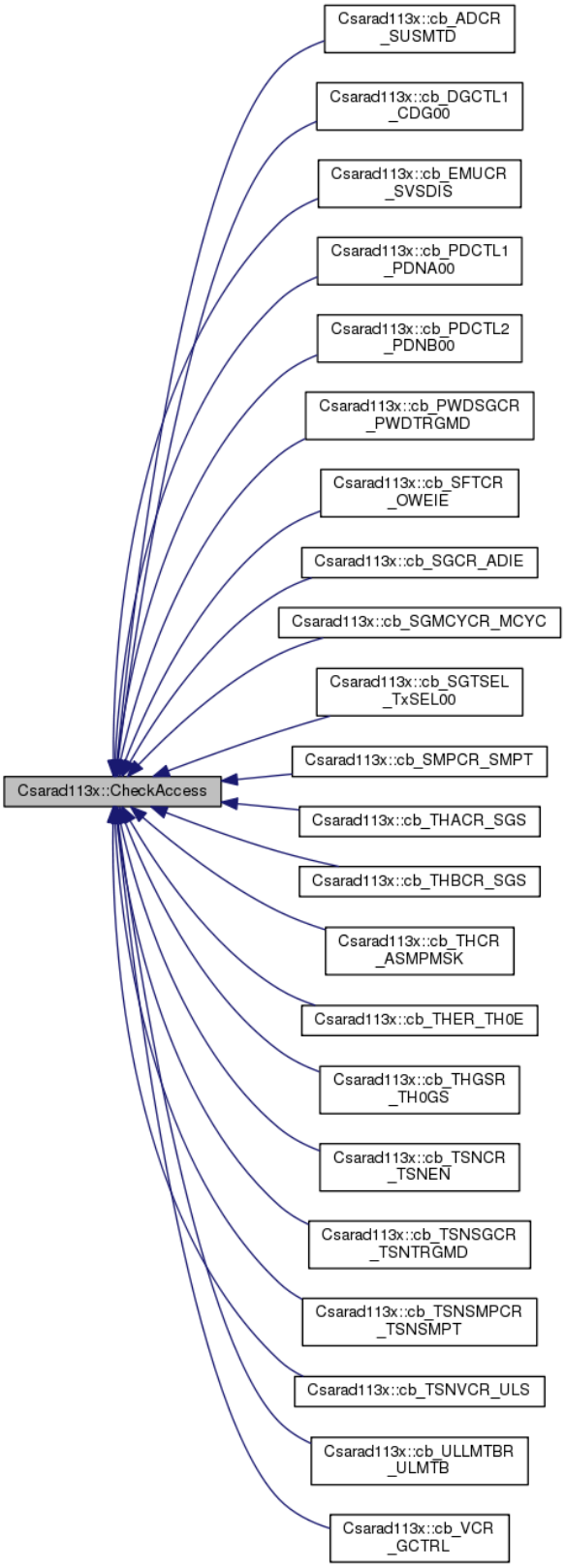
Definition at line 2655 of file sarad113x.cpp.

References emAllSG, emAllSGn, emSG1, emSG3, GetTRGMD(), Csarad113x_regif::RegCBstr::pre_data, re_printf, and Csarad113x_regif::SGSTR.

Referenced by cb_ADCR_SUSMTD(), cb_DGCTL1_CDG00(), cb_EMUCR_SVSDIS(), cb_PDCTL1_PDNA00(), cb_PDCTL2_PDNB00(), cb_PWDSGCR_PWDTRGMD(), cb_SFTCR_OWEIE(), cb_SGCR_ADIE(), cb_SGMCYCR_MCYC(), cb_SGTSEL_TxSEL00(), cb_SMPCR_SMPT(), cb_THACR_SGS(), cb_THBCR_SGS(), cb_THCR_ASMPMSK(), cb_THER_TH0E(), cb_THGSR_TH0GS(), cb_TSNCR_TSNEN(), cb_TSNSGCR_TSNTRGMD(), cb_TSNSMPCR_TSNSMPT(), cb_TSNVCR_ULS(), cb_ULLMTBR_ULMTB(), and cb_VCR_GCTRL().

Here is the call graph for this function:

Here is the caller graph for this function:


Csarad113x::CheckAccess
Csarad113x::cb_ADCR_SUSMTD
Csarad113x::cb_DGCTL1_CDG00
Csarad113x::cb_EMUCR_SVSDIS
Csarad113x::cb_PDCTL1_PDNA00
Csarad113x::cb_PDCTL2_PDNB00
Csarad113x::cb_PWDSGCR_PWDTRGMD
Csarad113x::cb_SFTCR_OWEIE
Csarad113x::cb_SGCR_ADIE
Csarad113x::cb_SGMCYCR_MCYC
Csarad113x::cb_SGTSEL_TxSEL00
Csarad113x::cb_SMPCR_SMPT
Csarad113x::cb_THACR_SGS
Csarad113x::cb_THBCR_SGS
Csarad113x::cb_THCR_ASMPMSK
Csarad113x::cb_THER_TH0E
Csarad113x::cb_THGSR_TH0GS
Csarad113x::cb_TSNCR_TSNEN
Csarad113x::cb_TSNSGCR_TSNTRGMD
Csarad113x::cb_TSNSMPCR_TSNSMPT
Csarad113x::cb_TSNVCR_ULS
Csarad113x::cb_ULLMTBR_ULMTB
Csarad113x::cb_VCR_GCTRL

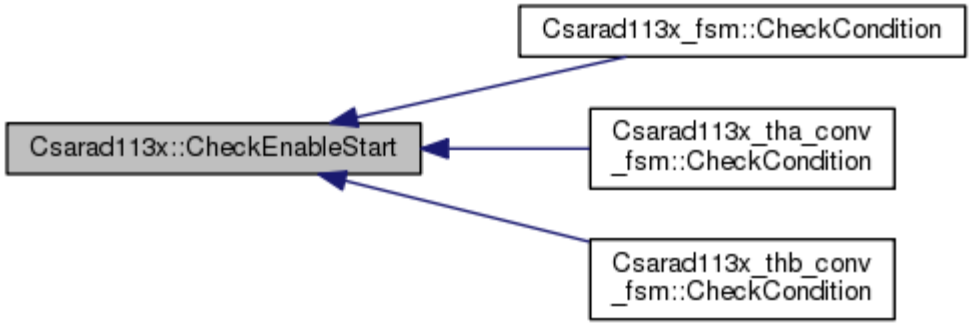
bool Csarad113x::CheckEnableStart (unsigned int *sg*) `[private]`

Definition at line 1258 of file sarad113x.cpp.

References mIsEnableStart.

Referenced by Csarad113x_fsm::CheckCondition(), Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the caller graph for this function:



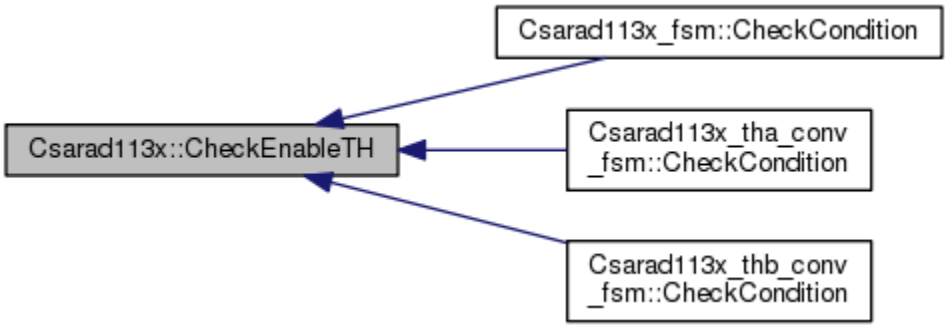
bool Csarad113x::CheckEnableTH (unsigned int *group*) `[private]`

Definition at line 1139 of file sarad113x.cpp.

References emTHGroupA, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_fsm::CheckCondition(), Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the caller graph for this function:



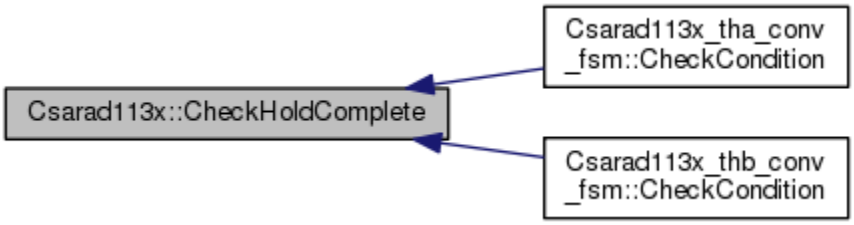
bool Csarad113x::CheckHoldComplete (unsigned int *group*, eTriggerType *trg_type*) `[private]`

Definition at line 1317 of file sarad113x.cpp.

References emHWTrigger, emOtherTrigger, emSWTrigger, emTHGroupA, mIsHWTrigger, mIsSWTrigger, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the caller graph for this function:



bool Csarad113x::CheckHoldStart (unsigned int *group*, bool *is_trg*, eTriggerType *trg_type*) [private]

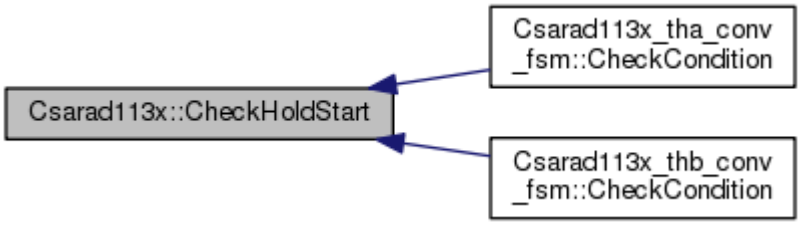
Definition at line 1279 of file sarad113x.cpp.

References Csarad113x_fsm::emEvtTHASWTrigger, Csarad113x_fsm::emEvtTHBSWTrigger, emHWTrigger, emSWTrigger, emTHGroupA, emTHGroupB, mADCLKPeriod, mIsHWTrigger, mIsSWTrigger, mSARAD113xFSMEvent, NextADCLKPosedge(), re_printf, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the call graph for this function:

Here is the caller graph for this function:



bool Csarad113x::CheckSGSetting (unsigned int *sg*, bool *is_th*) [private]

Definition at line 705 of file sarad113x.cpp.

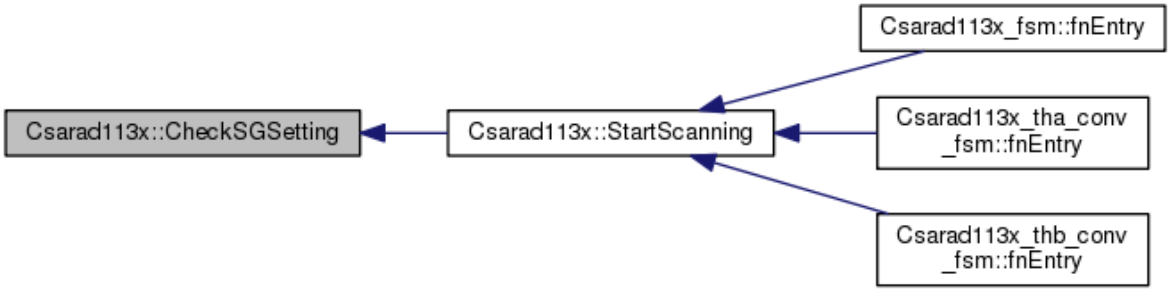
References Csarad113x_regif::ADCR, emAllTHCh, emAllTHGroup, emContinuousMode, emMaxPhyChannel, emSelfNum36, emSG1, emSG2, emSG3, emTHCh0, emTHCh3, emTHGroupA, emTHGroupB, GetGCTRL(), mCurrentSG, mFirstVC, mLastVC, re_printf, Csarad113x_regif::SGCR, Csarad113x_regif::SGMCYCR, Csarad113x_regif::SGVCEP, Csarad113x_regif::SGVCSP,

Csarad113x_regif::THACR, Csarad113x_regif::THBCR, Csarad113x_regif::THER, Csarad113x_regif::THGSR, and Csarad113x_regif::VCR.

Referenced by StartScanning().

Here is the call graph for this function:

Here is the caller graph for this function:



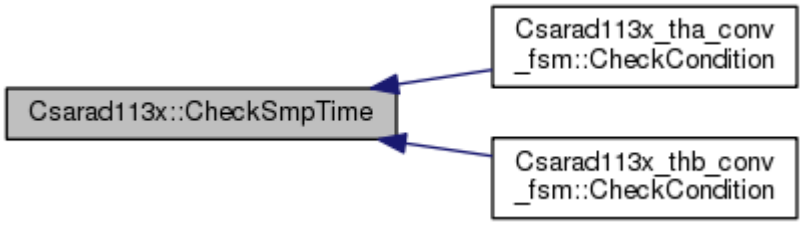
bool Csarad113x::CheckSmpTime (unsigned int *group*, bool *hw_trg*) [private]

Definition at line 1093 of file sarad113x.cpp.

References emAllTHCh, emMinTHSmpTime, emTHGroupA, emTHGroupB, mIsHWTrigger, mIsSWTrigger, mStartTHSamplingTime, re_printf, Csarad113x_regif::THACR, Csarad113x_regif::THBCR, Csarad113x_regif::THER, and Csarad113x_regif::THGSR.

Referenced by Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the caller graph for this function:



bool Csarad113x::CheckSuspend (unsigned int *trg_num*, unsigned int *current_sg*) [private]

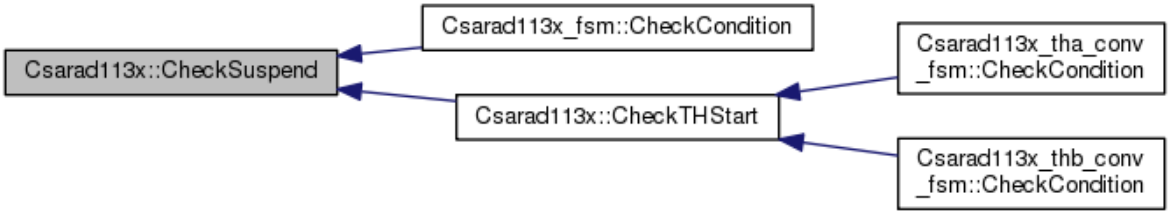
Definition at line 940 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, ComparePriority(), emAllSG, emAsyncMode, emHybridMode, and emSG1.

Referenced by Csarad113x_fsm::CheckCondition(), and CheckTHStart().

Here is the call graph for this function:

Here is the caller graph for this function:



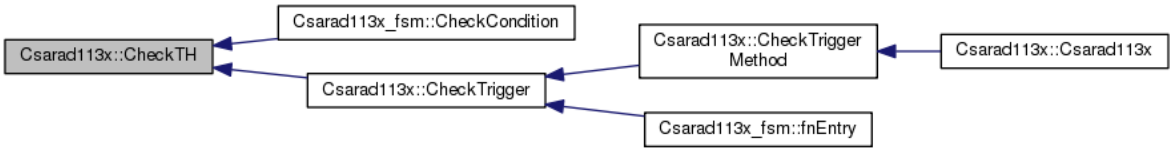
bool Csarad113x::CheckTH (unsigned int *sg*) [private]

Definition at line 1128 of file sarad113x.cpp.

References Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_fsm::CheckCondition(), and CheckTrigger().

Here is the caller graph for this function:



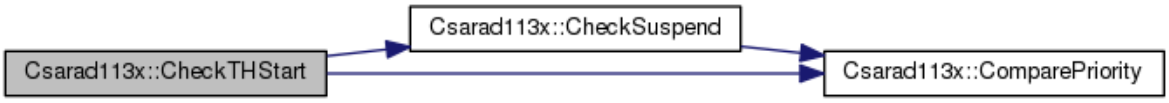
bool Csarad113x::CheckTHStart (unsigned int *group*) [private]

Definition at line 1154 of file sarad113x.cpp.

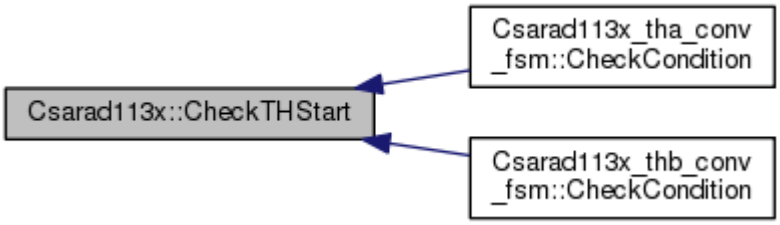
References CheckSuspend(), ComparePriority(), emAllSG, Csarad113x_fsm::emEvtTHASuspend, Csarad113x_fsm::emEvtTHBSuspend, emTHGroupA, mIsScanning, mSARAD113xFSMEvent, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the call graph for this function:



Here is the caller graph for this function:



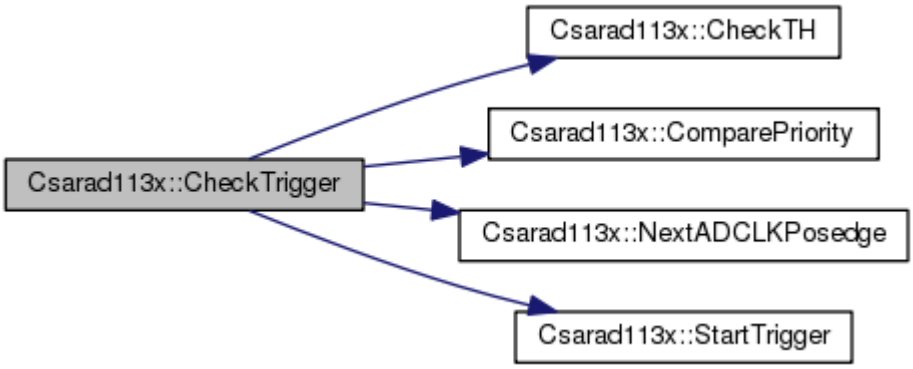
void Csarad113x::CheckTrigger (void) `[private]`

Definition at line 999 of file sarad113x.cpp.

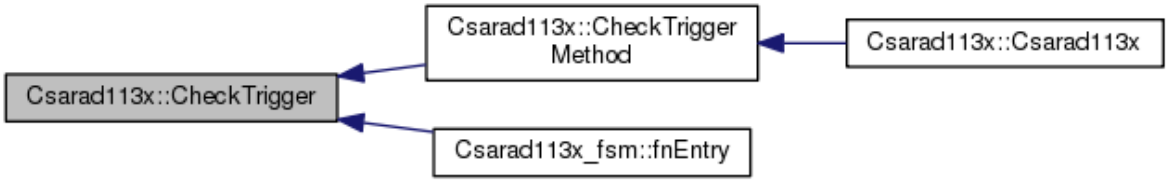
References CheckTH(), ComparePriority(), emAllSG, Csarad113x_fsm::emEvtTHAHWTrigger, Csarad113x_fsm::emEvtTHAResume, Csarad113x_fsm::emEvtTHASWTrigger, Csarad113x_fsm::emEvtTHBHWTrigger, Csarad113x_fsm::emEvtTHBResume, Csarad113x_fsm::emEvtTHBSWTrigger, emPWDSG, emSG1, emSG2, emSG3, Csarad113x_fsm::emStTH_CONV, Csarad113x_tha_conv_fsm::emStTHA_HOLDING, Csarad113x_tha_conv_fsm::emStTHA_SAMPLING, Csarad113x_thb_conv_fsm::emStTHB_HOLDING, Csarad113x_thb_conv_fsm::emStTHB_SAMPLING, emTSNSG, mADCATCNVnVal, Cfsm_base::mCurrentState, mCurrentTrigger, mIsHWTrigger, mIsScanning, mIsSWTrigger, mSARAD113xFSMEvent, mWriteADCATCNVControlEvent, NextADCLKPosedge(), pCsarad113x_fsm, Csarad113x_fsm::pCsarad113x_tha_conv_fsm, Csarad113x_fsm::pCsarad113x_thb_conv_fsm, StartTrigger(), Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by CheckTriggerMethod(), and Csarad113x_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



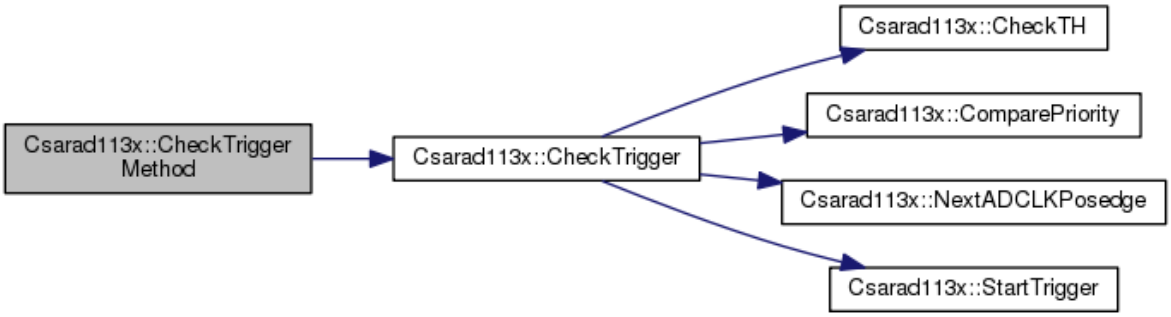
void Csarad113x::CheckTriggerMethod (void) [private]

Definition at line 1770 of file sarad113x.cpp.

References CheckTrigger().

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

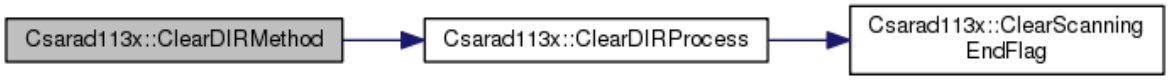
void Csarad113x::ClearDIRMethod (unsigned int *vc*) [private]

Definition at line 1947 of file sarad113x.cpp.

References ClearDIRProcess(), and emSG1.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

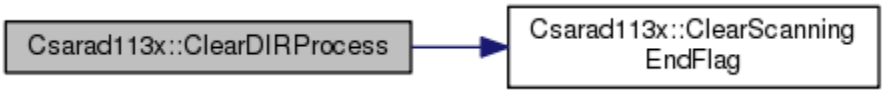
void Csarad113x::ClearDIRProcess (unsigned int *sg*, unsigned int *vc_num*) [private]

Definition at line 1672 of file sarad113x.cpp.

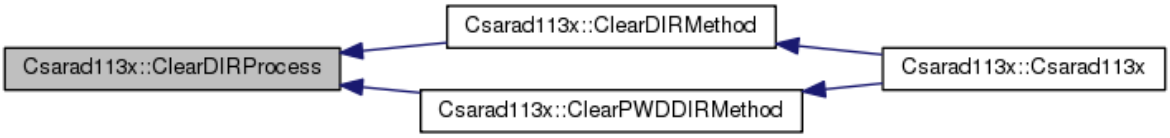
References ClearScanningEndFlag(), Csarad113x_regif::DIR, Csarad113x_regif::DR, emDRMask0, emDRMask1, emPWDSG, emSG1, emSG3, emTSNSG, Csarad113x_regif::SFTCR, and Csarad113x_regif::SGVCEP.

Referenced by ClearDIRMethod(), and ClearPWDDIRMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



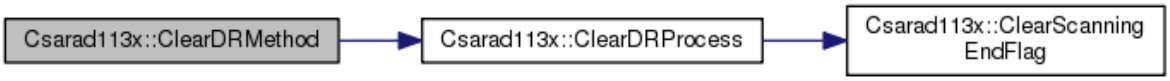
void Csarad113x::ClearDRMethod (unsigned int *channel*) [private]

Definition at line 1942 of file sarad113x.cpp.

References ClearDRProcess(), and emSG1.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

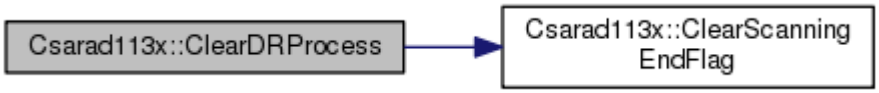
void Csarad113x::ClearDRProcess (unsigned int *sg*, unsigned int *channel*) [private]

Definition at line 1628 of file sarad113x.cpp.

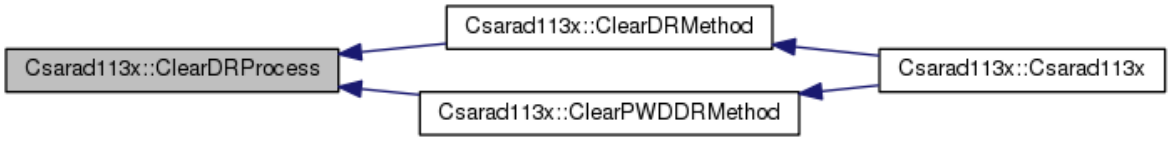
References ClearScanningEndFlag(), Csarad113x_regif::DIR, Csarad113x_regif::DR, emPWDSG, emSG1, emSG3, emTSNSG, Csarad113x_regif::SFTCR, and Csarad113x_regif::SGVCEP.

Referenced by ClearDRMethod(), and ClearPWDDRMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



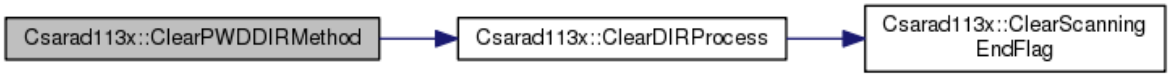
void Csarad113x::ClearPWDDIRMethod (void) [private]

Definition at line 1952 of file sarad113x.cpp.

References ClearDIRProcess(), and emPWDSG.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

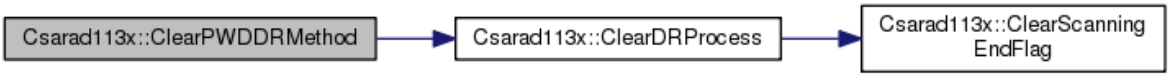
void Csarad113x::ClearPWDDRMethod (void) [private]

Definition at line 1937 of file sarad113x.cpp.

References ClearDRProcess(), and emPWDSG.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

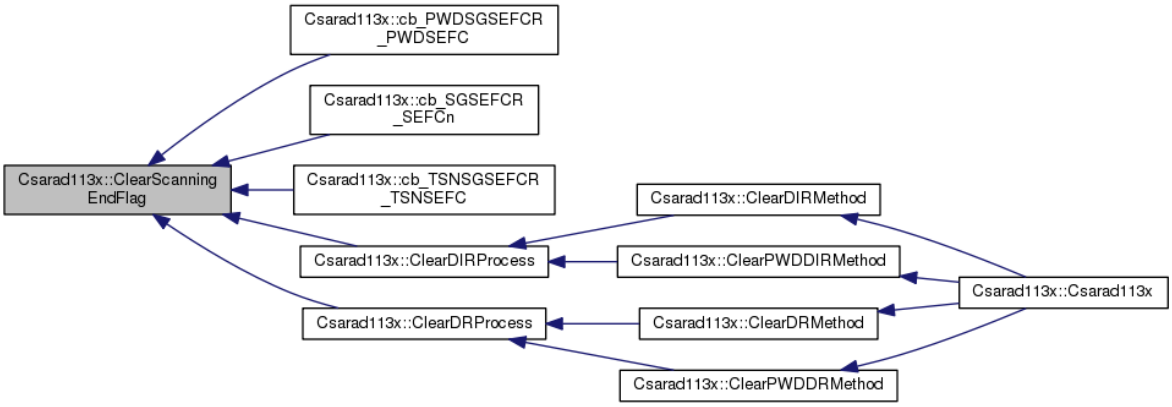
void Csarad113x::ClearScanningEndFlag (const unsigned int *sg*) [private]

Definition at line 477 of file sarad113x.cpp.

References Csarad113x_regif::SGSTR.

Referenced by cb_PWDSGSEFCR_PWDSEFC(), cb_SGSEFCR_SEFCn(), cb_TSNSGSEFCR_TSNSEFC(), ClearDIRProcess(), and ClearDRProcess().

Here is the caller graph for this function:



std::string Csarad113x::CommandCB (const std::vector< std::string > & *args*) `[private]`

Definition at line 2553 of file sarad113x.cpp.

References AVcc, Avrefh, AVss, EnableTimeCalculation, EX_CNVT, EX_HLD_CDT, mIsOperating, mIsRefVolUpdate, mPreAVcc, mPreAvrefh, mPreAVss, mPreEnableTimeCalculation, mPreEX_CNVT, mPreEX_HLD_CDT, mPretD, mPretED, mPretPWDD, re_printf, tD, tED, and tPWDD.

void Csarad113x::CommandInit (std::string *name* = "") `[inline]`, `[private]`

Definition at line 1041 of file sarad113x.h.

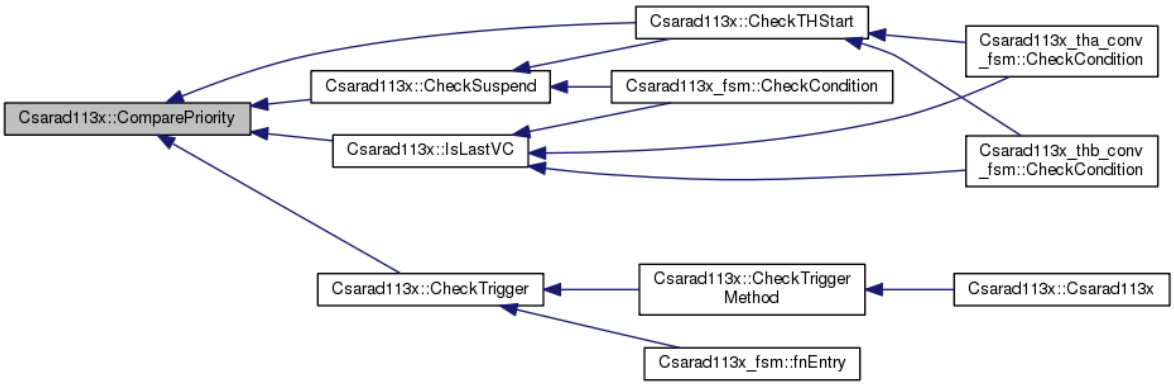
bool Csarad113x::ComparePriority (unsigned int *check_sg*, unsigned int *current_sg*) `[private]`

Definition at line 1059 of file sarad113x.cpp.

References emPriority0, and mPrioritySet.

Referenced by CheckSuspend(), CheckTHStart(), CheckTrigger(), and IsLastVC().

Here is the caller graph for this function:



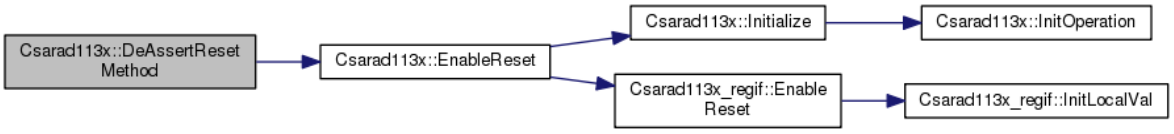
void Csarad113x::DeAssertResetMethod (void) [private]

Definition at line 1997 of file sarad113x.cpp.

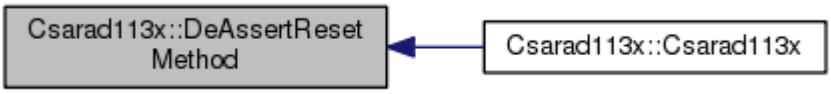
References EnableReset(), and mSARCmdResetFlag.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



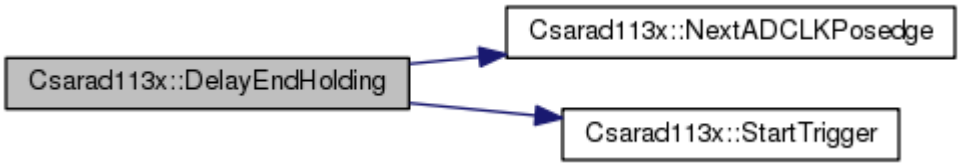
void Csarad113x::DelayEndHolding (unsigned int *group*) [private]

Definition at line 1214 of file sarad113x.cpp.

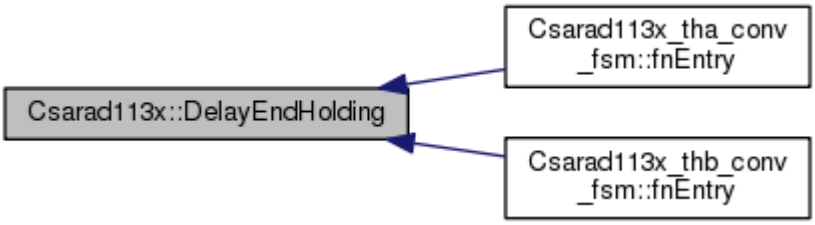
References Csarad113x_fsm::emEvtTHAEndHolding, Csarad113x_fsm::emEvtTHBEndHolding, emTHGroupA, mADCLKPeriod, mSARAD113xFSMEvent, NextADCLKPosedge(), and StartTrigger().

Referenced by Csarad113x_tha_conv_fsm::fnEntry(), and Csarad113x_thb_conv_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::DumpActivity (unsigned int *sg*, unsigned int *vc_num*, double *start_time*) [private]

Definition at line 2391 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, em10bit, emLeftAlign, emPWDSG, emTSNSG, EnableConvertInfo, IsContinuousMode(), mADData, mRepetitionCount, mRepetitionTime, mScanFreqCount, re_printf, Csarad113x_regif::SGMCYCR, and Csarad113x_regif::VCR.

Referenced by Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

Here is the call graph for this function:

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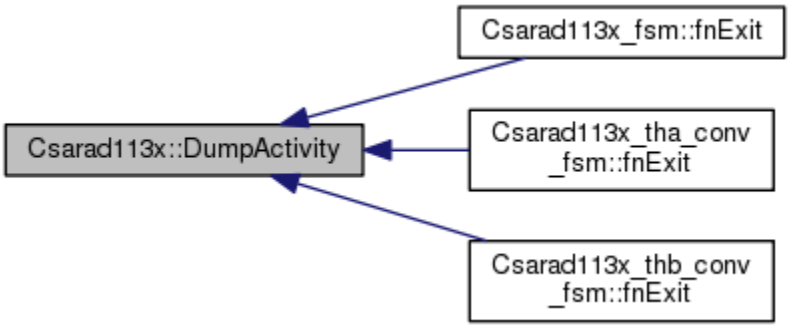


void Csarad113x::DumpInfo (const char * *type*, const char * *message*, ...) [private]

Definition at line 2344 of file sarad113x.cpp.

Referenced by DumpStatInfo().

Here is the caller graph for this function:

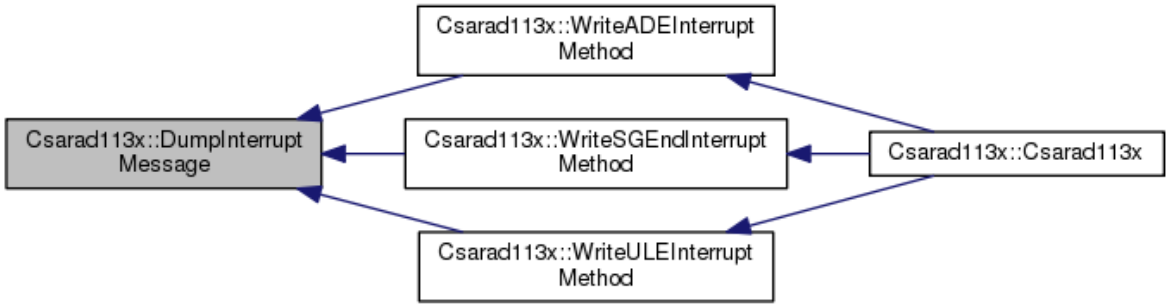
void Csarad113x::DumpInterruptMessage (const std::string *intr_name*, const bool *is_assert*) [private]

Definition at line 2380 of file sarad113x.cpp.

References DumpInterrupt, and re_printf.

Referenced by WriteADEInterruptMethod(), WriteSGEndInterruptMethod(), and WriteULEInterruptMethod().

Here is the caller graph for this function:



void Csarad113x::DumpStatInfo (void) `[private]`

Definition at line 2357 of file sarad113x.cpp.

References DumpInfo(), emAllSG, mINTActiveNum, mINTADEActiveNum, and mULEActiveNum.

Here is the call graph for this function:

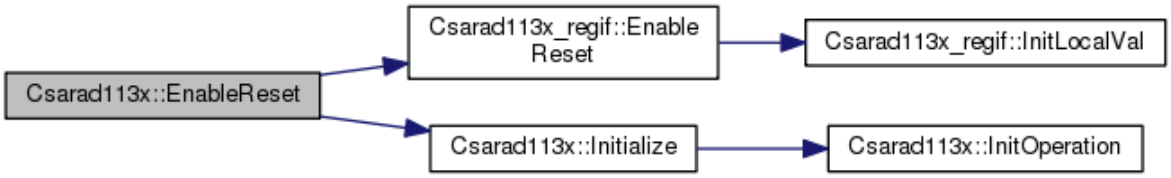
void Csarad113x::EnableReset (const bool *is_active*) `[private]`

Definition at line 2286 of file sarad113x.cpp.

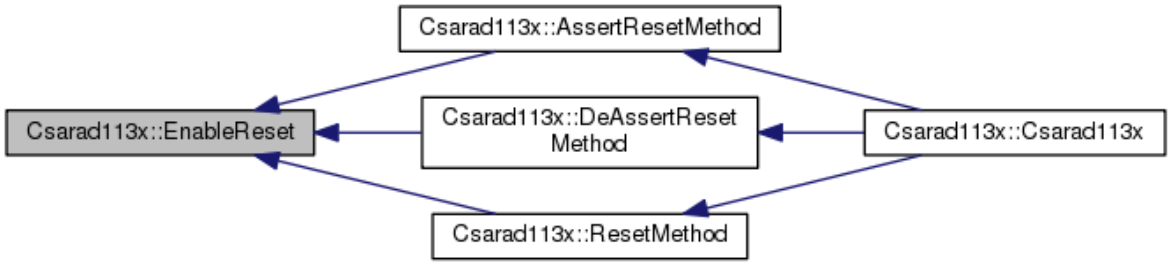
References emAllSG, Csarad113x_fsm::emEvtResetAssert, Csarad113x_fsm::emEvtResetDeassert, Csarad113x_regif::EnableReset(), Initialize(), mCheckTriggerMethodEvent, mEndVCConversionEvent, mHWTriggerEvent, mSARAD113xFSMEvent, mStartTHSamplingEvent, mStartVCConversionEvent, mStartVCSamplingEvent, mSWTriggerEvent, mUpdateConversionDataEvent, mUpdateSGACTEvent, mWriteADCATCNVControlEvent, mWriteADEInterruptEvent, mWriteADOPControlEvent, mWritePVCR_MUXCUREvent, mWriteSGEndInterruptEvent, mWriteULEInterruptEvent, and re_printf.

Referenced by AssertResetMethod(), DeAssertResetMethod(), and ResetMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



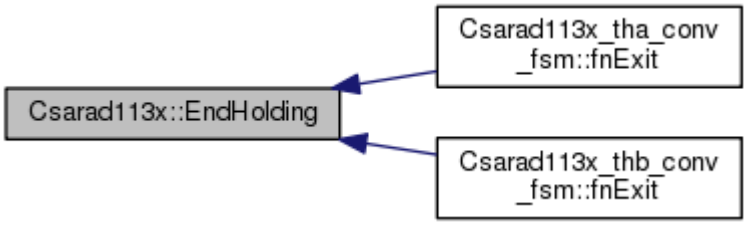
void Csarad113x::EndHolding (unsigned int *group*) [private]

Definition at line 1341 of file sarad113x.cpp.

References Csarad113x_fsm::emEvtTHAHoldComplete, Csarad113x_fsm::emEvtTHBHoldComplete, emTHGroupA, mSARAD113xFSMEvent, and re_printf.

Referenced by Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

Here is the caller graph for this function:



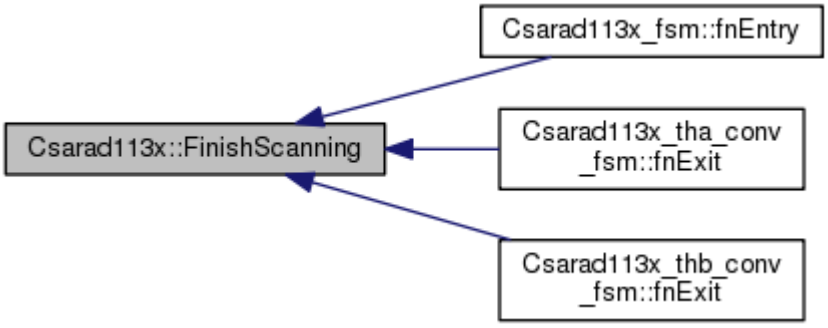
void Csarad113x::FinishScanning (unsigned int *sg*) [private]

Definition at line 693 of file sarad113x.cpp.

References mCurrentSG, mIsFirstTimeConv, mIsHWTrigger, mIsScanning, mIsSWTrigger, and re_printf.

Referenced by Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

Here is the caller graph for this function:



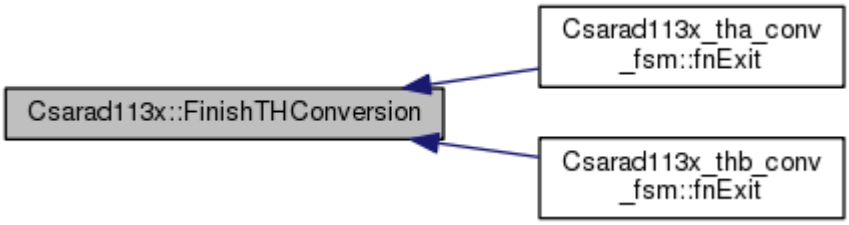
void Csarad113x::FinishTHConversion (void) [private]

Definition at line 1392 of file sarad113x.cpp.

References Csarad113x_fsm::emEvtFinishTHConversion, and mSARAD113xFSMEvent.

Referenced by Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

Here is the caller graph for this function:



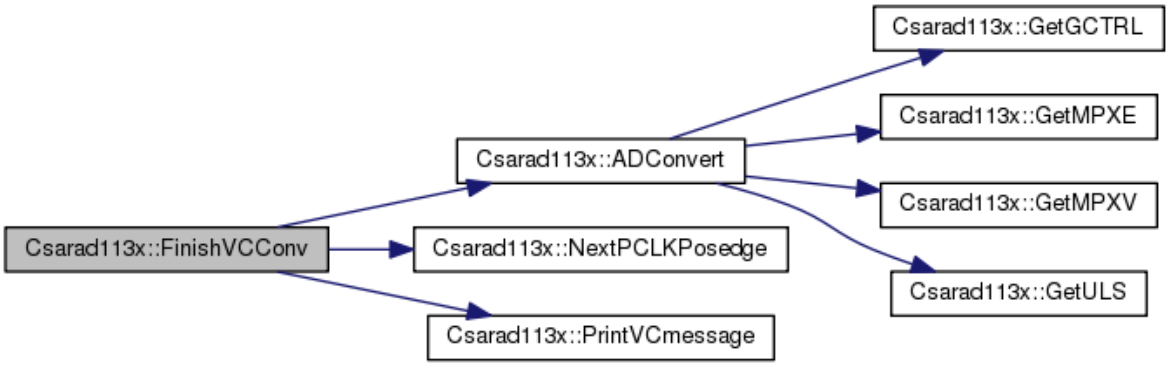
void Csarad113x::FinishVCConv (unsigned int *sg*) [private]

Definition at line 900 of file sarad113x.cpp.

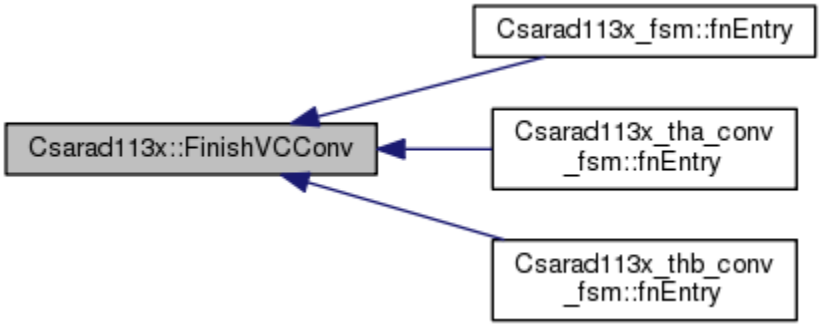
References ADConvert(), emTSNSG, EnableTimeCalculation, mADCLKPeriod, mADData, mCurrentAnalogVal, mCurrentStartVC, mPCLKPeriod, mPreviousVC, mUpdateConversionDataEvent, NextPCLKPosedge(), PrintVCmessage(), and tED.

Referenced by Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), and Csarad113x_thb_conv_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::get_fileline (std::string *filename*, int *line_number*) `[inline], [private]`

Definition at line 1236 of file sarad113x.h.

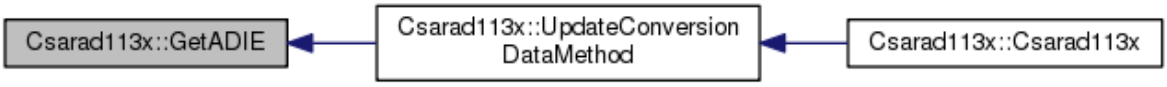
unsigned int Csarad113x::GetADIE (unsigned int *sg*, unsigned int *vc_num*) `[private]`

Definition at line 1585 of file sarad113x.cpp.

References emSG1, emSG3, and Csarad113x_regif::VCR.

Referenced by UpdateConversionDataMethod().

Here is the caller graph for this function:



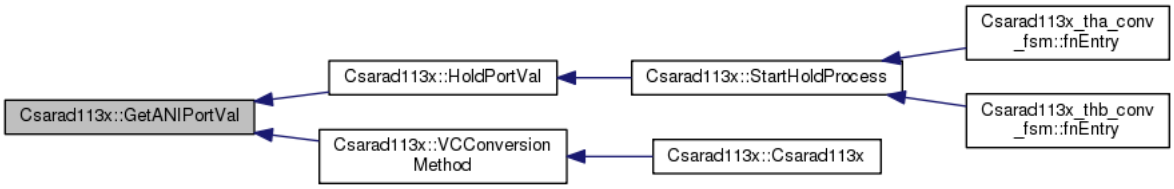
double Csarad113x::GetANIPortVal (unsigned int *port_index*) `[private]`

Definition at line 520 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, ANI00, ANI01, ANI02, ANI03, ANI04, ANI05, ANI06, ANI07, ANI08, ANI09, ANI10, ANI11, ANI12, ANI13, ANI14, ANI15, ANI16, ANI17, ANI18, ANI19, ANI20, ANI21, ANI22, ANI23, ANI24, ANI25, ANI26, ANI27, ANI28, ANI29, ANI30, ANI31, ANI32, ANI33, ANI34, ANI35, Csarad113x_regif::DGCTL1, emANIGroup1, emANIGroup2, emMaxPhyChannel, mDGOUTAD, mDGOUTSH, Csarad113x_regif::PDCTL1, Csarad113x_regif::PDCTL2, and TSN_ANI.

Referenced by HoldPortVal(), and VCConversionMethod().

Here is the caller graph for this function:



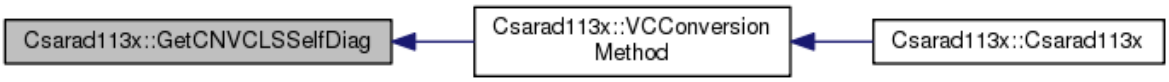
unsigned int Csarad113x::GetCNVCLSSelfDiag (unsigned int *vc_num*) [private]

Definition at line 1620 of file sarad113x.cpp.

References Csarad113x_regif::VCR.

Referenced by VCConversionMethod().

Here is the caller graph for this function:



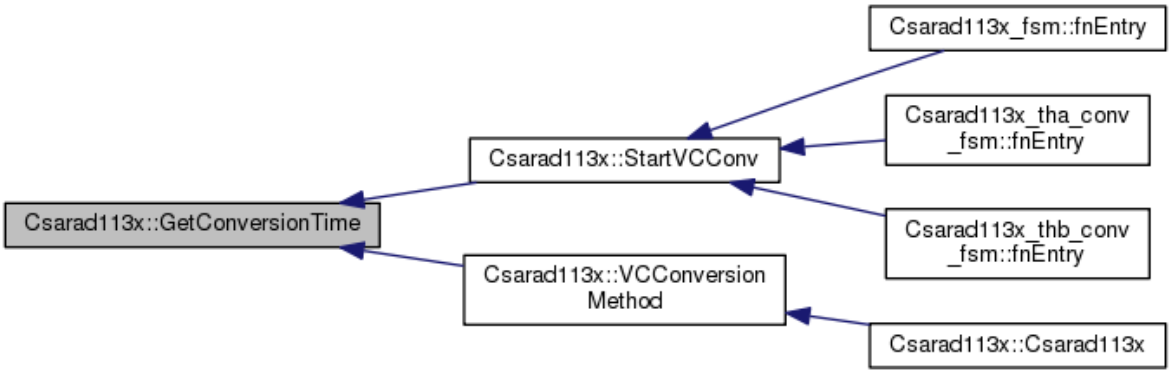
double Csarad113x::GetConversionTime (void) [private]

Definition at line 1446 of file sarad113x.cpp.

References EX_CNVT, and mADCLKPeriod.

Referenced by StartVCConv(), and VCConversionMethod().

Here is the caller graph for this function:



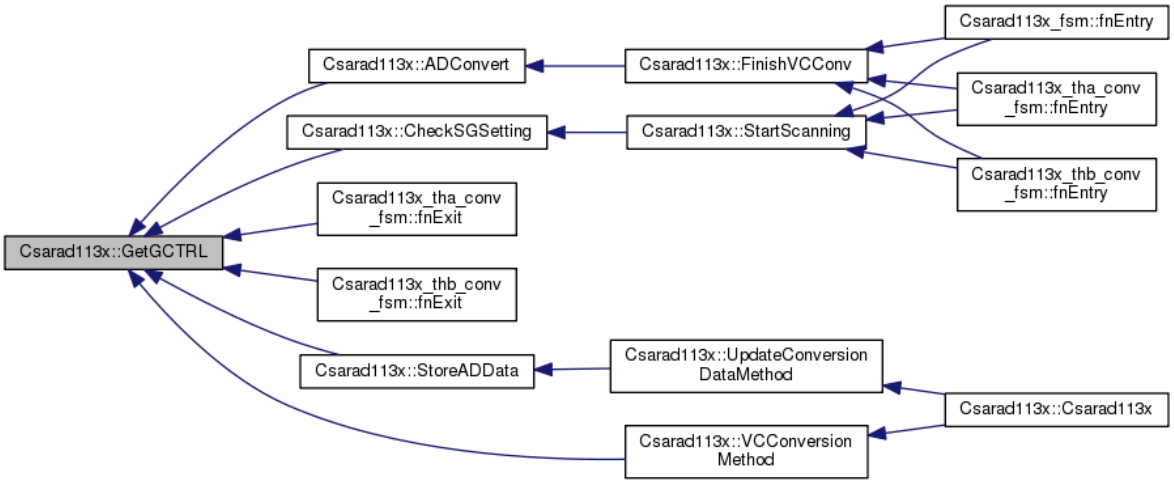
unsigned int Csarad113x::GetGCTRL (unsigned int *sg*, unsigned int *vc_num*) [private]

Definition at line 1607 of file sarad113x.cpp.

References emPWDSG, emSG1, emSG3, Csarad113x_regif::PWDVCR, Csarad113x_regif::TSNVCR, and Csarad113x_regif::VCR.

Referenced by ADConvert(), CheckSGSetting(), Csarad113x_tha_conv_fsm::fnExit(), Csarad113x_thb_conv_fsm::fnExit(), StoreADData(), and VCConversionMethod().

Here is the caller graph for this function:



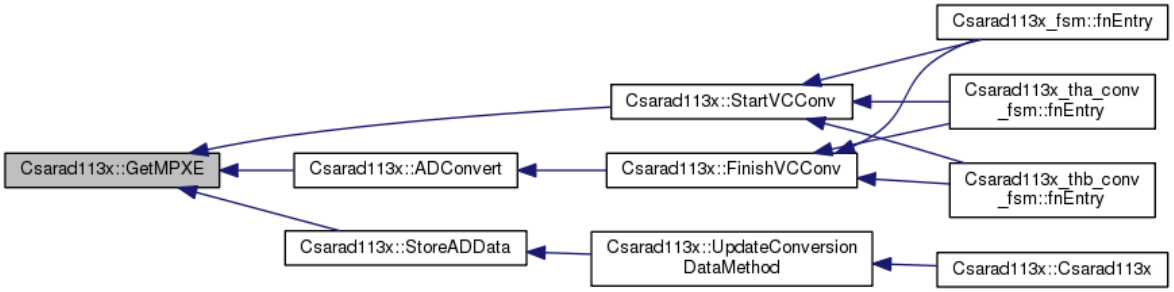
unsigned int Csarad113x::GetMPXE (unsigned int *sg*, unsigned int *vc_num*) `[private]`

Definition at line 1561 of file sarad113x.cpp.

References emPWDSG, emSG1, emSG3, Csarad113x_regif::PWDVCR, and Csarad113x_regif::VCR.

Referenced by ADConvert(), StartVCConv(), and StoreADData().

Here is the caller graph for this function:



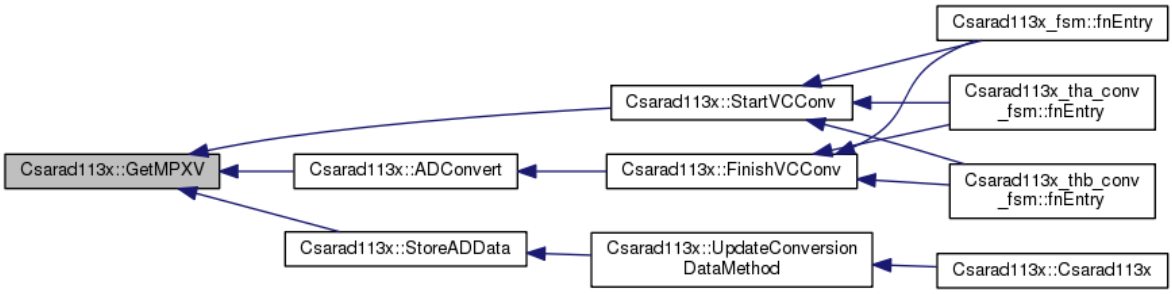
unsigned int Csarad113x::GetMPXV (unsigned int *sg*, unsigned int *vc_num*) `[private]`

Definition at line 1573 of file sarad113x.cpp.

References emPWDSG, emSG1, emSG3, Csarad113x_regif::PWDVCR, and Csarad113x_regif::VCR.

Referenced by ADConvert(), StartVCConv(), and StoreADData().

Here is the caller graph for this function:



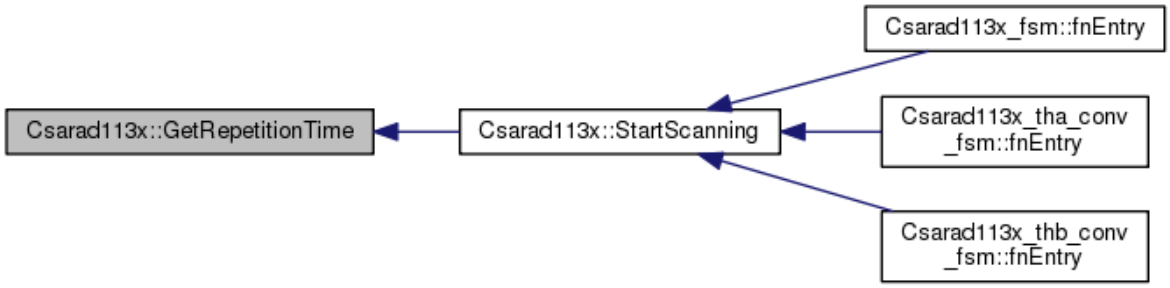
unsigned int Csarad113x::GetRepetitionTime (unsigned int *sg*) `[private]`

Definition at line 1452 of file sarad113x.cpp.

References emSG1, emSG3, and Csarad113x_regif::SGCR.

Referenced by StartScanning().

Here is the caller graph for this function:



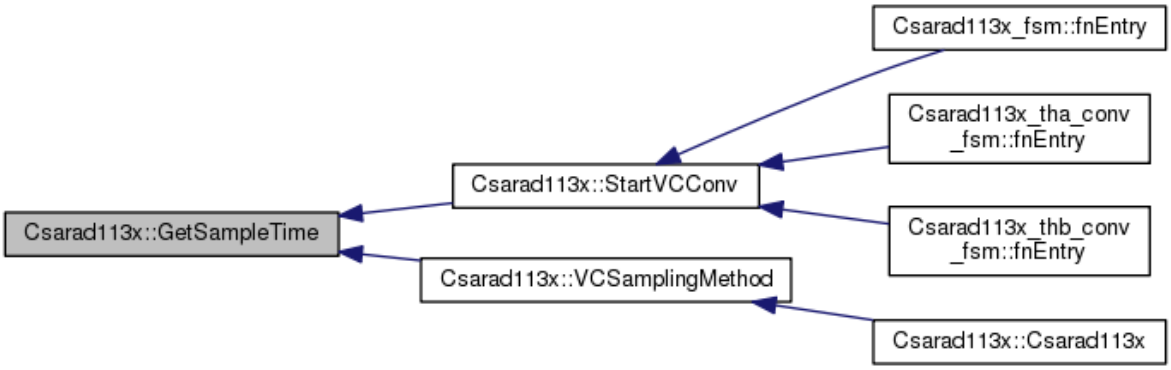
double Csarad113x::GetSampleTime (unsigned int *sg*) `[private]`

Definition at line 1432 of file sarad113x.cpp.

References emTSNSG, mADCLKPeriod, Csarad113x_regif::SMPCR, and Csarad113x_regif::TSNSMPCR.

Referenced by StartVCConv(), and VCSamplingMethod().

Here is the caller graph for this function:

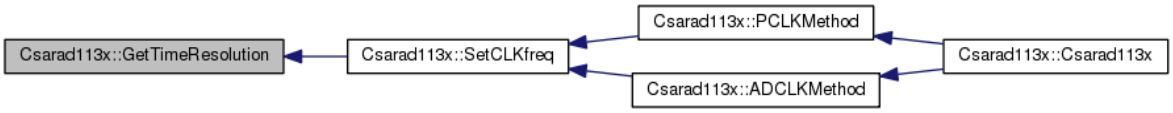


double Csarad113x::GetTimeResolution (void) [private]

Definition at line 2427 of file sarad113x.cpp.

Referenced by SetCLKfreq().

Here is the caller graph for this function:



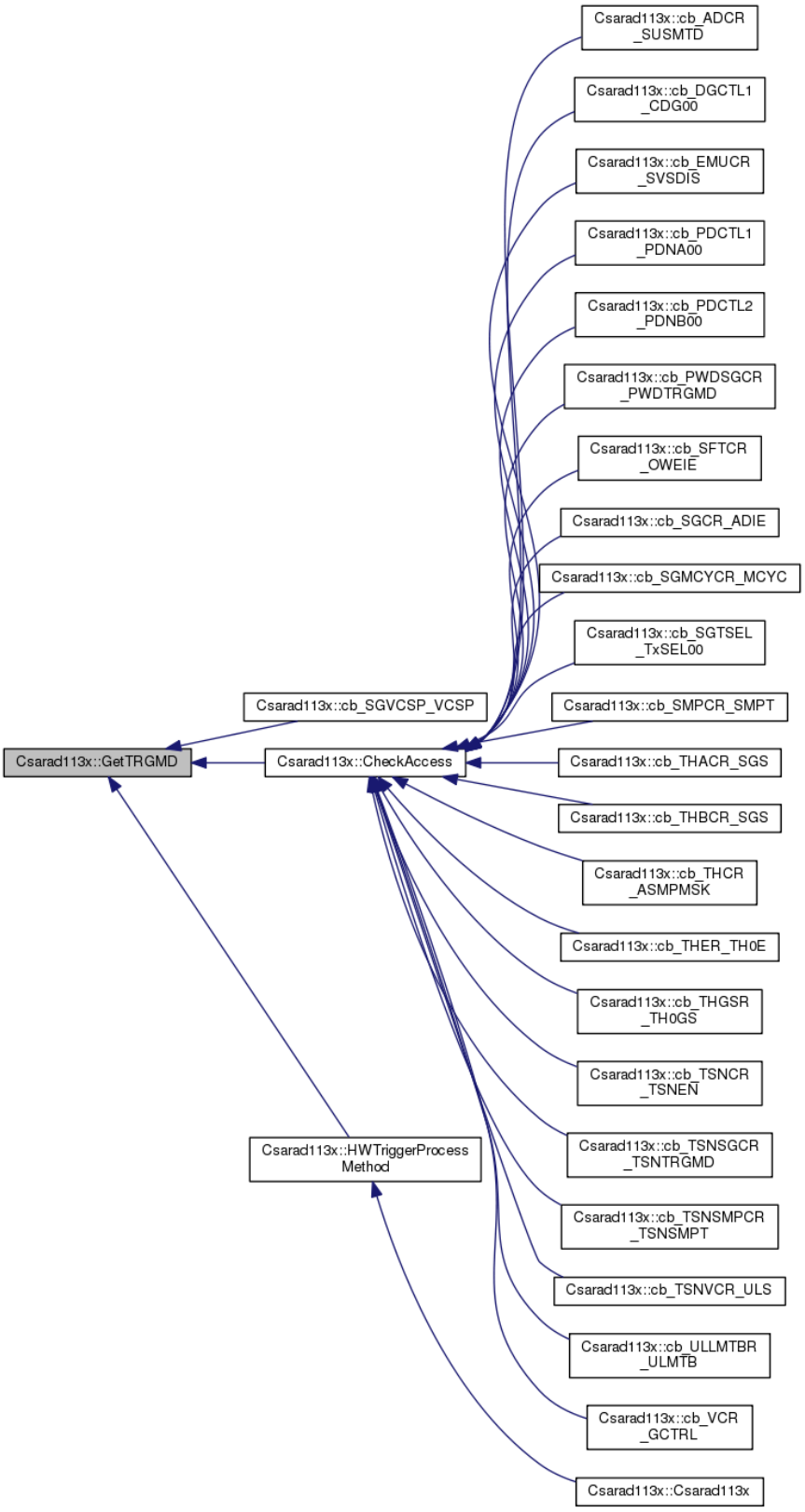
unsigned int Csarad113x::GetTRGMD (const unsigned int *sg*) [private]

Definition at line 2639 of file sarad113x.cpp.

References emPWDSG, emSG1, emSG3, and Csarad113x_regif::SGCR.

Referenced by cb_SGVCSP_VCSP(), CheckAccess(), and HWTriggerProcessMethod().

Here is the caller graph for this function:


Csarad113x::cb_ADCR
_SUSMTD
Csarad113x::cb_DGCTL1
_CDG00
Csarad113x::cb_EMUCR
_SVSDIS
Csarad113x::cb_PDCTL1
_PDNA00
Csarad113x::cb_PDCTL2
_PDNB00
Csarad113x::cb_PWDSGCR
_PWDTRGMD
Csarad113x::cb_SFTCR
_OWEIE
Csarad113x::cb_SGCR_ADIE
Csarad113x::cb_SGMCYCR_MCYC
Csarad113x::cb_SGTSEL
_TxSEL00
Csarad113x::cb_SGVCSP_VCSP
Csarad113x::cb_SMPCR_SMPT
Csarad113x::GetTRGMD
Csarad113x::CheckAccess
Csarad113x::cb_THACR_SGS
Csarad113x::cb_THBCR_SGS
Csarad113x::cb_THCR
_ASMPMSK
Csarad113x::cb_THER_TH0E
Csarad113x::cb_THGSR
_TH0GS
Csarad113x::cb_TSNCR
_TSNEN
Csarad113x::HWTriggerProcess
Method
Csarad113x::cb_TSNSGCR
_TSNTRGMD
Csarad113x::cb_TSNSMPCR
_TSNSMPT
Csarad113x::cb_TSNVCR_ULS
Csarad113x::cb_ULLMTBR
_ULMTB
Csarad113x::cb_VCR
_GCTRL
Csarad113x::Csarad113x

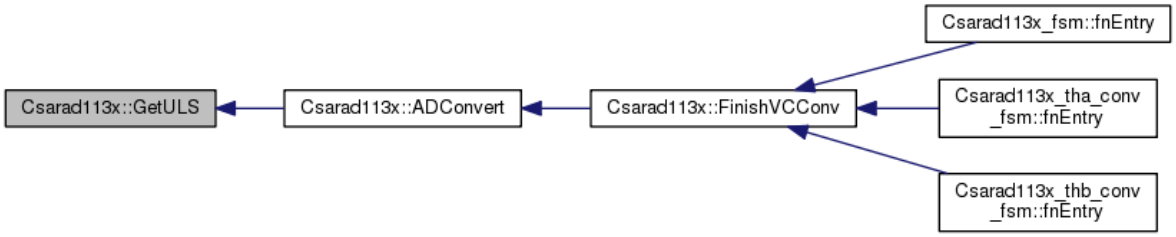
unsigned int Csarad113x::GetULS (unsigned int *sg*, unsigned int *vc_num*) [private]

Definition at line 1594 of file sarad113x.cpp.

References emPWDSG, emSG1, emSG3, Csarad113x_regif::PWDVCR, Csarad113x_regif::TSNVCR, and Csarad113x_regif::VCR.

Referenced by ADConvert().

Here is the caller graph for this function:



unsigned int Csarad113x::GetWrittenData (void)

Definition at line 2650 of file sarad113x.cpp.

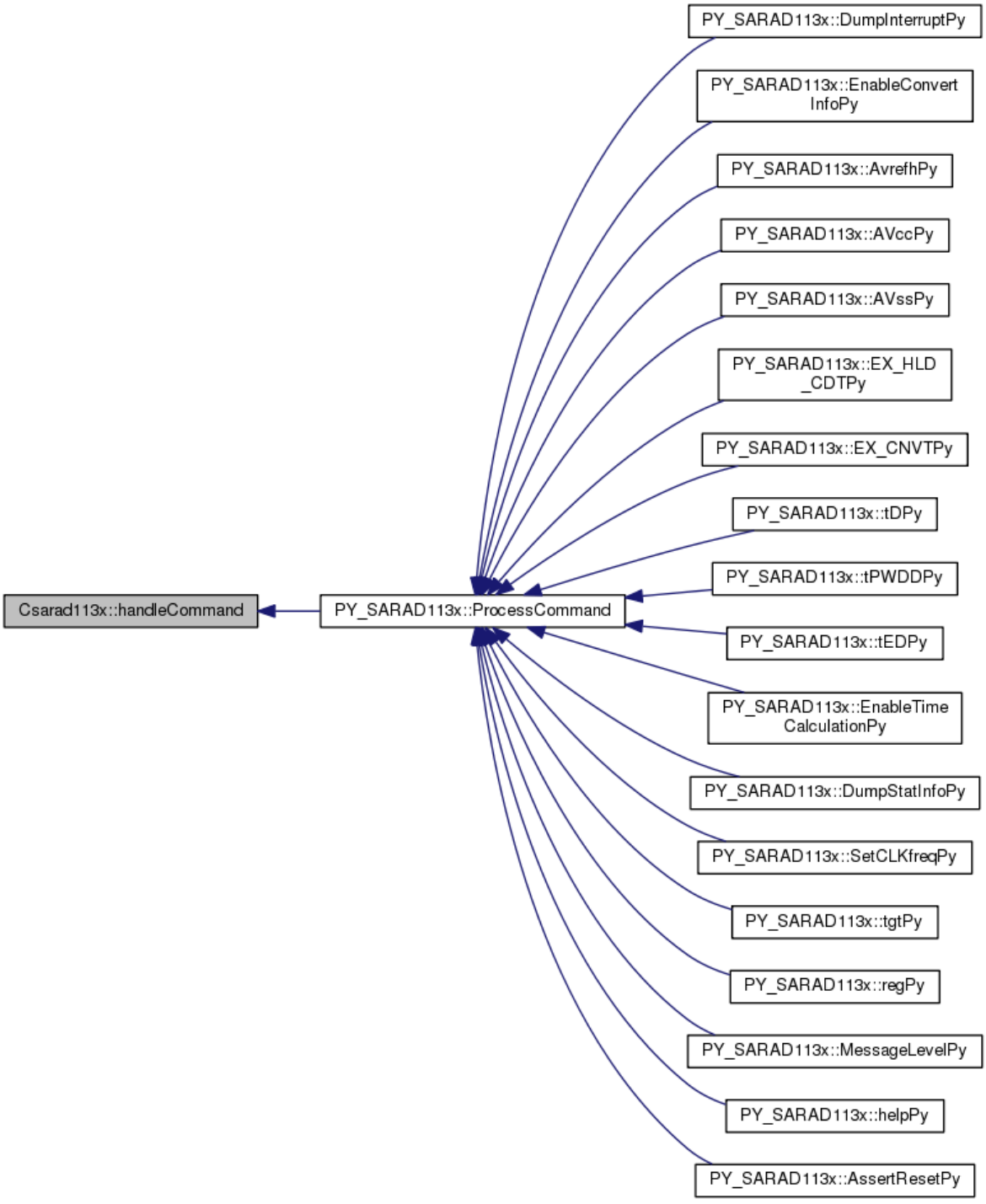
References mPWDATAVal.

std::string Csarad113x::handleCommand (const std::vector< std::string > & *args*) [inline]

Definition at line 60 of file sarad113x.h.

Referenced by PY_SARAD113x::ProcessCommand().

Here is the caller graph for this function:



void Csarad113x::HoldPortVal (unsigned int *group*) `[private]`

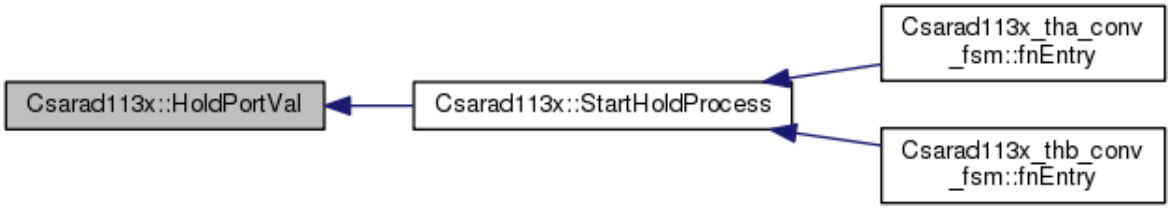
Definition at line 1203 of file sarad113x.cpp.

References emAllTHCh, emTHGroupA, emTHGroupB, GetANIPortVal(), mHoldPortVal, Csarad113x_regif::THER, and Csarad113x_regif::THGSR.

Referenced by StartHoldProcess().

Here is the call graph for this function:

Here is the caller graph for this function:



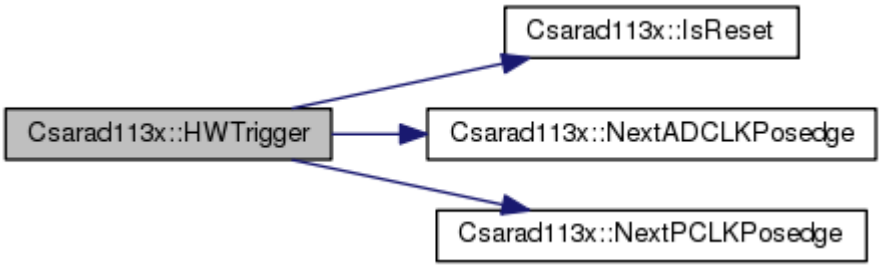
void Csarad113x::HWTrigger (unsigned int *sg*) `[private]`

Definition at line 1353 of file sarad113x.cpp.

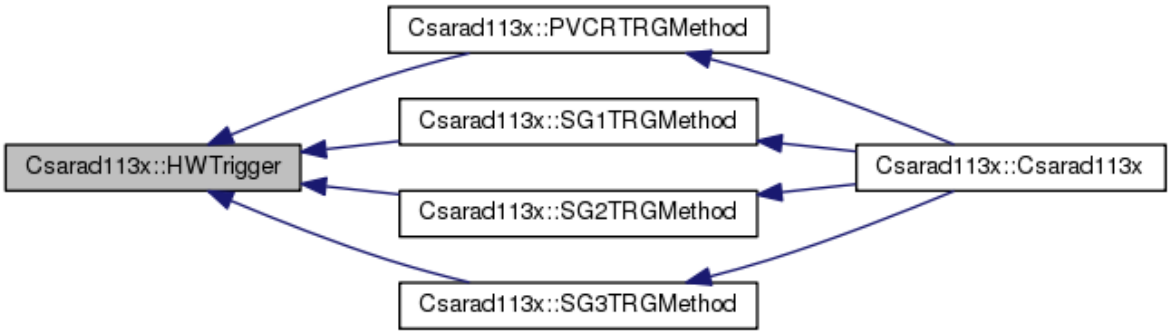
References emPWDSG, EnableTimeCalculation, IsReset(), mADCLKPeriod, mHWTriggerEvent, mPCLKPeriod, NextADCLKPosedge(), NextPCLKPosedge(), re_printf, and tPWDD.

Referenced by PVCRTRGMethod(), SG1TRGMethod(), SG2TRGMethod(), and SG3TRGMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



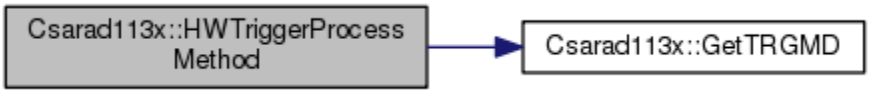
void Csarad113x::HWTriggerProcessMethod (unsigned int *sg*) [private]

Definition at line 1756 of file sarad113x.cpp.

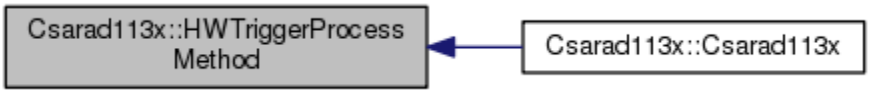
References GetTRGMD(), mCheckTriggerMethodEvent, and mIsHWTrigger.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::InitialAVREFHMethod (void) [private]

Definition at line 1748 of file sarad113x.cpp.

References Avrefh, AVREFH0, and mIsRefVolUpdate.

Referenced by Csarad113x().

Here is the caller graph for this function:

void Csarad113x::Initialize (void) [private]

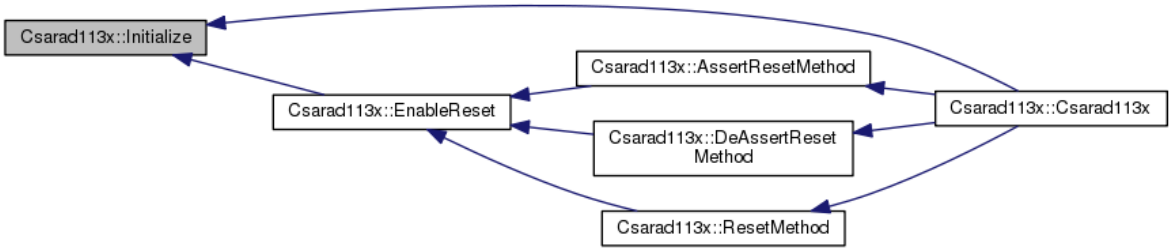
Definition at line 334 of file sarad113x.cpp.

References emAllSG, emPriority0, emSG1, emSG3, InitOperation(), mADEVal, mADOPControlVal, mINTActiveNum, mINTADEActiveNum, mIntrVal, mPrioritySet, mULEActiveNum, and mULEVal.

Referenced by Csarad113x(), and EnableReset().

Here is the call graph for this function:

Here is the caller graph for this function:



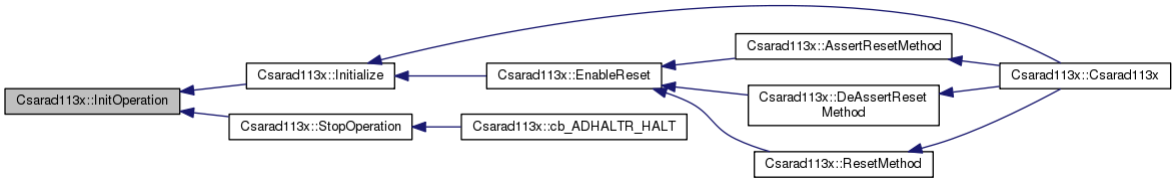
void Csarad113x::InitOperation (void) [private]

Definition at line 351 of file sarad113x.cpp.

References emAllSG, emAllTHCh, emDeassertAll, mADCATCNVnVal, mADData, mCheckTriggerMethodEvent, mCurrentAnalogVal, mCurrentSG, mCurrentStartVC, mCurrentTrigger, mEndVCConversionEvent, mFirstVC, mHoldPortVal, mHWTriggerEvent, mIsEnableStart, mIsFirstTimeConv, mIsHWTrigger, mIsLastRepetition, mIsOperating, mIsScanning, mIsSuspend, mIsSWTrigger, mLastVC, mNextVC, mPreviousVC, mPVCR_MUXCURVal, mRepetitionCount, mRepetitionTime, mScanFreqCount, mSGACTVal, mSHACTVal, mStartTHSamplingEvent, mStartTHSamplingTime, mStartTimeVC, mStartVCConversionEvent, mStartVCSamplingEvent, mSWTriggerEvent, mTSNStateControl, mULError, mUpdateConversionDataEvent, and mWriteADCATCNVControlEvent.

Referenced by Initialize(), and StopOperation().

Here is the caller graph for this function:



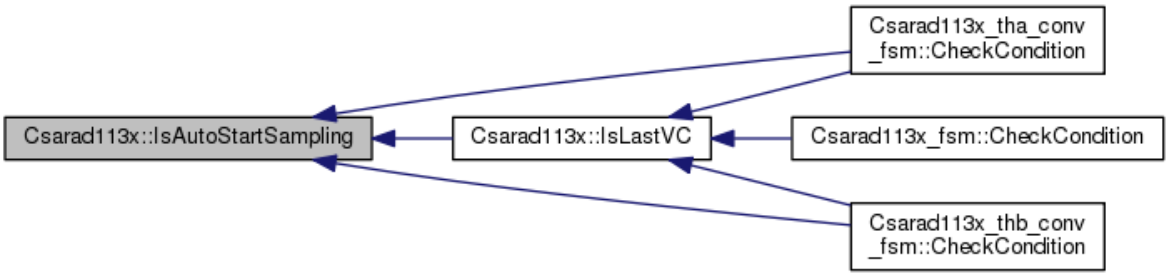
bool Csarad113x::IsAutoStartSampling (void) [private]

Definition at line 1269 of file sarad113x.cpp.

References Csarad113x_regif::THCR.

Referenced by Csarad113x_tha_conv_fsm::CheckCondition(), Csarad113x_thb_conv_fsm::CheckCondition(), and IsLastVC().

Here is the caller graph for this function:



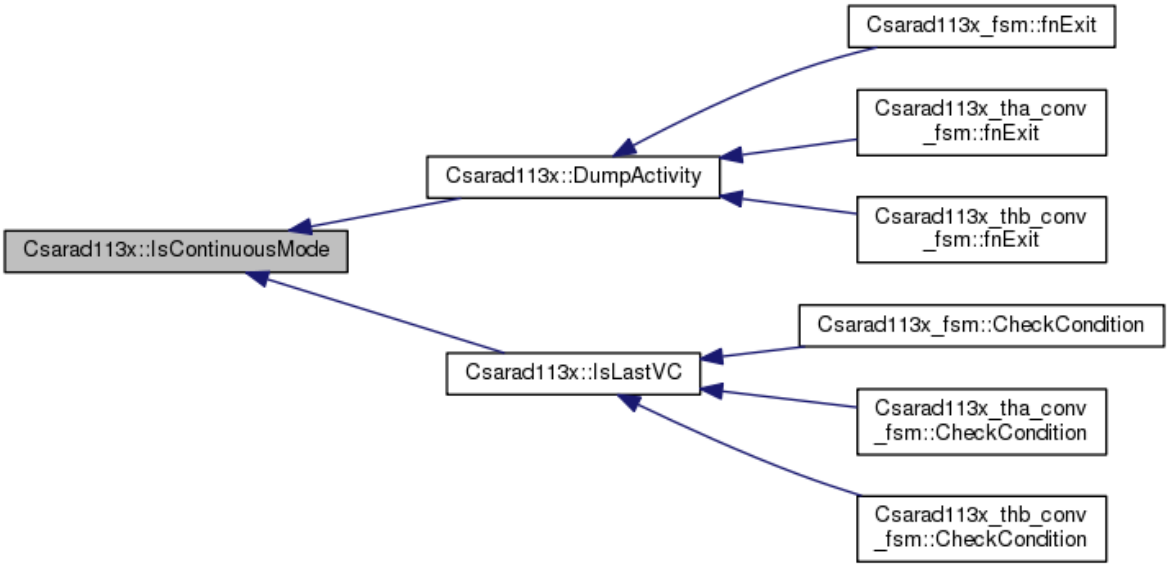
bool Csarad113x::IsContinuousMode (unsigned int *sg*) `[private]`

Definition at line 1383 of file sarad113x.cpp.

References emSG1, emSG3, and Csarad113x_regif::SGCR.

Referenced by DumpActivity(), and IsLastVC().

Here is the caller graph for this function:



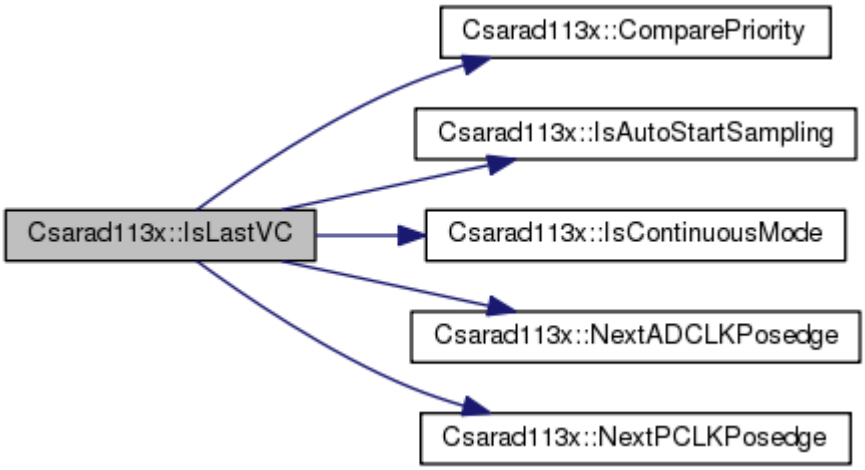
unsigned int Csarad113x::IsLastVC (unsigned int *sg*) `[private]`

Definition at line 950 of file sarad113x.cpp.

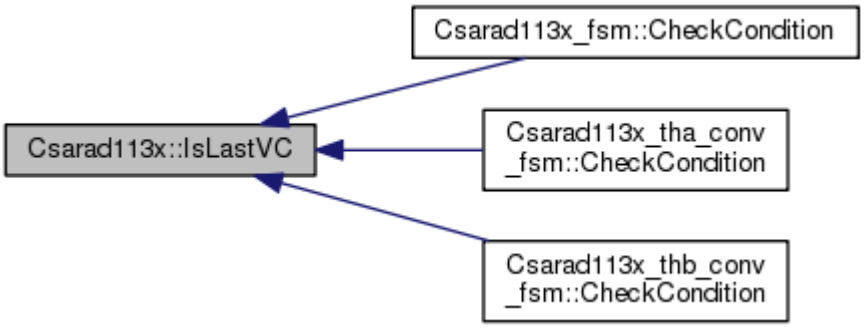
References ComparePriority(), emAllSG, emContinue, emLastVC, emPWDSG, emSuspend, emTSNSG, IsAutoStartSampling(), IsContinuousMode(), mADCATCNVnVal, mCurrentSG, mCurrentStartVC, mFirstVC, mIsHWTrigger, mIsLastRepetition, mIsScanning, mIsSWTrigger, mLastVC, mNextVC, mPCLKPeriod, mPreviousVC, mScanFreqCount, mSHACTVal, mUpdateSHACTEvent, mWriteADCATCNVControlEvent, NextADCLKPosedge(), NextPCLKPosedge(), Csarad113x_regif::SGMCYCR, Csarad113x_regif::SGVCEP, Csarad113x_regif::SGVCSP, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_fsm::CheckCondition(), Csarad113x_tha_conv_fsm::CheckCondition(), and Csarad113x_thb_conv_fsm::CheckCondition().

Here is the call graph for this function:



Here is the caller graph for this function:



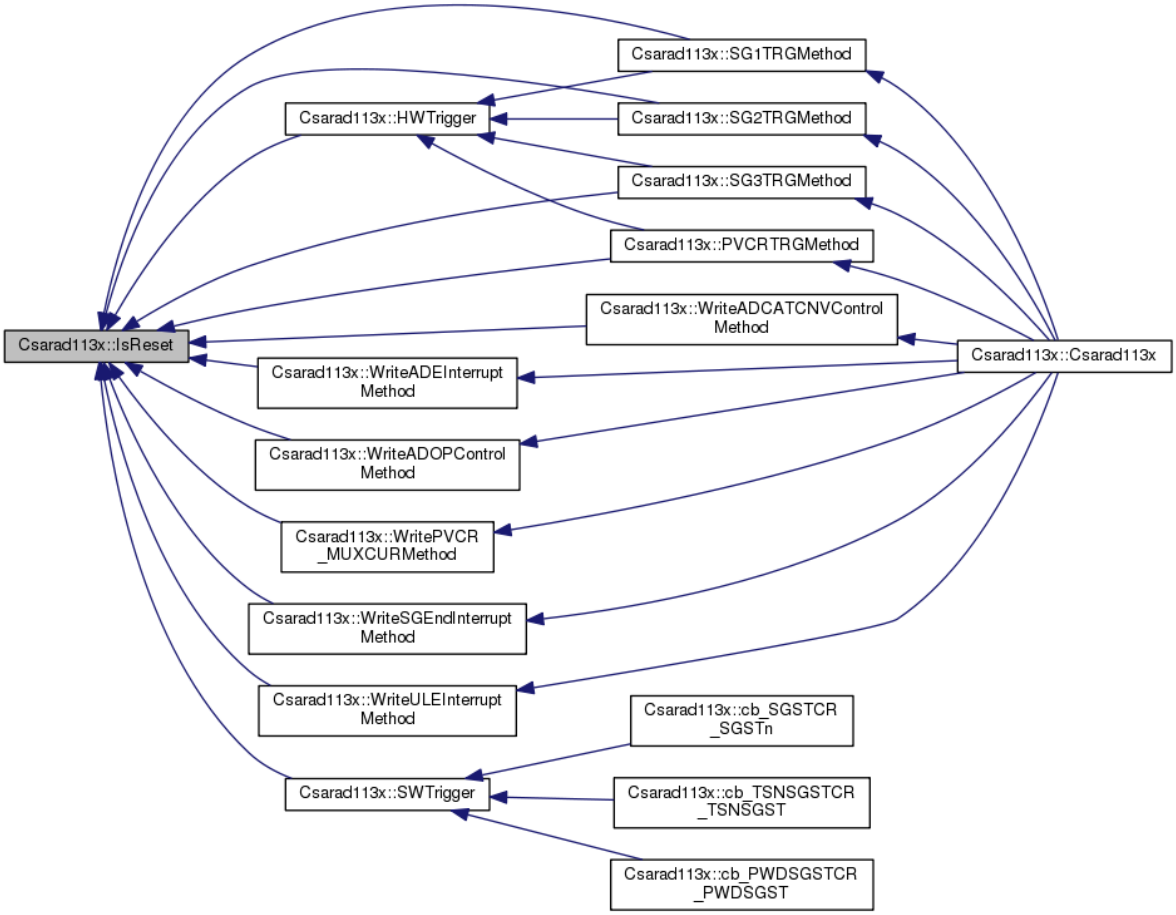
bool Csarad113x::IsReset (void) [private]

Definition at line 1122 of file sarad113x.cpp.

References mSARCmdResetFlag, and mSARPortResetFlag.

Referenced by HWTrigger(), PVCRTRGMethod(), SG1TRGMethod(), SG2TRGMethod(), SG3TRGMethod(), SWTrigger(), WriteADCATCNVControlMethod(), WriteADEInterruptMethod(), WriteADOPControlMethod(), WritePVCR_MUXCURMethod(), WriteSGEndInterruptMethod(), and WriteULEInterruptMethod().

Here is the caller graph for this function:



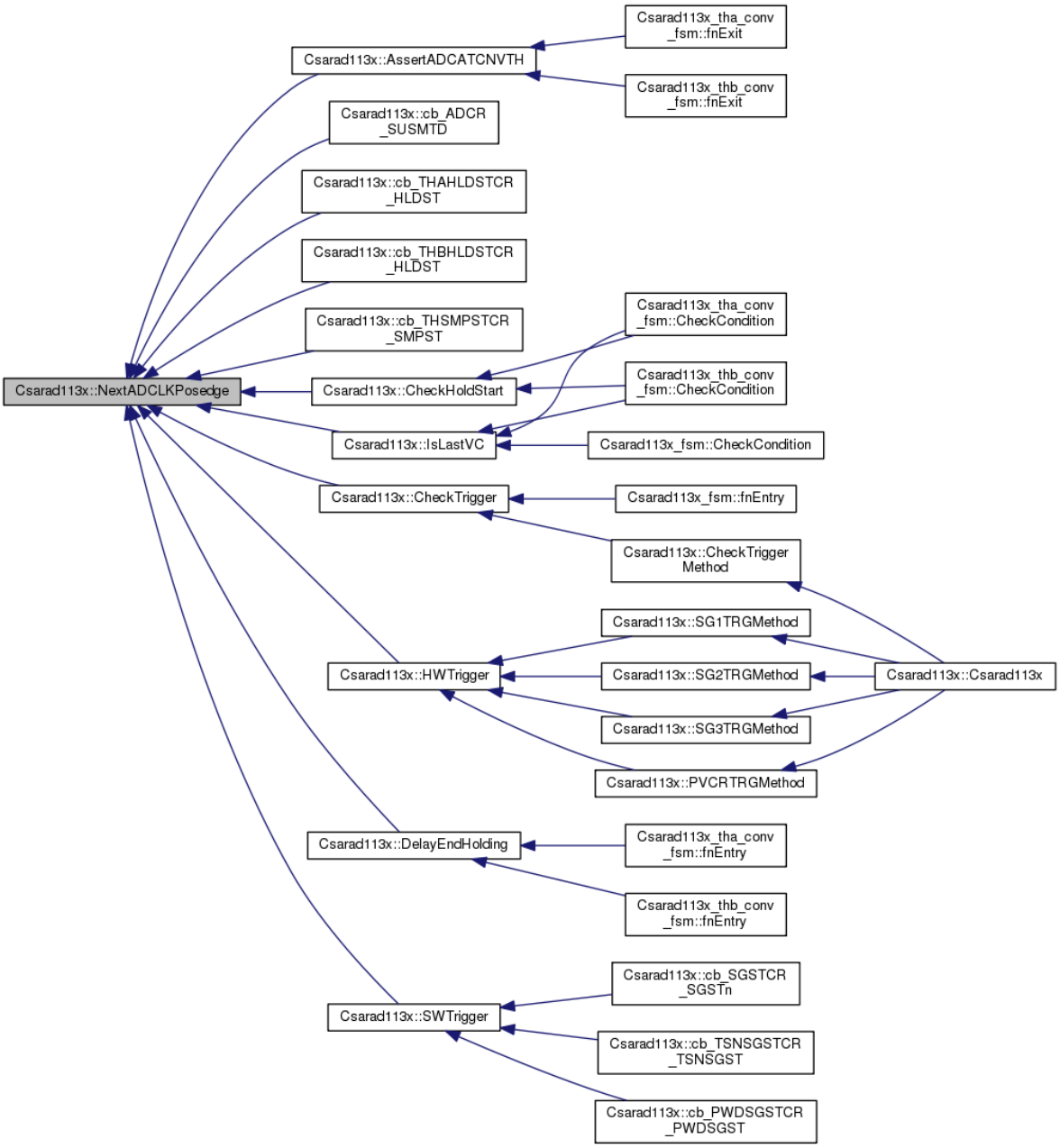
double Csarad113x::NextADCLKPosedge (double *offset*) `[private]`

Definition at line 505 of file sarad113x.cpp.

References mADCLKPeriod.

Referenced by AssertADCATCNVTH(), cb_ADCR_SUSMTD(), cb_THAHLDSTCR_HLDST(), cb_THBHLDSTCR_HLDST(), cb_THSMPSTCR_SMPST(), CheckHoldStart(), CheckTrigger(), DelayEndHolding(), HWTrigger(), IsLastVC(), and SWTrigger().

Here is the caller graph for this function:



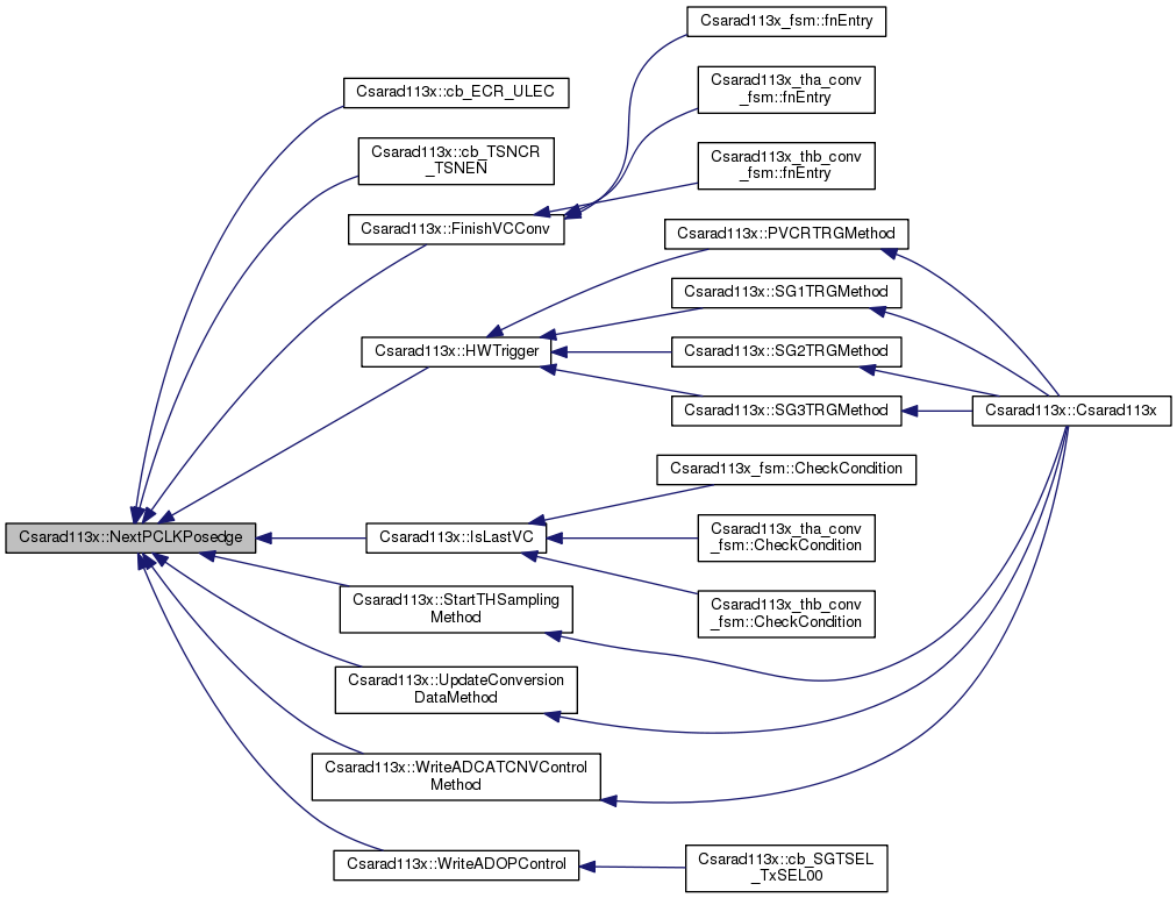
double Csarad113x::NextPCLKPosedge (double *offset*) `[private]`

Definition at line 490 of file sarad113x.cpp.

References mPCLKPeriod.

Referenced by cb_ECR_ULEC(), cb_TSNCR_TSNEN(), FinishVCConv(), HWTrigger(), IsLastVC(), StartTHSamplingMethod(), UpdateConversionDataMethod(), WriteADCATCNVControlMethod(), and WriteADOPControl().

Here is the caller graph for this function:



std::string Csarad113x::own_handle_command (std::vector< std::string > & *args*) `[inline]`, `[private]`

Definition at line 177 of file sarad113x.h.

void Csarad113x::PCLKMethod (void) `[private]`

Definition at line 1730 of file sarad113x.cpp.

References pclk, and SetCLKfreq().

Referenced by Csarad113x().

Here is the call graph for this function:

Here is the caller graph for this function:

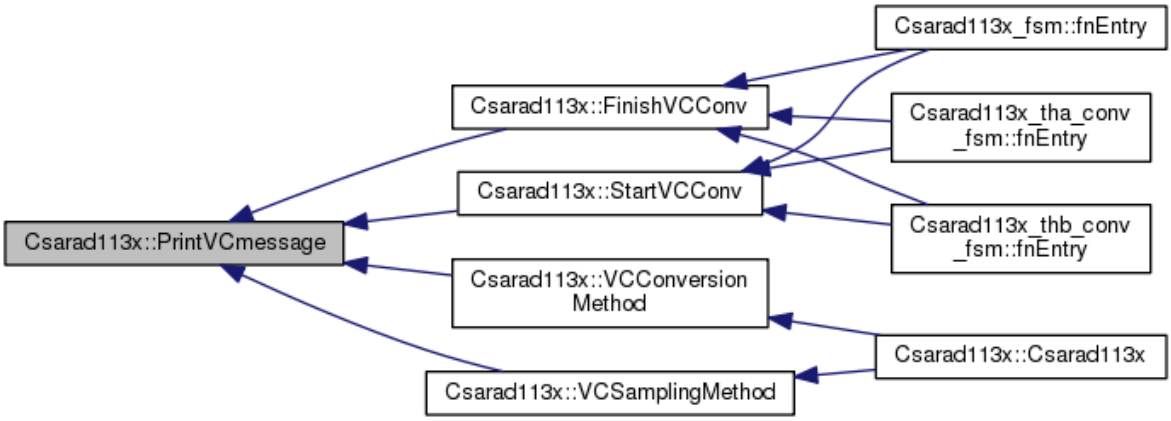
void Csarad113x::PrintVCmessage (std::string *msg*, unsigned int *sg*, unsigned int *vc_num*) [private]

Definition at line 1717 of file sarad113x.cpp.

References emPWDSG, emSG1, emSG3, and re_printf.

Referenced by FinishVCConv(), StartVCConv(), VCConversionMethod(), and VCSamplingMethod().

Here is the caller graph for this function:



void Csarad113x::PVCR_VALUEMethod (void) [private]

Definition at line 2124 of file sarad113x.cpp.

References PVCR_VALUE.

Referenced by Csarad113x().

Here is the caller graph for this function:

void Csarad113x::PVCRTRGMethod (void) [private]

Definition at line 2117 of file sarad113x.cpp.

References emPWDSG, HWTrigger(), IsReset(), mADCLKPeriod, mPCLKPeriod, and PVCR_TRG.

Referenced by Csarad113x().

Here is the call graph for this function:

Here is the caller graph for this function:

std::string Csarad113x::regif_handle_command (std::vector< std::string > & *args*) `[inline]`, `[private]`

Definition at line 774 of file sarad113x.h.

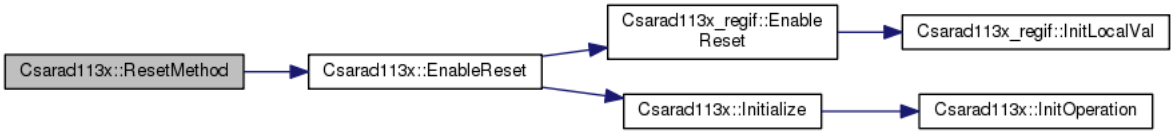
void Csarad113x::ResetMethod (void) `[private]`

Definition at line 1957 of file sarad113x.cpp.

References EnableReset(), mCmdCancelResetEvent, mCmdResetEvent, mIsInitialize, mSARCmdResetFlag, mSARPortResetFlag, preset_n, and re_printf.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

void Csarad113x::ResumeTH (void) `[private]`

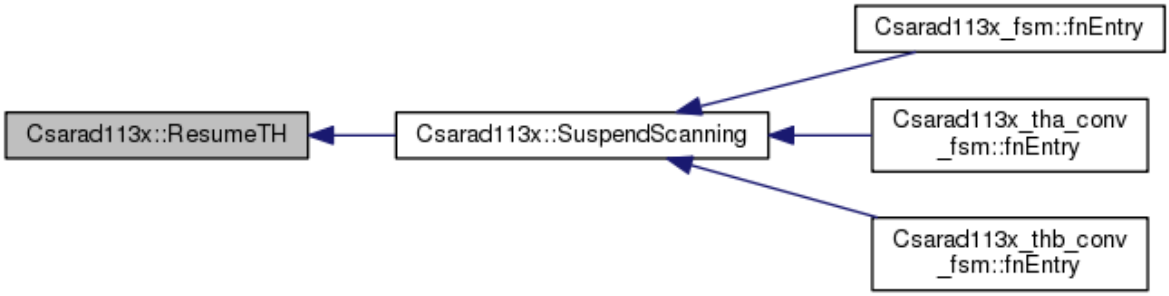
Definition at line 1245 of file sarad113x.cpp.

References emTHGroupA, emTHGroupB, mADCLKPeriod, mCheckTriggerMethodEvent, mCurrentSG, SetCurrentSG(), Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by SuspendScanning().

Here is the call graph for this function:

Here is the caller graph for this function:



void Csarad113x::SARAD113xFSMInit (void) `[inline], [private]`

Definition at line 30 of file sarad113x.h.

Referenced by Csarad113x().

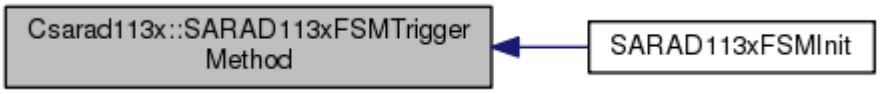
Here is the caller graph for this function:

void Csarad113x::SARAD113xFSMTriggerMethod (unsigned int *event_code*) `[inline], [private]`

Definition at line 42 of file sarad113x.h.

Referenced by SARAD113xFSMInit().

Here is the caller graph for this function:



Csarad113x::SC_HAS_PROCESS (Csarad113x)

void Csarad113x::SetCLKfreq (std::string *clk_name*, double *clk_freq*) `[private]`

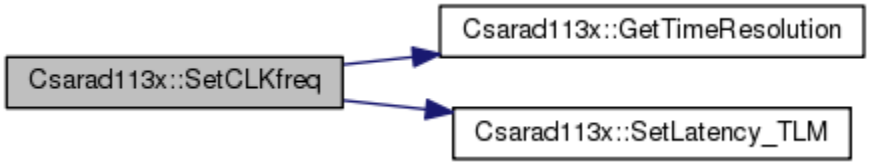
Definition at line 2457 of file sarad113x.cpp.

References emAllSG, emDeassertAll, Csarad113x_fsm::emEvtHaltTrigger, emNanoSecond, GetTimeResolution(), mADCLKPeriod, mCheckTriggerMethodEvent, mEndVCConversionEvent, mHWTriggerEvent, mIsHWTrigger, mIsOperating, mIsSWTrigger, mPCLKPeriod, mSARAD113xFSMEvent, mStartTHSamplingEvent, mStartVCConversionEvent,

mStartVCSamplingEvent, mSWTriggerEvent, mTSNStateControl, mUpdateConversionDataEvent, mUpdateSGACTEvent, mWriteADCATCNVControlEvent, mWriteADOPControlEvent, mWritePVCR_MUXCUREvent, re_printf, and SetLatency_TLM().

Referenced by ADCLKMethod(), and PCLKMethod().

Here is the call graph for this function:



Here is the caller graph for this function:

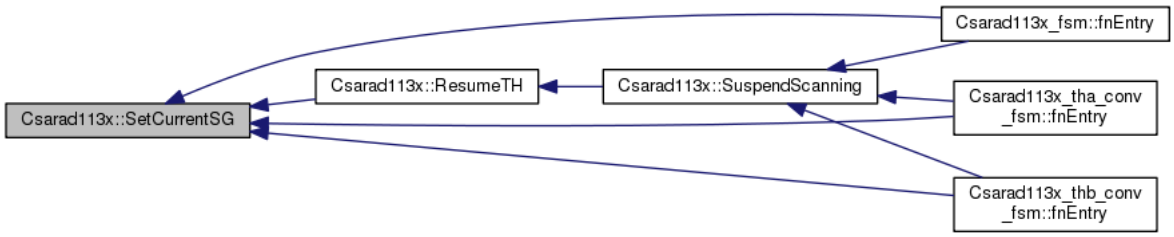
void Csarad113x::SetCurrentSG (unsigned int *group*, bool *is_th*) [private]

Definition at line 646 of file sarad113x.cpp.

References emTHGroupA, mCurrentSG, mCurrentTrigger, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), Csarad113x_thb_conv_fsm::fnEntry(), and ResumeTH().

Here is the caller graph for this function:

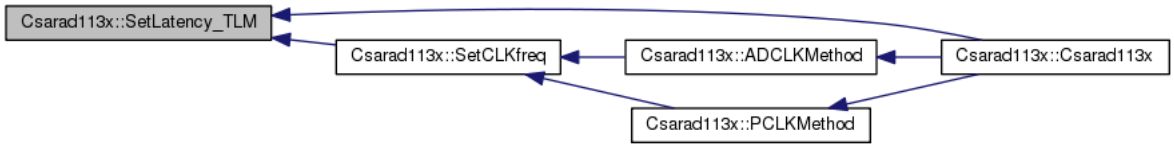


void Csarad113x::SetLatency_TLM (const double *pclk_period*, const bool *is_constructor*) [private]

Definition at line 2540 of file sarad113x.cpp.

Referenced by Csarad113x(), and SetCLKfreq().

Here is the caller graph for this function:



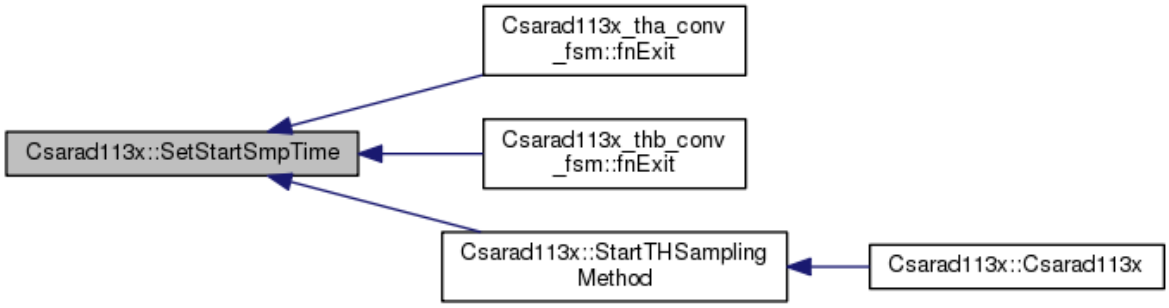
void Csarad113x::SetStartSmpTime (unsigned int *channel*) [private]

Definition at line 1077 of file sarad113x.cpp.

References emAllTHCh, mStartTHSamplingTime, and Csarad113x_regif::THER.

Referenced by Csarad113x_tha_conv_fsm::fnExit(), Csarad113x_thb_conv_fsm::fnExit(), and StartTHSamplingMethod().

Here is the caller graph for this function:



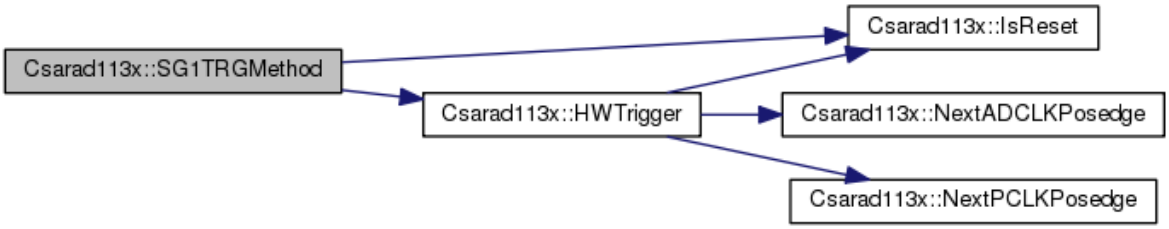
void Csarad113x::SG1TRGMethod (void) [private]

Definition at line 2096 of file sarad113x.cpp.

References emSG1, HWTrigger(), IsReset(), mADCLKPeriod, mPCLKPeriod, and SG1_TRG.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

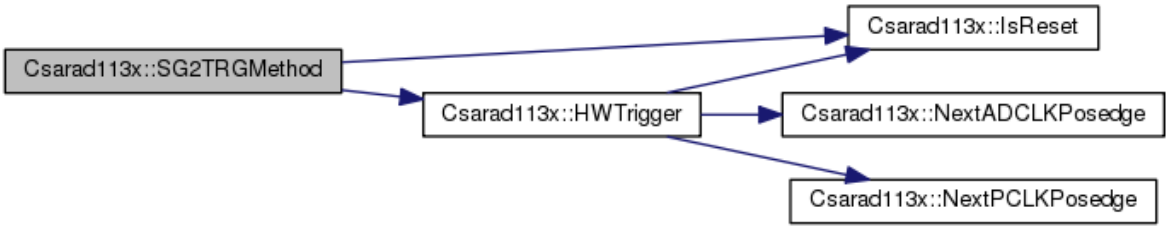
void Csarad113x::SG2TRGMethod (void) [private]

Definition at line 2103 of file sarad113x.cpp.

References emSG2, HWTrigger(), IsReset(), mADCLKPeriod, mPCLKPeriod, and SG2_TRG.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

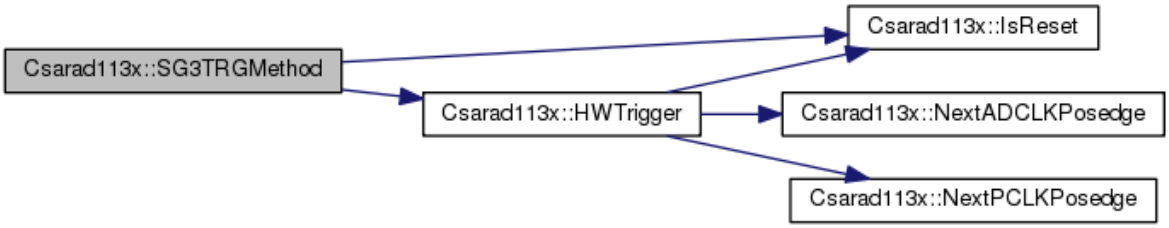
void Csarad113x::SG3TRGMethod (void) [private]

Definition at line 2110 of file sarad113x.cpp.

References emSG3, HWTrigger(), IsReset(), mADCLKPeriod, mPCLKPeriod, and SG3_TRG.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

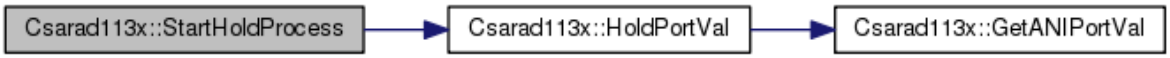
void Csarad113x::StartHoldProcess (unsigned int *group*) [private]

Definition at line 1188 of file sarad113x.cpp.

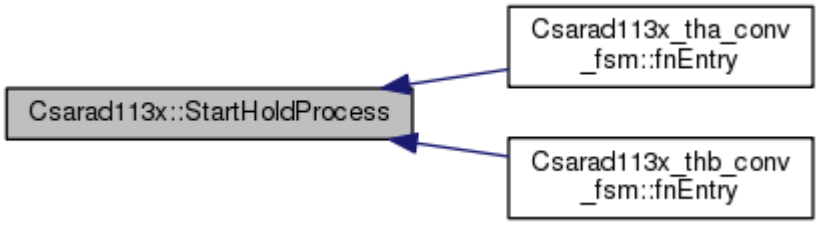
References Csarad113x_fsm::emEvtTHAHoldComplete, Csarad113x_fsm::emEvtTHBHoldComplete, emTHGroupA, EX_HLD_CDT, HoldPortVal(), mADCLKPeriod, mSARAD113xFSMEvent, and re_printf.

Referenced by Csarad113x_tha_conv_fsm::fnEntry(), and Csarad113x_thb_conv_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



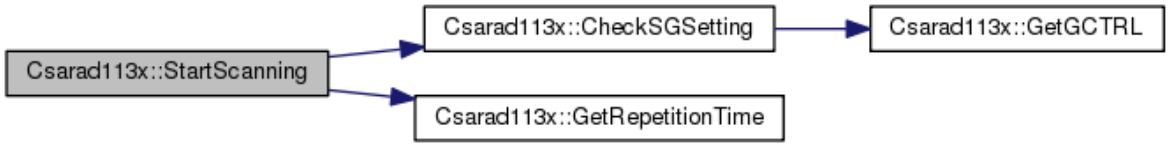
void Csarad113x::StartScanning (unsigned int *sg*, bool *is_th*) `[private]`

Definition at line 660 of file sarad113x.cpp.

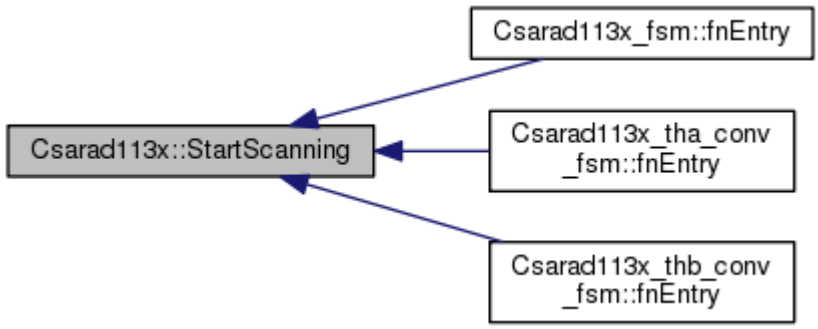
References CheckSGSetting(), emMinStartTSNConv, emTSNSG, GetRepetitionTime(), mAccessTimeTSNCR, mADCATCNVnVal, mADCLKPeriod, mCurrentSG, mIsEnableStart, mIsHWTrigger, mIsScanning, mIsSWTrigger, mRepetitionCount, mRepetitionTime, mWriteADCATCNVControlEvent, re_printf, and Csarad113x_regif::TSNCR.

Referenced by Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), and Csarad113x_thb_conv_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



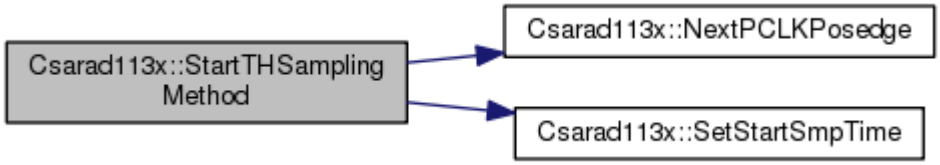
void Csarad113x::StartTHSamplingMethod (void) [private]

Definition at line 1786 of file sarad113x.cpp.

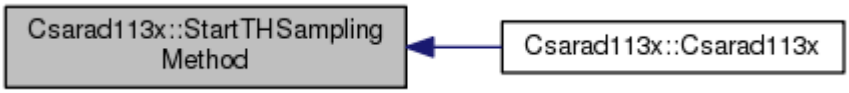
References emAllTHCh, Csarad113x_fsm::emEvtTHAStartSampling, Csarad113x_fsm::emEvtTHBStartSampling, Csarad113x_fsm::emEvtTHStartSampling, mPCLKPeriod, mSARAD113xFSMEvent, mSHACTVal, mUpdateSHACTEvent, NextPCLKPosedge(), re_printf, and SetStartSmpTime().

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



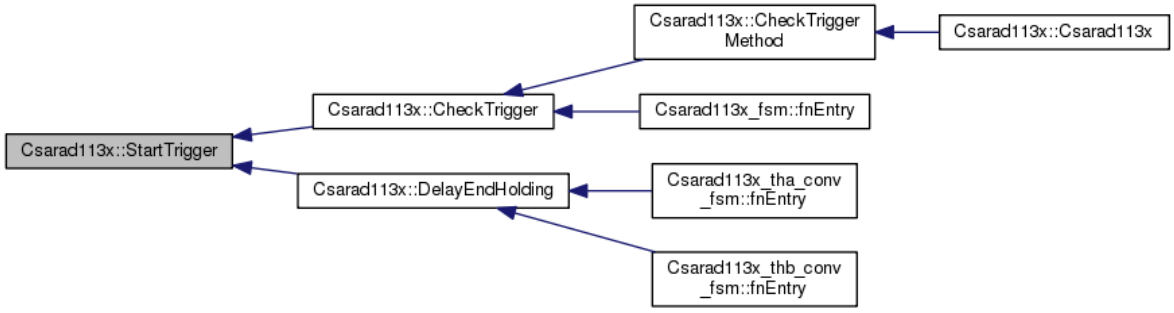
void Csarad113x::StartTrigger (unsigned int *sg*, double *delay_time*) [private]

Definition at line 1227 of file sarad113x.cpp.

References Csarad113x_fsm::emEvtStartSG0Trigger, Csarad113x_fsm::emEvtStartSG1Trigger, Csarad113x_fsm::emEvtStartSG2Trigger, Csarad113x_fsm::emEvtStartSG3Trigger, Csarad113x_fsm::emEvtStartSG4Trigger, emPWDSG, emSG1, emSG2, emSG3, emTSNSG, and mSARAD113xFSMEvent.

Referenced by CheckTrigger(), and DelayEndHolding().

Here is the caller graph for this function:



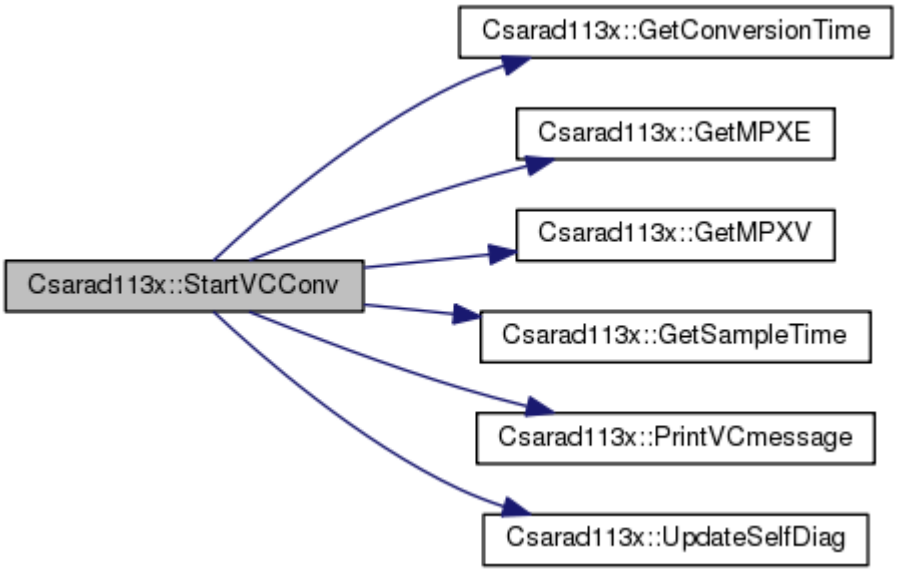
void Csarad113x::StartVCConv (unsigned int *sg*) [private]

Definition at line 863 of file sarad113x.cpp.

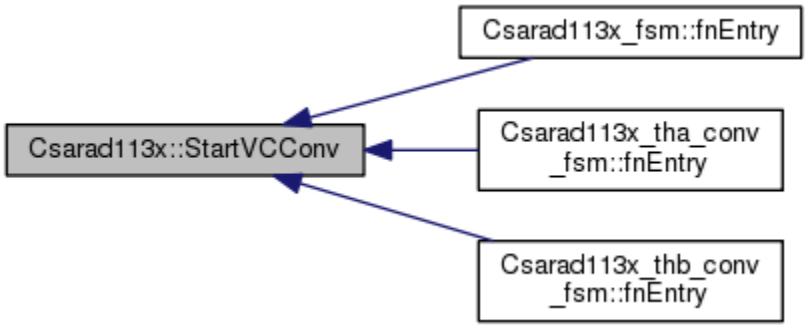
References Csarad113x_regif::ADCR, emAssertTSSW, emSG1, emSG2, emSG3, emTSNSG, GetConversionTime(), GetMPXE(), GetMPXV(), GetSampleTime(), mADCLKPeriod, mCurrentStartVC, mIsFirstTimeConv, mNextVC, mPVCR_MUXCURVal, mRepetitionCount, mStartTimeVC, mStartVCSamplingEvent, mTSNStateControl, mWritePVCR_MUXCUREvent, PrintVCmessage(), and UpdateSelfDiag().

Referenced by Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), and Csarad113x_thb_conv_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::StopOperation (void) [private]

Definition at line 1398 of file sarad113x.cpp.

References emAllSG, emSG1, emSG3, InitOperation(), mFirstVC, mLastVC, mNextVC, mWriteADCATCNVControlEvent, re_printf, Csarad113x_regif::SGVCEP, and Csarad113x_regif::SGVCSP.

Referenced by cb_ADHALTR_HALT().

Here is the call graph for this function:

Here is the caller graph for this function:

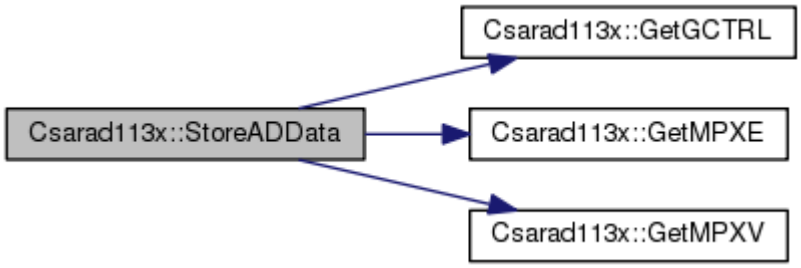
bool Csarad113x::StoreADData (unsigned int *data*, unsigned int *sg*, unsigned int *vc_num*) [private]

Definition at line 1523 of file sarad113x.cpp.

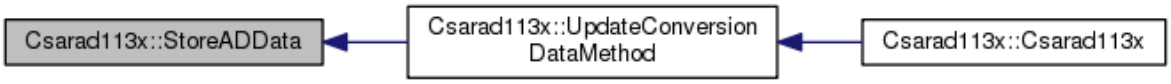
References Csarad113x_regif::DIR, Csarad113x_regif::DR, emDRMask0, emDRMask1, emPWDSG, emSG1, emSG3, GetGCTRL(), GetMPXE(), and GetMPXV().

Referenced by UpdateConversionDataMethod().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Csarad113x::str2dbl (std::string *str*, double & *num*) [inline], [private]

Definition at line 1025 of file sarad113x.h.

bool Csarad113x::str2num (std::string *str*, bool & *num*) [inline], [private]

Definition at line 918 of file sarad113x.h.

bool Csarad113x::str2num (std::string *str*, char & *num*) [inline], [private]

Definition at line 952 of file sarad113x.h.

bool Csarad113x::str2num (std::string *str*, unsigned char & *num*) `[inline]`, `[private]`

Definition at line 976 of file sarad113x.h.

template<typename T > bool Csarad113x::str2num (std::string *str*, T & *num*) `[inline]`, `[private]`

Definition at line 1001 of file sarad113x.h.

std::vector<std::string> Csarad113x::str2vec (std::string *str*, const char *sep*) `[inline]`, `[private]`

Definition at line 1083 of file sarad113x.h.

bool Csarad113x::strmatch (const char * *ptn*, const char * *str*) `[inline]`, `[private]`

Definition at line 1250 of file sarad113x.h.

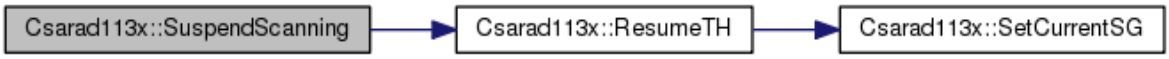
void Csarad113x::SuspendScanning (unsigned int *group*, bool *is_th*) `[private]`

Definition at line 815 of file sarad113x.cpp.

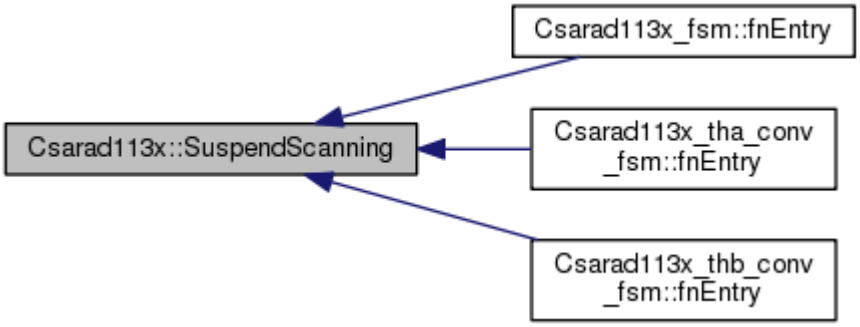
References emAllSG, emDeassertAll, Csarad113x_fsm::emStTH_SUSPEND, emTHGroupA, emTHGroupB, emTSNSG, Cfsm_base::mCurrentState, mEndVCConversionEvent, mIsScanning, mIsSuspend, mStartVCConversionEvent, mStartVCSamplingEvent, mTSNStateControl, pCsarad113x_fsm, re_printf, ResumeTH(), Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), and Csarad113x_thb_conv_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



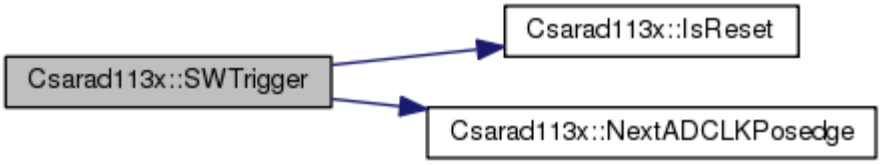
void Csarad113x::SWTrigger (unsigned int *sg*) [private]

Definition at line 1369 of file sarad113x.cpp.

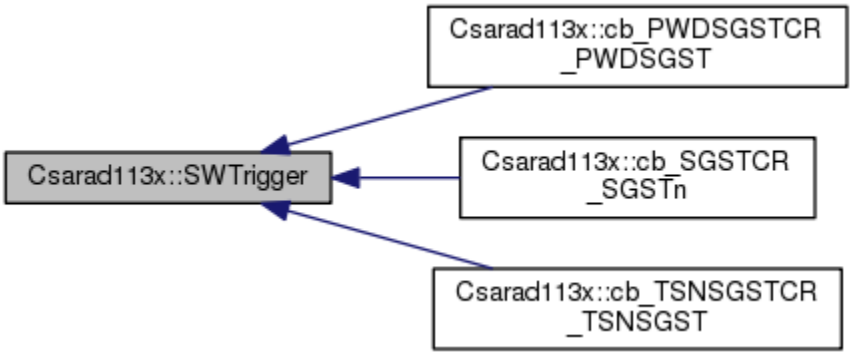
References EnableTimeCalculation, IsReset(), mADCLKPeriod, mPCLKPeriod, mSWTriggerEvent, NextADCLKPosedge(), re_printf, and tD.

Referenced by cb_PWDSGSTCR_PWDSGST(), cb_SGSTCR_SGSTn(), and cb_TSNSGSTCR_TSNSGST().

Here is the call graph for this function:



Here is the caller graph for this function:



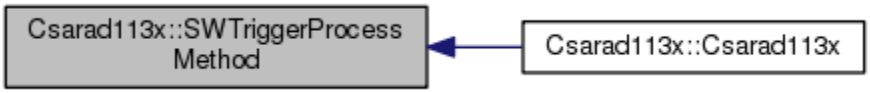
void Csarad113x::SWTriggerProcessMethod (unsigned int *sg*) [private]

Definition at line 1764 of file sarad113x.cpp.

References mCheckTriggerMethodEvent, and mIsSWTrigger.

Referenced by Csarad113x().

Here is the caller graph for this function:

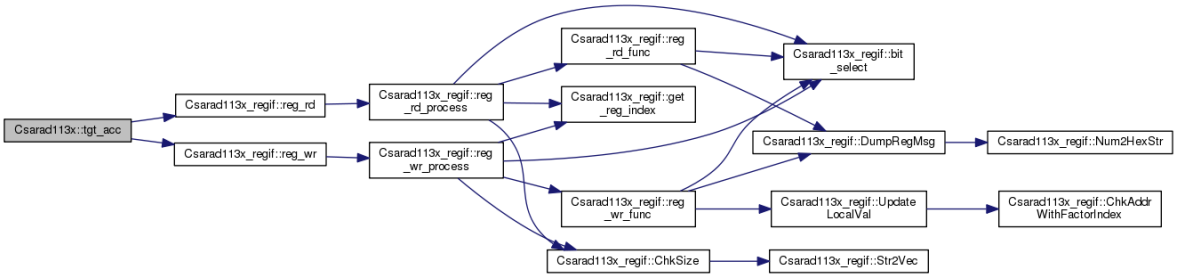


void Csarad113x::tgt_acc (tlm::tlm_generic_payload & *trans*, sc_time & *t*) [private]

Definition at line 403 of file sarad113x.cpp.

References mPWDATAVal, mWrittenPWDATAEvent, Csarad113x_regif::reg_rd(), and Csarad113x_regif::reg_wr().

Here is the call graph for this function:

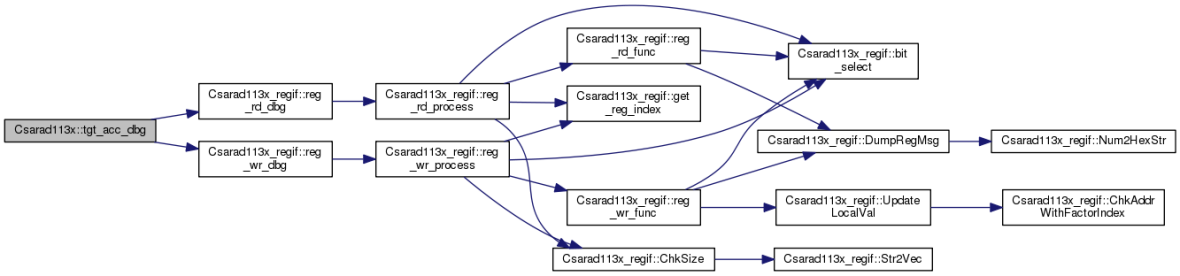


unsigned int Csarad113x::tgt_acc_dbg (tlm::tlm_generic_payload & *trans*) [private]

Definition at line 439 of file sarad113x.cpp.

References mPWDATAVal, mWrittenPWDATAEvent, Csarad113x_regif::reg_rd_dbg(), and Csarad113x_regif::reg_wr_dbg().

Here is the call graph for this function:



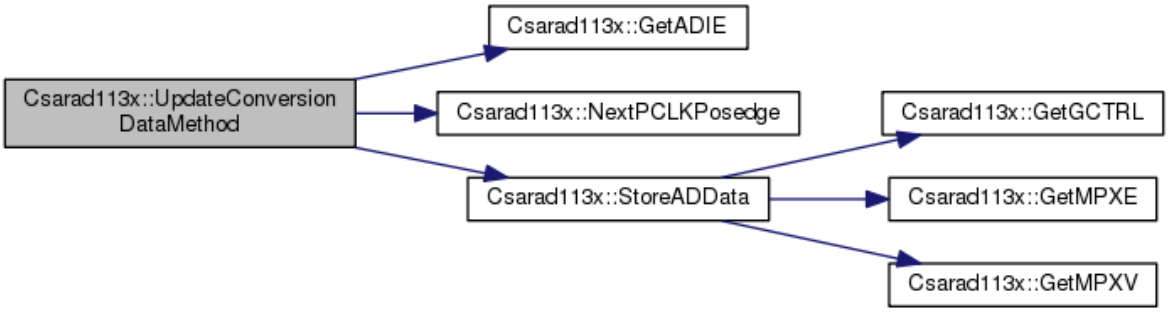
void Csarad113x::UpdateConversionDataMethod (unsigned int *sg*) [private]

Definition at line 1860 of file sarad113x.cpp.

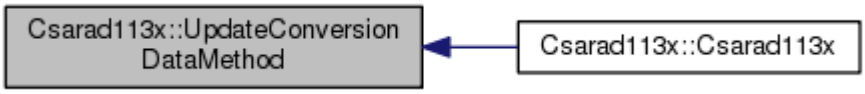
References emPWDSG, emTSNOWECAP, emTSNSG, GetADIE(), mADData, mADEVal, mIntrVal, mIsLastRepetition, mLastVC, mPCLKPeriod, mPreviousVC, mULError, mULEVal, mWriteADEInterruptEvent, mWriteSGEndInterruptEvent, mWriteULEInterruptEvent, NextPCLKPosedge(), Csarad113x_regif::OWER, re_printf, Csarad113x_regif::SFTCR, Csarad113x_regif::SGCR, Csarad113x_regif::SGSTR, StoreADData(), and Csarad113x_regif::ULER.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



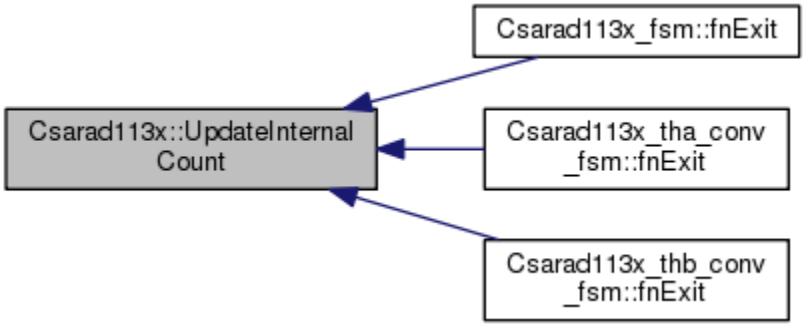
void Csarad113x::UpdateInternalCount (unsigned int *sg*) [private]

Definition at line 924 of file sarad113x.cpp.

References emSG1, emSG3, mLastVC, mPreviousVC, mRepetitionCount, mRepetitionTime, mScanFreqCount, and Csarad113x_regif::SGMCYCR.

Referenced by Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), and Csarad113x_thb_conv_fsm::fnExit().

Here is the caller graph for this function:



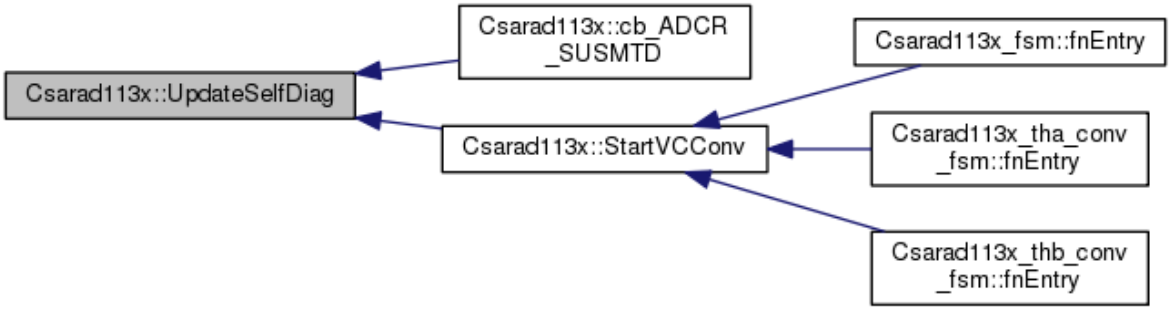
void Csarad113x::UpdateSelfDiag (void) [private]

Definition at line 589 of file sarad113x.cpp.

References AVcc, AVss, Csarad113x_regif::DGCTL0, mDGOUTAD, and mDGOUTSH.

Referenced by cb_ADCR_SUSMTD(), and StartVCConv().

Here is the caller graph for this function:



void Csarad113x::UpdateSGACTMethod (unsigned int *sg*) `[private]`

Definition at line 1775 of file sarad113x.cpp.

References mIsOperating, mSGACTVal, and Csarad113x_regif::SGSTR.

Referenced by Csarad113x().

Here is the caller graph for this function:

void Csarad113x::UpdateSHACTMethod (void) `[private]`

Definition at line 1781 of file sarad113x.cpp.

References mSHACTVal.

Referenced by Csarad113x().

Here is the caller graph for this function:

std::string Csarad113x::user_def_command (std::vector< std::string > & *args*) `[inline], [private]`

Definition at line 445 of file sarad113x.h.

void Csarad113x::VCConversionMethod (void) `[private]`

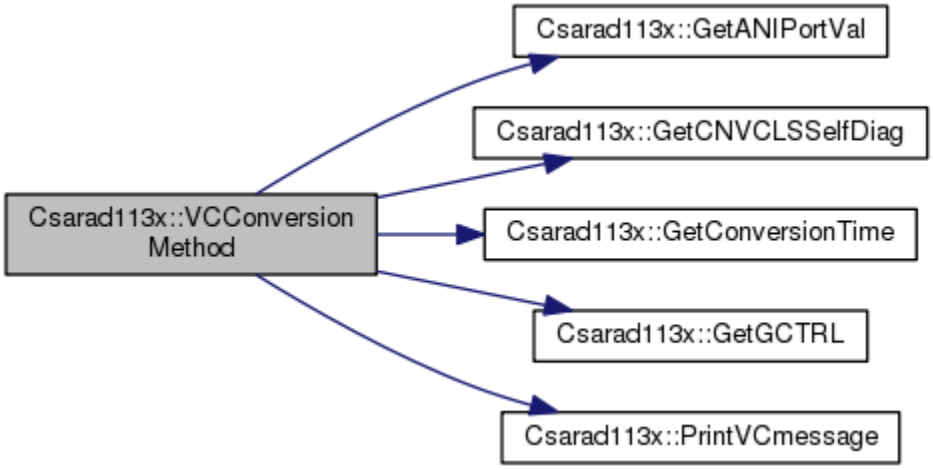
Definition at line 1806 of file sarad113x.cpp.

References Csarad113x_regif::ADCR, emAllTHCh, GetANIPortVal(), GetCNVCLSSelfDiag(), GetConversionTime(), GetGCTRL(), mADCLKPeriod, mADData, mCurrentAnalogVal, mCurrentSG, mCurrentStartVC, mEndVCConversionEvent, mHoldPortVal, mIsLastRepetition, mRepetitionCount,

mRepetitionTime, mULError, PrintVCmessage(), Csarad113x_regif::THACR, Csarad113x_regif::THBCR, and Csarad113x_regif::THER.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

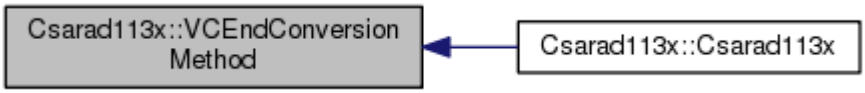
void Csarad113x::VCEndConversionMethod (void) [private]

Definition at line 1846 of file sarad113x.cpp.

References Csarad113x_fsm::emEvtFinishVCConversion, Csarad113x_fsm::emEvtTHAFinishVCConversion, Csarad113x_fsm::emEvtTHBFinishVCConversion, mCurrentSG, mSARAD113xFSMEvent, Csarad113x_regif::THACR, and Csarad113x_regif::THBCR.

Referenced by Csarad113x().

Here is the caller graph for this function:



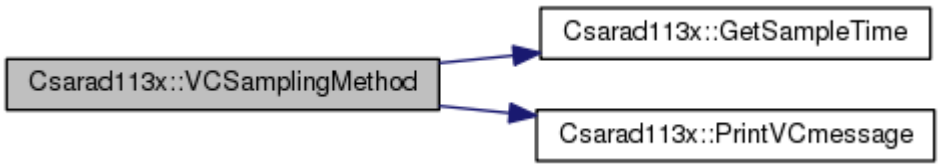
void Csarad113x::VCSamplingMethod (void) [private]

Definition at line 1799 of file sarad113x.cpp.

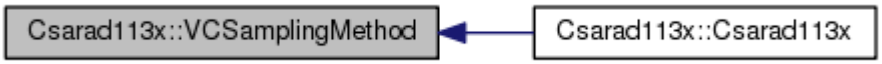
References GetSampleTime(), mCurrentSG, mCurrentStartVC, mStartVCConversionEvent, and PrintVCmessage().

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



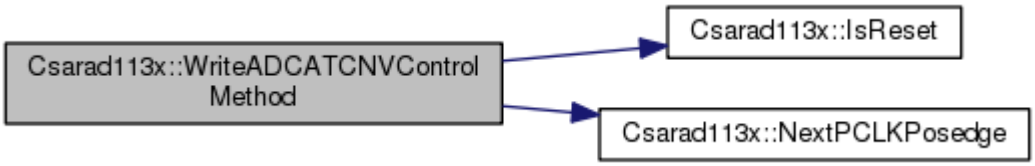
void Csarad113x::WriteADCATCNVControlMethod (unsigned int *sg*) [private]

Definition at line 2169 of file sarad113x.cpp.

References ADCATCNV0, ADCATCNV1, ADCATCNV2, ADCATCNV3, ADCATCNV4, emPWDSG, emSG1, emSG2, emSG3, emTSNSG, IsReset(), mADCATCNVnVal, mADCLKPeriod, mPCLKPeriod, mSGACTVal, mUpdateSGACTEvent, and NextPCLKPosedge().

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

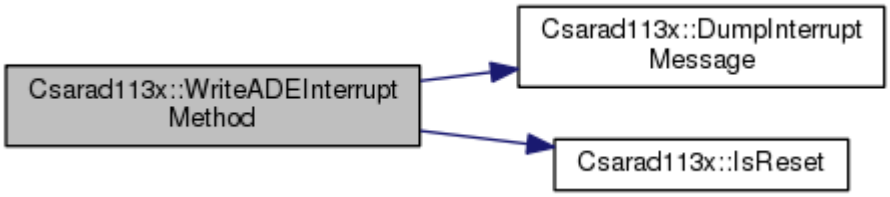
void Csarad113x::WriteADEInterruptMethod (void) [private]

Definition at line 2269 of file sarad113x.cpp.

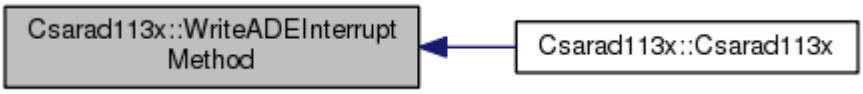
References DumpInterruptMessage(), INT_ADE, IsReset(), mADEVal, mINTADEActiveNum, mPCLKPeriod, and mWriteADEInterruptEvent.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x::WriteADOPControl (const unsigned int *sg*) [private]

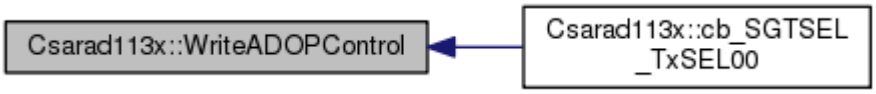
Definition at line 483 of file sarad113x.cpp.

References mADOPControlVal, mWriteADOPControlEvent, and NextPCLKPosedge().

Referenced by cb_SGTSEL_TxSEL00().

Here is the call graph for this function:

Here is the caller graph for this function:



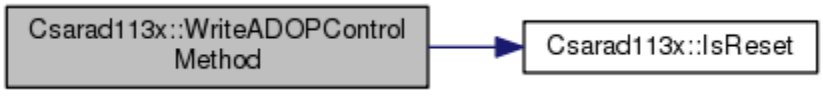
void Csarad113x::WriteADOPControlMethod (void) [private]

Definition at line 2133 of file sarad113x.cpp.

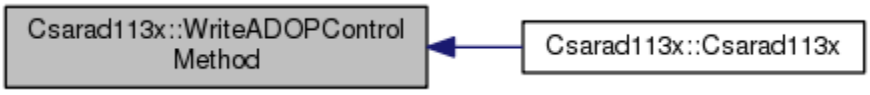
References ADOP_OPA1_WEN, ADOP_OPA2_WEN, ADOP_OPA3_WEN, emSG1, emSG3, IsReset(), mADCLKPeriod, mADOPControlVal, mPCLKPeriod, and mWriteADOPControlEvent.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



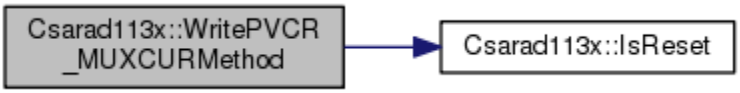
void Csarad113x::WritePVCR_MUXCURMethod (void) [private]

Definition at line 2160 of file sarad113x.cpp.

References IsReset(), mPVCR_MUXCURVal, and PVCR_MUXCUR.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:

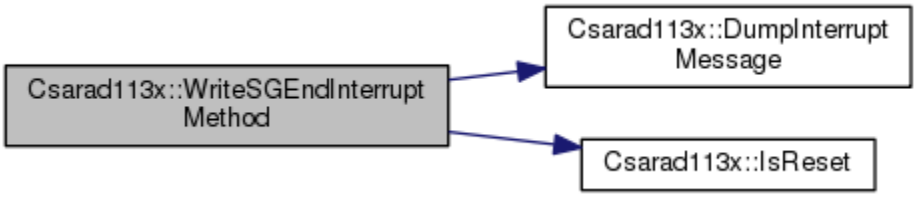
void Csarad113x::WriteSGEndInterruptMethod (unsigned int *sg*) [private]

Definition at line 2205 of file sarad113x.cpp.

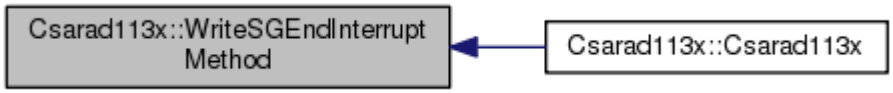
References DumpInterruptMessage(), emPWDSG, emSG1, emSG2, emSG3, emTSNSG, INT_SG1, INT_SG2, INT_SG3, INT_TSN, IsReset(), mINTActiveNum, mIntrVal, mPCLKPeriod, mWriteSGEndInterruptEvent, and PVCR_END.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



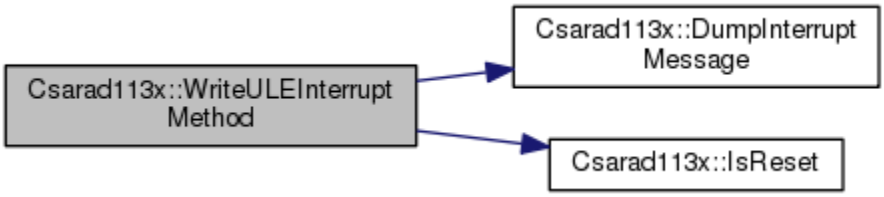
void Csarad113x::WriteULEInterruptMethod (void) [private]

Definition at line 2256 of file sarad113x.cpp.

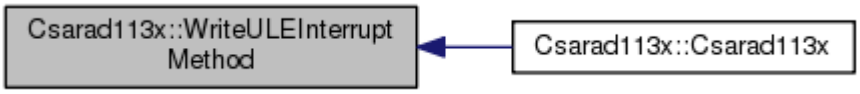
References DumpInterruptMessage(), IsReset(), mULEActiveNum, mULEVal, and ULE.

Referenced by Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



Friends And Related Function Documentation

friend class Csarad113x_fsm [friend]

Definition at line 22 of file sarad113x.h.

friend class Csarad113x_tha_conv_fsm [friend]

Definition at line 23 of file sarad113x.h.

friend class Csarad113x_thb_conv_fsm [friend]

Definition at line 24 of file sarad113x.h.

Member Data Documentation

sc_out<bool> Csarad113x::ADCATCNV0

Definition at line 91 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADCATCNVControlMethod().

sc_out<bool> Csarad113x::ADCATCNV1

Definition at line 92 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADCATCNVControlMethod().

sc_out<bool> Csarad113x::ADCATCNV2

Definition at line 93 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADCATCNVControlMethod().

sc_out<bool> Csarad113x::ADCATCNV3

Definition at line 94 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADCATCNVControlMethod().

sc_out<bool> Csarad113x::ADCATCNV4

Definition at line 95 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADCATCNVControlMethod().

sc_in<sc_dt::uint64> Csarad113x::ADCLK

Definition at line 32 of file sarad113x.h.
Referenced by ADCLKMethod(), and Csarad113x().

sc_in<sc_uint<16> > Csarad113x::ADOP_OPA1_DATA

Definition at line 81 of file sarad113x.h.
Referenced by cb_SGTSEL_TxSEL00().

sc_out<bool> Csarad113x::ADOP_OPA1_PSEL

Definition at line 105 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::ADOP_OPA1_WEN

Definition at line 106 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADOPControlMethod().

sc_in<sc_uint<16> > Csarad113x::ADOP_OPA2_DATA

Definition at line 82 of file sarad113x.h.
Referenced by cb_SGTSEL_TxSEL00().

sc_out<bool> Csarad113x::ADOP_OPA2_PSEL

Definition at line 107 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::ADOP_OPA2_WEN

Definition at line 108 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADOPControlMethod().

sc_in<sc_uint<16> > Csarad113x::ADOP_OPA3_DATA

Definition at line 83 of file sarad113x.h.
Referenced by cb_SGTSEL_TxSEL00().

sc_out<bool> Csarad113x::ADOP_OPA3_PSEL

Definition at line 109 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::ADOP_OPA3_WEN

Definition at line 110 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADOPControlMethod().

sc_in<double> Csarad113x::ANI00

Definition at line 42 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI01

Definition at line 43 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI02

Definition at line 44 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI03

Definition at line 45 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI04

Definition at line 46 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI05

Definition at line 47 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI06

Definition at line 48 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI07

Definition at line 49 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI08

Definition at line 50 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI09

Definition at line 51 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI10

Definition at line 52 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI11

Definition at line 53 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI12

Definition at line 54 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI13

Definition at line 55 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI14

Definition at line 56 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI15

Definition at line 57 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI16

Definition at line 58 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI17

Definition at line 59 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI18

Definition at line 60 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI19

Definition at line 61 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI20

Definition at line 62 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI21

Definition at line 63 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI22

Definition at line 64 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI23

Definition at line 65 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI24

Definition at line 66 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI25

Definition at line 67 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI26

Definition at line 68 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI27

Definition at line 69 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI28

Definition at line 70 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI29

Definition at line 71 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI30

Definition at line 72 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI31

Definition at line 73 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI32

Definition at line 74 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI33

Definition at line 75 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI34

Definition at line 76 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_in<double> Csarad113x::ANI35

Definition at line 77 of file sarad113x.h.
Referenced by GetANIPortVal().

double Csarad113x::AVcc [private]

Definition at line 1296 of file sarad113x.h.
Referenced by CommandCB(), and UpdateSelfDiag().

double Csarad113x::Avrefh [private]

Definition at line 1295 of file sarad113x.h.
Referenced by ADConvert(), CommandCB(), and InitialAVREFHMethod().

sc_in<double> Csarad113x::AVREFH0

Definition at line 34 of file sarad113x.h.
Referenced by Csarad113x(), and InitialAVREFHMethod().

double Csarad113x::AVss [private]

Definition at line 1297 of file sarad113x.h.
Referenced by CommandCB(), and UpdateSelfDiag().

bool Csarad113x::DumpInterrupt [private]

Definition at line 1293 of file sarad113x.h.
Referenced by DumpInterruptMessage().

bool Csarad113x::EnableConvertInfo [private]

Definition at line 1294 of file sarad113x.h.
Referenced by DumpActivity().

bool Csarad113x::EnableTimeCalculation [private]

Definition at line 1303 of file sarad113x.h.
Referenced by CommandCB(), FinishVCConv(), HWTrigger(), and SWTrigger().

unsigned int Csarad113x::EX_CNVT [private]

Definition at line 1299 of file sarad113x.h.
Referenced by CommandCB(), and GetConversionTime().

unsigned int Csarad113x::EX_HLD_CDT [private]

Definition at line 1298 of file sarad113x.h.
Referenced by CommandCB(), and StartHoldProcess().

sc_out<bool> Csarad113x::INT_ADE

Definition at line 90 of file sarad113x.h.
Referenced by Csarad113x(), and WriteADEInterruptMethod().

sc_out<bool> Csarad113x::INT_SG1

Definition at line 87 of file sarad113x.h.
Referenced by Csarad113x(), and WriteSGEndInterruptMethod().

sc_out<bool> Csarad113x::INT_SG2

Definition at line 88 of file sarad113x.h.
Referenced by Csarad113x(), and WriteSGEndInterruptMethod().

sc_out<bool> Csarad113x::INT_SG3

Definition at line 89 of file sarad113x.h.
Referenced by Csarad113x(), and WriteSGEndInterruptMethod().

sc_out<bool> Csarad113x::INT_TSN

Definition at line 86 of file sarad113x.h.
Referenced by Csarad113x(), and WriteSGEndInterruptMethod().

double Csarad113x::mAccessTimeTSNCR [private]

Definition at line 232 of file sarad113x.h.
Referenced by cb_TSNCR_TSNEN(), Csarad113x(), and StartScanning().

bool Csarad113x::mADCATCNVnVal[emAllSG] [private]

Definition at line 225 of file sarad113x.h.

Referenced by AssertADCATCNVTH(), cb_PWDSGCR_PWDTRGMD(), cb_SGCR_ADIE(), cb_TSNSGCR_TSNTRGMD(), CheckTrigger(), InitOperation(), IsLastVC(), StartScanning(), and WriteADCATCNVControlMethod().

double Csarad113x::mADCLKPeriod [private]

Definition at line 314 of file sarad113x.h.

Referenced by cb_PWDSGSTCR_PWDSGST(), cb_SGSTCR_SGSTn(), cb_SGTSEL_TxSEL00(), cb_THAHLDSTCR_HLDST(), cb_THBHLDSTCR_HLDST(), cb_THSMPSTCR_SMPST(), cb_TSNSGSTCR_TSNSGST(), CheckHoldStart(), Csarad113x(), DelayEndHolding(), FinishVCConv(), GetConversionTime(), GetSampleTime(), HWTrigger(), NextADCLKPosedge(), PVCRTRGMethod(), ResumeTH(), SetCLKfreq(), SG1TRGMethod(), SG2TRGMethod(), SG3TRGMethod(), StartHoldProcess(), StartScanning(), StartVCConv(), SWTrigger(), VCConversionMethod(), WriteADCATCNVControlMethod(), and WriteADOPControlMethod().

unsigned int Csarad113x::mADData [private]

Definition at line 247 of file sarad113x.h.

Referenced by DumpActivity(), FinishVCConv(), InitOperation(), UpdateConversionDataMethod(), and VCConversionMethod().

bool Csarad113x::mADEVal [private]

Definition at line 228 of file sarad113x.h.

Referenced by Initialize(), UpdateConversionDataMethod(), and WriteADEInterruptMethod().

bool Csarad113x::mADOPControlVal[3] [private]

Definition at line 224 of file sarad113x.h.

Referenced by Initialize(), WriteADOPControl(), and WriteADOPControlMethod().

sc_event Csarad113x::mAssertResetEvent [private]

Definition at line 272 of file sarad113x.h.

sc_event Csarad113x::mCheckTriggerMethodEvent [private]

Definition at line 294 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), HWTriggerProcessMethod(), InitOperation(), ResumeTH(), SetCLKfreq(), and SWTriggerProcessMethod().

sc_event Csarad113x::mClearDIREvent[emMaxVirChannel] [private]

Definition at line 276 of file sarad113x.h.

Referenced by cb_DIR_DR(), and Csarad113x().

sc_event Csarad113x::mClearDREvent[(emMaxVirChannel+1)/2] [private]

Definition at line 275 of file sarad113x.h.

Referenced by cb_DR_DR0(), and Csarad113x().

sc_event Csarad113x::mClearPWDDIREvent [private]

Definition at line 285 of file sarad113x.h.

Referenced by cb_PWDDIR_PWDDR(), and Csarad113x().

sc_event Csarad113x::mClearPWDDREvent [private]

Definition at line 284 of file sarad113x.h.

Referenced by cb_PWDTSNDR_TSNDR(), and Csarad113x().

sc_event Csarad113x::mCmdCancelResetEvent [private]

Definition at line 271 of file sarad113x.h.

Referenced by AssertResetMethod(), Csarad113x(), and ResetMethod().

std::string Csarad113x::mCmdId [private]

Definition at line 1287 of file sarad113x.h.

sc_event Csarad113x::mCmdResetEvent [private]

Definition at line 270 of file sarad113x.h.

Referenced by AssertReset(), Csarad113x(), and ResetMethod().

double Csarad113x::mCurrentAnalogVal [private]

Definition at line 258 of file sarad113x.h.

Referenced by FinishVCConv(), InitOperation(), and VCConversionMethod().

unsigned int Csarad113x::mCurrentSG [private]

Definition at line 234 of file sarad113x.h.

Referenced by Csarad113x_fsm::CheckCondition(), Csarad113x_tha_conv_fsm::CheckCondition(), Csarad113x_thb_conv_fsm::CheckCondition(), CheckSGSetting(), FinishScanning(), Csarad113x_fsm::fnEntry(), Csarad113x_tha_conv_fsm::fnEntry(), Csarad113x_thb_conv_fsm::fnEntry(), Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), Csarad113x_thb_conv_fsm::fnExit(), InitOperation(), IsLastVC(), ResumeTH(), SetCurrentSG(), StartScanning(), VCConversionMethod(), VCEndConversionMethod(), and VCSamplingMethod().

unsigned int Csarad113x::mCurrentStartVC[emAllSG] [private]

Definition at line 236 of file sarad113x.h.

Referenced by FinishVCConv(), Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), Csarad113x_thb_conv_fsm::fnExit(), InitOperation(), IsLastVC(), StartVCConv(), VCConversionMethod(), and VCSamplingMethod().

unsigned int Csarad113x::mCurrentTrigger [private]

Definition at line 243 of file sarad113x.h.

Referenced by CheckTrigger(), InitOperation(), and SetCurrentSG().

double Csarad113x::mDGOUTAD [private]

Definition at line 259 of file sarad113x.h.

Referenced by Csarad113x(), GetANIPortVal(), and UpdateSelfDiag().

double Csarad113x::mDGOUTSH[emDGOUTNum] [private]

Definition at line 260 of file sarad113x.h.

Referenced by Csarad113x(), GetANIPortVal(), and UpdateSelfDiag().

sc_event Csarad113x::mEndVCConversionEvent [private]

Definition at line 300 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), InitOperation(), SetCLKfreq(), SuspendScanning(), and VCConversionMethod().

std::string Csarad113x::mFileName [private]

Definition at line 1286 of file sarad113x.h.

unsigned int Csarad113x::mFirstVC[emAllSG] [private]

Definition at line 238 of file sarad113x.h.

Referenced by cb_SGVCSP_VCSP(), CheckSGSetting(), InitOperation(), IsLastVC(), and StopOperation().

double Csarad113x::mHoldPortVal[emAllTHCh] [private]

Definition at line 257 of file sarad113x.h.

Referenced by HoldPortVal(), InitOperation(), and VCConversionMethod().

sc_event Csarad113x::mHWTriggerEvent[emAllSG] [private]

Definition at line 292 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), HWTrigger(), InitOperation(), and SetCLKfreq().

std::string Csarad113x::mInstName [private]

Definition at line 1285 of file sarad113x.h.

unsigned int Csarad113x::mINTActiveNum[emAllSG] [private]

Definition at line 263 of file sarad113x.h.

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

unsigned int Csarad113x::mINTADEActiveNum [private]

Definition at line 264 of file sarad113x.h.

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

bool Csarad113x::mIntrVal[emAllSG] [private]

Definition at line 226 of file sarad113x.h.

Referenced by Initialize(), UpdateConversionDataMethod(), and WriteSGEndInterruptMethod().

bool Csarad113x::mIsEnableStart[emAllSG] [private]

Definition at line 249 of file sarad113x.h.

Referenced by CheckEnableStart(), InitOperation(), and StartScanning().

bool Csarad113x::mIsFirstTimeConv[emAllSG] [private]

Definition at line 252 of file sarad113x.h.

Referenced by FinishScanning(), InitOperation(), and StartVCConv().

bool Csarad113x::mIsHWTrigger[emAllSG] [private]

Definition at line 253 of file sarad113x.h.

Referenced by CheckHoldComplete(), CheckHoldStart(), CheckSmpTime(), CheckTrigger(), FinishScanning(), HWTriggerProcessMethod(), InitOperation(), IsLastVC(), SetCLKfreq(), and StartScanning().

bool Csarad113x::mIsInitialize [private]

Definition at line 217 of file sarad113x.h.

Referenced by Csarad113x(), and ResetMethod().

bool Csarad113x::mIsLastRepetition [private]

Definition at line 255 of file sarad113x.h.

Referenced by InitOperation(), IsLastVC(), UpdateConversionDataMethod(), and VCConversionMethod().

bool Csarad113x::mIsOperating [private]

Definition at line 223 of file sarad113x.h.

Referenced by cb_SGPRCR_SGPR0(), CommandCB(), InitOperation(), SetCLKfreq(), and UpdateSGACTMethod().

bool Csarad113x::mIsRefVolUpdate [private]

Definition at line 218 of file sarad113x.h.

Referenced by CommandCB(), Csarad113x(), and InitialAVREFHMethod().

bool Csarad113x::mIsScanning[emAllSG] [private]

Definition at line 250 of file sarad113x.h.

Referenced by CheckTHStart(), CheckTrigger(), FinishScanning(), InitOperation(), IsLastVC(), StartScanning(), and SuspendScanning().

bool Csarad113x::mIsSuspend[emAllSG] [private]

Definition at line 251 of file sarad113x.h.

Referenced by InitOperation(), and SuspendScanning().

bool Csarad113x::mIsSWTrigger[emAllSG] [private]

Definition at line 254 of file sarad113x.h.

Referenced by CheckHoldComplete(), CheckHoldStart(), CheckSmpTime(), CheckTrigger(), FinishScanning(), InitOperation(), IsLastVC(), SetCLKfreq(), StartScanning(), and SWTriggerProcessMethod().

unsigned int Csarad113x::mLastVC[emAllSG] [private]

Definition at line 239 of file sarad113x.h.

Referenced by cb_SGVCEP_VCEP(), CheckSGSetting(), InitOperation(), IsLastVC(), StopOperation(), UpdateConversionDataMethod(), and UpdateInternalCount().

int Csarad113x::mLineNum [private]

Definition at line 1288 of file sarad113x.h.

std::map<std::string, bool> Csarad113x::mMessageLevel [private]

Definition at line 1278 of file sarad113x.h.

unsigned int Csarad113x::mNextVC[emAllSG] [private]

Definition at line 237 of file sarad113x.h.

Referenced by cb_SGVCSP_VCSP(), InitOperation(), IsLastVC(), StartVCConv(), and StopOperation().

double Csarad113x::mPCLKPeriod [private]

Definition at line 313 of file sarad113x.h.

Referenced by cb_PWDSGSTCR_PWDSGST(), cb_SGSTCR_SGSTn(), cb_SGTSEL_TxSEL00(), cb_THAHLDSTCR_HLDST(), cb_THBHLDSTCR_HLDST(), cb_THSMPSTCR_SMPST(), cb_TSNSGSTCR_TSNSGST(), Csarad113x(), FinishVCConv(), HWTrigger(), IsLastVC(), NextPCLKPosedge(), PVCRTRGMethod(), SetCLKfreq(), SG1TRGMethod(), SG2TRGMethod(), SG3TRGMethod(), StartTHSamplingMethod(), SWTrigger(), UpdateConversionDataMethod(), WriteADCATCNVControlMethod(), WriteADEInterruptMethod(), WriteADOPControlMethod(), and WriteSGEndInterruptMethod().

double Csarad113x::mPreAVcc [private]

Definition at line 305 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

double Csarad113x::mPreAvrefh [private]

Definition at line 304 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

double Csarad113x::mPreAVss [private]

Definition at line 306 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

bool Csarad113x::mPreEnableTimeCalculation [private]

Definition at line 312 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

unsigned int Csarad113x::mPreEX_CNVT [private]

Definition at line 308 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

unsigned int Csarad113x::mPreEX_HLD_CDT [private]

Definition at line 307 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

double Csarad113x::mPretD [private]

Definition at line 309 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

double Csarad113x::mPretED [private]

Definition at line 311 of file sarad113x.h.
Referenced by CommandCB(), and Csarad113x().

double Csarad113x::mPretPWDD [private]

Definition at line 310 of file sarad113x.h.

Referenced by CommandCB(), and Csarad113x().

unsigned int Csarad113x::mPreviousVC [private]

Definition at line 235 of file sarad113x.h.

Referenced by FinishVCConv(), InitOperation(), IsLastVC(), UpdateConversionDataMethod(), and UpdateInternalCount().

unsigned int Csarad113x::mPrioritySet [private]

Definition at line 230 of file sarad113x.h.

Referenced by cb_SGPRCR_SGPR0(), ComparePriority(), and Initialize().

unsigned int Csarad113x::mPVCR_MUXCURVal [private]

Definition at line 229 of file sarad113x.h.

Referenced by InitOperation(), StartVCConv(), and WritePVCR_MUXCURMethod().

unsigned int Csarad113x::mPWDATAVal [private]

Definition at line 267 of file sarad113x.h.

Referenced by GetWrittenData(), tgt_acc(), and tgt_acc_dbg().

unsigned int Csarad113x::mRepetitionCount [private]

Definition at line 246 of file sarad113x.h.

Referenced by DumpActivity(), InitOperation(), StartScanning(), StartVCConv(), UpdateInternalCount(), and VCConversionMethod().

unsigned int Csarad113x::mRepetitionTime [private]

Definition at line 245 of file sarad113x.h.

Referenced by DumpActivity(), InitOperation(), StartScanning(), UpdateInternalCount(), and VCConversionMethod().

unsigned int Csarad113x::mResetPeriod [private]

Definition at line 219 of file sarad113x.h.

Referenced by AssertReset(), AssertResetMethod(), and Csarad113x().

sc_event Csarad113x::mSARAD113xFSMEvent[Csarad113x_fsm::emTotalNumOfEvent] [private]

Definition at line 28 of file sarad113x.h.

Referenced by cb_ADHALTR_HALT(), cb_THAHLDSTCR_HLDST(), cb_THBHLDSTCR_HLDST(), CheckHoldStart(), CheckTHStart(), CheckTrigger(), DelayEndHolding(), EnableReset(), EndHolding(), FinishTHConversion(), SetCLKfreq(), StartHoldProcess(), StartTHSamplingMethod(), StartTrigger(), and VCEndConversionMethod().

bool Csarad113x::mSARCmdResetFlag [private]

Definition at line 221 of file sarad113x.h.

Referenced by AssertReset(), AssertResetMethod(), Csarad113x(), DeAssertResetMethod(), IsReset(), and ResetMethod().

bool Csarad113x::mSARPortResetFlag [private]

Definition at line 220 of file sarad113x.h.

Referenced by AssertReset(), Csarad113x(), IsReset(), and ResetMethod().

unsigned int Csarad113x::mScanFreqCount[emAllSG] [private]

Definition at line 242 of file sarad113x.h.

Referenced by DumpActivity(), InitOperation(), IsLastVC(), and UpdateInternalCount().

unsigned int Csarad113x::mSGACTVal[emAllSG] [private]

Definition at line 240 of file sarad113x.h.

Referenced by InitOperation(), UpdateSGACTMethod(), and WriteADCATCNVControlMethod().

unsigned int Csarad113x::mSHACTVal [private]

Definition at line 241 of file sarad113x.h.

Referenced by InitOperation(), IsLastVC(), StartTHSamplingMethod(), and UpdateSHACTMethod().

sc_event Csarad113x::mStartTHSamplingEvent [private]

Definition at line 297 of file sarad113x.h.

Referenced by cb_THSMPSTCR_SMPST(), Csarad113x(), EnableReset(), InitOperation(), and SetCLKfreq().

double Csarad113x::mStartTHSamplingTime[emAllTHCh] [private]

Definition at line 256 of file sarad113x.h.

Referenced by CheckSmpTime(), InitOperation(), and SetStartSmpTime().

double Csarad113x::mStartTimeVC [private]

Definition at line 261 of file sarad113x.h.

Referenced by Csarad113x_fsm::fnExit(), Csarad113x_tha_conv_fsm::fnExit(), Csarad113x_thb_conv_fsm::fnExit(), InitOperation(), and StartVCConv().

sc_event Csarad113x::mStartVCConversionEvent [private]

Definition at line 299 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), InitOperation(), SetCLKfreq(), SuspendScanning(), and VCSamplingMethod().

sc_event Csarad113x::mStartVCSamplingEvent [private]

Definition at line 298 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), InitOperation(), SetCLKfreq(), StartVCConv(), and SuspendScanning().

sc_event Csarad113x::mSuspendEvent [private]

Definition at line 274 of file sarad113x.h.

sc_event Csarad113x::mSWTriggerEvent[emAllSG] [private]

Definition at line 293 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), InitOperation(), SetCLKfreq(), and SWTrigger().

unsigned int Csarad113x::mTSNStateControl [private]

Definition at line 244 of file sarad113x.h.

Referenced by InitOperation(), SetCLKfreq(), StartVCConv(), and SuspendScanning().

unsigned int Csarad113x::mULEActiveNum [private]

Definition at line 265 of file sarad113x.h.

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

unsigned int Csarad113x::mULError [private]

Definition at line 248 of file sarad113x.h.

Referenced by ADConvert(), InitOperation(), UpdateConversionDataMethod(), and VCConversionMethod().

bool Csarad113x::mULEVal [private]

Definition at line 227 of file sarad113x.h.

Referenced by cb_ECR_ULEC(), Initialize(), UpdateConversionDataMethod(), and WriteULEInterruptMethod().

sc_event Csarad113x::mUpdateConversionDataEvent[emAllSG] [private]

Definition at line 301 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), FinishVCConv(), InitOperation(), and SetCLKfreq().

sc_event Csarad113x::mUpdateSGACTEvent[emAllSG] [private]

Definition at line 295 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), SetCLKfreq(), and WriteADCATCNVControlMethod().

sc_event Csarad113x::mUpdateSHACTEvent [private]

Definition at line 296 of file sarad113x.h.

Referenced by Csarad113x(), IsLastVC(), and StartTHSamplingMethod().

sc_event Csarad113x::mWriteADCATCNVControlEvent[emAllSG] [private]

Definition at line 288 of file sarad113x.h.

Referenced by AssertADCATCNVTH(), CheckTrigger(), Csarad113x(), EnableReset(), InitOperation(), IsLastVC(), SetCLKfreq(), StartScanning(), and StopOperation().

sc_event Csarad113x::mWriteADEInterruptEvent [private]

Definition at line 291 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), UpdateConversionDataMethod(), and WriteADEInterruptMethod().

sc_event Csarad113x::mWriteADOPControlEvent [private]

Definition at line 286 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), SetCLKfreq(), WriteADOPControl(), and WriteADOPControlMethod().

sc_event Csarad113x::mWritePVCR_MUXCUREvent [private]

Definition at line 287 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), SetCLKfreq(), and StartVCConv().

sc_event Csarad113x::mWriteSGEndInterruptEvent[emAllSG] [private]

Definition at line 289 of file sarad113x.h.

Referenced by Csarad113x(), EnableReset(), UpdateConversionDataMethod(), and WriteSGEndInterruptMethod().

sc_event Csarad113x::mWriteULEInterruptEvent [private]

Definition at line 290 of file sarad113x.h.

Referenced by cb_ECR_ULEC(), Csarad113x(), EnableReset(), and UpdateConversionDataMethod().

sc_event Csarad113x::mWrittenPWDATAEvent

Definition at line 117 of file sarad113x.h.

Referenced by tgt_acc(), and tgt_acc_dbg().

sc_event Csarad113x::mZeroClockEvent [private]

Definition at line 273 of file sarad113x.h.

sc_in<sc_dt::uint64> Csarad113x::pclk

Definition at line 31 of file sarad113x.h.

Referenced by Csarad113x(), and PCLKMethod().

Csarad113x_fsm* Csarad113x::pCsarad113x_fsm [private]

Definition at line 27 of file sarad113x.h.

Referenced by CheckTrigger(), Csarad113x(), SuspendScanning(), and ~Csarad113x().

sc_in<bool> Csarad113x::preset_n

Definition at line 33 of file sarad113x.h.

Referenced by Csarad113x(), and ResetMethod().

sc_out<bool> Csarad113x::PVCR_END

Definition at line 98 of file sarad113x.h.

Referenced by Csarad113x(), and WriteSGEndInterruptMethod().

sc_out<sc_uint<3> > Csarad113x::PVCR_MUXCUR

Definition at line 97 of file sarad113x.h.

Referenced by Csarad113x(), and WritePVCR_MUXCURMethod().

sc_in<bool> Csarad113x::PVCR_TRG

Definition at line 40 of file sarad113x.h.

Referenced by Csarad113x(), and PVCRTRGMethod().

sc_in<sc_uint<12> > Csarad113x::PVCR_VALUE

Definition at line 80 of file sarad113x.h.

Referenced by Csarad113x(), and PVCR_VALUEMethod().

sc_in<bool> Csarad113x::SG1_TRG

Definition at line 37 of file sarad113x.h.

Referenced by Csarad113x(), and SG1TRGMethod().

sc_in<bool> Csarad113x::SG2_TRG

Definition at line 38 of file sarad113x.h.

Referenced by Csarad113x(), and SG2TRGMethod().

sc_in<bool> Csarad113x::SG3_TRG

Definition at line 39 of file sarad113x.h.

Referenced by Csarad113x(), and SG3TRGMethod().

double Csarad113x::tD [private]

Definition at line 1300 of file sarad113x.h.
Referenced by CommandCB(), and SWTrigger().

double Csarad113x::tED [private]

Definition at line 1302 of file sarad113x.h.
Referenced by CommandCB(), and FinishVCConv().

double Csarad113x::tPWDD [private]

Definition at line 1301 of file sarad113x.h.
Referenced by CommandCB(), and HWTrigger().

sc_in<double> Csarad113x::TSN_ANI

Definition at line 78 of file sarad113x.h.
Referenced by GetANIPortVal().

sc_out<bool> Csarad113x::TSN_SELF_DIAG

Definition at line 103 of file sarad113x.h.
Referenced by Csarad113x().

sc_in<bool> Csarad113x::TSN_TRG

Definition at line 36 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<sc_uint<2> > Csarad113x::TSN_TRIM

Definition at line 104 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::TSN_TS_EN

Definition at line 99 of file sarad113x.h.

Referenced by Csarad113x().

sc_out<bool> Csarad113x::TSN_TSMASK

Definition at line 102 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::TSN_TSSW

Definition at line 100 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::TSN_TSSW_DISCH

Definition at line 101 of file sarad113x.h.
Referenced by Csarad113x().

sc_out<bool> Csarad113x::ULE

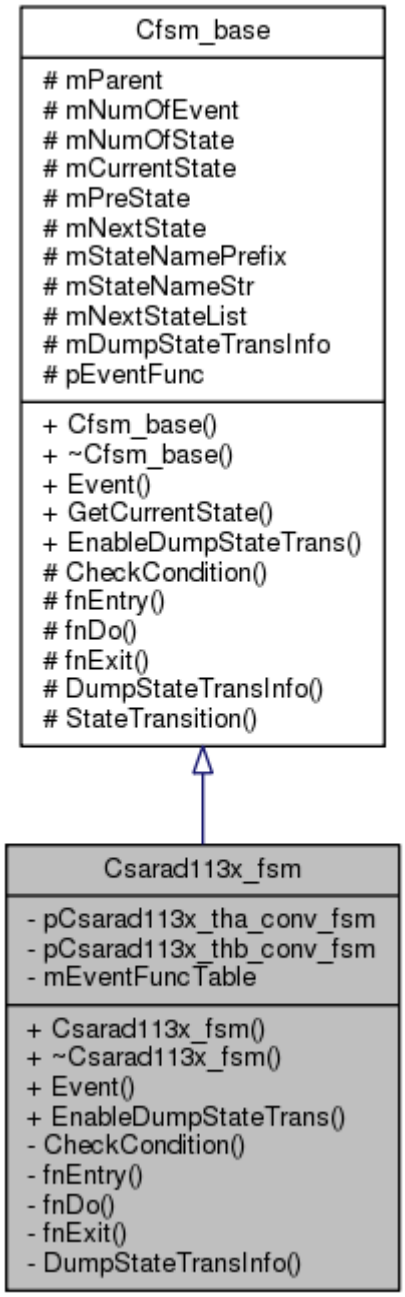
Definition at line 96 of file sarad113x.h.
Referenced by Csarad113x(), and WriteULEInterruptMethod().

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

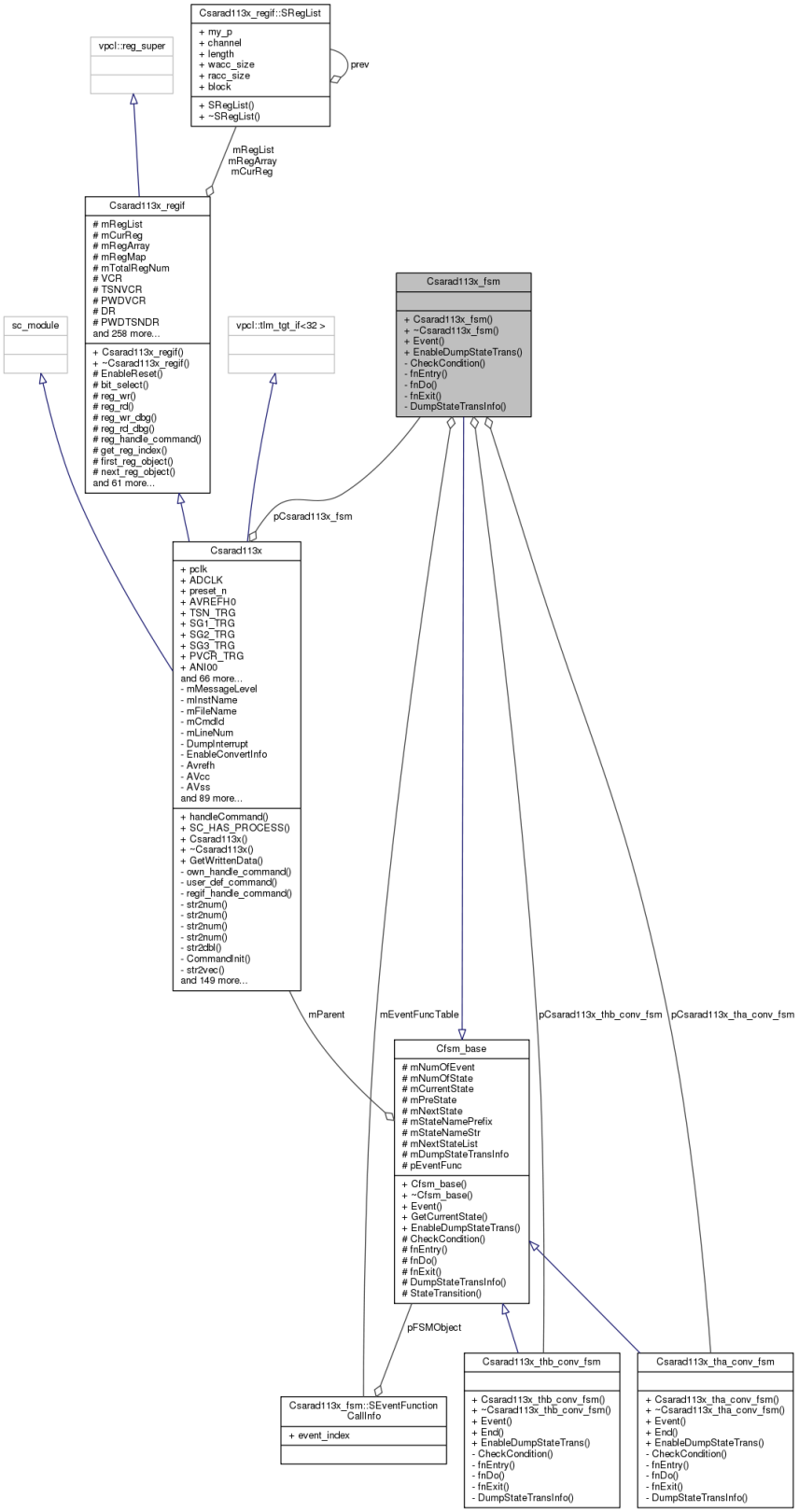
- sarad113x.h
- sarad113x_cmdif.h
- sarad113x_fsmif.h
- sarad113x.cpp

Csarad113x_fsm Class Reference

`#include <sarad113x_fsm.h>`
Inheritance diagram for Csarad113x_fsm:



Collaboration diagram for Csarad113x_fsm:


Csarad113x_regif::SRegList
+ my_p
+ channel
+ length
+ wacc_size
+ racc_size
+ block
+ SRegList()
+ ~SRegList()
prev
vpcl::reg_super
mRegList
mRegArray
mCurReg
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
Csarad113x_fsm
+ Csarad113x_fsm()
+ ~Csarad113x_fsm()
+ Event()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
sc_module
vpcl::tlm_tgt_if<32 >
pCsarad113x_fsm
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 89 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...
mParent
mEventFuncTable
pCsarad113x_thb_conv_fsm
pCsarad113x_tha_conv_fsm
Cfsm_base
mNumOfEvent
mNumOfState
mCurrentState
mPreState
mNextState
mStateNamePrefix
mStateNameStr
mNextStateList
mDumpStateTransInfo
pEventFunc
+ Cfsm_base()
+ ~Cfsm_base()
+ Event()
+ GetCurrentState()
+ EnableDumpStateTrans()
# CheckCondition()
# fnEntry()
# fnDo()
# fnExit()
# DumpStateTransInfo()
# StateTransition()
pFSMObject
Csarad113x_fsm::SEventFunction
CallInfo
+ event_index
Csarad113x_thb_conv_fsm
+ Csarad113x_thb_conv_fsm()
+ ~Csarad113x_thb_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_tha_conv_fsm
+ Csarad113x_tha_conv_fsm()
+ ~Csarad113x_tha_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()

Classes

- struct SEventFunctionCallInfo

Public Types

- enum eState { emStRESET, emStIDLE, emStHALT, emStTH_CONV, emStTH_SUSPEND, emStNORMAL_SG_SCANNING, emStNORMAL_SG_SCANNING_END, emStNORMAL_VC_CONV, emStNORMAL_VC_CONV_END, emStNORMAL_SUSPEND, emStNA }
- enum eEvent { emEvtResetAssert, emEvtResetDeassert, emEvtStartSG4Trigger, emEvtStartSG3Trigger, emEvtStartSG2Trigger, emEvtStartSG1Trigger, emEvtStartSG0Trigger, emEvtTHStartSampling, emEvtFinishVCConversion, emEvtFinishTHConversion, emEvtHaltTrigger, emEvtWOE, emEvtTHAHWTrigger, emEvtTHASWTrigger, emEvtTHAStartSampling, emEvtTHAHoldStart, emEvtTHAHoldComplete, emEvtTHAEndHolding, emEvtTHAFinishVCConversion, emEvtTHASuspend, emEvtTHAResume, emEvtTHBHWTrigger, emEvtTHBSWTrigger, emEvtTHBStartSampling, emEvtTHBHoldStart, emEvtTHBHoldComplete, emEvtTHBEndHolding, emEvtTHBFinishVCConversion, emEvtTHBSuspend, emEvtTHBResume, emTotalNumOfEvent }

Public Member Functions

- Csarad113x_fsm (Csarad113x *_parent, std::string upper_state="")
- ~Csarad113x_fsm (void)
- void Event (unsigned int event)
- void EnableDumpStateTrans (bool enable)

Private Member Functions

- void CheckCondition (const unsigned int condition_id)
- void fnEntry (void)
- void fnDo (void)
- void fnExit (void)
- void DumpStateTransInfo (void)

Private Attributes

- Csarad113x_tha_conv_fsm * pCsarad113x_tha_conv_fsm
- Csarad113x_thb_conv_fsm * pCsarad113x_thb_conv_fsm
- SEventFunctionCallInfo mEventFuncTable [emTotalNumOfEvent]

Friends

- class Csarad113x

Additional Inherited Members

Detailed Description

Definition at line 118 of file sarad113x_fsm.h.

Member Enumeration Documentation

enum Csarad113x_fsm::eEvent

Enumerator:

emEvtResetAssert
emEvtResetDeassert
emEvtStartSG4Trigger
emEvtStartSG3Trigger
emEvtStartSG2Trigger
emEvtStartSG1Trigger
emEvtStartSG0Trigger
emEvtTHStartSampling
emEvtFinishVCConversion
emEvtFinishTHConversion
emEvtHaltTrigger
emEvtWOE
emEvtTHAHWTrigger
emEvtTHASWTrigger
emEvtTHAStartSampling
emEvtTHAHoldStart
emEvtTHAHoldComplete
emEvtTHAEndHolding
emEvtTHAFinishVCConversion
emEvtTHASuspend
emEvtTHAResume
emEvtTHBHWTrigger
emEvtTHBSWTrigger
emEvtTHBStartSampling
emEvtTHBHoldStart
emEvtTHBHoldComplete
emEvtTHBEndHolding
emEvtTHBFinishVCConversion
emEvtTHBSuspend
emEvtTHBResume
emTotalNumOfEvent

Definition at line 136 of file sarad113x_fsm.h.

enum Csarad113x_fsm::eState

Enumerator:

emStRESET
emStIDLE
emStHALT
emStTH_CONV
emStTH_SUSPEND
emStNORMAL_SG_SCANNING
emStNORMAL_SG_SCANNING_END

emStNORMAL_VC_CONV
emStNORMAL_VC_CONV_END
emStNORMAL_SUSPEND
emStNA

Definition at line 122 of file sarad113x_fsm.h.

Constructor & Destructor Documentation

Csarad113x_fsm::Csarad113x_fsm (Csarad113x * *_parent*, std::string *upper_state* = "")

Definition at line 21 of file sarad113x_fsm.cpp.

References Csarad113x_tha_conv_fsm, Csarad113x_thb_conv_fsm, emEvtFinishTHConversion, emEvtFinishVCConversion, emEvtHaltTrigger, emEvtResetAssert, emEvtResetDeassert, emEvtStartSG0Trigger, emEvtStartSG1Trigger, emEvtStartSG2Trigger, emEvtStartSG3Trigger, emEvtStartSG4Trigger, Csarad113x_tha_conv_fsm::emEvtTHAEndHolding, Csarad113x_tha_conv_fsm::emEvtTHAFinishVCConversion, Csarad113x_tha_conv_fsm::emEvtTHAHoldComplete, Csarad113x_tha_conv_fsm::emEvtTHAHoldStart, Csarad113x_tha_conv_fsm::emEvtTHAHWTrigger, Csarad113x_tha_conv_fsm::emEvtTHAResume, Csarad113x_tha_conv_fsm::emEvtTHAStartSampling, Csarad113x_tha_conv_fsm::emEvtTHASuspend, Csarad113x_tha_conv_fsm::emEvtTHASWTrigger, Csarad113x_thb_conv_fsm::emEvtTHBEndHolding, Csarad113x_thb_conv_fsm::emEvtTHBFinishVCConversion, Csarad113x_thb_conv_fsm::emEvtTHBHoldComplete, Csarad113x_thb_conv_fsm::emEvtTHBHoldStart, Csarad113x_thb_conv_fsm::emEvtTHBHWTrigger, Csarad113x_thb_conv_fsm::emEvtTHBResume, Csarad113x_thb_conv_fsm::emEvtTHBStartSampling, Csarad113x_thb_conv_fsm::emEvtTHBSuspend, Csarad113x_thb_conv_fsm::emEvtTHBSWTrigger, emEvtTHStartSampling, emEvtWOE, emStHALT, emStIDLE, emStNA, emStNORMAL_SG_SCANNING, emStNORMAL_SG_SCANNING_END, emStNORMAL_SUSPEND, emStNORMAL_VC_CONV, emStNORMAL_VC_CONV_END, emStRESET, emStTH_CONV, emStTH_SUSPEND, emTotalNumOfEvent, Cfsm_base::mCurrentState, mEventFuncTable, Cfsm_base::mNextStateList, Cfsm_base::mParent, Cfsm_base::mStateNamePrefix, Cfsm_base::mStateNameStr, pCsarad113x_tha_conv_fsm, and pCsarad113x_thb_conv_fsm.

Csarad113x_fsm::~Csarad113x_fsm (void)

Definition at line 120 of file sarad113x_fsm.cpp.

References pCsarad113x_tha_conv_fsm, and pCsarad113x_thb_conv_fsm.

Member Function Documentation

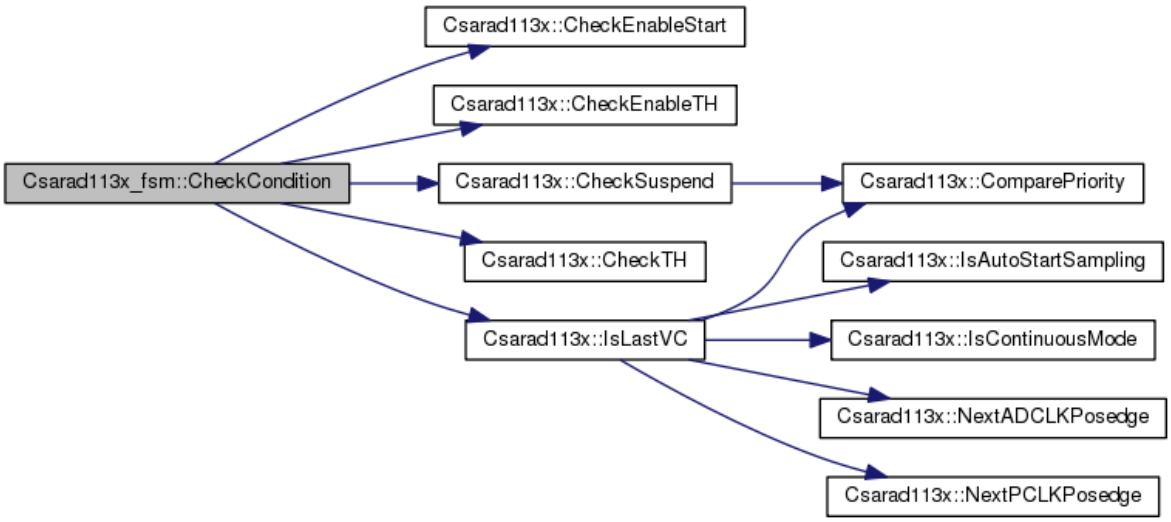
void Csarad113x_fsm::CheckCondition (const unsigned int *condition_id*) [private], [virtual]

Implements Cfsm_base.

Definition at line 146 of file sarad113x_fsm.cpp.

References Csarad113x::CheckEnableStart(), Csarad113x::CheckEnableTH(), Csarad113x::CheckSuspend(), Csarad113x::CheckTH(), Csarad113x::emLastVC, emStIDLE, emStNORMAL_SG_SCANNING, emStNORMAL_SG_SCANNING_END, emStNORMAL_SUSPEND, emStNORMAL_VC_CONV, emStTH_CONV, emStTH_SUSPEND, Csarad113x::emSuspend, Csarad113x::emTHGroupA, Csarad113x::emTHGroupB, Csarad113x::IsLastVC(), Csarad113x::mCurrentSG, Cfsm_base::mNextState, and Cfsm_base::mParent.

Here is the call graph for this function:



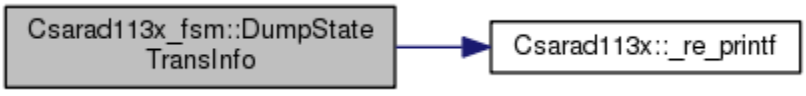
void Csarad113x_fsm::DumpStateTransInfo (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 301 of file sarad113x_fsm.cpp.

References Csarad113x::_re_printf(), Cfsm_base::mCurrentState, Cfsm_base::mDumpStateTransInfo, Cfsm_base::mNextState, Cfsm_base::mParent, and Cfsm_base::mStateNameStr.

Here is the call graph for this function:



void Csarad113x_fsm::EnableDumpStateTrans (bool *enable*) [virtual]

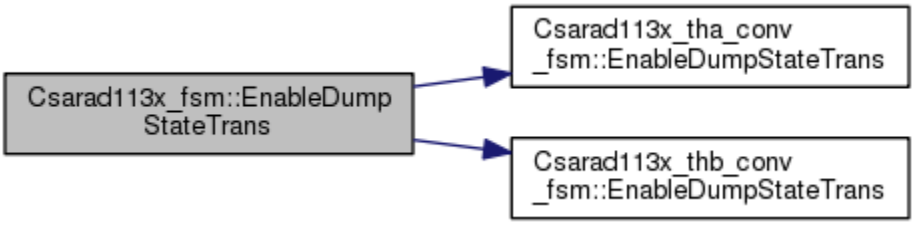
Implements Cfsm_base.

Definition at line 308 of file sarad113x_fsm.cpp.

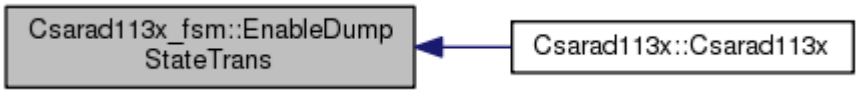
References Csarad113x_tha_conv_fsm::EnableDumpStateTrans(), Csarad113x_thb_conv_fsm::EnableDumpStateTrans(), Cfsm_base::mDumpStateTransInfo, pCsarad113x_tha_conv_fsm, and pCsarad113x_thb_conv_fsm.

Referenced by Csarad113x::Csarad113x().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x_fsm::Event (unsigned int *event*) `[virtual]`

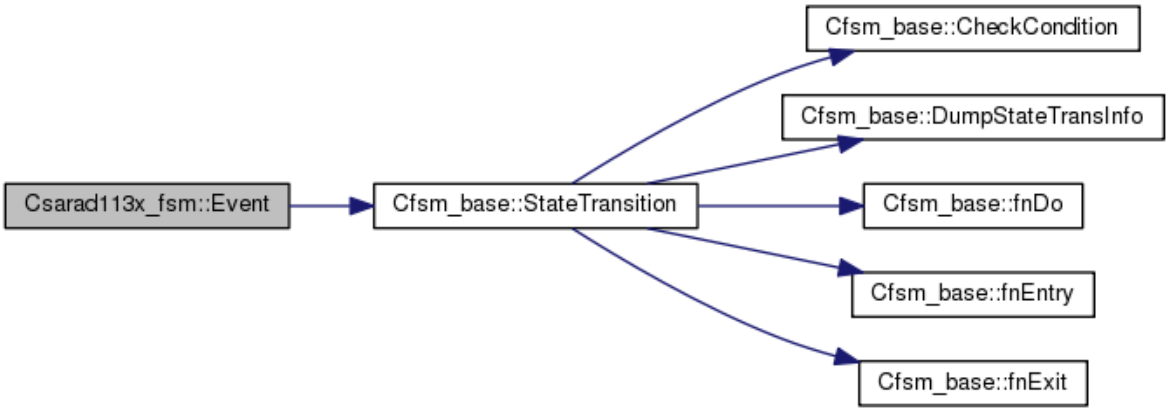
Implements Cfsm_base.

Definition at line 127 of file sarad113x_fsm.cpp.

References emEvtResetDeassert, emEvtWOE, emStIDLE, emStNORMAL_VC_CONV, Csarad113x_fsm::SEventFunctionCallInfo::event_index, Cfsm_base::mCurrentState, mEventFuncTable, Cfsm_base::pEventFunc, Csarad113x_fsm::SEventFunctionCallInfo::pFSMObject, and Cfsm_base::StateTransition().

Referenced by SARAD113xFSMTriggerMethod().

Here is the call graph for this function:



Here is the caller graph for this function:

void Csarad113x_fsm::fnDo (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 297 of file sarad113x_fsm.cpp.

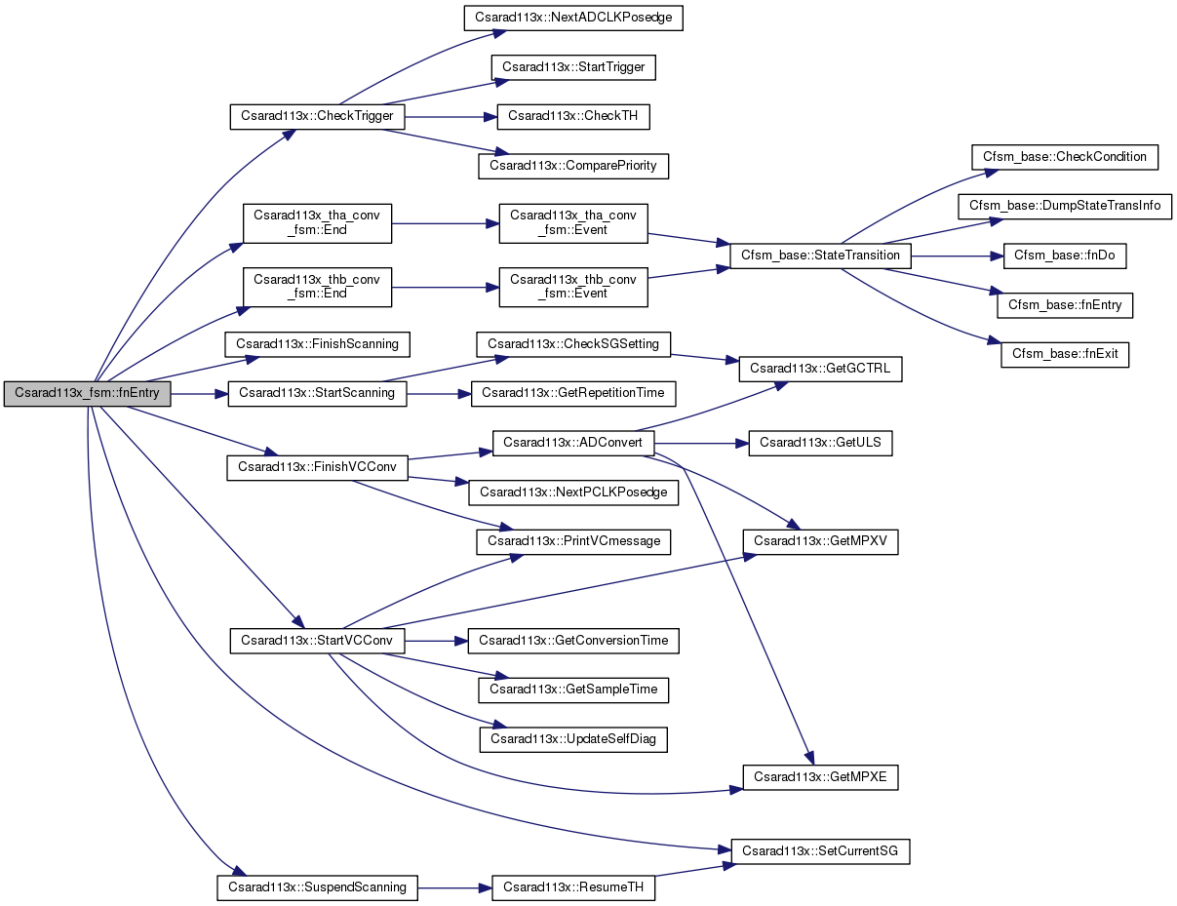
void Csarad113x_fsm::fnEntry (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 243 of file sarad113x_fsm.cpp.

References Csarad113x::CheckTrigger(), emStHALT, emStIDLE, emStNA, emStNORMAL_SG_SCANNING, emStNORMAL_SG_SCANNING_END, emStNORMAL_SUSPEND, emStNORMAL_VC_CONV, emStNORMAL_VC_CONV_END, emStRESET, emStTH_SUSPEND, Csarad113x_tha_conv_fsm::End(), Csarad113x_thb_conv_fsm::End(), Csarad113x::FinishScanning(), Csarad113x::FinishVCConv(), Csarad113x::mCurrentSG, Cfsm_base::mCurrentState, Cfsm_base::mNextState, Cfsm_base::mParent, pCsarad113x_tha_conv_fsm, pCsarad113x_thb_conv_fsm, Csarad113x::SetCurrentSG(), Csarad113x::StartScanning(), Csarad113x::StartVCConv(), and Csarad113x::SuspendScanning().

Here is the call graph for this function:



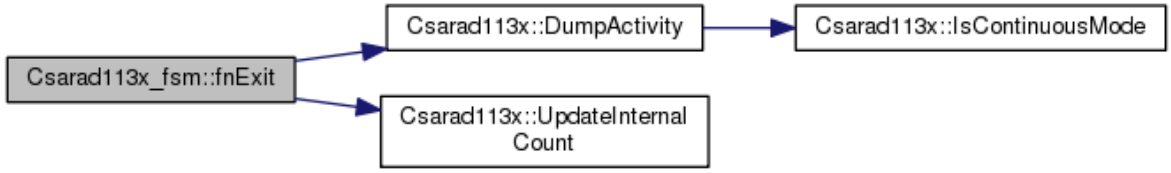
void Csarad113x_fsm::fnExit (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 283 of file sarad113x_fsm.cpp.

References Csarad113x::DumpActivity(), emStNA, emStNORMAL_VC_CONV_END, Csarad113x::mCurrentSG, Csarad113x::mCurrentStartVC, Cfsm_base::mCurrentState, Cfsm_base::mParent, Cfsm_base::mPreState, Csarad113x::mStartTimeVC, and Csarad113x::UpdateInternalCount().

Here is the call graph for this function:



Friends And Related Function Documentation

friend class Csarad113x [friend]

Definition at line 120 of file sarad113x_fsm.h.

Member Data Documentation

SEventFunctionCallInfo Csarad113x_fsm::mEventFuncTable[emTotalNumOfEvent] [private]

Definition at line 187 of file sarad113x_fsm.h.

Referenced by Csarad113x_fsm(), and Event().

Csarad113x_tha_conv_fsm* Csarad113x_fsm::pCsarad113x_tha_conv_fsm [private]

Definition at line 185 of file sarad113x_fsm.h.

Referenced by Csarad113x::CheckTrigger(), Csarad113x_fsm(), EnableDumpStateTrans(), fnEntry(), and ~Csarad113x_fsm().

Csarad113x_thb_conv_fsm* Csarad113x_fsm::pCsarad113x_thb_conv_fsm [private]

Definition at line 186 of file sarad113x_fsm.h.

Referenced by Csarad113x::CheckTrigger(), Csarad113x_fsm(), EnableDumpStateTrans(), fnEntry(), and ~Csarad113x_fsm().

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

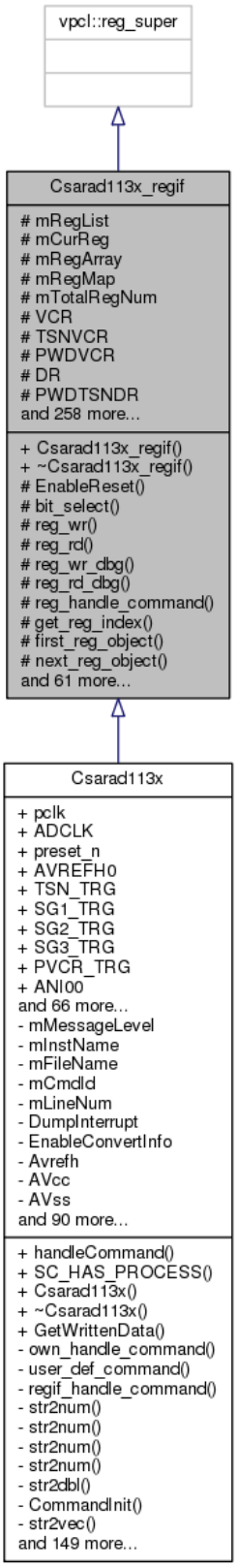
- sarad113x_fsm.h
- sarad113x_fsm.cpp

Csarad113x_regif Class Reference

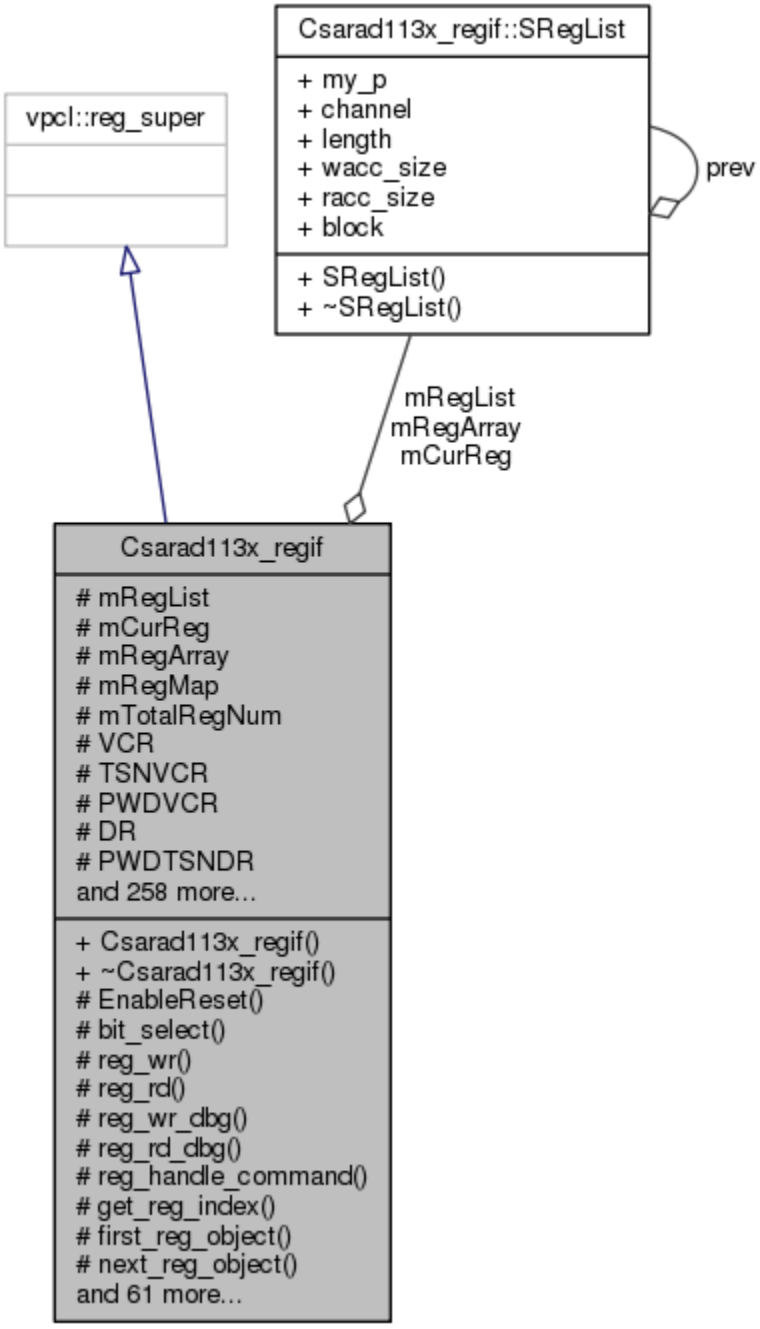
Register IF class of SARAD113x model.

`#include <sarad113x_regif.h>`

Inheritance diagram for Csarad113x_regif:


vpcl::reg_super
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 90 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...

Collaboration diagram for Csarad113x_regif:



Classes

- struct RegCBstr
- struct SRegList

Public Member Functions

- Csarad113x_regif (std::string name, uint buswidth)
- ~Csarad113x_regif ()

Protected Types

- enum eRegGroup { emNum_of_gr }
- enum eRegIndex { emNUM_VCR = 50, emNUM_DR = 25, emNUM_DIR = 50, emNUM_ULLMTBR = 3, emNUM_SGSTCR = 3, emNUM_SGCR = 3, emNUM_SGSEFCR = 3, emNUM_SGVCSP = 3, emNUM_SGVCEP = 3, emNUM_SGMCYCR = 3, emNUM_SGTSEL = 3 }
- 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)
- virtual void cb_VCR_GCTRL (RegCBstr str)=0
- virtual void cb_TSNVCR_ULS (RegCBstr str)=0
- virtual void cb_DR_DR0 (RegCBstr str)=0
- virtual void cb_PWDTSNDR_TSNDR (RegCBstr str)=0
- virtual void cb_DIR_DR (RegCBstr str)=0
- virtual void cb_TSNDIR_TSNDR (RegCBstr str)=0
- virtual void cb_PWDDIR_PWDDR (RegCBstr str)=0
- virtual void cb_ADHALTR_HALT (RegCBstr str)=0
- virtual void cb_ADCR_SUSMTD (RegCBstr str)=0
- virtual void cb_TSNCR_TSNEN (RegCBstr str)=0
- virtual void cb_THSMPSTCR_SMPST (RegCBstr str)=0
- virtual void cb_THCR_ASMPMSK (RegCBstr str)=0
- virtual void cb_THAHLDSTCR_HLDST (RegCBstr str)=0
- virtual void cb_THBHLDSTCR_HLDST (RegCBstr str)=0
- virtual void cb_THACR_SGS (RegCBstr str)=0
- virtual void cb_THBCR_SGS (RegCBstr str)=0
- virtual void cb_THER_TH0E (RegCBstr str)=0
- virtual void cb_THGSR_TH0GS (RegCBstr str)=0
- virtual void cb_SFTCR_OWEIE (RegCBstr str)=0
- virtual void cb_ULLMTBR_ULMTB (RegCBstr str)=0
- virtual void cb_ECR_ULEC (RegCBstr str)=0
- virtual void cb_DGCTL0_PSEL0 (RegCBstr str)=0
- virtual void cb_DGCTL1_CDG00 (RegCBstr str)=0

- virtual void cb_PDCTL1_PDNA00 (RegCBstr str)=0
- virtual void cb_PDCTL2_PDNB00 (RegCBstr str)=0
- virtual void cb_SMPCR_SMPT (RegCBstr str)=0
- virtual void cb_TSNSMPCR_TSNSMPT (RegCBstr str)=0
- virtual void cb_EMUCR_SVSDIS (RegCBstr str)=0
- virtual void cb_SGPRCR_SGPR0 (RegCBstr str)=0
- virtual void cb_SGSTCR_SGSTn (RegCBstr str)=0
- virtual void cb_TSNSGSTCR_TSNSGST (RegCBstr str)=0
- virtual void cb_PWDSGSTCR_PWDSGST (RegCBstr str)=0
- virtual void cb_SGCR_ADIE (RegCBstr str)=0
- virtual void cb_TSNSGCR_TSNTRGMD (RegCBstr str)=0
- virtual void cb_PWDSGCR_PWDTRGMD (RegCBstr str)=0
- virtual void cb_SGSEFCR_SEFCn (RegCBstr str)=0
- virtual void cb_TSNSGSEFCR_TSNSEFC (RegCBstr str)=0
- virtual void cb_PWDSGSEFCR_PWDSEFC (RegCBstr str)=0
- virtual void cb_SGVCSP_VCSP (RegCBstr str)=0
- virtual void cb_SGVCEP_VCEP (RegCBstr str)=0
- virtual void cb_SGMCYCR_MCYC (RegCBstr str)=0
- virtual void cb_SGTSEL_TxSEL00 (RegCBstr str)=0
- 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)
- bool ChkAddrWithFactorIndex (cuint num, cuint factor_index[], cuint len)

Protected Attributes

- struct Csarad113x_regif::SRegList * mRegList
- struct Csarad113x_regif::SRegList * mCurReg
- struct
- Csarad113x_regif::SRegList ** mRegArray
- uint * mRegMap
- uint mTotalRegNum
- vpcl::re_register * VCR [50]
- vpcl::re_register * TSNVCR
- vpcl::re_register * PWDVCR

- vpcl::re_register * DR [25]
- vpcl::re_register * PWDTSNDR
- vpcl::re_register * DIR [50]
- vpcl::re_register * TSNDIR
- vpcl::re_register * PWDDIR
- vpcl::re_register * ADHALTR
- vpcl::re_register * ADCR
- vpcl::re_register * SGSTR
- vpcl::re_register * MPXCURR
- vpcl::re_register * TSNCR
- vpcl::re_register * THSMPSTCR
- vpcl::re_register * THCR
- vpcl::re_register * THAHLDSTCR
- vpcl::re_register * THBHLDSTCR
- vpcl::re_register * THACR
- vpcl::re_register * THBCR
- vpcl::re_register * THER
- vpcl::re_register * THGSR
- vpcl::re_register * SFTCR
- vpcl::re_register * ULLMTBR [3]
- vpcl::re_register * ECR
- vpcl::re_register * ULER
- vpcl::re_register * OWER
- vpcl::re_register * DGCTL0
- vpcl::re_register * DGCTL1
- vpcl::re_register * PDCTL1
- vpcl::re_register * PDCTL2
- vpcl::re_register * SMPCR
- vpcl::re_register * TSNSMPCR
- vpcl::re_register * EMUCR
- vpcl::re_register * SGPRCR
- vpcl::re_register * TRMCR
- vpcl::re_register * ADTSTRA
- vpcl::re_register * ADTSTRB
- vpcl::re_register * ADTSTRC
- vpcl::re_register * SGSTCR [4]
- vpcl::re_register * TSNSGSTCR
- vpcl::re_register * PWDSGSTCR
- vpcl::re_register * SGCR [4]
- vpcl::re_register * TSNSGCR
- vpcl::re_register * PWDSGCR
- vpcl::re_register * SGSEFCR [4]
- vpcl::re_register * TSNSGSEFCR
- vpcl::re_register * PWDSGSEFCR
- vpcl::re_register * SGVCSP [4]
- vpcl::re_register * SGVCEP [4]
- vpcl::re_register * SGMCYCR [4]
- vpcl::re_register * SGTSEL [4]
- uint VCR_MPXE [50]

- uint VCR_MPXV [50]
- uint VCR_CNVCLS [50]
- uint VCR_ULS [50]
- uint VCR_ADIE [50]
- uint VCR_GCTRL [50]
- uint TSNVCR_ULS
- uint TSNVCR_TSNGCTRL
- uint PWDVCR_MPXE
- uint PWDVCR_MPXV
- uint PWDVCR_ULS
- uint PWDVCR_GCTRL
- uint DR_DR1 [25]
- uint DR_DR0 [25]
- uint PWDTSNDR_PWDDR
- uint PWDTSNDR_TSNDR
- uint DIR_MPXE [50]
- uint DIR_MPXV [50]
- uint DIR_WFLG [50]
- uint DIR_ID [50]
- uint DIR_DR [50]
- uint TSNDIR_WFLG
- uint TSNDIR_ID
- uint TSNDIR_TSNDR
- uint PWDDIR_MPXE
- uint PWDDIR_MPXV
- uint PWDDIR_WFLG
- uint PWDDIR_ID
- uint PWDDIR_PWDDR
- uint ADHALTR_HALT
- uint ADCR_DGON
- uint ADCR_TSNSELFDIAG
- uint ADCR_CRAC
- uint ADCR_CTYP
- uint ADCR_SUSMTD
- uint SGSTR_SHACT
- uint SGSTR_SGACT
- uint SGSTR_SEF
- uint MPXCURR_MPXCUR
- uint TSNCR_TSNEN
- uint THSMPSTCR_SMPST
- uint THCR_ASMPMSK
- uint THAHLDSTCR_HLDST
- uint THBHLDSTCR_HLDST
- uint THACR_HLDCTE
- uint THACR_HLDTE
- uint THACR_SGS
- uint THBCR_HLDCTE
- uint THBCR_HLDTE
- uint THBCR_SGS

- uint THER_TH5E
- uint THER_TH4E
- uint THER_TH3E
- uint THER_TH2E
- uint THER_TH1E
- uint THER_TH0E
- uint THGSR_TH5GS
- uint THGSR_TH4GS
- uint THGSR_TH3GS
- uint THGSR_TH2GS
- uint THGSR_TH1GS
- uint THGSR_TH0GS
- uint SFTCR_RDCLRE
- uint SFTCR_ULEIE
- uint SFTCR_OWEIE
- uint ULLMTBR_ULMTB [3]
- uint ULLMTBR_LLMTB [3]
- uint ECR_ULEC
- uint ECR_OWEC
- uint ULER_UE
- uint ULER_LE
- uint ULER_ULSG
- uint ULER_MPXE
- uint ULER_MPXV
- uint ULER_ULE
- uint ULER_ULECAP
- uint OWER_OWE
- uint OWER_OWECAP
- uint DGCTL0_PSEL2
- uint DGCTL0_PSEL1
- uint DGCTL0_PSEL0
- uint DGCTL1_CDG15
- uint DGCTL1_CDG14
- uint DGCTL1_CDG13
- uint DGCTL1_CDG12
- uint DGCTL1_CDG11
- uint DGCTL1_CDG10
- uint DGCTL1_CDG09
- uint DGCTL1_CDG08
- uint DGCTL1_CDG07
- uint DGCTL1_CDG06
- uint DGCTL1_CDG05
- uint DGCTL1_CDG04
- uint DGCTL1_CDG03
- uint DGCTL1_CDG02
- uint DGCTL1_CDG01
- uint DGCTL1_CDG00
- uint PDCTL1_PDNA15
- uint PDCTL1_PDNA14

- uint PDCTL1_PDNA13
- uint PDCTL1_PDNA12
- uint PDCTL1_PDNA11
- uint PDCTL1_PDNA10
- uint PDCTL1_PDNA09
- uint PDCTL1_PDNA08
- uint PDCTL1_PDNA07
- uint PDCTL1_PDNA06
- uint PDCTL1_PDNA05
- uint PDCTL1_PDNA04
- uint PDCTL1_PDNA03
- uint PDCTL1_PDNA02
- uint PDCTL1_PDNA01
- uint PDCTL1_PDNA00
- uint PDCTL2_PDNB19
- uint PDCTL2_PDNB18
- uint PDCTL2_PDNB17
- uint PDCTL2_PDNB16
- uint PDCTL2_PDNB15
- uint PDCTL2_PDNB14
- uint PDCTL2_PDNB13
- uint PDCTL2_PDNB12
- uint PDCTL2_PDNB11
- uint PDCTL2_PDNB10
- uint PDCTL2_PDNB09
- uint PDCTL2_PDNB08
- uint PDCTL2_PDNB07
- uint PDCTL2_PDNB06
- uint PDCTL2_PDNB05
- uint PDCTL2_PDNB04
- uint PDCTL2_PDNB03
- uint PDCTL2_PDNB02
- uint PDCTL2_PDNB01
- uint PDCTL2_PDNB00
- uint SMPCR_SMPT
- uint TSNSMPCR_TSNSMPT
- uint EMUCR_SVSDIS
- uint SGPRCR_SGPR4
- uint SGPRCR_SGPR3
- uint SGPRCR_SGPR2
- uint SGPRCR_SGPR1
- uint SGPRCR_SGPR0
- uint TRMCR_TRMS
- uint TRMCR_TRMDGSTBY
- uint TRMCR_TRMTSNTUNE
- uint TRMCR_TRMTTUNE
- uint TRMCR_TRMBTUNE
- uint TRMCR_TRMATUNE
- uint TRMCR_TRMTSN

- uint TRMCR_TRMT
- uint TRMCR_TRMB
- uint TRMCR_TRMA
- uint ADTSTRA_ADTST
- uint ADTSTRB_ADVAL
- uint ADTSTRC_CKSTP
- uint ADTSTRC_SYNCERR
- uint ADTSTRC_ADMD8
- uint ADTSTRC_ADMD7
- uint ADTSTRC_ADMD6
- uint ADTSTRC_ADMD5
- uint ADTSTRC_ADMD4
- uint ADTSTRC_ADMD3
- uint ADTSTRC_ADMD
- uint SGSTCR_SGSTn [4]
- uint TSNSGSTCR_TSNSGST
- uint PWDSGSTCR_PWDSGST
- uint SGCR_SCANMD [4]
- uint SGCR_ADIE [4]
- uint SGCR_SCT [4]
- uint SGCR_TRGMD [4]
- uint TSNSGCR_TSNTRGMD
- uint PWDSGCR_PWDTRGMD
- uint SGSEFCR_SEFCn [4]
- uint TSNSGSEFCR_TSNSEFC
- uint PWDSGSEFCR_PWDSEFC
- uint SGVCSP_VCSP [4]
- uint SGVCEP_VCEP [4]
- uint SGMCYCR_MCYC [4]
- uint SGTSEL_TxSEL15 [4]
- uint SGTSEL_TxSEL14 [4]
- uint SGTSEL_TxSEL13 [4]
- uint SGTSEL_TxSEL12 [4]
- uint SGTSEL_TxSEL11 [4]
- uint SGTSEL_TxSEL10 [4]
- uint SGTSEL_TxSEL09 [4]
- uint SGTSEL_TxSEL08 [4]
- uint SGTSEL_TxSEL07 [4]
- uint SGTSEL_TxSEL06 [4]
- uint SGTSEL_TxSEL05 [4]
- uint SGTSEL_TxSEL04 [4]
- uint SGTSEL_TxSEL03 [4]
- uint SGTSEL_TxSEL02 [4]
- uint SGTSEL_TxSEL01 [4]
- uint SGTSEL_TxSEL00 [4]
- 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(Csarad113x_regif::*)(RegCBstr)> > mWrCbAPI
- std::map< std::string,
- std::map< std::string, void(Csarad113x_regif::*)(RegCBstr)> > mRdCbAPI
- std::string mFileName
- std::string mInstName
- int mLineNum
- uint mFactorIndexSGSTCR [emNUM_SGSTCR]
- uint mFactorIndexSGCR [emNUM_SGCR]
- uint mFactorIndexSGSEFCR [emNUM_SGSEFCR]
- uint mFactorIndexSGVCSP [emNUM_SGVCSP]
- uint mFactorIndexSGVCEP [emNUM_SGVCEP]
- uint mFactorIndexSGMCYCR [emNUM_SGMCYCR]
- uint mFactorIndexSGTSEL [emNUM_SGTSEL]

Detailed Description

Register IF class of SARAD113x model.

Definition at line 464 of file sarad113x_regif.h.

Member Typedef Documentation

typedef const unsigned int Csarad113x_regif::cuint [protected]

Definition at line 468 of file sarad113x_regif.h.

typedef unsigned int Csarad113x_regif::uint [protected]

Definition at line 469 of file sarad113x_regif.h.

Member Enumeration Documentation

enum Csarad113x_regif::eRegGroup [protected]

Enumerator:

emNum_of_gr

Definition at line 474 of file sarad113x_regif.h.

enum Csarad113x_regif::eRegIndex [protected]

Enumerator:

emNUM_VCR
emNUM_DR
emNUM_DIR
emNUM_ULLMTBR
emNUM_SGSTCR
emNUM_SGCR
emNUM_SGSEFCR
emNUM_SGVCSP
emNUM_SGVCEP
emNUM_SGMCYCR
emNUM_SGTSEL

Definition at line 477 of file sarad113x_regif.h.

Constructor & Destructor Documentation

Csarad113x_regif::Csarad113x_regif (std::string *name*, uint *buswidth*)

Constructor of Register IF class: define registers and bits

Returns:

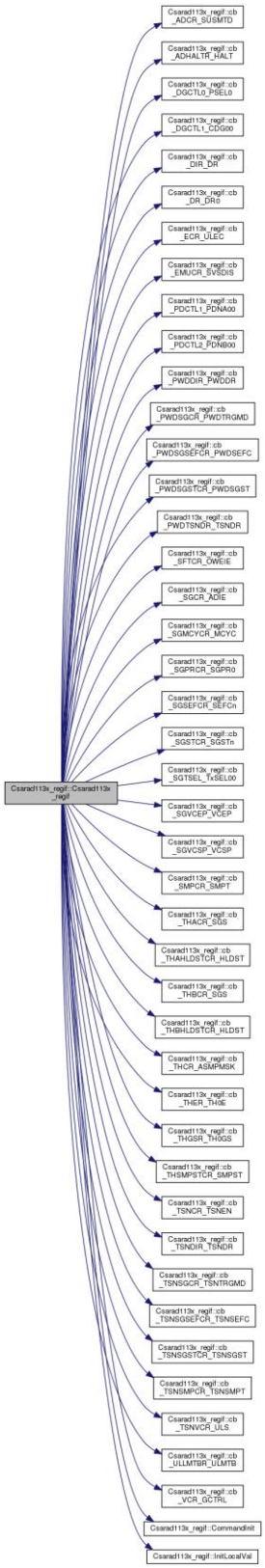
none

Definition at line 452 of file sarad113x_regif.cpp.

References ADCR, ADHALTR, ADTSTRA, ADTSTRB, ADTSTRC, cb_ADCR_SUSMTD(), cb_ADHALTR_HALT(), cb_DGCTL0_PSEL0(), cb_DGCTL1_CDG00(), cb_DIR_DR(), cb_DR_DR0(), cb_ECR_ULEC(), cb_EMUCR_SVSDIS(), cb_PDCTL1_PDNA00(), cb_PDCTL2_PDNB00(), cb_PWDDIR_PWDDR(), cb_PWDSGCR_PWDTRGMD(), cb_PWDSGSEFCR_PWDSEFC(), cb_PWDSGSTCR_PWDSGST(), cb_PWDTSNDR_TSNDR(), cb_SFTCR_OWEIE(), cb_SGCR_ADIE(), cb_SGMCYCR_MCYC(), cb_SGPRCR_SGPR0(), cb_SGSEFCR_SEFCn(), cb_SGSTCR_SGSTn(), cb_SGTSEL_TxSEL00(), cb_SGVCEP_VCEP(), cb_SGVCSP_VCSP(), cb_SMPCR_SMPT(), cb_THACR_SGS(), cb_THAHLDSTCR_HLDST(), cb_THBCR_SGS(), cb_THBHLDSTCR_HLDST(), cb_THCR_ASMPMSK(), cb_THER_TH0E(), cb_THGSR_TH0GS(), cb_THSMPSTCR_SMPST(), cb_TSNCR_TSNEN(), cb_TSNDIR_TSNDR(), cb_TSNSGCR_TSNTRGMD(), cb_TSNSGSEFCR_TSNSEFC(), cb_TSNSGSTCR_TSNSGST(), cb_TSNSMPCR_TSNSMPT(), cb_TSNVCR_ULS(), cb_ULLMTBR_ULMTB(), cb_VCR_GCTRL(), CommandInit(), DGCTL0, DGCTL1, DIR, DR, ECR, emNUM_DIR, emNUM_DR, emNUM_SGCR, emNUM_SGMCYCR, emNUM_SGSEFCR, emNUM_SGSTCR, emNUM_SGTSEL, emNUM_SGVCEP, emNUM_SGVCSP, emNUM_ULLMTBR, emNUM_VCR, EMUCR, InitLocalVal(), mBusByteWidth, mBusWidth, mCurReg, mFactorIndexSGCR, mFactorIndexSGMCYCR, mFactorIndexSGSEFCR, mFactorIndexSGSTCR, mFactorIndexSGTSEL, mFactorIndexSGVCEP, mFactorIndexSGVCSP, mFileName, mInstName, mIsReset, mLineNum, MPXCURR, mRdCbAPI, mRegArray, mRegList, mRegMap, mTotalRegNum, mWrCbAPI, Csarad113x_regif::SRegList::my_p, OWER, PDCTL1, PDCTL2, PWDDIR, PWDSGCR, PWDSGSEFCR, PWDSGSTCR, PWDTSNDR, PWDVCR, SFTCR, SGCR, SGMCYCR, SGPRCR, SGSEFCR, SGSTCR, SGSTR, SGTSEL, SGVCEP, SGVCSP, SMPCR, THACR, THAHLDSTCR,

THBCR, THBHLDSTCR, THCR, THER, THGSR, THSMPSTCR, TRMCR, TSNCR, TSNDIR, TSNSGCR, TSNSGSEFCR, TSNSGSTCR, TSNSMPCR, TSNVCR, ULER, ULLMTBR, and VCR.

Here is the call graph for this function:


Csarad113x_regif::Csarad113x_regif
Csarad113x_regif::cb_ADCR_SUSMTD
Csarad113x_regif::cb_ADHALTR_HALT
Csarad113x_regif::cb_DGCTL0_PSEL0
Csarad113x_regif::cb_DGCTL1_CDG00
Csarad113x_regif::cb_DIR_DR
Csarad113x_regif::cb_DR_DR0
Csarad113x_regif::cb_ECR_ULEC
Csarad113x_regif::cb_EMUCR_SVSDIS
Csarad113x_regif::cb_PDCTL1_PDNA00
Csarad113x_regif::cb_PDCTL2_PDNB00
Csarad113x_regif::cb_PWDDIR_PWDDR
Csarad113x_regif::cb_PWDSGCR_PWDTRGMD
Csarad113x_regif::cb_PWDSGSEFCR_PWDSEFC
Csarad113x_regif::cb_PWDSGSTCR_PWDSGST
Csarad113x_regif::cb_PWDTSNDR_TSNDR
Csarad113x_regif::cb_SFTCR_OWEIE
Csarad113x_regif::cb_SGCR_ADIE
Csarad113x_regif::cb_SGMCYCR_MCYC
Csarad113x_regif::cb_SGPRCR_SGPR0
Csarad113x_regif::cb_SGSEFCR_SEFCn
Csarad113x_regif::cb_SGSTCR_SGSTn
Csarad113x_regif::cb_SGTSEL_TxSEL00
Csarad113x_regif::cb_SGVCEP_VCEP
Csarad113x_regif::cb_SGVCSP_VCSP
Csarad113x_regif::cb_SMPCR_SMPT
Csarad113x_regif::cb_THACR_SGS
Csarad113x_regif::cb_THAHLDSTCR_HLDST
Csarad113x_regif::cb_THBCR_SGS
Csarad113x_regif::cb_THBHLDSTCR_HLDST
Csarad113x_regif::cb_THCR_ASMPMSK
Csarad113x_regif::cb_THER_TH0E
Csarad113x_regif::cb_THGSR_TH0GS
Csarad113x_regif::cb_THSMPSTCR_SMPST
Csarad113x_regif::cb_TSNCR_TSNEN
Csarad113x_regif::cb_TSNDIR_TSNDR
Csarad113x_regif::cb_TSNSGCR_TSNTRGMD
Csarad113x_regif::cb_TSNSGSEFCR_TSNSEFC
Csarad113x_regif::cb_TSNSGSTCR_TSNSGST
Csarad113x_regif::cb_TSNSMPCR_TSNSMPT
Csarad113x_regif::cb_TSNVCR_ULS
Csarad113x_regif::cb_ULLMTBR_ULMTB
Csarad113x_regif::cb_VCR_GCTRL
Csarad113x_regif::CommandInit
Csarad113x_regif::InitLocalVal

Csarad113x_regif::~Csarad113x_regif ()

Destructor: delete pointers

Returns:

none

Definition at line 1261 of file sarad113x_regif.cpp.

References mRegArray, mRegMap, mTotalRegNum, Csarad113x_regif::SRegList::my_p, and Csarad113x_regif::SRegList::prev.

Member Function Documentation

void Csarad113x_regif::_re_printf (const std::string *msg_level*, const char * *message*, ...) [protected]

print message function

Returns:

none

Definition at line 2991 of file sarad113x_regif.cpp.

References mFileName, mInstName, mLineNum, and mMessageLevel.

std::string Csarad113x_regif::AccessRegCommand (const std::vector< std::string > & *args*, vpcl::re_register * *Register*, bool & *BlockReg*) [protected]

process reg_handle_command of "reg" parameter

Returns:

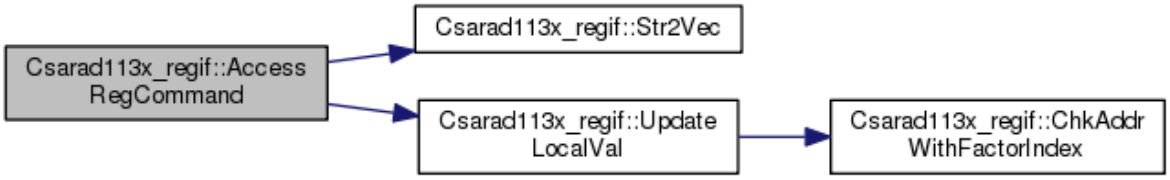
string

Definition at line 1810 of file sarad113x_regif.cpp.

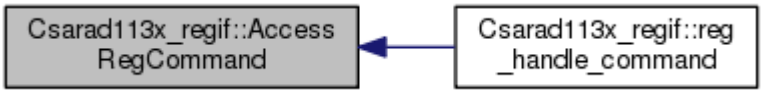
References mInstName, Str2Vec(), and UpdateLocalVal().

Referenced by reg_handle_command().

Here is the call graph for this function:



Here is the caller graph for this function:



Csarad113x_regif::uint Csarad113x_regif::bit_select (cuint *val*, cuint *start*, cuint *end*) [protected]

Mask unselected bit

Returns:

selected value

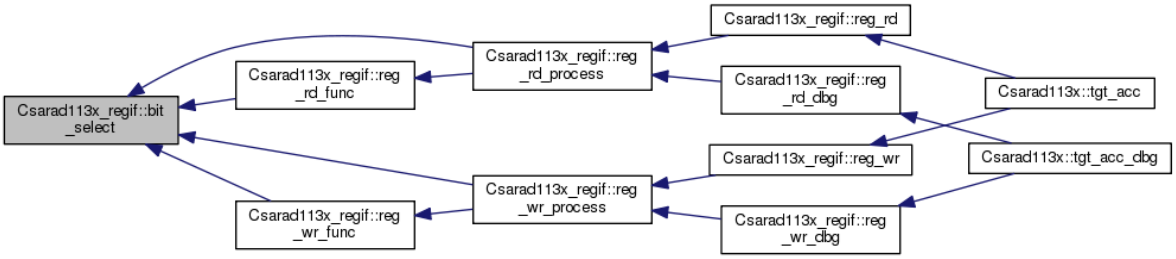
Parameters:

in	*val*	Writting address
in	*start*	start bit position
in	*end*	end bit position

Definition at line 1275 of file sarad113x_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:



virtual void Csarad113x_regif::cb_ADCR_SUSMTD (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_ADHALTR_HALT (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_DGCTL0_PSEL0 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_DGCTL1_CDG00 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_DIR_DR (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_DR_DR0 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_ECR_ULEC (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_EMUCR_SVSDIS (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_PDCTL1_PDNA00 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_PDCTL2_PDNB00 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_PWDDIR_PWDDR (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

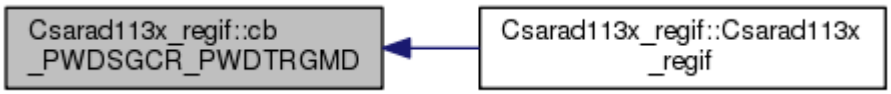
Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_PWDSGCR_PWDTRGMD (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:



virtual void Csarad113x_regif::cb_PWDSGSEFCR_PWDSEFC (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

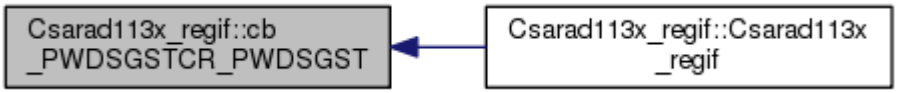
Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_PWDSGSTCR_PWDSGST (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:



virtual void Csarad113x_regif::cb_PWDTSNDR_TSNDR (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SFTCR_OWEIE (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGCR_ADIE (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGMCYCR_MCYC (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGPRCR_SGPR0 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGSEFCR_SEFCn (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGSTCR_SGSTn (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGTSEL_TxSEL00 (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGVCEP_VCEP (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SGVCSP_VCSP (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_SMPCR_SMPT (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THACR_SGS (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THAHLDSTCR_HLDST (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THBCR_SGS (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THBHLDSTCR_HLDST (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THCR_ASMPMSK (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THER_TH0E (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THGSR_TH0GS (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

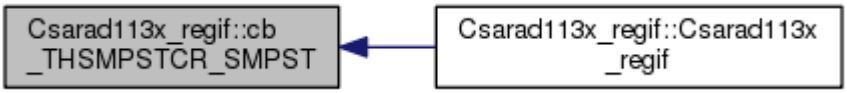
Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_THSMPSTCR_SMPST (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:



virtual void Csarad113x_regif::cb_TSNCR_TSNEN (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_TSNDIR_TSNDR (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_TSNSGCR_TSNTRGMD (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

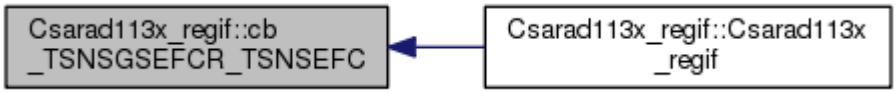
Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_TSNSGSEFCR_TSNSEFC (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

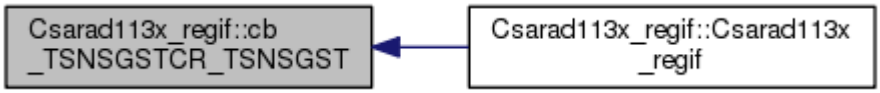


virtual void Csarad113x_regif::cb_TSNSGSTCR_TSNSGST (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

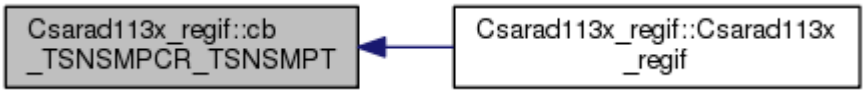


virtual void Csarad113x_regif::cb_TSNSMPCR_TSNSMPT (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:



virtual void Csarad113x_regif::cb_TSNVCR_ULS (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_ULLMTBR_ULMTB (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

virtual void Csarad113x_regif::cb_VCR_GCTRL (RegCBstr *str*) [protected], [pure virtual]

Implemented in Csarad113x.

Referenced by Csarad113x_regif().

Here is the caller graph for this function:

bool Csarad113x_regif::ChkAddrWithFactorIndex (cuint *num*, cuint *factor_index*[], cuint *len*) [protected]

Check address for multiple registers

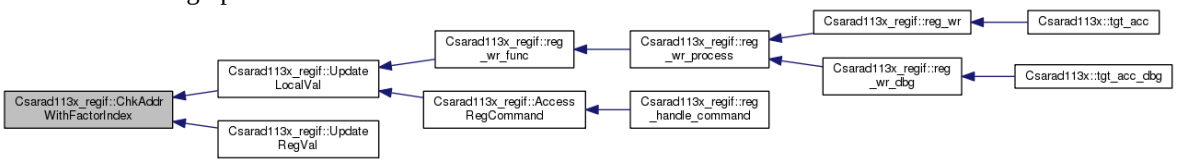
Returns:

true/false

Definition at line 2466 of file sarad113x_regif.cpp.

Referenced by UpdateLocalVal(), and UpdateRegVal().

Here is the caller graph for this function:



bool Csarad113x_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

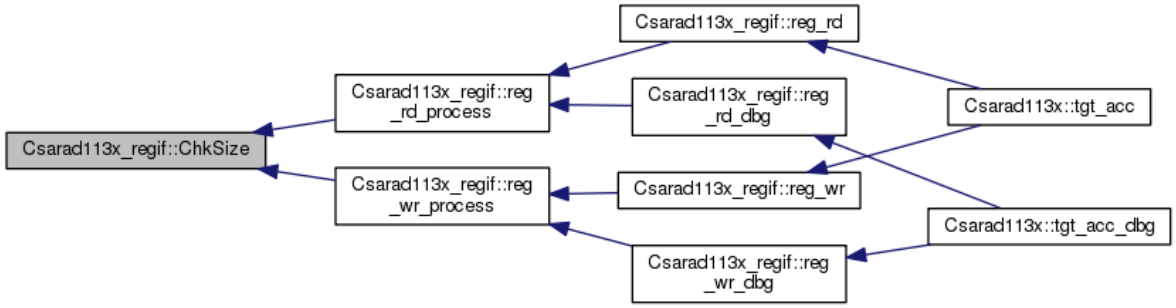
Definition at line 1664 of file sarad113x_regif.cpp.

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 Csarad113x_regif::CommandInit () [protected]

Initialize reg_handle_command variables

Returns:

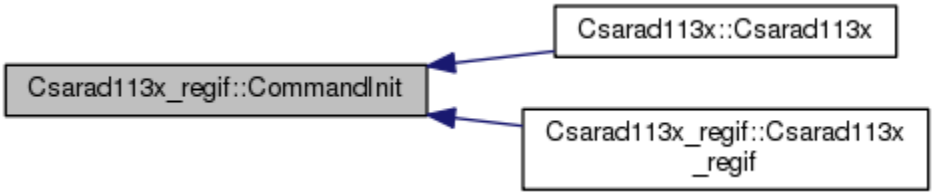
none

Definition at line 1696 of file sarad113x_regif.cpp.

References mAPBAccessMode, mDumpBitInfo, mDumpRegisterRW, and mMessageLevel.

Referenced by Csarad113x::Csarad113x(), and Csarad113x_regif().

Here is the caller graph for this function:



void Csarad113x_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

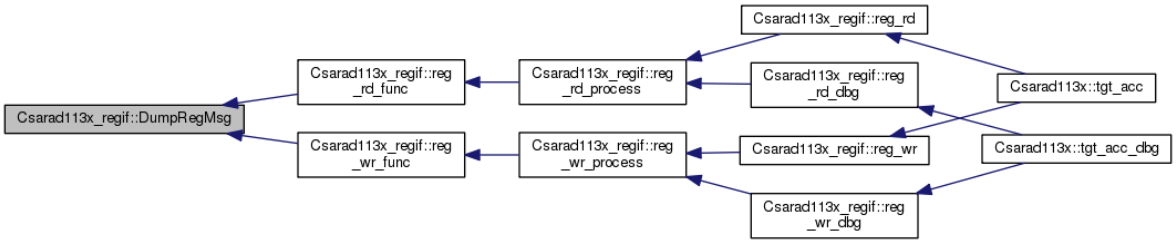
Definition at line 2906 of file sarad113x_regif.cpp.

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 Csarad113x_regif::EnableReset (const bool *is_active*) [protected]

Method to change value of mIsReset

Returns:

none

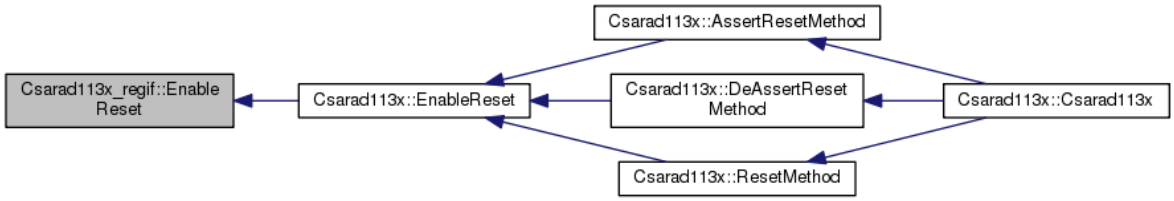
Definition at line 3131 of file sarad113x_regif.cpp.

References InitLocalVal(), mIsReset, mRegArray, mTotalRegNum, Csarad113x_regif::SRegList::my_p, and re_printf.

Referenced by Csarad113x::EnableReset().

Here is the call graph for this function:

Here is the caller graph for this function:



vpcl::re_register * Csarad113x_regif::first_reg_object () `[protected]`

find first register pointer

Returns:

first register pointer

Definition at line 2946 of file sarad113x_regif.cpp.

References mCurReg, mRegList, and Csarad113x_regif::SRegList::my_p.

void Csarad113x_regif::get_fileline (std::string *filename*, int *line_number*) `[protected]`

Get file name and line number

Returns:

none

Definition at line 3116 of file sarad113x_regif.cpp.

References mFileName, and mLineNum.

int Csarad113x_regif::get_reg_index (cuint *access_addr*) `[protected]`

find register pointer based on accessed address

Returns:

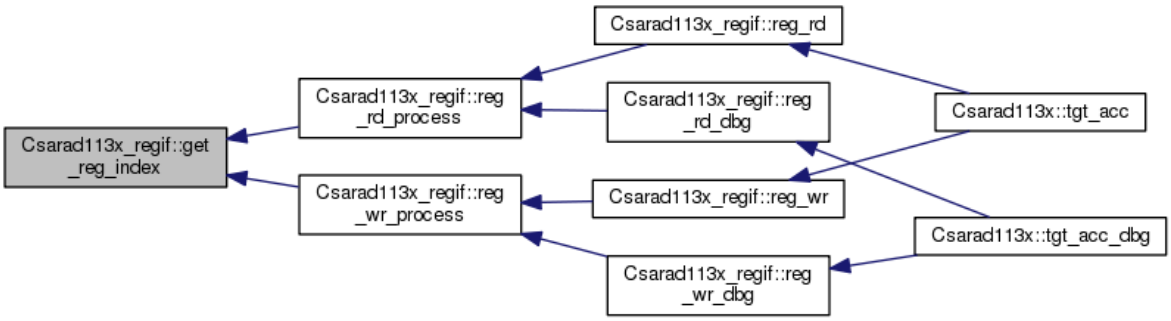
accessed register pointer

Definition at line 2935 of file sarad113x_regif.cpp.

References mRegMap.

Referenced by reg_rd_process(), and reg_wr_process().

Here is the caller graph for this function:



void Csarad113x_regif::InitLocalVal () [protected]

Initialize local variables

Returns:

none

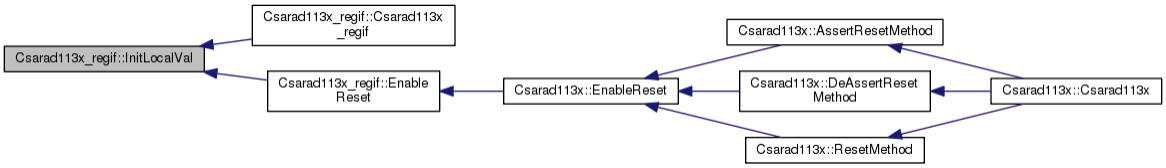
Definition at line 1869 of file sarad113x_regif.cpp.

References ADCR_CRAC, ADCR_CTYP, ADCR_DGON, ADCR_SUSMTD, ADCR_TSNSELFDIAG, ADHALTR_HALT, ADTSTRA_ADTST, ADTSTRB_ADVAL, ADTSTRC_ADMD, ADTSTRC_ADMD3, ADTSTRC_ADMD4, ADTSTRC_ADMD5, ADTSTRC_ADMD6, ADTSTRC_ADMD7, ADTSTRC_ADMD8, ADTSTRC_CKSTP, ADTSTRC_SYNCERR, DGCTL0_PSEL0, DGCTL0_PSEL1, DGCTL0_PSEL2, DGCTL1_CDG00, DGCTL1_CDG01, DGCTL1_CDG02, DGCTL1_CDG03, DGCTL1_CDG04, DGCTL1_CDG05, DGCTL1_CDG06, DGCTL1_CDG07, DGCTL1_CDG08, DGCTL1_CDG09, DGCTL1_CDG10, DGCTL1_CDG11, DGCTL1_CDG12, DGCTL1_CDG13, DGCTL1_CDG14, DGCTL1_CDG15, DIR_DR, DIR_ID, DIR_MPXE, DIR_MPXV, DIR_WFLG, DR_DR0, DR_DR1, ECR_OWEC, ECR_ULEC, emNUM_DIR, emNUM_DR, emNUM_SGCR, emNUM_SGMCYCR, emNUM_SGSEFCR, emNUM_SGSTCR, emNUM_SGTSEL, emNUM_SGVCEP, emNUM_SGVCSP, emNUM_ULLMTBR, emNUM_VCR, EMUCR_SVSDIS, mFactorIndexSGCR, mFactorIndexSGMCYCR, mFactorIndexSGSEFCR, mFactorIndexSGSTCR, mFactorIndexSGTSEL, mFactorIndexSGVCEP, mFactorIndexSGVCSP, MPXCURR_MPXCUR, OWER_OWE, OWER_OWECAP, PDCTL1_PDNA00, PDCTL1_PDNA01, PDCTL1_PDNA02, PDCTL1_PDNA03, PDCTL1_PDNA04, PDCTL1_PDNA05, PDCTL1_PDNA06, PDCTL1_PDNA07, PDCTL1_PDNA08, PDCTL1_PDNA09, PDCTL1_PDNA10, PDCTL1_PDNA11, PDCTL1_PDNA12, PDCTL1_PDNA13, PDCTL1_PDNA14, PDCTL1_PDNA15, PDCTL2_PDNB00, PDCTL2_PDNB01, PDCTL2_PDNB02, PDCTL2_PDNB03, PDCTL2_PDNB04, PDCTL2_PDNB05, PDCTL2_PDNB06, PDCTL2_PDNB07, PDCTL2_PDNB08, PDCTL2_PDNB09, PDCTL2_PDNB10, PDCTL2_PDNB11, PDCTL2_PDNB12, PDCTL2_PDNB13, PDCTL2_PDNB14, PDCTL2_PDNB15, PDCTL2_PDNB16, PDCTL2_PDNB17, PDCTL2_PDNB18, PDCTL2_PDNB19, PWDDIR_ID, PWDDIR_MPXE, PWDDIR_MPXV, PWDDIR_PWDDR, PWDDIR_WFLG, PWDSGCR_PWDTRGMD, PWDSGSEFCR_PWDSEFC, PWDSGSTCR_PWDSGST, PWDTSNDR_PWDDR, PWDTSNDR_TSNDR, PWDVCR_GCTRL, PWDVCR_MPXE, PWDVCR_MPXV, PWDVCR_ULS, SFTCR_OWEIE, SFTCR_RDCLRE, SFTCR_ULEIE, SGCR_ADIE, SGCR_SCANMD, SGCR_SCT, SGCR_TRGMD, SGMCYCR_MCYC, SGPRCR_SGPR0, SGPRCR_SGPR1, SGPRCR_SGPR2, SGPRCR_SGPR3, SGPRCR_SGPR4, SGSEFCR_SEFCn, SGSTCR_SGSTn, SGSTR_SEF, SGSTR_SGACT, SGSTR_SHACT, SGTSEL_TxSEL00, SGTSEL_TxSEL01, SGTSEL_TxSEL02, SGTSEL_TxSEL03, SGTSEL_TxSEL04, SGTSEL_TxSEL05, SGTSEL_TxSEL06, SGTSEL_TxSEL07, SGTSEL_TxSEL08, SGTSEL_TxSEL09, SGTSEL_TxSEL10, SGTSEL_TxSEL11, SGTSEL_TxSEL12, SGTSEL_TxSEL13, SGTSEL_TxSEL14, SGTSEL_TxSEL15, SGVCEP_VCEP, SGVCSP_VCSP, SMPCR_SMPT, THACR_HLDCTE, THACR_HLDTE, THACR_SGS, THAHLDSTCR_HLDST, THBCR_HLDCTE, THBCR_HLDTE,

THBCR_SGS, THBHLDSTCR_HLDST, THCR_ASMPMSK, THER_TH0E, THER_TH1E, THER_TH2E, THER_TH3E, THER_TH4E, THER_TH5E, THGSR_TH0GS, THGSR_TH1GS, THGSR_TH2GS, THGSR_TH3GS, THGSR_TH4GS, THGSR_TH5GS, THSMPSTCR_SMPST, TRMCR_TRMA, TRMCR_TRMATUNE, TRMCR_TRMB, TRMCR_TRMBTUNE, TRMCR_TRMDGSTBY, TRMCR_TRMS, TRMCR_TRMT, TRMCR_TRMTSN, TRMCR_TRMTSNTUNE, TRMCR_TRMTTUNE, TSNCR_TSNEN, TSNDIR_ID, TSNDIR_TSNDR, TSNDIR_WFLG, TSNSGCR_TSNTRGMD, TSNSGSEFCR_TSNSEFC, TSNSGSTCR_TSNSGST, TSNSMPCR_TSNSMPT, TSNVCR_TSNGCTRL, TSNVCR_ULS, ULER_LE, ULER_MPXE, ULER_MPXV, ULER_UE, ULER_ULE, ULER_ULECAP, ULER_ULSG, ULLMTBR_LLMTB, ULLMTBR_ULMTB, VCR_ADIE, VCR_CNVCLS, VCR_GCTRL, VCR_MPXE, VCR_MPXV, and VCR_ULS.

Referenced by Csarad113x_regif(), and EnableReset().

Here is the caller graph for this function:



vpcl::re_register * Csarad113x_regif::next_reg_object () [protected]

find next register pointer

Returns:

next register pointer

Definition at line 2954 of file sarad113x_regif.cpp.

References mCurReg, Csarad113x_regif::SRegList::my_p, and Csarad113x_regif::SRegList::prev.

std::string Csarad113x_regif::Num2HexStr (cuint *num*, cuint *num_length*, bool *space_strip*, bool *is_wr_data*, uint *acc_size*) [protected]

Align nuber to hexadecimal format

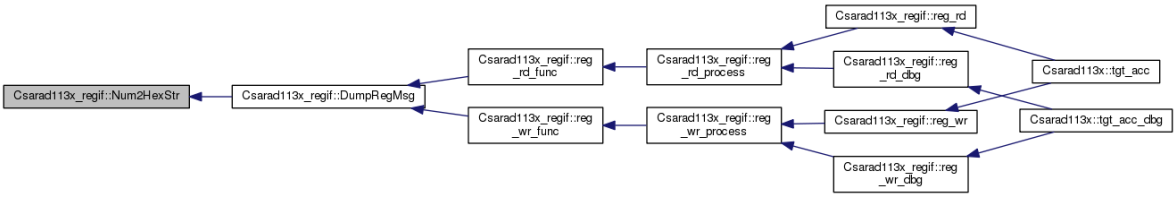
Returns:

aligned number

Definition at line 2882 of file sarad113x_regif.cpp.

Referenced by DumpRegMsg().

Here is the caller graph for this function:



Csarad113x_regif::uint Csarad113x_regif::rd_cb (cuint *addr*) [protected]

read callback function of CoWare

Returns:

read data

Definition at line 2978 of file sarad113x_regif.cpp.

std::string Csarad113x_regif::reg_handle_command (const std::vector< std::string > & *args*) [protected]

Process reg_handle_command command

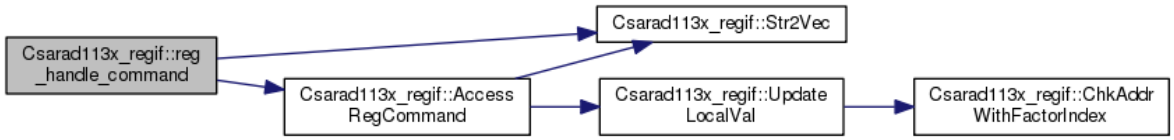
Returns:

string

Definition at line 1709 of file sarad113x_regif.cpp.

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

Here is the call graph for this function:



bool Csarad113x_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:

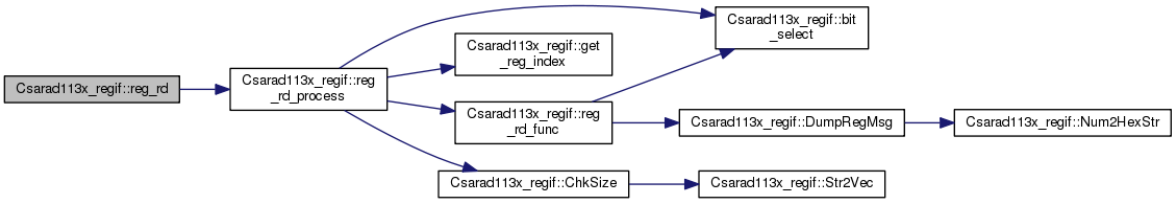
in	*addr*	Reading address
out	*p_data*	Reading data
in	*size*	Data size (byte)

Definition at line 1311 of file sarad113x_regif.cpp.

References mBusByteWidth, re_printf, and reg_rd_process().

Referenced by Csarad113x::tgt_acc().

Here is the call graph for this function:



Here is the caller graph for this function:

bool Csarad113x_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:

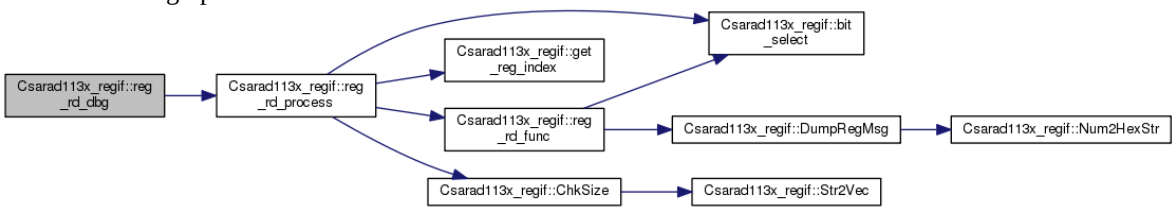
in	*addr*	Reading address
out	*p_data*	Reading data
in	*size*	Data size (byte)

Definition at line 1357 of file sarad113x_regif.cpp.

References mBusByteWidth, re_printf, and reg_rd_process().

Referenced by Csarad113x::tgt_acc_dbg().

Here is the call graph for this function:



Here is the caller graph for this function:

bool Csarad113x_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	*addr*	Reading address
out	*p_data*	Reading data
in	*size*	Data size (byte)
in	*reg_index*	Register index
in	*IsDbgFunc*	Flag indicate reg_rd or reg_rd_dbg

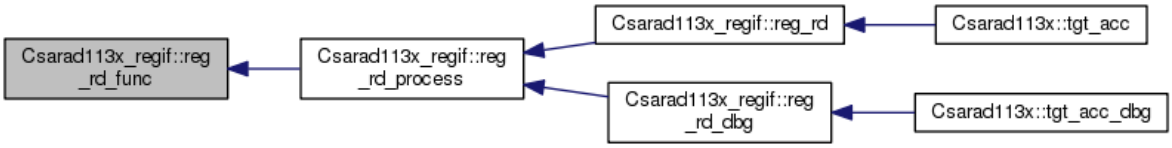
Definition at line 1528 of file sarad113x_regif.cpp.

References bit_select(), DumpRegMsg(), Csarad113x_regif::SRegList::length, mDumpBitInfo, mIsReset, mRdCbAPI, mRegArray, Csarad113x_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 Csarad113x_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:

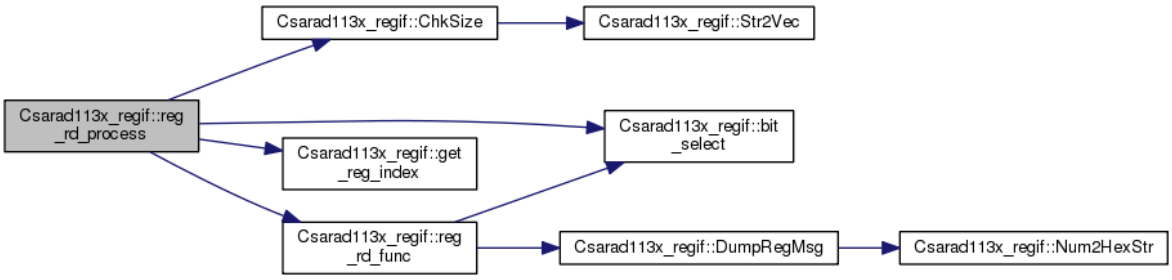
in	*addr*	Reading address
out	*p_data*	Reading data
in	*size*	Data size (byte)
in	*IsDbgFunc*	Flag indicate reg_rd or reg_rd_dbg

Definition at line 1455 of file sarad113x_regif.cpp.

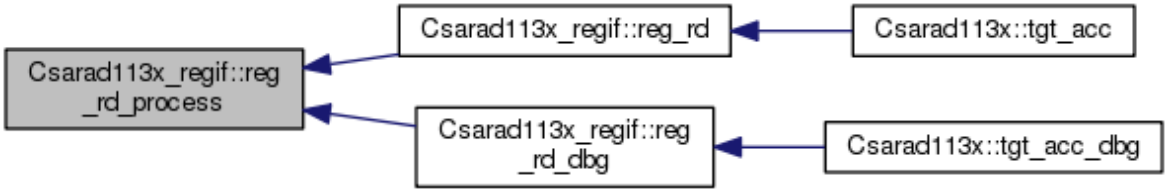
References bit_select(), ChkSize(), get_reg_index(), Csarad113x_regif::SRegList::length, mAPBAccessMode, mBusByteWidth, mRegArray, Csarad113x_regif::SRegList::my_p, re_printf, and reg_rd_func().

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 Csarad113x_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:

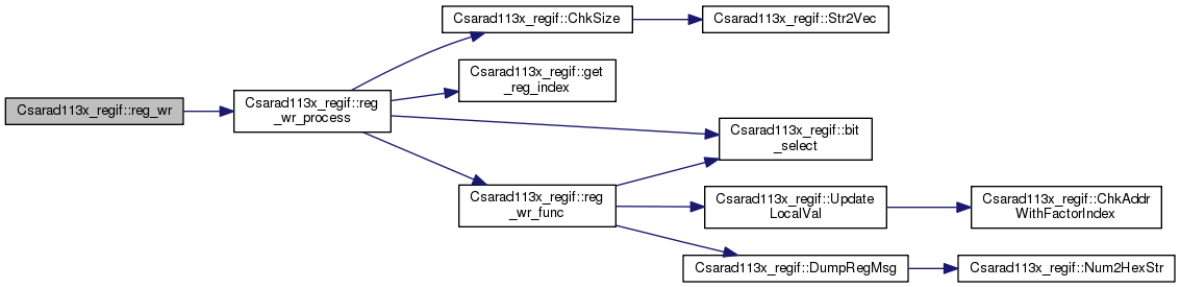
in	*addr*	Writting address
in	*p_data*	Writing data
in	*size*	Data size (byte)

Definition at line 1288 of file sarad113x_regif.cpp.

References mBusByteWidth, re_printf, and reg_wr_process().

Referenced by Csarad113x::tgt_acc().

Here is the call graph for this function:



Here is the caller graph for this function:

bool Csarad113x_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:

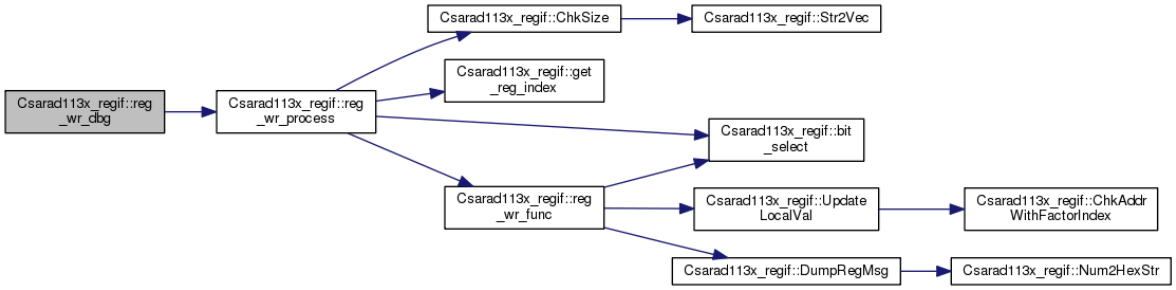
in	*addr*	Writting address
in	*p_data*	Writing data
in	*size*	Data size (byte)

Definition at line 1334 of file sarad113x_regif.cpp.

References mBusByteWidth, re_printf, and reg_wr_process().

Referenced by Csarad113x::tgt_acc_dbg().

Here is the call graph for this function:



Here is the caller graph for this function:

bool Csarad113x_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:

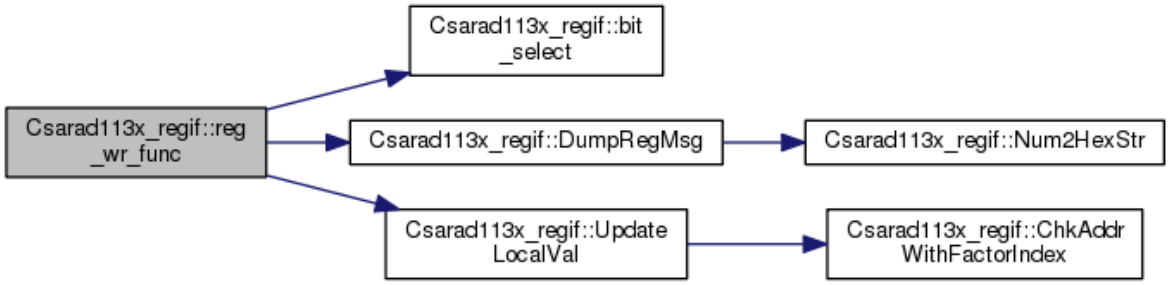
in	*addr*	Writting address
in	*p_data*	Writing data
in	*size*	Data size (byte)
in	*reg_index*	Register index
in	*IsDbgFunc*	Flag indicate reg_wr or reg_wr_dbg

Definition at line 1594 of file sarad113x_regif.cpp.

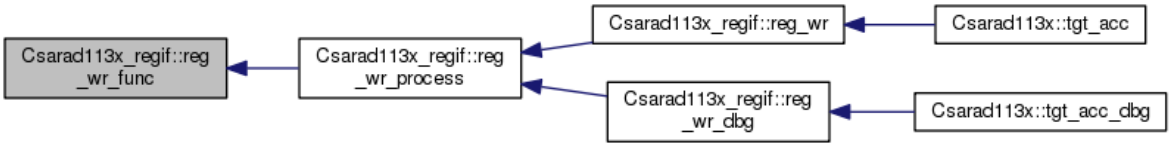
References bit_select(), DumpRegMsg(), Csarad113x_regif::SRegList::length, mDumpBitInfo, mRegArray, mWrCbAPI, Csarad113x_regif::SRegList::my_p, re_printf, and UpdateLocalVal().

Referenced by reg_wr_process().

Here is the call graph for this function:



Here is the caller graph for this function:



bool Csarad113x_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:

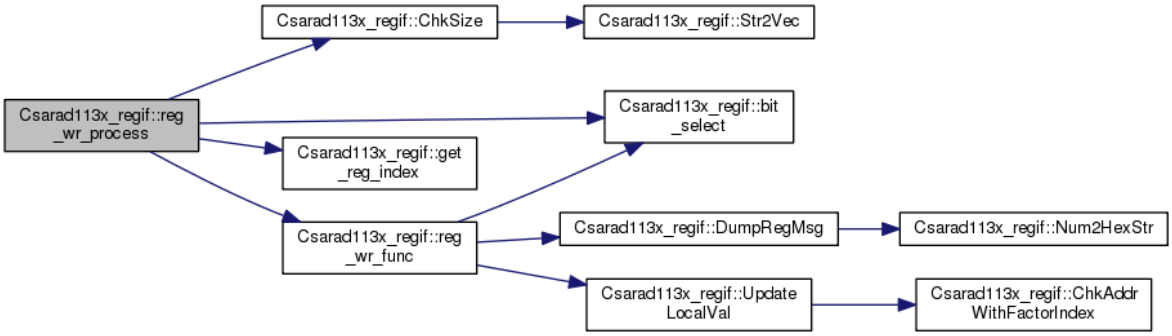
in	*addr*	Writting address
in	*p_data*	Writing data
in	*size*	Data size (byte)
in	*IsDbgFunc*	Flag indicate reg_rd or reg_rd_dbg

Definition at line 1380 of file sarad113x_regif.cpp.

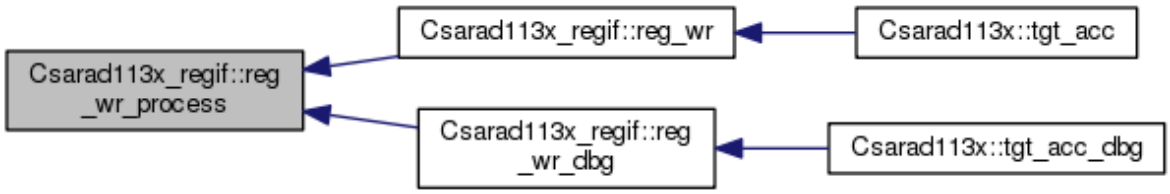
References bit_select(), ChkSize(), get_reg_index(), Csarad113x_regif::SRegList::length, mBusByteWidth, mIsReset, mRegArray, Csarad113x_regif::SRegList::my_p, re_printf, and reg_wr_func().

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 Csarad113x_regif::set_instance_name (std::string *InstName*) [protected]

API for instance registration

Returns:

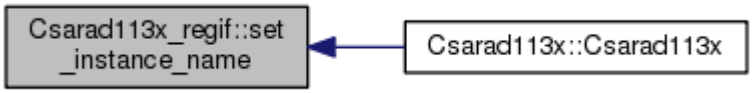
none

Definition at line 3124 of file sarad113x_regif.cpp.

References mInstName.

Referenced by Csarad113x::Csarad113x().

Here is the caller graph for this function:



std::vector< std::string > Csarad113x_regif::Str2Vec (std::string *str*, const char *sep*) [protected]

convert string to vector

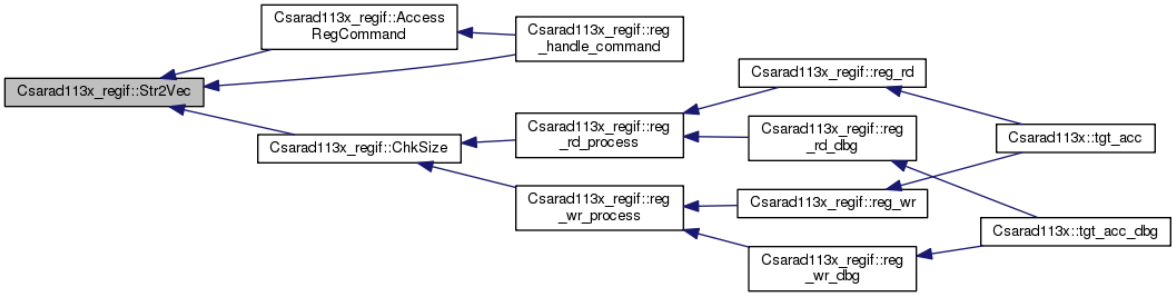
Returns:

vector

Definition at line 2866 of file sarad113x_regif.cpp.

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

Here is the caller graph for this function:



void Csarad113x_regif::UpdateLocalVal (cuint *addr*) [protected]

Update bit value to local value

Returns:

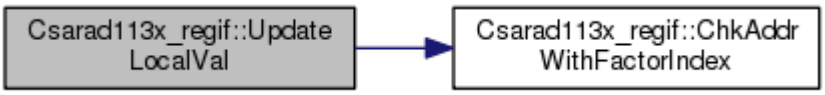
None

Definition at line 2093 of file sarad113x_regif.cpp.

References ADCR_CRAC, ADCR_CTYP, ADCR_DGON, ADCR_SUSMTD, ADCR_TSNSELFDIAG, ADHALTR_HALT, ADTSTRA_ADTST, ADTSTRB_ADVAL, ADTSTRC_ADMD, ADTSTRC_ADMD3, ADTSTRC_ADMD4, ADTSTRC_ADMD5, ADTSTRC_ADMD6, ADTSTRC_ADMD7, ADTSTRC_ADMD8, ADTSTRC_CKSTP, ADTSTRC_SYNCERR, ChkAddrWithFactorIndex(), DGCTL0_PSEL0, DGCTL0_PSEL1, DGCTL0_PSEL2, DGCTL1_CDG00, DGCTL1_CDG01, DGCTL1_CDG02, DGCTL1_CDG03, DGCTL1_CDG04, DGCTL1_CDG05, DGCTL1_CDG06, DGCTL1_CDG07, DGCTL1_CDG08, DGCTL1_CDG09, DGCTL1_CDG10, DGCTL1_CDG11, DGCTL1_CDG12, DGCTL1_CDG13, DGCTL1_CDG14, DGCTL1_CDG15, DIR, DIR_DR, DIR_ID, DIR_MPXE, DIR_MPXV, DIR_WFLG, DR, DR_DR0, DR_DR1, ECR_OWEC, ECR_ULEC, EMUCR_SVSDIS, mFactorIndexSGCR, mFactorIndexSGMCYCR, mFactorIndexSGSEFCR, mFactorIndexSGSTCR, mFactorIndexSGTSEL, mFactorIndexSGVCEP, mFactorIndexSGVCSP, MPXCURR_MPXCUR, OWER_OWE, OWER_OWECAP, PDCTL1_PDNA00, PDCTL1_PDNA01, PDCTL1_PDNA02, PDCTL1_PDNA03, PDCTL1_PDNA04, PDCTL1_PDNA05, PDCTL1_PDNA06, PDCTL1_PDNA07, PDCTL1_PDNA08, PDCTL1_PDNA09, PDCTL1_PDNA10, PDCTL1_PDNA11, PDCTL1_PDNA12, PDCTL1_PDNA13, PDCTL1_PDNA14, PDCTL1_PDNA15, PDCTL2_PDNB00, PDCTL2_PDNB01, PDCTL2_PDNB02, PDCTL2_PDNB03, PDCTL2_PDNB04, PDCTL2_PDNB05, PDCTL2_PDNB06, PDCTL2_PDNB07, PDCTL2_PDNB08, PDCTL2_PDNB09, PDCTL2_PDNB10, PDCTL2_PDNB11, PDCTL2_PDNB12, PDCTL2_PDNB13, PDCTL2_PDNB14, PDCTL2_PDNB15, PDCTL2_PDNB16, PDCTL2_PDNB17, PDCTL2_PDNB18, PDCTL2_PDNB19, PWDDIR_ID, PWDDIR_MPXE, PWDDIR_MPXV, PWDDIR_PWDDR, PWDDIR_WFLG, PWDSGCR_PWDTRGMD, PWDSGSEFCR_PWDSEFC, PWDSGSTCR_PWDSGST, PWDTSNDR_PWDDR, PWDTSNDR_TSNDR, PWDVCR_GCTRL, PWDVCR_MPXE, PWDVCR_MPXV, PWDVCR_ULS, SFTCR_OWEIE, SFTCR_RDCLRE, SFTCR_ULEIE, SGCR, SGCR_ADIE, SGCR_SCANMD, SGCR_SCT, SGCR_TRGMD, SGMCYCR, SGMCYCR_MCYC, SGPRCR_SGPR0, SGPRCR_SGPR1, SGPRCR_SGPR2, SGPRCR_SGPR3, SGPRCR_SGPR4, SGSEFCR, SGSEFCR_SEFCn, SGSTCR, SGSTCR_SGSTn, SGSTR_SEF, SGSTR_SGACT, SGSTR_SHACT, SGTSEL, SGTSEL_TxSEL00, SGTSEL_TxSEL01, SGTSEL_TxSEL02, SGTSEL_TxSEL03, SGTSEL_TxSEL04, SGTSEL_TxSEL05, SGTSEL_TxSEL06, SGTSEL_TxSEL07, SGTSEL_TxSEL08, SGTSEL_TxSEL09, SGTSEL_TxSEL10, SGTSEL_TxSEL11, SGTSEL_TxSEL12, SGTSEL_TxSEL13, SGTSEL_TxSEL14, SGTSEL_TxSEL15, SGVCEP, SGVCEP_VCEP, SGVCSP, SGVCSP_VCSP, SMPCR_SMPT, THACR_HLDCTE, THACR_HLDTE, THACR_SGS, THAHLDSTCR_HLDST, THBCR_HLDCTE, THBCR_HLDTE, THBCR_SGS, THBHLDSTCR_HLDST, THCR_ASMPMSK, THER_TH0E, THER_TH1E, THER_TH2E, THER_TH3E, THER_TH4E, THER_TH5E, THGSR_TH0GS, THGSR_TH1GS, THGSR_TH2GS, THGSR_TH3GS, THGSR_TH4GS, THGSR_TH5GS, THSMPSTCR_SMPST, TRMCR_TRMA, TRMCR_TRMATUNE, TRMCR_TRMB, TRMCR_TRMBTUNE, TRMCR_TRMDGSTBY, TRMCR_TRMS, TRMCR_TRMT, TRMCR_TRMTSN, TRMCR_TRMTSNTUNE, TRMCR_TRMTTUNE, TSNCR_TSNEN, TSNDIR_ID, TSNDIR_TSNDR, TSNDIR_WFLG, TSNSGCR_TSNTRGMD, TSNSGSEFCR_TSNSEFC, TSNSGSTCR_TSNSGST, TSNSMPCR_TSNSMPT, TSNVCR_TSNGCTRL, TSNVCR_ULS, ULER_LE, ULER_MPXE, ULER_MPXV, ULER_UE, ULER_ULE, ULER_ULECAP, ULER_ULSG, ULLMTBR, ULLMTBR_LLMTB, ULLMTBR_ULMTB, VCR, VCR_ADIE, VCR_CNVCLS, VCR_GCTRL, VCR_MPXE, VCR_MPXV, and VCR_ULS.

Referenced by AccessRegCommand(), and reg_wr_func().

Here is the call graph for this function:



Here is the caller graph for this function:

void Csarad113x_regif::UpdateRegVal (cuint *addr*) [protected]

Update local value to bit value

Returns:

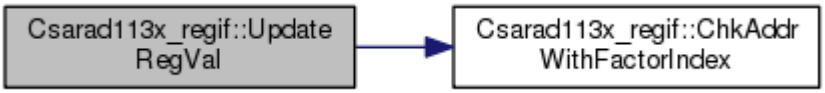
None

Definition at line 2479 of file sarad113x_regif.cpp.

References ADCR_CRAC, ADCR_CTYP, ADCR_DGON, ADCR_SUSMTD, ADCR_TSNSELFDIAG, ADHALTR_HALT, ADTSTRA_ADTST, ADTSTRB_ADVAL, ADTSTRC_ADMD, ADTSTRC_ADMD3, ADTSTRC_ADMD4, ADTSTRC_ADMD5, ADTSTRC_ADMD6, ADTSTRC_ADMD7, ADTSTRC_ADMD8, ADTSTRC_CKSTP, ADTSTRC_SYNCERR, ChkAddrWithFactorIndex(), DGCTL0_PSEL0, DGCTL0_PSEL1, DGCTL0_PSEL2, DGCTL1_CDG00, DGCTL1_CDG01, DGCTL1_CDG02, DGCTL1_CDG03, DGCTL1_CDG04, DGCTL1_CDG05, DGCTL1_CDG06, DGCTL1_CDG07, DGCTL1_CDG08, DGCTL1_CDG09, DGCTL1_CDG10, DGCTL1_CDG11, DGCTL1_CDG12, DGCTL1_CDG13, DGCTL1_CDG14, DGCTL1_CDG15, DIR, DIR_DR, DIR_ID, DIR_MPXE, DIR_MPXV, DIR_WFLG, DR, DR_DR0, DR_DR1, ECR_OWEC, ECR_ULEC, EMUCR_SVSDIS, mFactorIndexSGCR, mFactorIndexSGMCYCR, mFactorIndexSGSEFCR, mFactorIndexSGSTCR, mFactorIndexSGTSEL, mFactorIndexSGVCEP, mFactorIndexSGVCSP, MPXCURR_MPXCUR, OWER_OWE, OWER_OWECAP, PDCTL1_PDNA00, PDCTL1_PDNA01, PDCTL1_PDNA02, PDCTL1_PDNA03, PDCTL1_PDNA04, PDCTL1_PDNA05, PDCTL1_PDNA06, PDCTL1_PDNA07, PDCTL1_PDNA08, PDCTL1_PDNA09, PDCTL1_PDNA10, PDCTL1_PDNA11, PDCTL1_PDNA12, PDCTL1_PDNA13, PDCTL1_PDNA14, PDCTL1_PDNA15, PDCTL2_PDNB00, PDCTL2_PDNB01, PDCTL2_PDNB02, PDCTL2_PDNB03, PDCTL2_PDNB04, PDCTL2_PDNB05, PDCTL2_PDNB06, PDCTL2_PDNB07, PDCTL2_PDNB08, PDCTL2_PDNB09, PDCTL2_PDNB10, PDCTL2_PDNB11, PDCTL2_PDNB12, PDCTL2_PDNB13, PDCTL2_PDNB14, PDCTL2_PDNB15, PDCTL2_PDNB16, PDCTL2_PDNB17, PDCTL2_PDNB18, PDCTL2_PDNB19, PWDDIR_ID, PWDDIR_MPXE, PWDDIR_MPXV, PWDDIR_PWDDR, PWDDIR_WFLG, PWDSGCR_PWDTRGMD, PWDSGSEFCR_PWDSEFC, PWDSGSTCR_PWDSGST, PWDTSNDR_PWDDR, PWDTSNDR_TSNDR, PWDVCR_GCTRL, PWDVCR_MPXE, PWDVCR_MPXV, PWDVCR_ULS, SFTCR_OWEIE, SFTCR_RDCLRE, SFTCR_ULEIE, SGCR, SGCR_ADIE, SGCR_SCANMD, SGCR_SCT, SGCR_TRGMD, SGMCYCR, SGMCYCR_MCYC, SGPRCR_SGPR0, SGPRCR_SGPR1, SGPRCR_SGPR2, SGPRCR_SGPR3, SGPRCR_SGPR4, SGSEFCR, SGSEFCR_SEFCn, SGSTCR, SGSTCR_SGSTn, SGSTR_SEF, SGSTR_SGACT, SGSTR_SHACT, SGTSEL, SGTSEL_TxSEL00, SGTSEL_TxSEL01, SGTSEL_TxSEL02, SGTSEL_TxSEL03, SGTSEL_TxSEL04, SGTSEL_TxSEL05, SGTSEL_TxSEL06, SGTSEL_TxSEL07, SGTSEL_TxSEL08, SGTSEL_TxSEL09, SGTSEL_TxSEL10, SGTSEL_TxSEL11, SGTSEL_TxSEL12, SGTSEL_TxSEL13, SGTSEL_TxSEL14, SGTSEL_TxSEL15, SGVCEP, SGVCEP_VCEP, SGVCSP, SGVCSP_VCSP, SMPCR_SMPT, THACR_HLDCTE, THACR_HLDTE, THACR_SGS, THAHLDSTCR_HLDST, THBCR_HLDCTE, THBCR_HLDTE, THBCR_SGS, THBHLDSTCR_HLDST, THCR_ASMPMSK, THER_TH0E, THER_TH1E, THER_TH2E, THER_TH3E, THER_TH4E, THER_TH5E, THGSR_TH0GS, THGSR_TH1GS, THGSR_TH2GS, THGSR_TH3GS, THGSR_TH4GS, THGSR_TH5GS, THSMPSTCR_SMPST, TRMCR_TRMA,

TRMCR_TRMATUNE, TRMCR_TRMB, TRMCR_TRMBTUNE, TRMCR_TRMDGSTBY, TRMCR_TRMS, TRMCR_TRMT, TRMCR_TRMTSN, TRMCR_TRMTSNTUNE, TRMCR_TRMTTUNE, TSNCR_TSNEN, TSNDIR_ID, TSNDIR_TSNDR, TSNDIR_WFLG, TSNSGCR_TSNTRGMD, TSNSGSEFCR_TSNSEFC, TSNSGSTCR_TSNSGST, TSNSMPCR_TSNSMPT, TSNVCR_TSNGCTRL, TSNVCR_ULS, ULER_LE, ULER_MPXE, ULER_MPXV, ULER_UE, ULER_ULE, ULER_ULECAP, ULER_ULSG, ULLMTBR, ULLMTBR_LLMTB, ULLMTBR_ULMTB, VCR, VCR_ADIE, VCR_CNVCLS, VCR_GCTRL, VCR_MPXE, VCR_MPXV, and VCR_ULS.

Here is the call graph for this function:



void Csarad113x_regif::wr_cb (cuint *addr*, uint *data*) [protected]

write callback function of CoWare

Returns:

none

Definition at line 2967 of file sarad113x_regif.cpp.

Member Data Documentation

vpcl::re_register* Csarad113x_regif::ADCR [protected]

Definition at line 567 of file sarad113x_regif.h.

Referenced by Csarad113x::ADConvert(), Csarad113x::cb_ADCR_SUSMTD(), Csarad113x::cb_THSMPSTCR_SMPST(), Csarad113x::cb_ULLMTBR_ULMTB(), Csarad113x::CheckSGSetting(), Csarad113x::CheckSuspend(), Csarad113x_regif(), Csarad113x::DumpActivity(), Csarad113x::GetANIPortVal(), Csarad113x::StartVCConv(), and Csarad113x::VCConversionMethod().

uint Csarad113x_regif::ADCR_CRAC [protected]

Definition at line 646 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ADCR_CTYP [protected]

Definition at line 647 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ADCR_DGON [protected]

Definition at line 644 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADCR_SUSMTD [protected]

Definition at line 648 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADCR_TSNSELFDIAG [protected]

Definition at line 645 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::ADHALTR [protected]

Definition at line 566 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_ADHALTR_HALT(), and Csarad113x_regif().

uint Csarad113x_regif::ADHALTR_HALT [protected]

Definition at line 643 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::ADTSTRA [protected]

Definition at line 593 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::ADTSTRA_ADTST [protected]

Definition at line 765 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::ADTSTRB [protected]

Definition at line 594 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::ADTSTRB_ADVAL [protected]

Definition at line 766 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::ADTSTRC `[protected]`

Definition at line 595 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::ADTSTRC_ADMD `[protected]`

Definition at line 775 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADTSTRC_ADMD3 `[protected]`

Definition at line 774 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADTSTRC_ADMD4 `[protected]`

Definition at line 773 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADTSTRC_ADMD5 `[protected]`

Definition at line 772 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADTSTRC_ADMD6 `[protected]`

Definition at line 771 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADTSTRC_ADMD7 `[protected]`

Definition at line 770 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ADTSTRC_ADMD8 `[protected]`

Definition at line 769 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ADTSTRC_CKSTP [protected]

Definition at line 767 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ADTSTRC_SYNCERR [protected]

Definition at line 768 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::DGCTL0 [protected]

Definition at line 584 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), and Csarad113x::UpdateSelfDiag().

uint Csarad113x_regif::DGCTL0_PSEL0 [protected]

Definition at line 694 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DGCTL0_PSEL1 [protected]

Definition at line 693 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DGCTL0_PSEL2 [protected]

Definition at line 692 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::DGCTL1 [protected]

Definition at line 585 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_DGCTL1_CDG00(), Csarad113x_regif(), and Csarad113x::GetANIPortVal().

uint Csarad113x_regif::DGCTL1_CDG00 [protected]

Definition at line 710 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG01 [protected]

Definition at line 709 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG02 [protected]

Definition at line 708 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG03 [protected]

Definition at line 707 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG04 [protected]

Definition at line 706 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG05 [protected]

Definition at line 705 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG06 [protected]

Definition at line 704 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG07 [protected]

Definition at line 703 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG08 [protected]

Definition at line 702 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG09 [protected]

Definition at line 701 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG10 [protected]

Definition at line 700 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG11 [protected]

Definition at line 699 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG12 [protected]

Definition at line 698 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG13 [protected]

Definition at line 697 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG14 [protected]

Definition at line 696 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DGCTL1_CDG15 [protected]

Definition at line 695 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::DIR[50] [protected]

Definition at line 563 of file sarad113x_regif.h.

Referenced by Csarad113x::ClearDIRProcess(), Csarad113x::ClearDRProcess(), Csarad113x_regif(), Csarad113x::StoreADData(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DIR_DR[50] [protected]

Definition at line 634 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DIR_ID[50] [protected]

Definition at line 633 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DIR_MPXE[50] [protected]

Definition at line 630 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DIR_MPXV[50] [protected]

Definition at line 631 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DIR_WFLG[50] [protected]

Definition at line 632 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::DR[25] [protected]

Definition at line 561 of file sarad113x_regif.h.

Referenced by Csarad113x::ClearDIRProcess(), Csarad113x::ClearDRProcess(), Csarad113x_regif(), Csarad113x::StoreADData(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::DR_DR0[25] [protected]

Definition at line 627 of file sarad113x_regif.h.

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

uint Csarad113x_regif::DR_DR1[25] [protected]

Definition at line 626 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::ECR [protected]

Definition at line 581 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_ECR_ULEC(), and Csarad113x_regif().

uint Csarad113x_regif::ECR_OWEC [protected]

Definition at line 682 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ECR_ULEC [protected]

Definition at line 681 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::EMUCR [protected]

Definition at line 590 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_EMUCR_SVSDIS(), and Csarad113x_regif().

uint Csarad113x_regif::EMUCR_SVSDIS [protected]

Definition at line 749 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

bool Csarad113x_regif::mAPBAccessMode [protected]

Definition at line 871 of file sarad113x_regif.h.
Referenced by ChkSize(), CommandInit(), reg_handle_command(), and reg_rd_process().

uint Csarad113x_regif::mBusByteWidth [protected]

Definition at line 867 of file sarad113x_regif.h.

Referenced by ChkSize(), Csarad113x_regif(), reg_rd(), reg_rd_dbg(), reg_rd_process(), reg_wr(), reg_wr_dbg(), and reg_wr_process().

uint Csarad113x_regif::mBusWidth [protected]

Definition at line 868 of file sarad113x_regif.h.

Referenced by Csarad113x_regif().

struct Csarad113x_regif::SRegList * Csarad113x_regif::mCurReg [protected]

Referenced by Csarad113x_regif(), first_reg_object(), and next_reg_object().

bool Csarad113x_regif::mDumpBitInfo [protected]

Definition at line 872 of file sarad113x_regif.h.

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

bool Csarad113x_regif::mDumpRegisterRW [protected]

Definition at line 870 of file sarad113x_regif.h.

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

uint Csarad113x_regif::mFactorIndexSGCR[emNUM_SGCR] [protected]

Definition at line 880 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::mFactorIndexSGMCYCR[emNUM_SGMCYCR] [protected]

Definition at line 884 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::mFactorIndexSGSEFCR[emNUM_SGSEFCR] [protected]

Definition at line 881 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::mFactorIndexSGSTCR[emNUM_SGSTCR] [protected]

Definition at line 879 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::mFactorIndexSGTSEL[emNUM_SGTSEL] [protected]

Definition at line 885 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::mFactorIndexSGVCEP[emNUM_SGVCEP] [protected]

Definition at line 883 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::mFactorIndexSGVCSP[emNUM_SGVCSP] [protected]

Definition at line 882 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

std::string Csarad113x_regif::mFileName [protected]

Definition at line 876 of file sarad113x_regif.h.

Referenced by _re_printf(), Csarad113x_regif(), and get_fileline().

std::string Csarad113x_regif::mInstName [protected]

Definition at line 877 of file sarad113x_regif.h.

Referenced by _re_printf(), AccessRegCommand(), Csarad113x_regif(), reg_handle_command(), and set_instance_name().

bool Csarad113x_regif::mIsReset [protected]

Definition at line 869 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), EnableReset(), reg_rd_func(), and reg_wr_process().

int Csarad113x_regif::mLineNum [protected]

Definition at line 878 of file sarad113x_regif.h.

Referenced by _re_printf(), Csarad113x_regif(), and get_fileline().

std::map<std::string, bool> Csarad113x_regif::mMessageLevel [protected]

Definition at line 873 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::MPXCURR [protected]

Definition at line 569 of file sarad113x_regif.h.

Referenced by Csarad113x_regif().

uint Csarad113x_regif::MPXCURR_MPXCUR [protected]

Definition at line 652 of file sarad113x_regif.h.

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

std::map<std::string, std::map<std::string, void (Csarad113x_regif::*) (RegCBstr)> > Csarad113x_regif::mRdCbAPI [protected]

Definition at line 875 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), and reg_rd_func().

struct Csarad113x_regif::SRegList ** Csarad113x_regif::mRegArray [protected]

Referenced by Csarad113x_regif(), EnableReset(), reg_handle_command(), reg_rd_func(), reg_rd_process(), reg_wr_func(), reg_wr_process(), and ~Csarad113x_regif().

struct Csarad113x_regif::SRegList * Csarad113x_regif::mRegList [protected]

Referenced by Csarad113x_regif(), and first_reg_object().

uint* Csarad113x_regif::mRegMap [protected]

Definition at line 550 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), get_reg_index(), and ~Csarad113x_regif().

uint Csarad113x_regif::mTotalRegNum [protected]

Definition at line 551 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), EnableReset(), reg_handle_command(), and ~Csarad113x_regif().

std::map<std::string, std::map<std::string, void (Csarad113x_regif::*) (RegCBstr)> > Csarad113x_regif::mWrCbAPI [protected]

Definition at line 874 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), and reg_wr_func().

vpcl::re_register* Csarad113x_regif::OWER [protected]

Definition at line 583 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), and Csarad113x::UpdateConversionDataMethod().

uint Csarad113x_regif::OWER_OWE [protected]

Definition at line 690 of file sarad113x_regif.h.

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

uint Csarad113x_regif::OWER_OWECAP [protected]

Definition at line 691 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::PDCTL1 [protected]

Definition at line 586 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_PDCTL1_PDNA00(), Csarad113x_regif(), and Csarad113x::GetANIPortVal().

uint Csarad113x_regif::PDCTL1_PDNA00 [protected]

Definition at line 726 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA01 [protected]

Definition at line 725 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA02 [protected]

Definition at line 724 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA03 [protected]

Definition at line 723 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA04 [protected]

Definition at line 722 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA05 [protected]

Definition at line 721 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA06 [protected]

Definition at line 720 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA07 [protected]

Definition at line 719 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA08 [protected]

Definition at line 718 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA09 [protected]

Definition at line 717 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA10 [protected]

Definition at line 716 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL1_PDNA11 [protected]

Definition at line 715 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA12 [protected]

Definition at line 714 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA13 [protected]

Definition at line 713 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA14 [protected]

Definition at line 712 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL1_PDNA15 [protected]

Definition at line 711 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::PDCTL2 [protected]

Definition at line 587 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_PDCTL2_PDNB00(), Csarad113x_regif(), and Csarad113x::GetANIPortVal().

uint Csarad113x_regif::PDCTL2_PDNB00 [protected]

Definition at line 746 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL2_PDNB01 [protected]

Definition at line 745 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PDCTL2_PDNB02 [protected]

Definition at line 744 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB03 [protected]

Definition at line 743 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB04 [protected]

Definition at line 742 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB05 [protected]

Definition at line 741 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB06 [protected]

Definition at line 740 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB07 [protected]

Definition at line 739 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB08 [protected]

Definition at line 738 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB09 [protected]

Definition at line 737 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB10 [protected]

Definition at line 736 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB11 [protected]

Definition at line 735 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB12 [protected]

Definition at line 734 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB13 [protected]

Definition at line 733 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB14 [protected]

Definition at line 732 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB15 [protected]

Definition at line 731 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB16 [protected]

Definition at line 730 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB17 [protected]

Definition at line 729 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB18 [protected]

Definition at line 728 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PDCTL2_PDNB19 [protected]

Definition at line 727 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::PWDDIR [protected]

Definition at line 565 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::PWDDIR_ID [protected]

Definition at line 641 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PWDDIR_MPXE [protected]

Definition at line 638 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PWDDIR_MPXV [protected]

Definition at line 639 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PWDDIR_PWDDR [protected]

Definition at line 642 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PWDDIR_WFLG [protected]

Definition at line 640 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::PWDSGCR [protected]

Definition at line 601 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_PWDSGCR_PWDTRGMD(), and Csarad113x_regif().

uint Csarad113x_regif::PWDSGCR_PWDTRGMD [protected]

Definition at line 784 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::PWDSGSEFCR [protected]

Definition at line 604 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::PWDSGSEFCR_PWDSEFC [protected]

Definition at line 787 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::PWDSGSTCR [protected]

Definition at line 598 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_PWDSGSTCR_PWDSGST(), and Csarad113x_regif().

uint Csarad113x_regif::PWDSGSTCR_PWDSGST [protected]

Definition at line 778 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::PWDTSNDR [protected]

Definition at line 562 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::PWDTSNDR_PWDDR [protected]

Definition at line 628 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::PWDTSNDR_TSNDR [protected]

Definition at line 629 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::PWDVCR [protected]

Definition at line 560 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), Csarad113x::GetGCTRL(), Csarad113x::GetMPXE(), Csarad113x::GetMPXV(), and Csarad113x::GetULS().

uint Csarad113x_regif::PWDVCR_GCTRL [protected]

Definition at line 625 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PWDVCR_MPXE [protected]

Definition at line 622 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PWDVCR_MPXV [protected]

Definition at line 623 of file sarad113x_regif.h.

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

uint Csarad113x_regif::PWDVCR_ULS [protected]

Definition at line 624 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SFTCR [protected]

Definition at line 579 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SFTCR_OWEIE(), Csarad113x::ClearDIRProcess(), Csarad113x::ClearDRProcess(), Csarad113x_regif(), and Csarad113x::UpdateConversionDataMethod().

uint Csarad113x_regif::SFTCR_OWEIE [protected]

Definition at line 678 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SFTCR_RDCLRE [protected]

Definition at line 676 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SFTCR_ULEIE [protected]

Definition at line 677 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGCR[4] [protected]

Definition at line 599 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGCR_ADIE(), Csarad113x::CheckSGSetting(), Csarad113x_regif(), Csarad113x::GetRepetitionTime(), Csarad113x::GetTRGMD(), Csarad113x::IsContinuousMode(), Csarad113x::UpdateConversionDataMethod(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGCR_ADIE[4] [protected]

Definition at line 780 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGCR_SCANMD[4] [protected]

Definition at line 779 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGCR_SCT[4] [protected]

Definition at line 781 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGCR_TRGMD[4] [protected]

Definition at line 782 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGMCYCR[4] [protected]

Definition at line 607 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGMCYCR_MCYC(), Csarad113x::CheckSGSetting(), Csarad113x_regif(), Csarad113x::DumpActivity(), Csarad113x::IsLastVC(), Csarad113x::UpdateInternalCount(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGMCYCR_MCYC[4] [protected]

Definition at line 790 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGPRCR [protected]

Definition at line 591 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGPRCR_SGPR0(), and Csarad113x_regif().

uint Csarad113x_regif::SGPRCR_SGPR0 [protected]

Definition at line 754 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGPRCR_SGPR1 [protected]

Definition at line 753 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGPRCR_SGPR2 [protected]

Definition at line 752 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGPRCR_SGPR3 [protected]

Definition at line 751 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGPRCR_SGPR4 [protected]

Definition at line 750 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGSEFCR[4] [protected]

Definition at line 602 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGSEFCR_SEFCn(), Csarad113x_regif(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGSEFCR_SEFCn[4] [protected]

Definition at line 785 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGSTCR[4] [protected]

Definition at line 596 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGSTCR_SGSTn(), Csarad113x_regif(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGSTCR_SGSTn[4] [protected]

Definition at line 776 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGSTR [protected]

Definition at line 568 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_PWDSGSTCR_PWDSGST(), Csarad113x::cb_SGSTCR_SGSTn(), Csarad113x::cb_SGVCEP_VCEP(), Csarad113x::cb_SGVCSP_VCSP(), Csarad113x::cb_THGSR_TH0GS(), Csarad113x::cb_THSMPSTCR_SMPST(), Csarad113x::cb_TSNSGSTCR_TSNSGST(), Csarad113x::cb_VCR_GCTRL(), Csarad113x::CheckAccess(), Csarad113x::ClearScanningEndFlag(), Csarad113x_regif(), Csarad113x::UpdateConversionDataMethod(), and Csarad113x::UpdateSGACTMethod().

uint Csarad113x_regif::SGSTR_SEF [protected]

Definition at line 651 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGSTR_SGACT [protected]

Definition at line 650 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGSTR_SHACT [protected]

Definition at line 649 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGTSEL[4] [protected]

Definition at line 608 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGTSEL_TxSEL00(), Csarad113x_regif(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL00[4] [protected]

Definition at line 806 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL01[4] [protected]

Definition at line 805 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL02[4] [protected]

Definition at line 804 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL03[4] [protected]

Definition at line 803 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL04[4] [protected]

Definition at line 802 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL05[4] [protected]

Definition at line 801 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL06[4] [protected]

Definition at line 800 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL07[4] [protected]

Definition at line 799 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL08[4] [protected]

Definition at line 798 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL09[4] [protected]

Definition at line 797 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL10[4] [protected]

Definition at line 796 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL11[4] [protected]

Definition at line 795 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL12[4] [protected]

Definition at line 794 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL13[4] [protected]

Definition at line 793 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGTSEL_TxSEL14[4] [protected]

Definition at line 792 of file sarad113x_regif.h.

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

uint Csarad113x_regif::SGTSEL_TxSEL15[4] [protected]

Definition at line 791 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGVCEP[4] [protected]

Definition at line 606 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGVCEP_VCEP(), Csarad113x::cb_SGVCSP_VCSP(), Csarad113x::CheckSGSetting(), Csarad113x::ClearDIRProcess(), Csarad113x::ClearDRProcess(), Csarad113x_regif(), Csarad113x::IsLastVC(), Csarad113x::StopOperation(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGVCEP_VCEP[4] [protected]

Definition at line 789 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SGVCSP[4] [protected]

Definition at line 605 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGVCEP_VCEP(), Csarad113x::cb_SGVCSP_VCSP(), Csarad113x::CheckSGSetting(), Csarad113x_regif(), Csarad113x::IsLastVC(), Csarad113x::StopOperation(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::SGVCSP_VCSP[4] [protected]

Definition at line 788 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::SMPCR [protected]

Definition at line 588 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SMPCR_SMPT(), Csarad113x_regif(), and Csarad113x::GetSampleTime().

uint Csarad113x_regif::SMPCR_SMPT [protected]

Definition at line 747 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THACR [protected]

Definition at line 575 of file sarad113x_regif.h.

Referenced by Csarad113x::AssertADCATCNVTH(), Csarad113x::cb_THACR_SGS(), Csarad113x::cb_THAHLDSTCR_HLDST(), Csarad113x::cb_THSMPSTCR_SMPST(), Csarad113x::CheckEnableTH(), Csarad113x::CheckHoldComplete(), Csarad113x::CheckHoldStart(), Csarad113x::CheckSGSetting(), Csarad113x::CheckSmpTime(), Csarad113x::CheckTH(), Csarad113x::CheckTHStart(), Csarad113x::CheckTrigger(), Csarad113x_regif(), Csarad113x::IsLastVC(), Csarad113x::ResumeTH(), Csarad113x::SetCurrentSG(), Csarad113x::SuspendScanning(), Csarad113x::VCConversionMethod(), and Csarad113x::VCEndConversionMethod().

uint Csarad113x_regif::THACR_HLDCTE [protected]

Definition at line 658 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THACR_HLDTE [protected]

Definition at line 659 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THACR_SGS [protected]

Definition at line 660 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THAHLDSTCR [protected]

Definition at line 573 of file sarad113x_regif.h.

Referenced by Csarad113x_regif().

uint Csarad113x_regif::THAHLDSTCR_HLDST [protected]

Definition at line 656 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THBCR [protected]

Definition at line 576 of file sarad113x_regif.h.

Referenced by Csarad113x::AssertADCATCNVTH(), Csarad113x::cb_THBCR_SGS(), Csarad113x::cb_THBHLDSTCR_HLDST(), Csarad113x::cb_THSMPSTCR_SMPST(), Csarad113x::CheckEnableTH(), Csarad113x::CheckHoldComplete(), Csarad113x::CheckHoldStart(), Csarad113x::CheckSGSetting(), Csarad113x::CheckSmpTime(), Csarad113x::CheckTH(), Csarad113x::CheckTHStart(), Csarad113x::CheckTrigger(), Csarad113x_regif(), Csarad113x::IsLastVC(), Csarad113x::ResumeTH(), Csarad113x::SetCurrentSG(), Csarad113x::SuspendScanning(), Csarad113x::VCConversionMethod(), and Csarad113x::VCEndConversionMethod().

uint Csarad113x_regif::THBCR_HLDCTE [protected]

Definition at line 661 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THBCR_HLDTE [protected]

Definition at line 662 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THBCR_SGS [protected]

Definition at line 663 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THBHLDSTCR [protected]

Definition at line 574 of file sarad113x_regif.h.

Referenced by Csarad113x_regif().

uint Csarad113x_regif::THBHLDSTCR_HLDST [protected]

Definition at line 657 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THCR [protected]

Definition at line 572 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_THCR_ASMPMSK(), Csarad113x_regif(), and Csarad113x::IsAutoStartSampling().

uint Csarad113x_regif::THCR_ASMPMSK [protected]

Definition at line 655 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THER [protected]

Definition at line 577 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_THAHLDSTCR_HLDST(), Csarad113x::cb_THBHLDSTCR_HLDST(), Csarad113x::cb_THER_TH0E(), Csarad113x::cb_THSMPSTCR_SMPST(), Csarad113x::CheckSGSetting(), Csarad113x::CheckSmpTime(), Csarad113x_regif(), Csarad113x::HoldPortVal(), Csarad113x::SetStartSmpTime(), and Csarad113x::VCConversionMethod().

uint Csarad113x_regif::THER_TH0E [protected]

Definition at line 669 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THER_TH1E [protected]

Definition at line 668 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THER_TH2E [protected]

Definition at line 667 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THER_TH3E [protected]

Definition at line 666 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THER_TH4E [protected]

Definition at line 665 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THER_TH5E [protected]

Definition at line 664 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THGSR [protected]

Definition at line 578 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_THAHLDSTCR_HLDST(), Csarad113x::cb_THBHLDSTCR_HLDST(), Csarad113x::cb_THGSR_TH0GS(), Csarad113x::CheckSGSetting(), Csarad113x::CheckSmpTime(), Csarad113x_regif(), and Csarad113x::HoldPortVal().

uint Csarad113x_regif::THGSR_TH0GS [protected]

Definition at line 675 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THGSR_TH1GS [protected]

Definition at line 674 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THGSR_TH2GS [protected]

Definition at line 673 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THGSR_TH3GS [protected]

Definition at line 672 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THGSR_TH4GS [protected]

Definition at line 671 of file sarad113x_regif.h.

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

uint Csarad113x_regif::THGSR_TH5GS [protected]

Definition at line 670 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::THSMPSTCR [protected]

Definition at line 571 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_THSMPSTCR_SMPST(), and Csarad113x_regif().

uint Csarad113x_regif::THSMPSTCR_SMPST [protected]

Definition at line 654 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::TRMCR [protected]

Definition at line 592 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::TRMCR_TRMA [protected]

Definition at line 764 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TRMCR_TRMATUNE [protected]

Definition at line 760 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TRMCR_TRMB [protected]

Definition at line 763 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TRMCR_TRMBTUNE [protected]

Definition at line 759 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TRMCR_TRMDGSTBY [protected]

Definition at line 756 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TRMCR_TRMS [protected]

Definition at line 755 of file sarad113x_regif.h.

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

uint Csarad113x_regif::TRMCR_TRMT [protected]

Definition at line 762 of file sarad113x_regif.h.

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

uint Csarad113x_regif::TRMCR_TRMTSN [protected]

Definition at line 761 of file sarad113x_regif.h.

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

uint Csarad113x_regif::TRMCR_TRMTSNTUNE [protected]

Definition at line 757 of file sarad113x_regif.h.

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

uint Csarad113x_regif::TRMCR_TRMTTUNE [protected]

Definition at line 758 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::TSNCR [protected]

Definition at line 570 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_TSNCR_TSNEN(), Csarad113x_regif(), and Csarad113x::StartScanning().

uint Csarad113x_regif::TSNCR_TSNEN [protected]

Definition at line 653 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::TSNDIR [protected]

Definition at line 564 of file sarad113x_regif.h.

Referenced by Csarad113x_regif().

uint Csarad113x_regif::TSNDIR_ID [protected]

Definition at line 636 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TSNDIR_TSNDR [protected]

Definition at line 637 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::TSNDIR_WFLG [protected]

Definition at line 635 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::TSNSGCR [protected]

Definition at line 600 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_TSNSGCR_TSNTRGMD(), and Csarad113x_regif().

uint Csarad113x_regif::TSNSGCR_TSNTRGMD [protected]

Definition at line 783 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::TSNSGSEFCR [protected]

Definition at line 603 of file sarad113x_regif.h.
Referenced by Csarad113x_regif().

uint Csarad113x_regif::TSNSGSEFCR_TSNSEFC [protected]

Definition at line 786 of file sarad113x_regif.h.
Referenced by InitLocalVal(), UpdateLocalVal(), and UpdateRegVal().

vpcl::re_register* Csarad113x_regif::TSNSGSTCR [protected]

Definition at line 597 of file sarad113x_regif.h.
Referenced by Csarad113x::cb_TSNSGSTCR_TSNSGST(), and Csarad113x_regif().

uint Csarad113x_regif::TSNSGSTCR_TSNSGST [protected]

Definition at line 777 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::TSNSMPCR [protected]

Definition at line 589 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_TSNSMPCR_TSNSMPT(), Csarad113x_regif(), and Csarad113x::GetSampleTime().

uint Csarad113x_regif::TSNSMPCR_TSNSMPT [protected]

Definition at line 748 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::TSNVCR [protected]

Definition at line 559 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_TSNVCR_ULS(), Csarad113x_regif(), Csarad113x::GetGCTRL(), and Csarad113x::GetULS().

uint Csarad113x_regif::TSNVCR_TSNGCTRL [protected]

Definition at line 621 of file sarad113x_regif.h.

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

uint Csarad113x_regif::TSNVCR_ULS [protected]

Definition at line 620 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::ULER [protected]

Definition at line 582 of file sarad113x_regif.h.

Referenced by Csarad113x_regif(), and Csarad113x::UpdateConversionDataMethod().

uint Csarad113x_regif::ULER_LE [protected]

Definition at line 684 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULER_MPXE [protected]

Definition at line 686 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULER_MPXV [protected]

Definition at line 687 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULER_UE [protected]

Definition at line 683 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULER_ULE [protected]

Definition at line 688 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULER_ULECAP [protected]

Definition at line 689 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULER_ULSG [protected]

Definition at line 685 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::ULLMTBR[3] [protected]

Definition at line 580 of file sarad113x_regif.h.

Referenced by Csarad113x::ADConvert(), Csarad113x::cb_ULLMTBR_ULMTB(), Csarad113x_regif(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::ULLMTBR_LLMTB[3] [protected]

Definition at line 680 of file sarad113x_regif.h.

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

uint Csarad113x_regif::ULLMTBR_ULMTB[3] [protected]

Definition at line 679 of file sarad113x_regif.h.

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

vpcl::re_register* Csarad113x_regif::VCR[50] [protected]

Definition at line 558 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_VCR_GCTRL(), Csarad113x::CheckSGSetting(), Csarad113x_regif(), Csarad113x::DumpActivity(), Csarad113x::GetADIE(), Csarad113x::GetCNVCLSSelfDiag(), Csarad113x::GetGCTRL(), Csarad113x::GetMPXE(), Csarad113x::GetMPXV(), Csarad113x::GetULS(), UpdateLocalVal(), and UpdateRegVal().

uint Csarad113x_regif::VCR_ADIE[50] [protected]

Definition at line 618 of file sarad113x_regif.h.

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

uint Csarad113x_regif::VCR_CNVCLS[50] [protected]

Definition at line 616 of file sarad113x_regif.h.

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

uint Csarad113x_regif::VCR_GCTRL[50] [protected]

Definition at line 619 of file sarad113x_regif.h.

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

uint Csarad113x_regif::VCR_MPXE[50] [protected]

Definition at line 614 of file sarad113x_regif.h.

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

uint Csarad113x_regif::VCR_MPXV[50] [protected]

Definition at line 615 of file sarad113x_regif.h.

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

uint Csarad113x_regif::VCR_ULS[50] [protected]

Definition at line 617 of file sarad113x_regif.h.

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

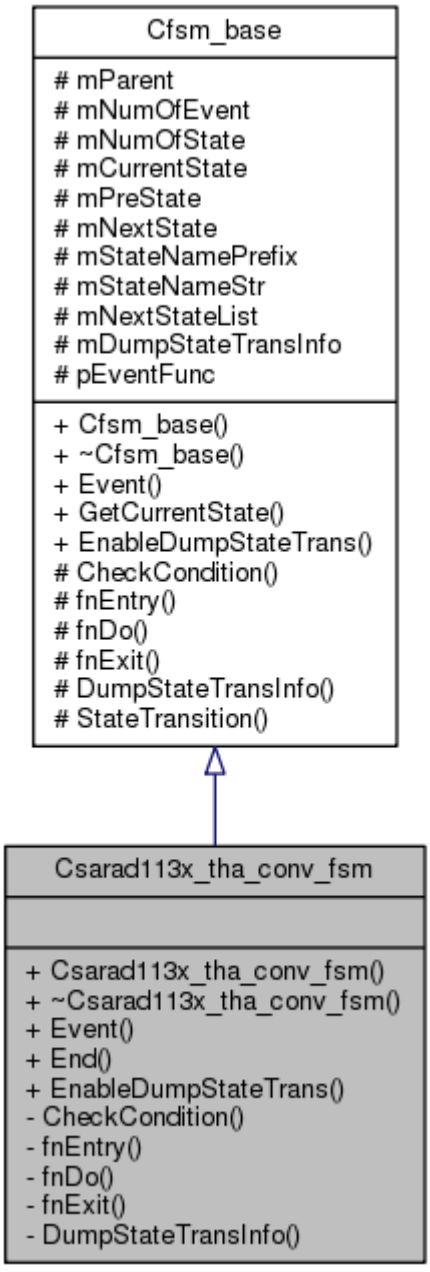
The documentation for this class was generated from the following files:

- sarad113x_regif.h
- sarad113x_regif.cpp

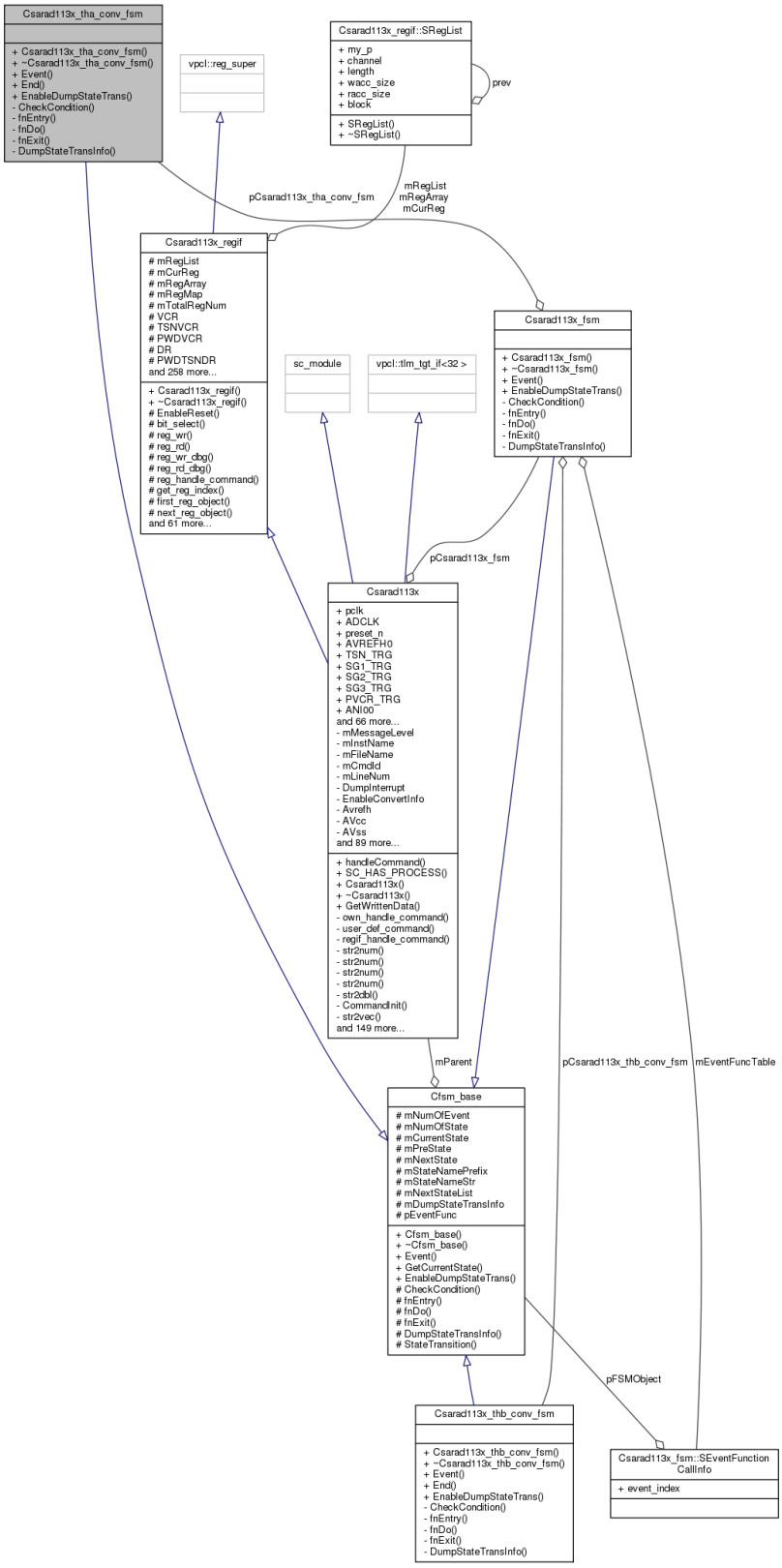
Csarad113x_tha_conv_fsm Class Reference

`#include <sarad113x_fsm.h>`

Inheritance diagram for Csarad113x_tha_conv_fsm:



Collaboration diagram for Csarad113x_tha_conv_fsm:


Csarad113x_tha_conv_fsm
+ Csarad113x_tha_conv_fsm()
+ ~Csarad113x_tha_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
vpcl::reg_super
Csarad113x_regif::SRegList
+ my_p
+ channel
+ length
+ wacc_size
+ racc_size
+ block
prev
+ SRegList()
+ ~SRegList()
pCsarad113x_tha_conv_fsm
mRegList
mRegArray
mCurReg
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
Csarad113x_fsm
+ Csarad113x_fsm()
+ ~Csarad113x_fsm()
+ Event()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
sc_module
vpcl::tlm_tgt_if< 32 >
pCsarad113x_fsm
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 89 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...
mParent
pCsarad113x_thb_conv_fsm
mEventFuncTable
Cfsm_base
mNumOfEvent
mNumOfState
mCurrentState
mPreState
mNextState
mStateNamePrefix
mStateNameStr
mNextStateList
mDumpStateTransInfo
pEventFunc
+ Cfsm_base()
+ ~Cfsm_base()
+ Event()
+ GetCurrentState()
+ EnableDumpStateTrans()
# CheckCondition()
# fnEntry()
# fnDo()
# fnExit()
# DumpStateTransInfo()
# StateTransition()
pFSMObject
Csarad113x_thb_conv_fsm
+ Csarad113x_thb_conv_fsm()
+ ~Csarad113x_thb_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_fsm::SEventFunction CallInfo
+ event_index

Public Types

- enum eState { emStTHA_IDLE, emStTHA_SAMPLING, emStTHA_HOLDING, emStTHA_DELAY_HOLDING, emStTHA_SCANNING, emStTHA_SCANNING_END, emStTHA_VC_CONV, emStTHA_VC_CONV_END, emStTHA_SUSPEND, emStTHA_WAIT_SCANNING_START, emStNA }
- enum eEvent { emEvtTHAHWTrigger, emEvtTHASWTrigger, emEvtTHAStartSampling, emEvtTHAHoldStart, emEvtTHAHoldComplete, emEvtTHAEndHolding, emEvtTHAFinishVCConversion, emEvtTHASuspend, emEvtTHAResume, emEvtEnd, emEvtWOE }

Public Member Functions

- Csarad113x_tha_conv_fsm (Csarad113x *_parent, std::string upper_state="")
- ~Csarad113x_tha_conv_fsm (void)
- void Event (unsigned int event)
- void End (void)
- void EnableDumpStateTrans (bool enable)

Private Member Functions

- void CheckCondition (const unsigned int condition_id)
- void fnEntry (void)
- void fnDo (void)
- void fnExit (void)
- void DumpStateTransInfo (void)

Friends

- class Csarad113x
- class Csarad113x_fsm

Additional Inherited Members

Detailed Description

Definition at line 196 of file sarad113x_fsm.h.

Member Enumeration Documentation

enum Csarad113x_tha_conv_fsm::eEvent

Enumerator:

emEvtTHAHWTrigger
emEvtTHASWTrigger
emEvtTHAStartSampling
emEvtTHAHoldStart
emEvtTHAHoldComplete

emEvtTHAEndHolding
emEvtTHAFinishVCConversion
emEvtTHASuspend
emEvtTHAResume
emEvtEnd
emEvtWOE

Definition at line 215 of file sarad113x_fsm.h.

enum Csarad113x_tha_conv_fsm::eState

Enumerator:

emStTHA_IDLE
emStTHA_SAMPLING
emStTHA_HOLDING
emStTHA_DELAY_HOLDING
emStTHA_SCANNING
emStTHA_SCANNING_END
emStTHA_VC_CONV
emStTHA_VC_CONV_END
emStTHA_SUSPEND
emStTHA_WAIT_SCANNING_START
emStNA

Definition at line 201 of file sarad113x_fsm.h.

Constructor & Destructor Documentation

Csarad113x_tha_conv_fsm::Csarad113x_tha_conv_fsm (Csarad113x * *_parent*, std::string *upper_state* = "")

Definition at line 21 of file sarad113x_tha_conv_fsm.cpp.

References emEvtEnd, emEvtTHAEndHolding, emEvtTHAFinishVCConversion, emEvtTHAHoldComplete, emEvtTHAHoldStart, emEvtTHAHWTrigger, emEvtTHAResume, emEvtTHAStartSampling, emEvtTHASuspend, emEvtTHASWTrigger, emEvtWOE, emStNA, emStTHA_DELAY_HOLDING, emStTHA_HOLDING, emStTHA_IDLE, emStTHA_SAMPLING, emStTHA_SCANNING, emStTHA_SCANNING_END, emStTHA_SUSPEND, emStTHA_VC_CONV, emStTHA_VC_CONV_END, emStTHA_WAIT_SCANNING_START, Cfsm_base::mCurrentState, Cfsm_base::mNextStateList, Cfsm_base::mStateNamePrefix, and Cfsm_base::mStateNameStr.

Csarad113x_tha_conv_fsm::~Csarad113x_tha_conv_fsm (void)

Definition at line 71 of file sarad113x_tha_conv_fsm.cpp.

Member Function Documentation

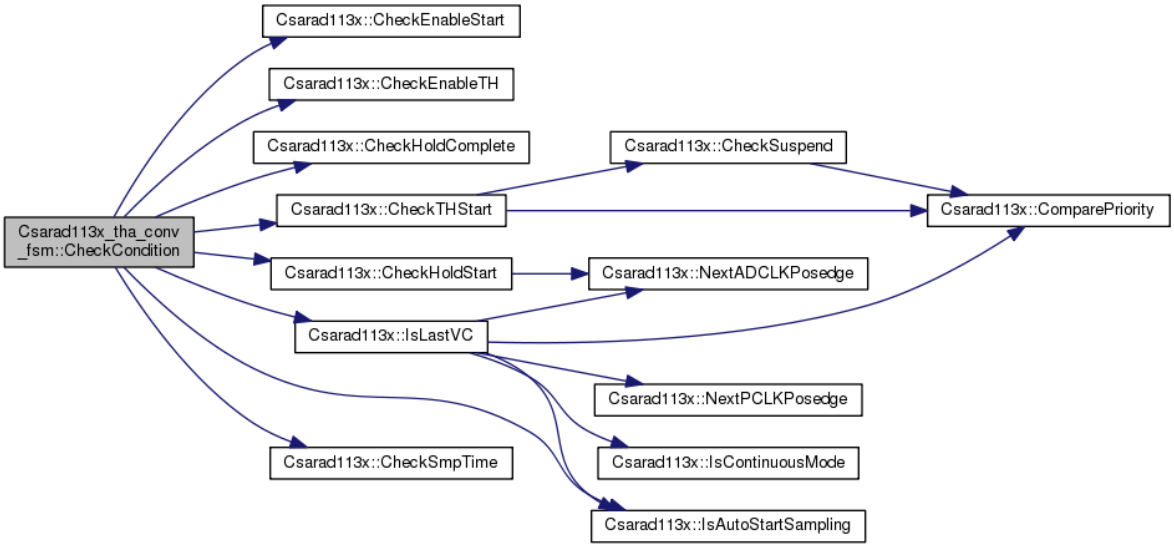
void Csarad113x_tha_conv_fsm::CheckCondition (const unsigned int *condition_id*) [private], [virtual]

Implements Cfsm_base.

Definition at line 88 of file sarad113x_tha_conv_fsm.cpp.

References Csarad113x::CheckEnableStart(), Csarad113x::CheckEnableTH(), Csarad113x::CheckHoldComplete(), Csarad113x::CheckHoldStart(), Csarad113x::CheckSmpTime(), Csarad113x::CheckTHStart(), Csarad113x::emHWTrigger, Csarad113x::emLastVC, Csarad113x::emOtherTrigger, emStTHA_DELAY_HOLDING, emStTHA_HOLDING, emStTHA_IDLE, emStTHA_SAMPLING, emStTHA_SCANNING, emStTHA_SCANNING_END, emStTHA_SUSPEND, emStTHA_VC_CONV, emStTHA_WAIT_SCANNING_START, Csarad113x::emSuspend, Csarad113x::emSWTrigger, Csarad113x::emTHGroupA, Csarad113x::IsAutoStartSampling(), Csarad113x::IsLastVC(), Csarad113x::mCurrentSG, Cfsm_base::mNextState, and Cfsm_base::mParent.

Here is the call graph for this function:



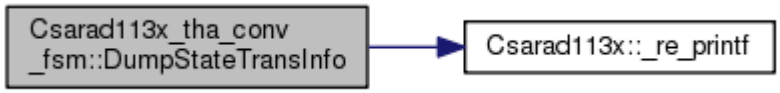
void Csarad113x_tha_conv_fsm::DumpStateTransInfo (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 225 of file sarad113x_tha_conv_fsm.cpp.

References Csarad113x::_re_printf(), Cfsm_base::mCurrentState, Cfsm_base::mDumpStateTransInfo, Cfsm_base::mNextState, Cfsm_base::mParent, and Cfsm_base::mStateNameStr.

Here is the call graph for this function:



void Csarad113x_tha_conv_fsm::EnableDumpStateTrans (bool *enable*) `[virtual]`

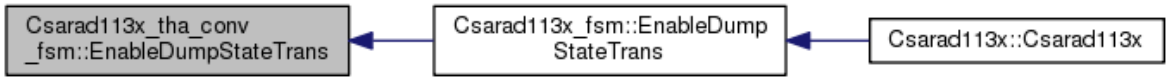
Implements Cfsm_base.

Definition at line 232 of file sarad113x_tha_conv_fsm.cpp.

References Cfsm_base::mDumpStateTransInfo.

Referenced by Csarad113x_fsm::EnableDumpStateTrans().

Here is the caller graph for this function:



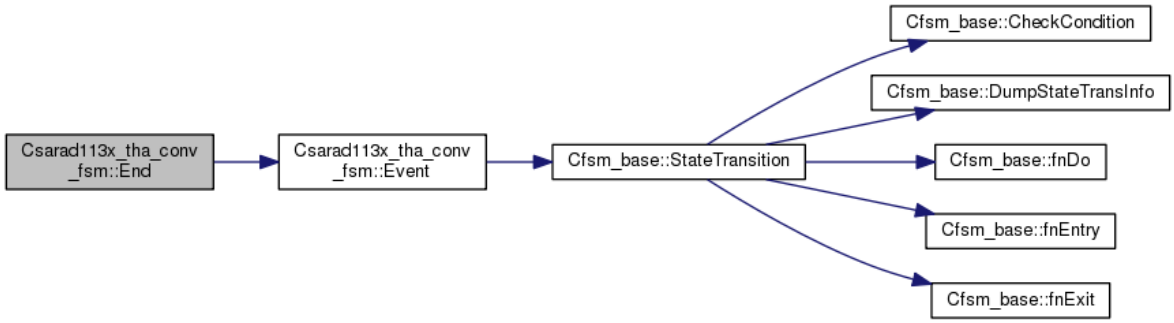
void Csarad113x_tha_conv_fsm::End (void)

Definition at line 75 of file sarad113x_tha_conv_fsm.cpp.

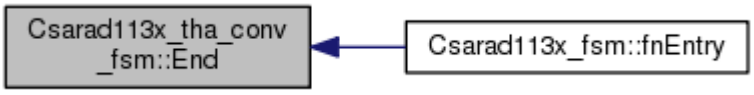
References emEvtEnd, and Event().

Referenced by Csarad113x_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x_tha_conv_fsm::Event (unsigned int *event*) `[virtual]`

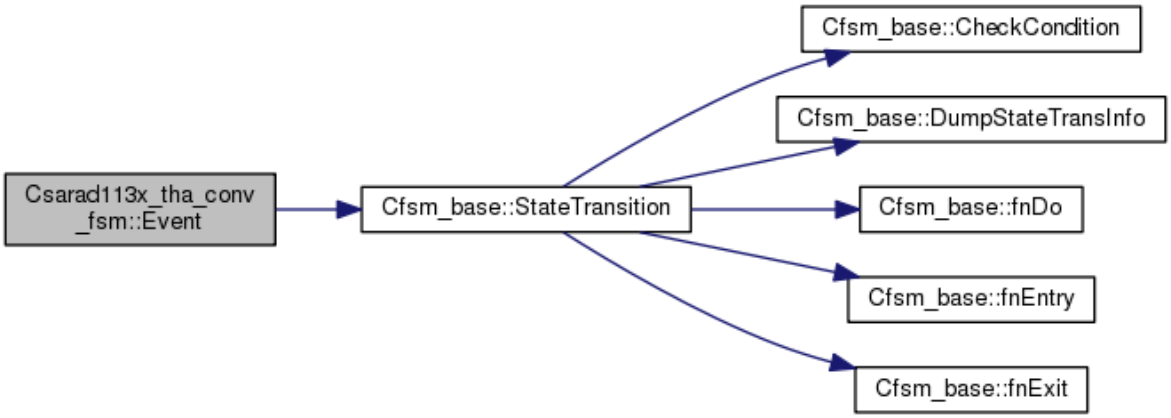
Implements Cfsm_base.

Definition at line 80 of file sarad113x_tha_conv_fsm.cpp.

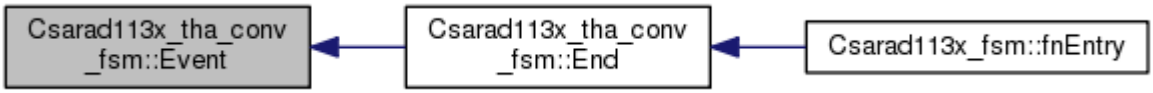
References emEvtWOE, and Cfsm_base::StateTransition().

Referenced by End().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x_tha_conv_fsm::fnDo (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 221 of file sarad113x_tha_conv_fsm.cpp.

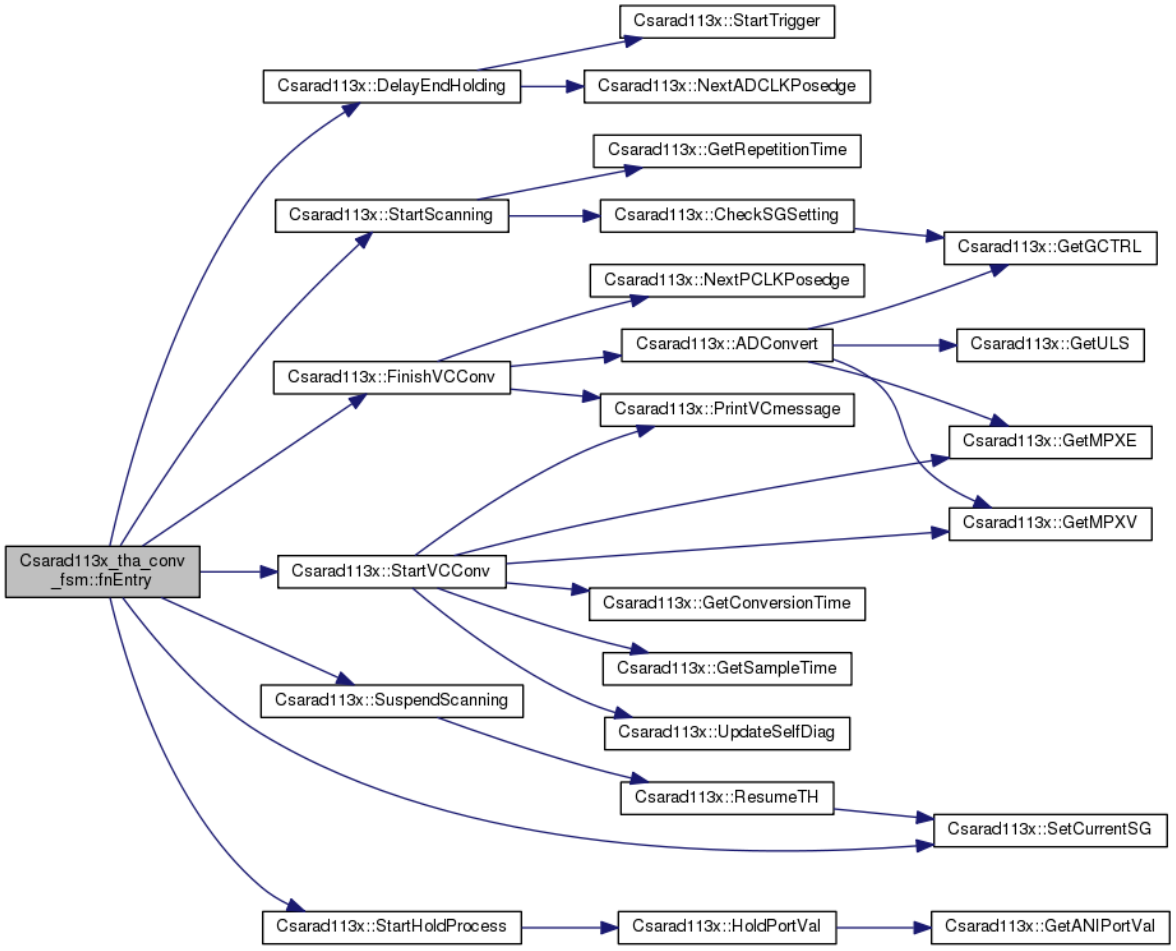
void Csarad113x_tha_conv_fsm::fnEntry (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 167 of file sarad113x_tha_conv_fsm.cpp.

References Csarad113x::DelayEndHolding(), emStNA, emStTHA_DELAY_HOLDING, emStTHA_HOLDING, emStTHA_SCANNING, emStTHA_SUSPEND, emStTHA_VC_CONV, emStTHA_VC_CONV_END, Csarad113x::emTHGroupA, Csarad113x::FinishVCConv(), Csarad113x::mCurrentSG, Cfsm_base::mCurrentState, Cfsm_base::mNextState, Cfsm_base::mParent, Csarad113x::SetCurrentSG(), Csarad113x::StartHoldProcess(), Csarad113x::StartScanning(), Csarad113x::StartVCConv(), and Csarad113x::SuspendScanning().

Here is the call graph for this function:



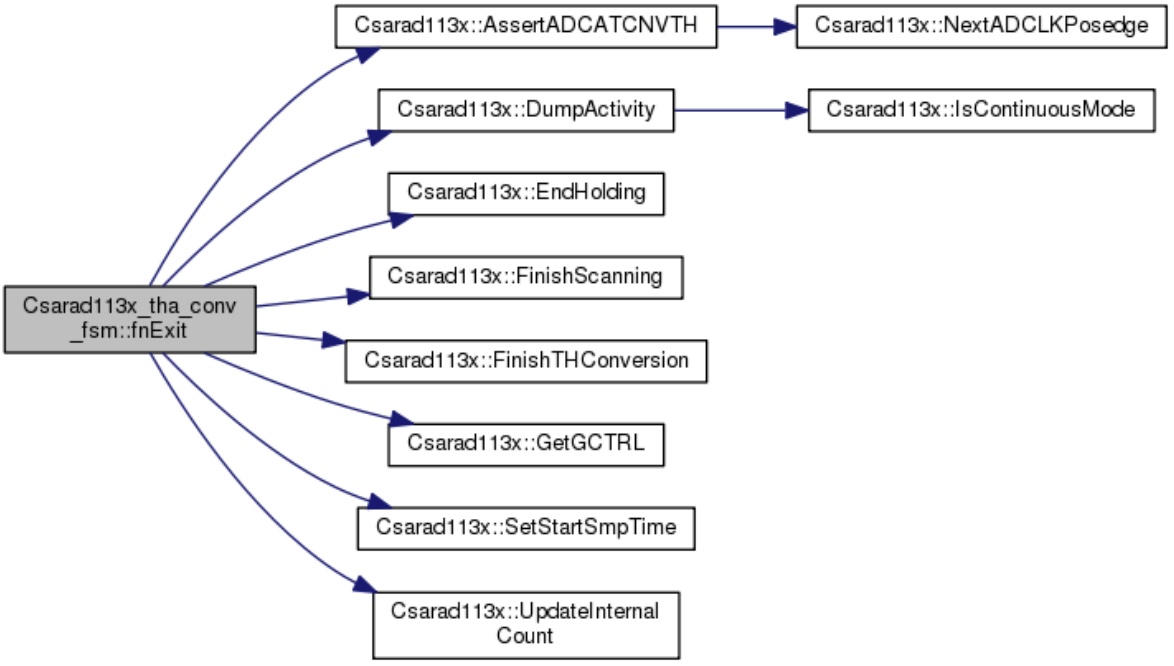
void Csarad113x_tha_conv_fsm::fnExit (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 196 of file sarad113x_tha_conv_fsm.cpp.

References Csarad113x::AssertADCATCNVTH(), Csarad113x::DumpActivity(), emStNA, emStTHA_DELAY_HOLDING, emStTHA_HOLDING, emStTHA_SCANNING_END, emStTHA_VC_CONV_END, Csarad113x::emTHGroupA, Csarad113x::EndHolding(), Csarad113x::FinishScanning(), Csarad113x::FinishTHConversion(), Csarad113x::GetGCTRL(), Csarad113x::mCurrentSG, Csarad113x::mCurrentStartVC, Cfsm_base::mCurrentState, Cfsm_base::mParent, Cfsm_base::mPreState, Csarad113x::mStartTimeVC, Csarad113x::SetStartSmpTime(), and Csarad113x::UpdateInternalCount().

Here is the call graph for this function:



Friends And Related Function Documentation

friend class Csarad113x `[friend]`

Definition at line 198 of file sarad113x_fsm.h.

friend class Csarad113x_fsm `[friend]`

Definition at line 199 of file sarad113x_fsm.h.

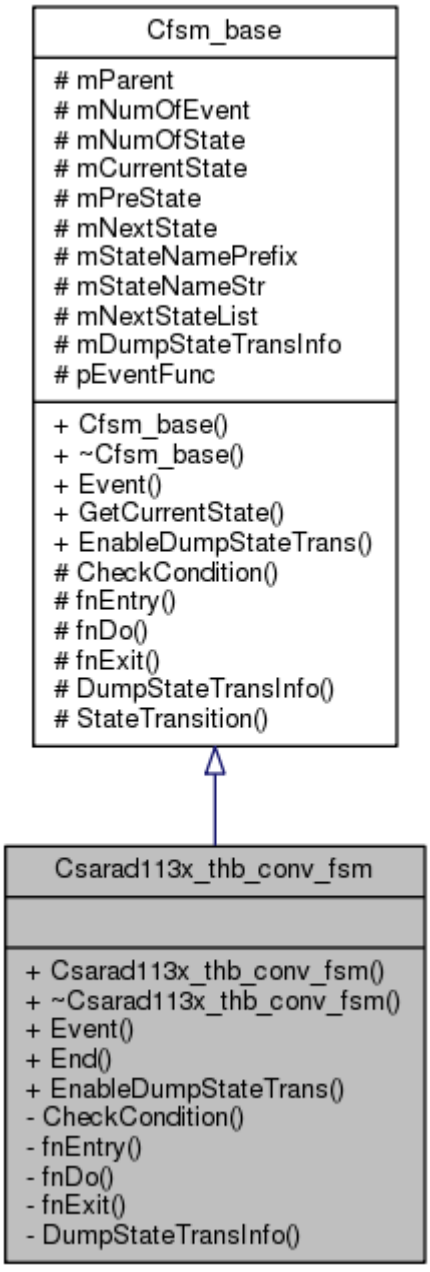
The documentation for this class was generated from the following files:

- sarad113x_fsm.h
- sarad113x_tha_conv_fsm.cpp

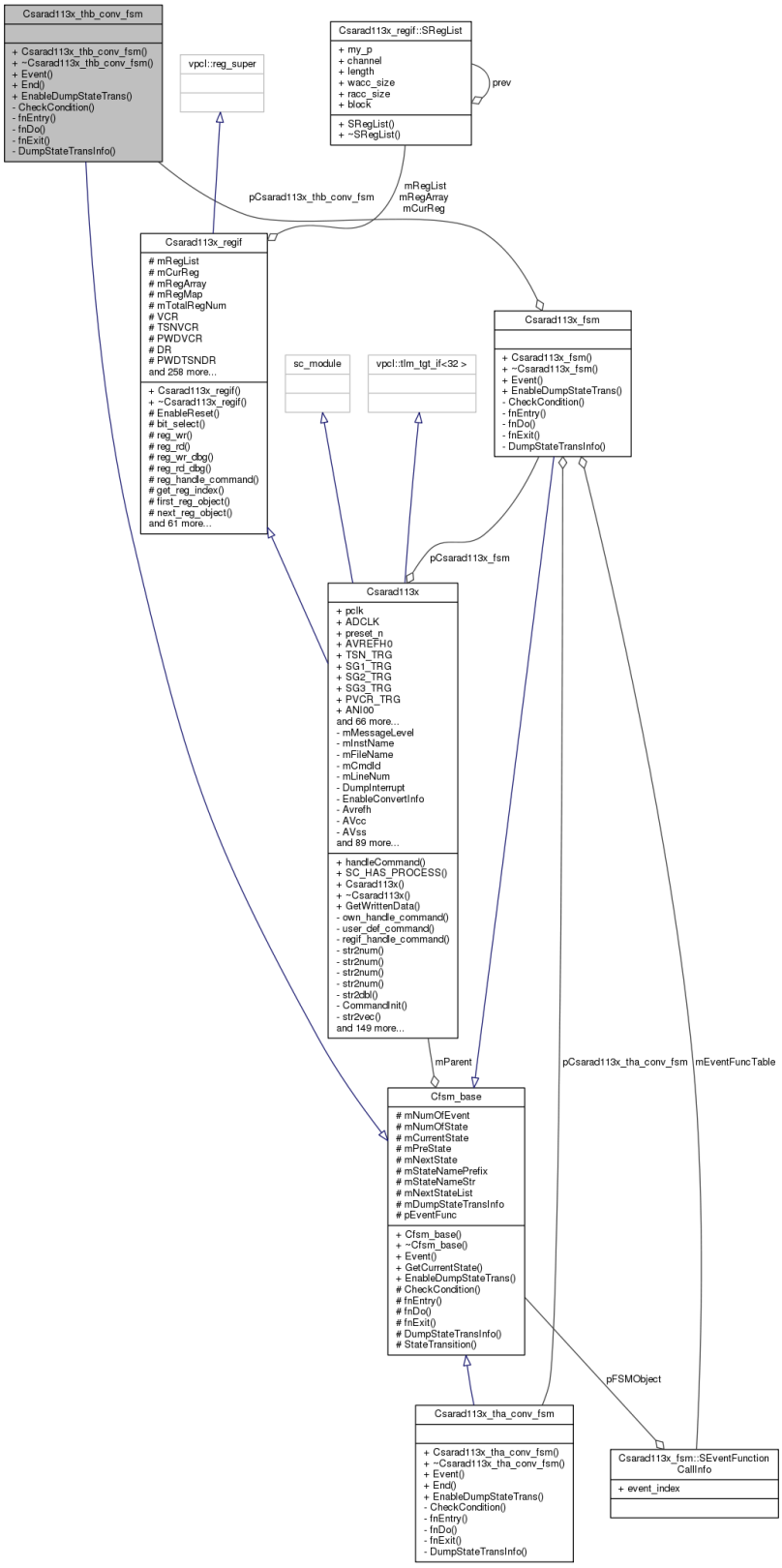
Csarad113x_thb_conv_fsm Class Reference

`#include <sarad113x_fsm.h>`

Inheritance diagram for Csarad113x_thb_conv_fsm:



Collaboration diagram for Csarad113x_thb_conv_fsm:


Csarad113x_thb_conv_fsm
+ Csarad113x_thb_conv_fsm()
+ ~Csarad113x_thb_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
vpcl::reg_super
Csarad113x_regif::SRegList
+ my_p
+ channel
+ length
+ wacc_size
+ racc_size
+ block
prev
+ SRegList()
+ ~SRegList()
pCsarad113x_thb_conv_fsm
mRegList
mRegArray
mCurReg
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
sc_module
vpcl::tlm_tgt_if< 32 >
Csarad113x_fsm
+ Csarad113x_fsm()
+ ~Csarad113x_fsm()
+ Event()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
pCsarad113x_fsm
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 89 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...
mParent
pCsarad113x_tha_conv_fsm
mEventFuncTable
Cfsm_base
mNumOfEvent
mNumOfState
mCurrentState
mPreState
mNextState
mStateNamePrefix
mStateNameStr
mNextStateList
mDumpStateTransInfo
pEventFunc
+ Cfsm_base()
+ ~Cfsm_base()
+ Event()
+ GetCurrentState()
+ EnableDumpStateTrans()
# CheckCondition()
# fnEntry()
# fnDo()
# fnExit()
# DumpStateTransInfo()
# StateTransition()
pFSMObject
Csarad113x_tha_conv_fsm
+ Csarad113x_tha_conv_fsm()
+ ~Csarad113x_tha_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_fsm::SEventFunction
CallInfo
+ event_index

Public Types

- enum eState { emStTHB_IDLE, emStTHB_SAMPLING, emStTHB_HOLDING, emStTHB_DELAY_HOLDING, emStTHB_SCANNING, emStTHB_SCANNING_END, emStTHB_VC_CONV, emStTHB_VC_CONV_END, emStTHB_SUSPEND, emStTHB_WAIT_SCANNING_START, emStNA }
- enum eEvent { emEvtTHBHWTrigger, emEvtTHBSWTrigger, emEvtTHBStartSampling, emEvtTHBHoldStart, emEvtTHBHoldComplete, emEvtTHBEndHolding, emEvtTHBFinishVCConversion, emEvtTHBSuspend, emEvtTHBResume, emEvtEnd, emEvtWOE }

Public Member Functions

- Csarad113x_thb_conv_fsm (Csarad113x *_parent, std::string upper_state="")
- ~Csarad113x_thb_conv_fsm (void)
- void Event (unsigned int event)
- void End (void)
- void EnableDumpStateTrans (bool enable)

Private Member Functions

- void CheckCondition (const unsigned int condition_id)
- void fnEntry (void)
- void fnDo (void)
- void fnExit (void)
- void DumpStateTransInfo (void)

Friends

- class Csarad113x
- class Csarad113x_fsm

Additional Inherited Members

Detailed Description

Definition at line 245 of file sarad113x_fsm.h.

Member Enumeration Documentation

enum Csarad113x_thb_conv_fsm::eEvent

Enumerator:

emEvtTHBHWTrigger
emEvtTHBSWTrigger
emEvtTHBStartSampling
emEvtTHBHoldStart
emEvtTHBHoldComplete

emEvtTHBEndHolding
emEvtTHBFinishVCConversion
emEvtTHBSuspend
emEvtTHBResume
emEvtEnd
emEvtWOE

Definition at line 264 of file sarad113x_fsm.h.

enum Csarad113x_thb_conv_fsm::eState

Enumerator:

emStTHB_IDLE
emStTHB_SAMPLING
emStTHB_HOLDING
emStTHB_DELAY_HOLDING
emStTHB_SCANNING
emStTHB_SCANNING_END
emStTHB_VC_CONV
emStTHB_VC_CONV_END
emStTHB_SUSPEND
emStTHB_WAIT_SCANNING_START
emStNA

Definition at line 250 of file sarad113x_fsm.h.

Constructor & Destructor Documentation

Csarad113x_thb_conv_fsm::Csarad113x_thb_conv_fsm (Csarad113x * *_parent*, std::string *upper_state* = "")

Definition at line 21 of file sarad113x_thb_conv_fsm.cpp.

References emEvtEnd, emEvtTHBEndHolding, emEvtTHBFinishVCConversion, emEvtTHBHoldComplete, emEvtTHBHoldStart, emEvtTHBHWTrigger, emEvtTHBResume, emEvtTHBStartSampling, emEvtTHBSuspend, emEvtTHBSWTrigger, emEvtWOE, emStNA, emStTHB_DELAY_HOLDING, emStTHB_HOLDING, emStTHB_IDLE, emStTHB_SAMPLING, emStTHB_SCANNING, emStTHB_SCANNING_END, emStTHB_SUSPEND, emStTHB_VC_CONV, emStTHB_VC_CONV_END, emStTHB_WAIT_SCANNING_START, Cfsm_base::mCurrentState, Cfsm_base::mNextStateList, Cfsm_base::mStateNamePrefix, and Cfsm_base::mStateNameStr.

Csarad113x_thb_conv_fsm::~Csarad113x_thb_conv_fsm (void)

Definition at line 71 of file sarad113x_thb_conv_fsm.cpp.

Member Function Documentation

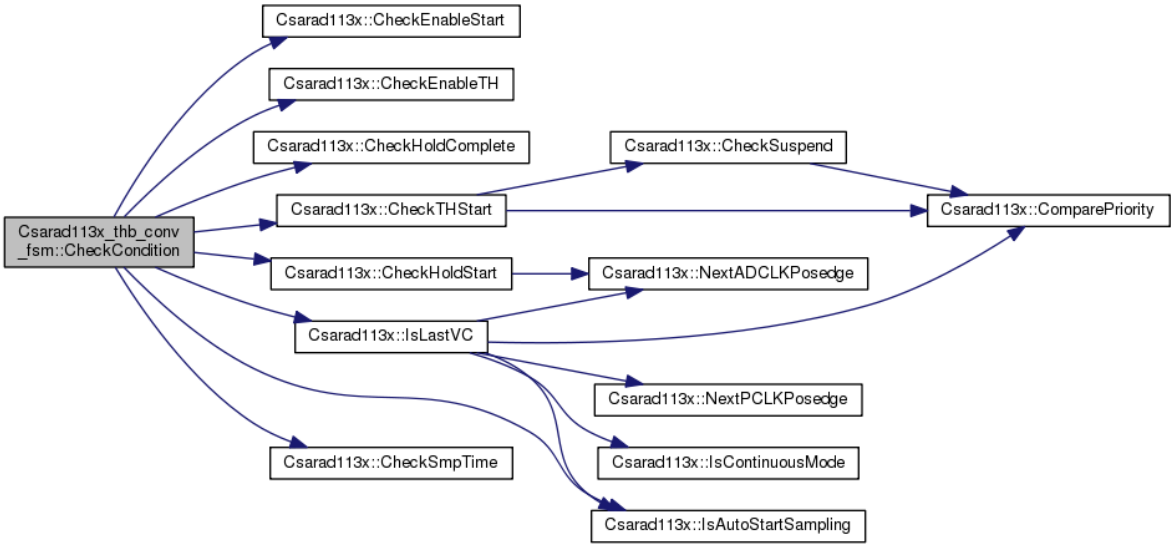
void Csarad113x_thb_conv_fsm::CheckCondition (const unsigned int *condition_id*) [private], [virtual]

Implements Cfsm_base.

Definition at line 88 of file sarad113x_thb_conv_fsm.cpp.

References Csarad113x::CheckEnableStart(), Csarad113x::CheckEnableTH(), Csarad113x::CheckHoldComplete(), Csarad113x::CheckHoldStart(), Csarad113x::CheckSmpTime(), Csarad113x::CheckTHStart(), Csarad113x::emHWTrigger, Csarad113x::emLastVC, Csarad113x::emOtherTrigger, emStTHB_DELAY_HOLDING, emStTHB_HOLDING, emStTHB_IDLE, emStTHB_SAMPLING, emStTHB_SCANNING, emStTHB_SCANNING_END, emStTHB_SUSPEND, emStTHB_VC_CONV, emStTHB_WAIT_SCANNING_START, Csarad113x::emSuspend, Csarad113x::emSWTrigger, Csarad113x::emTHGroupB, Csarad113x::IsAutoStartSampling(), Csarad113x::IsLastVC(), Csarad113x::mCurrentSG, Cfsm_base::mNextState, and Cfsm_base::mParent.

Here is the call graph for this function:



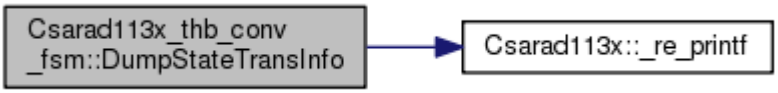
void Csarad113x_thb_conv_fsm::DumpStateTransInfo (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 225 of file sarad113x_thb_conv_fsm.cpp.

References Csarad113x::_re_printf(), Cfsm_base::mCurrentState, Cfsm_base::mDumpStateTransInfo, Cfsm_base::mNextState, Cfsm_base::mParent, and Cfsm_base::mStateNameStr.

Here is the call graph for this function:



void Csarad113x_thb_conv_fsm::EnableDumpStateTrans (bool *enable*) [virtual]

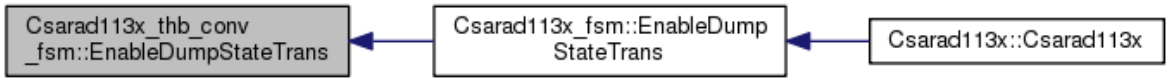
Implements Cfsm_base.

Definition at line 232 of file sarad113x_thb_conv_fsm.cpp.

References Cfsm_base::mDumpStateTransInfo.

Referenced by Csarad113x_fsm::EnableDumpStateTrans().

Here is the caller graph for this function:



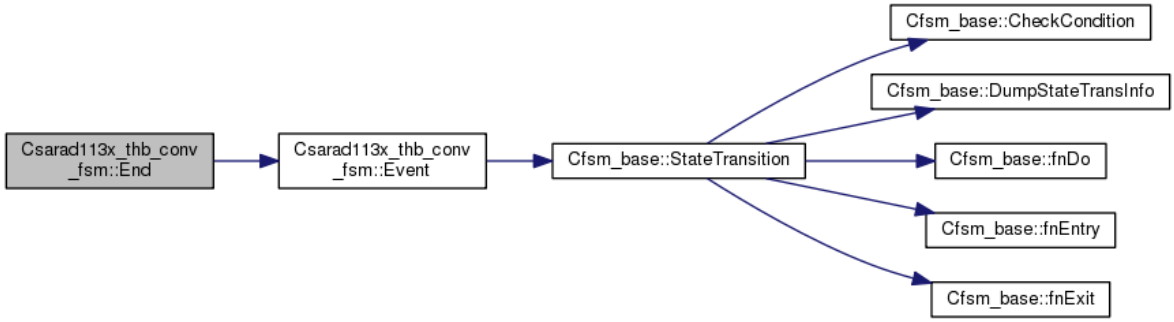
void Csarad113x_thb_conv_fsm::End (void)

Definition at line 75 of file sarad113x_thb_conv_fsm.cpp.

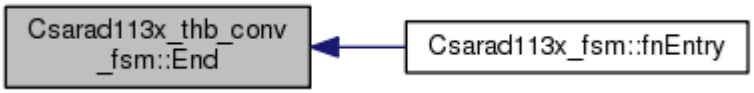
References emEvtEnd, and Event().

Referenced by Csarad113x_fsm::fnEntry().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x_thb_conv_fsm::Event (unsigned int *event*) [virtual]

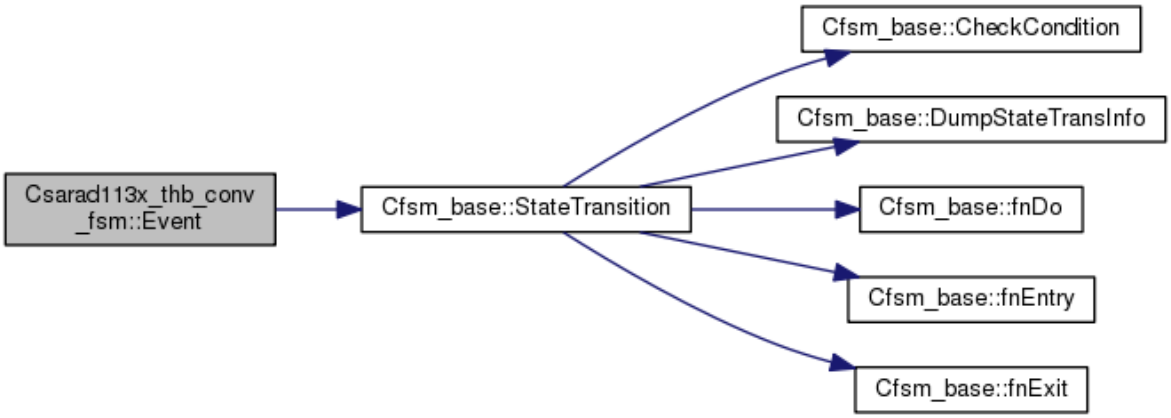
Implements Cfsm_base.

Definition at line 80 of file sarad113x_thb_conv_fsm.cpp.

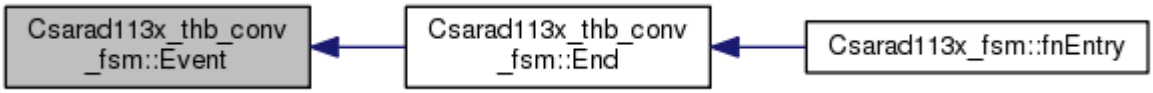
References emEvtWOE, and Cfsm_base::StateTransition().

Referenced by End().

Here is the call graph for this function:



Here is the caller graph for this function:



void Csarad113x_thb_conv_fsm::fnDo (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 221 of file sarad113x_thb_conv_fsm.cpp.

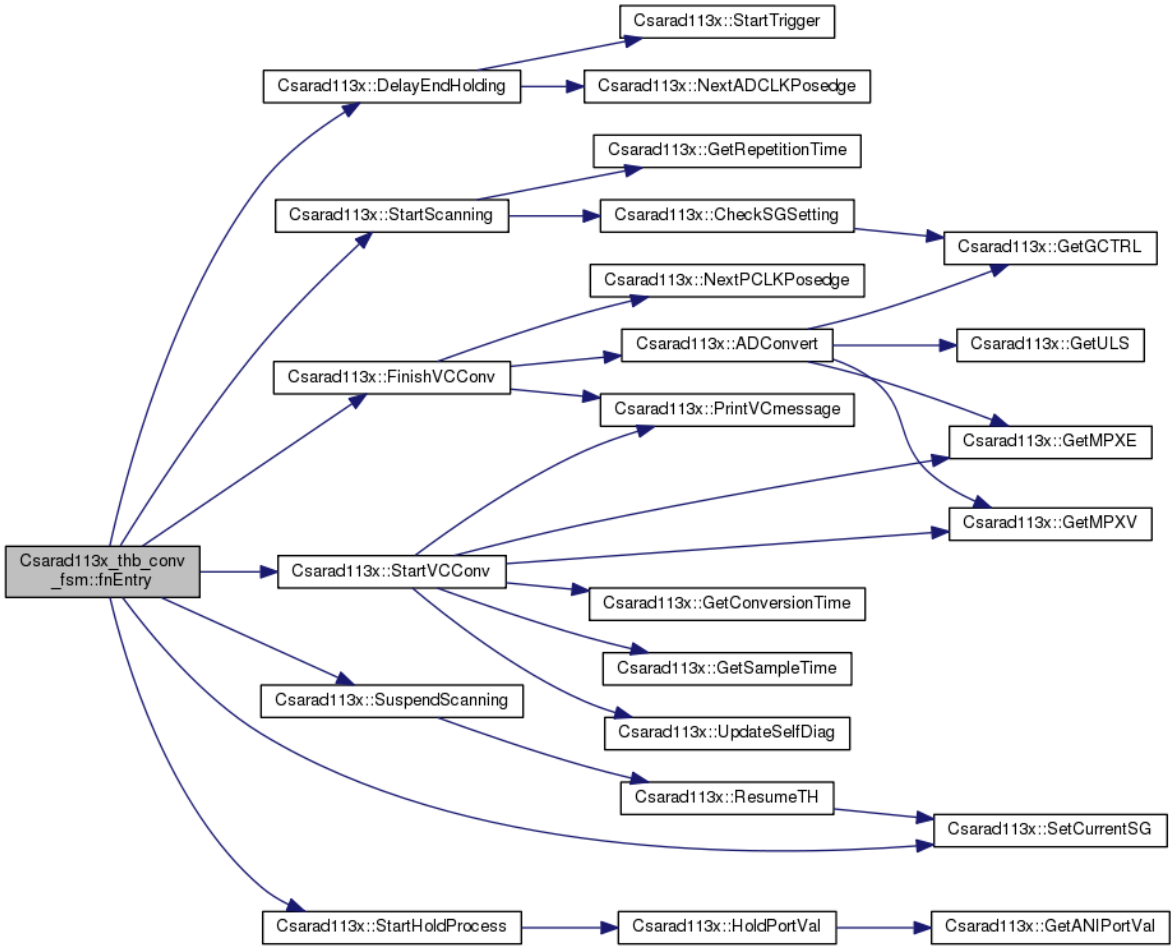
void Csarad113x_thb_conv_fsm::fnEntry (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 167 of file sarad113x_thb_conv_fsm.cpp.

References Csarad113x::DelayEndHolding(), emStNA, emStTHB_DELAY_HOLDING, emStTHB_HOLDING, emStTHB_SCANNING, emStTHB_SUSPEND, emStTHB_VC_CONV, emStTHB_VC_CONV_END, Csarad113x::emTHGroupB, Csarad113x::FinishVCConv(), Csarad113x::mCurrentSG, Cfsm_base::mCurrentState, Cfsm_base::mNextState, Cfsm_base::mParent, Csarad113x::SetCurrentSG(), Csarad113x::StartHoldProcess(), Csarad113x::StartScanning(), Csarad113x::StartVCConv(), and Csarad113x::SuspendScanning().

Here is the call graph for this function:



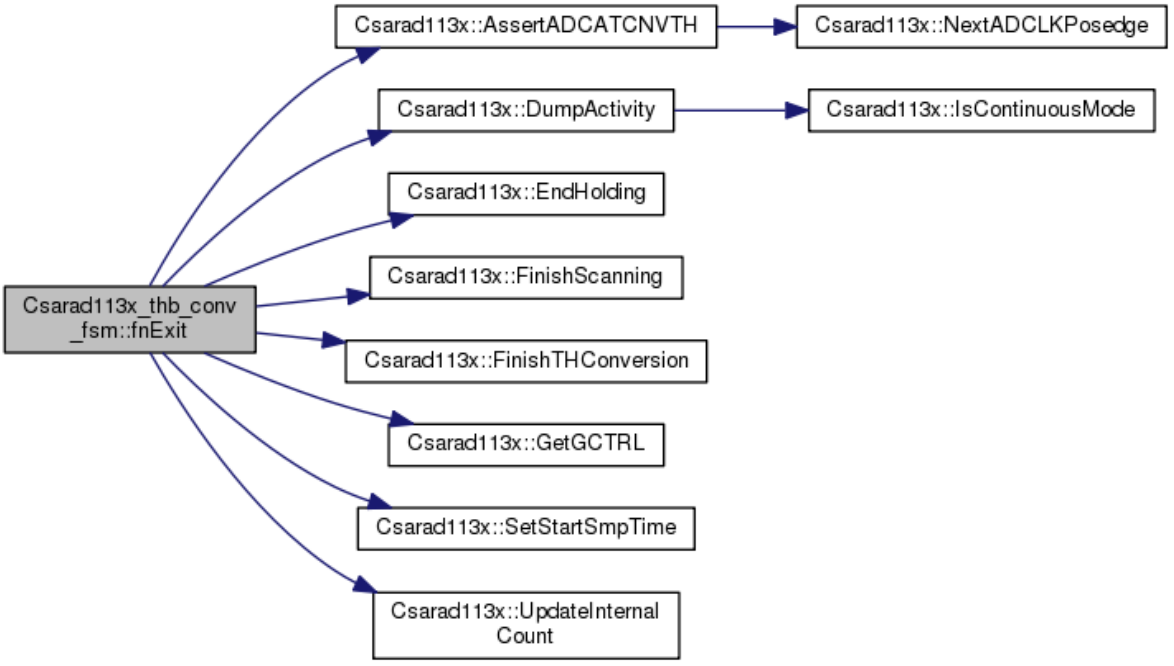
void Csarad113x_thb_conv_fsm::fnExit (void) [private], [virtual]

Implements Cfsm_base.

Definition at line 196 of file sarad113x_thb_conv_fsm.cpp.

References Csarad113x::AssertADCATCNVTH(), Csarad113x::DumpActivity(), emStNA, emStTHB_DELAY_HOLDING, emStTHB_HOLDING, emStTHB_SCANNING_END, emStTHB_VC_CONV_END, Csarad113x::emTHGroupB, Csarad113x::EndHolding(), Csarad113x::FinishScanning(), Csarad113x::FinishTHConversion(), Csarad113x::GetGCTRL(), Csarad113x::mCurrentSG, Csarad113x::mCurrentStartVC, Cfsm_base::mCurrentState, Cfsm_base::mParent, Cfsm_base::mPreState, Csarad113x::mStartTimeVC, Csarad113x::SetStartSmpTime(), and Csarad113x::UpdateInternalCount().

Here is the call graph for this function:



Friends And Related Function Documentation

friend class Csarad113x `[friend]`

Definition at line 247 of file sarad113x_fsm.h.

friend class Csarad113x_fsm `[friend]`

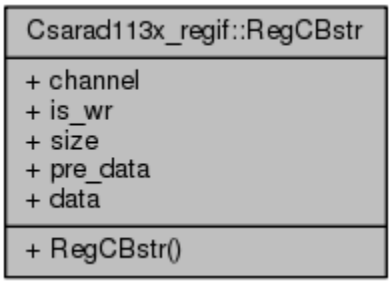
Definition at line 248 of file sarad113x_fsm.h.

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

- sarad113x_fsm.h
- sarad113x_thb_conv_fsm.cpp

Csarad113x_regif::RegCBstr Struct Reference

`#include <sarad113x_regif.h>`
Collaboration diagram for Csarad113x_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 491 of file sarad113x_regif.h.

Constructor & Destructor Documentation

Csarad113x_regif::RegCBstr::RegCBstr (uint *channel*, bool *is_wr*, uint *size*, uint *pre_data*, uint *data*) `[inline]`

Definition at line 497 of file sarad113x_regif.h.

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

Member Data Documentation

uint Csarad113x_regif::RegCBstr::channel

Definition at line 492 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_DIR_DR(), Csarad113x::cb_DR_DR0(), Csarad113x::cb_SGCR_ADIE(), Csarad113x::cb_SGMCYCR_MCYC(), Csarad113x::cb_SGSEFCR_SEFCn(), Csarad113x::cb_SGSTCR_SGSTn(), Csarad113x::cb_SGTSEL_TxSEL00(), Csarad113x::cb_SGVCEP_VCEP(), Csarad113x::cb_SGVCSP_VCSP(), Csarad113x::cb_ULLMTBR_ULMTB(), Csarad113x::cb_VCR_GCTRL(), and RegCBstr().

uint Csarad113x_regif::RegCBstr::data

Definition at line 496 of file sarad113x_regif.h.

Referenced by RegCBstr().

bool Csarad113x_regif::RegCBstr::is_wr

Definition at line 493 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_SGTSEL_TxSEL00(), and RegCBstr().

uint Csarad113x_regif::RegCBstr::pre_data

Definition at line 495 of file sarad113x_regif.h.

Referenced by Csarad113x::cb_ADCR_SUSMTD(), Csarad113x::cb_PWDSGCR_PWDTRGMD(), Csarad113x::cb_SGCR_ADIE(), Csarad113x::cb_SGMCYCR_MCYC(), Csarad113x::cb_SGPRCR_SGPR0(), Csarad113x::cb_SGVCEP_VCEP(), Csarad113x::cb_SGVCSP_VCSP(), Csarad113x::cb_SMPCR_SMPT(), Csarad113x::cb_THACR_SGS(), Csarad113x::cb_THBCR_SGS(), Csarad113x::cb_THER_TH0E(), Csarad113x::cb_THGSR_TH0GS(), Csarad113x::cb_TSNSGCR_TSNTRGMD(), Csarad113x::cb_TSNSMPCR_TSNSMPT(), Csarad113x::cb_ULLMTBR_ULMTB(), Csarad113x::cb_VCR_GCTRL(), Csarad113x::CheckAccess(), and RegCBstr().

uint Csarad113x_regif::RegCBstr::size

Definition at line 494 of file sarad113x_regif.h.

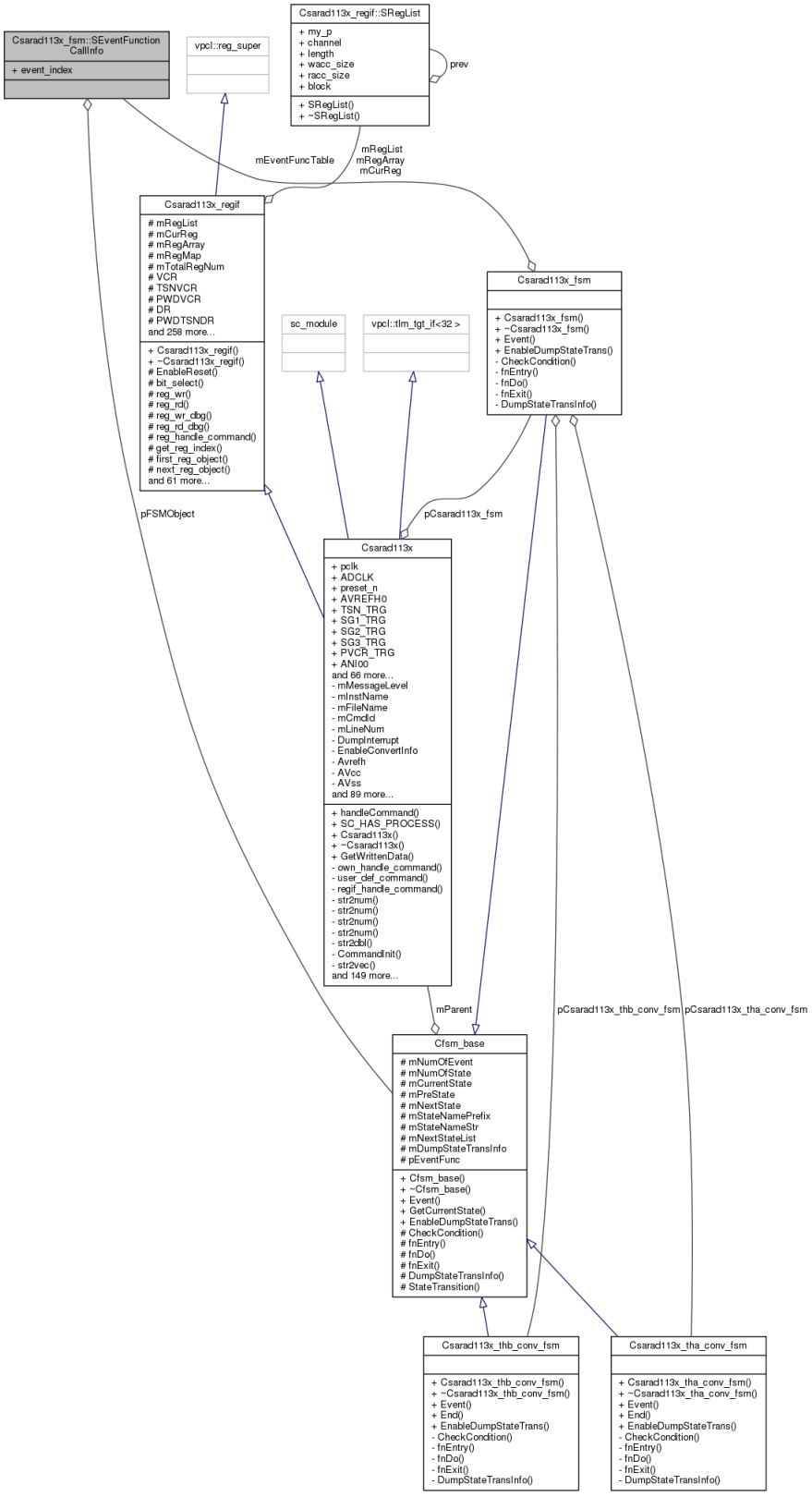
Referenced by RegCBstr().

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

- sarad113x_regif.h

Csarad113x_fsm::SEventFunctionCallInfo Struct Reference

`#include <sarad113x_fsm.h>`
Collaboration diagram for Csarad113x_fsm::SEventFunctionCallInfo:


Csarad113x_fsm::SEventFunction CallInfo
+ event_index
vpcl::reg_super
Csarad113x_regif::SRegList
+ my_p
+ channel
+ length
+ wacc_size
+ racc_size
+ block
+ SRegList()
+ ~SRegList()
prev
mEventFuncTable
mRegList
mRegArray
mCurReg
Csarad113x_regif
mRegList
mCurReg
mRegArray
mRegMap
mTotalRegNum
VCR
TSNVCR
PWDVCR
DR
PWDTSNDR
and 258 more...
+ Csarad113x_regif()
+ ~Csarad113x_regif()
# EnableReset()
# bit_select()
# reg_wr()
# reg_rd()
# reg_wr_dbg()
# reg_rd_dbg()
# reg_handle_command()
# get_reg_index()
# first_reg_object()
# next_reg_object()
and 61 more...
Csarad113x_fsm
+ Csarad113x_fsm()
+ ~Csarad113x_fsm()
+ Event()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
sc_module
vpcl::tlm_tgt_if<32 >
pFSMObject
pCsarad113x_fsm
Csarad113x
+ pclk
+ ADCLK
+ preset_n
+ AVREFH0
+ TSN_TRG
+ SG1_TRG
+ SG2_TRG
+ SG3_TRG
+ PVCR_TRG
+ ANI00
and 66 more...
- mMessageLevel
- mInstName
- mFileName
- mCmdId
- mLineNum
- DumpInterrupt
- EnableConvertInfo
- Avrefh
- AVcc
- AVss
and 89 more...
+ handleCommand()
+ SC_HAS_PROCESS()
+ Csarad113x()
+ ~Csarad113x()
+ GetWrittenData()
- own_handle_command()
- user_def_command()
- regif_handle_command()
- str2num()
- str2num()
- str2num()
- str2num()
- str2dbl()
- CommandInit()
- str2vec()
and 149 more...
mParent
pCsarad113x_thb_conv_fsm
pCsarad113x_tha_conv_fsm
Cfsm_base
mNumOfEvent
mNumOfState
mCurrentState
mPreState
mNextState
mStateNamePrefix
mStateNameStr
mNextStateList
mDumpStateTransInfo
pEventFunc
+ Cfsm_base()
+ ~Cfsm_base()
+ Event()
+ GetCurrentState()
+ EnableDumpStateTrans()
# CheckCondition()
# fnEntry()
# fnDo()
# fnExit()
# DumpStateTransInfo()
# StateTransition()
Csarad113x_thb_conv_fsm
+ Csarad113x_thb_conv_fsm()
+ ~Csarad113x_thb_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()
Csarad113x_tha_conv_fsm
+ Csarad113x_tha_conv_fsm()
+ ~Csarad113x_tha_conv_fsm()
+ Event()
+ End()
+ EnableDumpStateTrans()
- CheckCondition()
- fnEntry()
- fnDo()
- fnExit()
- DumpStateTransInfo()

Public Attributes

- Cfsm_base * pFSMObject
- unsigned int event_index

Detailed Description

Definition at line 173 of file sarad113x_fsm.h.

Member Data Documentation

unsigned int Csarad113x_fsm::SEventFunctionCallInfo::event_index

Definition at line 175 of file sarad113x_fsm.h.

Referenced by Csarad113x_fsm::Event().

Cfsm_base* Csarad113x_fsm::SEventFunctionCallInfo::pFSMObject

Definition at line 174 of file sarad113x_fsm.h.

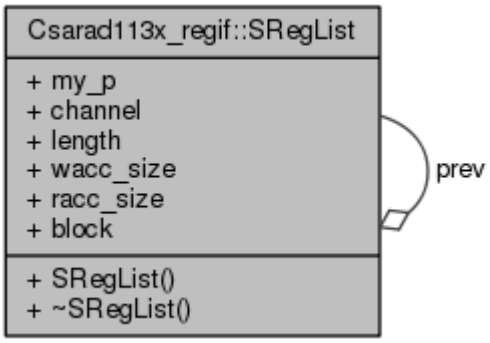
Referenced by Csarad113x_fsm::Event().

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

- sarad113x_fsm.h

Csarad113x_regif::SRegList Struct Reference

`#include <sarad113x_regif.h>`
Collaboration diagram for Csarad113x_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 506 of file sarad113x_regif.h.

Constructor & Destructor Documentation

Csarad113x_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 527 of file sarad113x_regif.h.

References block, channel, length, my_p, prev, racc_size, and wacc_size.

Csarad113x_regif::SRegList::~SRegList () [inline]

Definition at line 543 of file sarad113x_regif.h.

Member Data Documentation

bool Csarad113x_regif::SRegList::block

Definition at line 513 of file sarad113x_regif.h.

Referenced by SRegList().

uint Csarad113x_regif::SRegList::channel

Definition at line 509 of file sarad113x_regif.h.

Referenced by SRegList().

uint Csarad113x_regif::SRegList::length

Definition at line 510 of file sarad113x_regif.h.

Referenced by Csarad113x_regif::reg_rd_func(), Csarad113x_regif::reg_rd_process(), Csarad113x_regif::reg_wr_func(), Csarad113x_regif::reg_wr_process(), and SRegList().

vpcl::re_register* Csarad113x_regif::SRegList::my_p

Definition at line 507 of file sarad113x_regif.h.

Referenced by Csarad113x_regif::Csarad113x_regif(), Csarad113x_regif::EnableReset(), Csarad113x_regif::first_reg_object(), Csarad113x_regif::next_reg_object(), Csarad113x_regif::reg_rd_func(), Csarad113x_regif::reg_rd_process(), Csarad113x_regif::reg_wr_func(), Csarad113x_regif::reg_wr_process(), SRegList(), and Csarad113x_regif::~Csarad113x_regif().

SRegList* Csarad113x_regif::SRegList::prev

Definition at line 508 of file sarad113x_regif.h.

Referenced by Csarad113x_regif::next_reg_object(), SRegList(), and Csarad113x_regif::~Csarad113x_regif().

std::string Csarad113x_regif::SRegList::racc_size

Definition at line 512 of file sarad113x_regif.h.

Referenced by SRegList().

std::string Csarad113x_regif::SRegList::wacc_size

Definition at line 511 of file sarad113x_regif.h.

Referenced by SRegList().

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

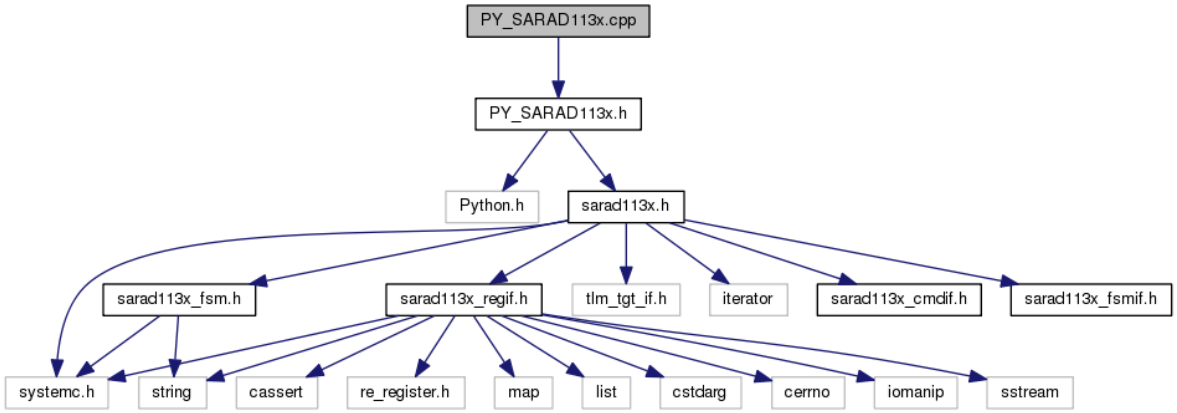
- sarad113x_regif.h

File Documentation

PY_SARAD113x.cpp File Reference

```
#include "PY_SARAD113x.h"
```

Include dependency graph for PY_SARAD113x.cpp:



Namespaces

- namespace PY_SARAD113x

Functions

- void PY_SARAD113x::SetPyExtCmd (void)
- void PY_SARAD113x::SeparateString (std::vector< std::string > &vtr, const std::string msg)
- void PY_SARAD113x::ProcessCommand (const std::string cmd_id, const std::string cmd_name, char *token, char *input_arg)
- PyObject * PY_SARAD113x::DumpInterruptPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EnableConvertInfoPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AvrefhPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AVccPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AVssPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EX_HLD_CDTPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EX_CNVTPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tDPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tPWDDPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tEDPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EnableTimeCalculationPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::DumpStatInfoPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::SetCLKfreqPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tgtPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::regPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::MessageLevelPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::helpPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AssertResetPy (PyObject *self, PyObject *args)

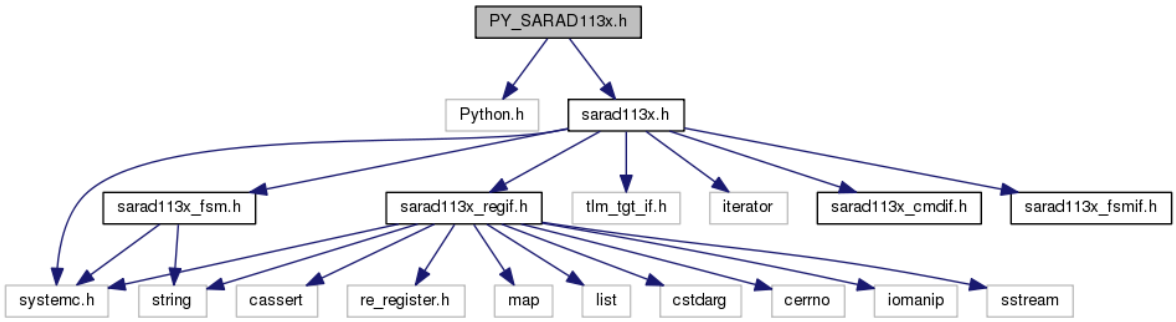
Variables

- PyMethodDef PY_SARAD113x::mShApiDef []

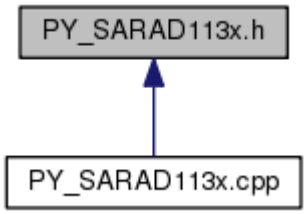
PY_SARAD113x.h File Reference

```
#include <Python.h>
#include "sarad113x.h"
```

Include dependency graph for PY_SARAD113x.h:



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



Namespaces

- namespace PY_SARAD113x

Macros

- #define PY_INITMODULE_NAME "SCHEAP"

Functions

- PyObject * PY_SARAD113x::DumpInterruptPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EnableConvertInfoPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AvrefhPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AVccPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AVssPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EX_HLD_CDTPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EX_CNVTPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tDPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tPWDDPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tEDPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::EnableTimeCalculationPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::DumpStatInfoPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::SetCLKfreqPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::tgtPy (PyObject *self, PyObject *args)

- PyObject * PY_SARAD113x::regPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::MessageLevelPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::helpPy (PyObject *self, PyObject *args)
- PyObject * PY_SARAD113x::AssertResetPy (PyObject *self, PyObject *args)
- void PY_SARAD113x::SetPyExtCmd (void)
- void PY_SARAD113x::SeparateString (std::vector< std::string > &vtr, const std::string msg)
- void PY_SARAD113x::ProcessCommand (const std::string cmd_id, const std::string cmd_name, char *token, char *input_arg)

Macro Definition Documentation

#define PY_INITMODULE_NAME "SCHEAP"

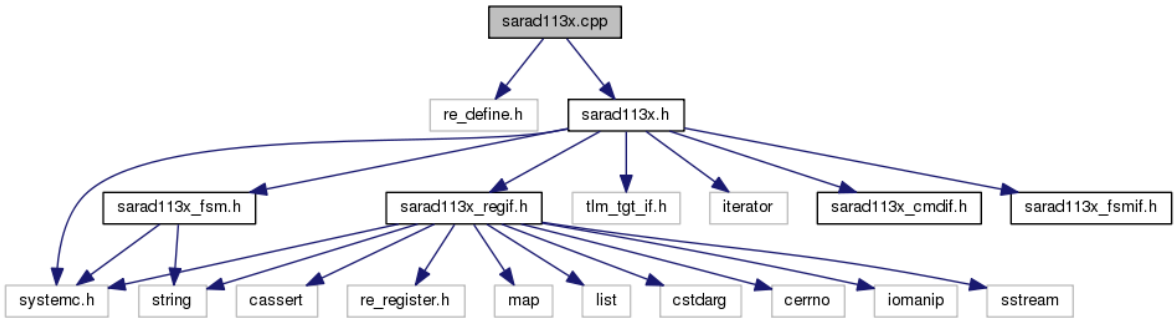
Definition at line 17 of file PY_SARAD113x.h.

Referenced by PY_SARAD113x::SetPyExtCmd().

sarad113x.cpp File Reference

```
#include "re_define.h"
#include "sarad113x.h"
```

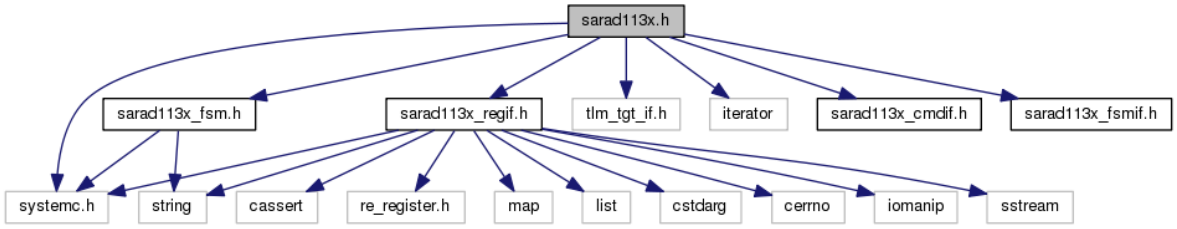
Include dependency graph for sarad113x.cpp:



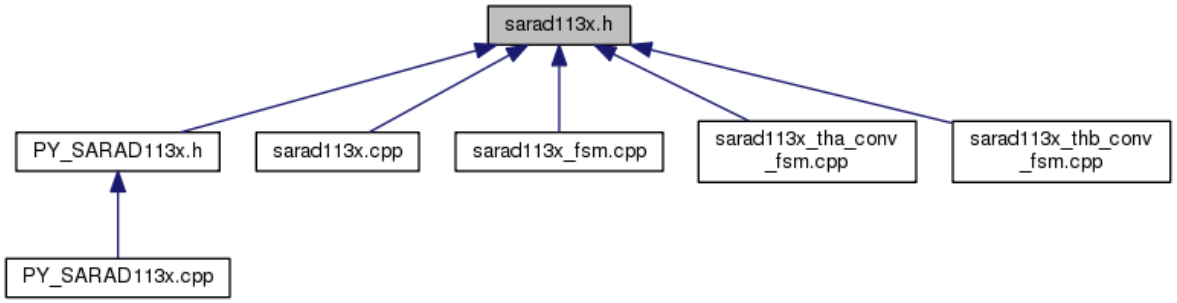
sarad113x.h File Reference

```
#include "systemc.h"
#include "sarad113x_regif.h"
#include "sarad113x_fsm.h"
#include "tlm_tgt_if.h"
#include <iterator>
#include "sarad113x_cmdif.h"
#include "sarad113x_fsmif.h"
```

Include dependency graph for sarad113x.h:



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



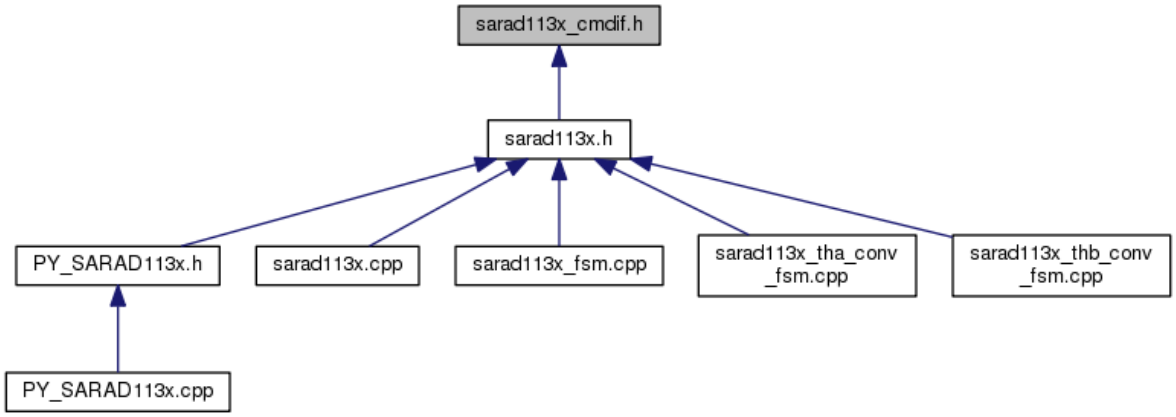
Classes

- class Csarad113x

SARAD113x model class.

sarad113x_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)
- std::string regif_handle_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
- bool DumpInterrupt
- bool EnableConvertInfo
- double Avrefh
- double AVcc

- double AVss
- unsigned int EX_HLD_CDT
- unsigned int EX_CNVT
- double tD
- double tPWDD
- double tED
- bool EnableTimeCalculation

Macro Definition Documentation

#define re_printf get_fileline(__FILE__, __LINE__); _re_printf

Definition at line 1246 of file sarad113x_cmdif.h.

Referenced by Csarad113x::ADConvert(), Csarad113x::AssertReset(), Csarad113x::AVREFHMethod(), Csarad113x::cb_SGMCYCR_MCYC(), Csarad113x::cb_SGPRCR_SGPR0(), Csarad113x::cb_SGVCEP_VCEP(), Csarad113x::cb_SGVCSP_VCSP(), Csarad113x::cb_SMPCR_SMPT(), Csarad113x::cb_THAHLDSTCR_HLDST(), Csarad113x::cb_THBHLDSTCR_HLDST(), Csarad113x::cb_THER_TH0E(), Csarad113x::cb_THGSR_TH0GS(), Csarad113x::cb_THSMPSTCR_SMPST(), Csarad113x::cb_TSNSMPCR_TSNSMPT(), Csarad113x::cb_ULLMTBR_ULMTB(), Csarad113x::cb_VCR_GCTRL(), Csarad113x::CheckAccess(), Csarad113x::CheckHoldStart(), Csarad113x::CheckSGSetting(), Csarad113x::CheckSmpTime(), Csarad113x::CommandCB(), Csarad113x::DumpActivity(), Csarad113x::DumpInterruptMessage(), Csarad113x::EnableReset(), Csarad113x::EndHolding(), Csarad113x::FinishScanning(), Csarad113x::HWTrigger(), Csarad113x::PrintVCmessage(), Csarad113x::ResetMethod(), Csarad113x::SetCLKfreq(), Csarad113x::StartHoldProcess(), Csarad113x::StartScanning(), Csarad113x::StartTHSamplingMethod(), Csarad113x::StopOperation(), Csarad113x::SuspendScanning(), Csarad113x::SWTrigger(), and Csarad113x::UpdateConversionDataMethod().

Function Documentation

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

Definition at line 1101 of file sarad113x_cmdif.h.

References mFileName, mInstName, mLineNum, and mMessageLevel.

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

Definition at line 1040 of file sarad113x_cmdif.h.

References AVcc, Avrefh, AVss, DumpInterrupt, EnableConvertInfo, EnableTimeCalculation, EX_CNVT, EX_HLD_CDT, mCmdId, mFileName, mInstName, mLineNum, mMessageLevel, tD, tED, and tPWDD.

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

Definition at line 1235 of file sarad113x_cmdif.h.

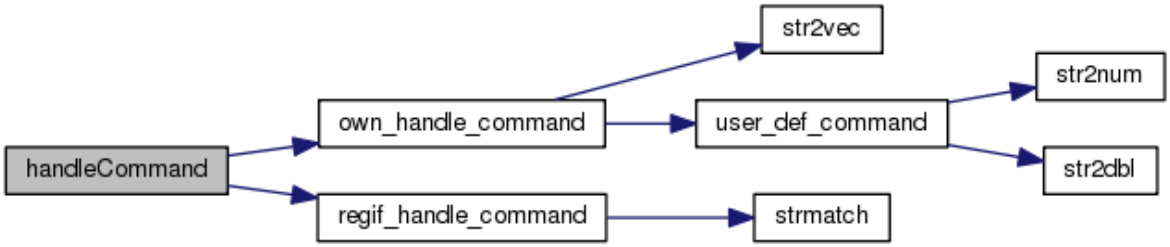
References mFileName, and mLineNum.

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

Definition at line 59 of file sarad113x_cmdif.h.

References mCmdId, mInstName, own_handle_command(), and regif_handle_command().

Here is the call graph for this function:



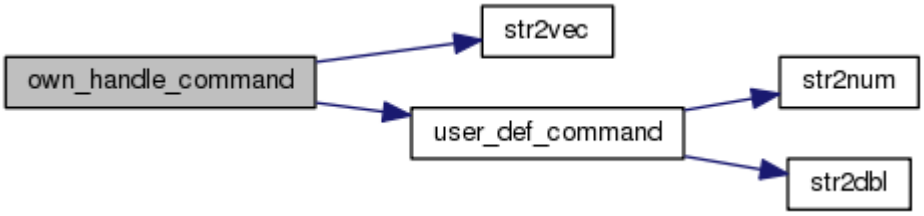
std::string own_handle_command (std::vector< std::string > & *args*) `[private]`

Definition at line 176 of file sarad113x_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:

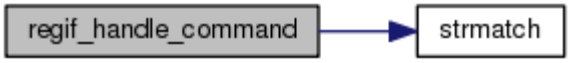
std::string regif_handle_command (std::vector< std::string > & *args*) `[private]`

Definition at line 773 of file sarad113x_cmdif.h.

References mInstName, and strmatch().

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 1024 of file sarad113x_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 917 of file sarad113x_cmdif.h.

Referenced by user_def_command().

Here is the caller graph for this function:

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

Definition at line 951 of file sarad113x_cmdif.h.

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

Definition at line 975 of file sarad113x_cmdif.h.

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

Definition at line 1000 of file sarad113x_cmdif.h.

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

Definition at line 1082 of file sarad113x_cmdif.h.

Referenced by own_handle_command().

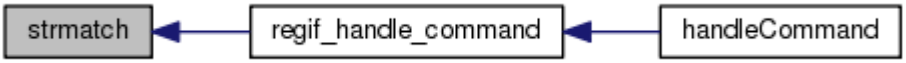
Here is the caller graph for this function:

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

Definition at line 1249 of file sarad113x_cmdif.h.

Referenced by regif_handle_command().

Here is the caller graph for this function:



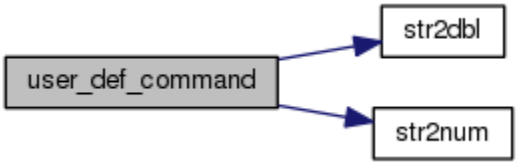
std::string user_def_command (std::vector< std::string > & *args*) `[private]`

Definition at line 444 of file sarad113x_cmdif.h.

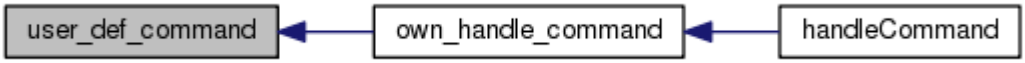
References AVcc, Avrefh, AVss, DumpInterrupt, EnableConvertInfo, EnableTimeCalculation, EX_CNVT, EX_HLD_CDT, mInstName, str2dbl(), str2num(), tD, tED, and tPWDD.

Referenced by own_handle_command().

Here is the call graph for this function:



Here is the caller graph for this function:



Variable Documentation

double AVcc

Definition at line 1295 of file sarad113x_cmdif.h.

Referenced by CommandInit(), and user_def_command().

double Avrefh

Definition at line 1294 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

double AVss

Definition at line 1296 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

bool DumpInterrupt

Definition at line 1292 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

bool EnableConvertInfo

Definition at line 1293 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

bool EnableTimeCalculation

Definition at line 1302 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

unsigned int EX_CNVT

Definition at line 1298 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

unsigned int EX_HLD_CDT

Definition at line 1297 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and user_def_command().

std::string mCmdId

Definition at line 1286 of file sarad113x_cmdif.h.
Referenced by CommandInit(), and handleCommand().

std::string mFileName

Definition at line 1285 of file sarad113x_cmdif.h.

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

std::string mInstName

Definition at line 1284 of file sarad113x_cmdif.h.

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

int mLineNum

Definition at line 1287 of file sarad113x_cmdif.h.

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

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

Definition at line 1277 of file sarad113x_cmdif.h.

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

double tD

Definition at line 1299 of file sarad113x_cmdif.h.

Referenced by CommandInit(), and user_def_command().

double tED

Definition at line 1301 of file sarad113x_cmdif.h.

Referenced by CommandInit(), and user_def_command().

double tPWDD

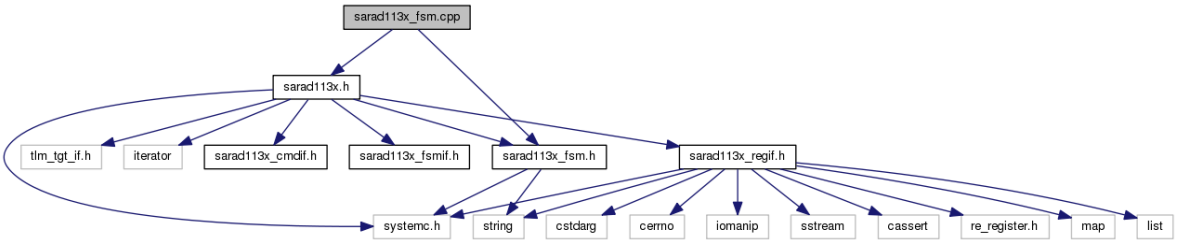
Definition at line 1300 of file sarad113x_cmdif.h.

Referenced by CommandInit(), and user_def_command().

sarad113x_fsm.cpp File Reference

```
#include "sarad113x_fsm.h"
#include "sarad113x.h"
```

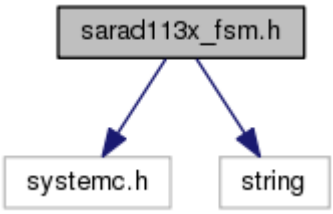
Include dependency graph for sarad113x_fsm.cpp:



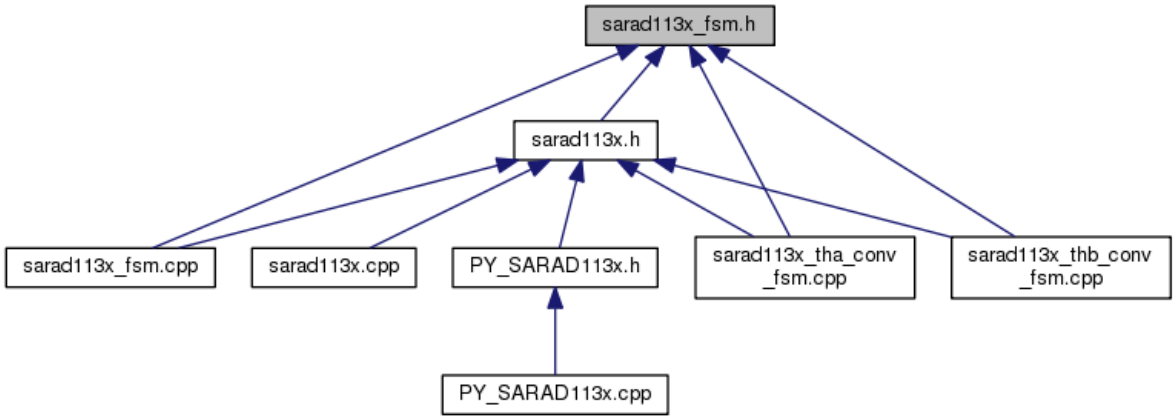
sarad113x_fsm.h File Reference

```
#include "systemc.h"
#include <string>
```

Include dependency graph for sarad113x_fsm.h:



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

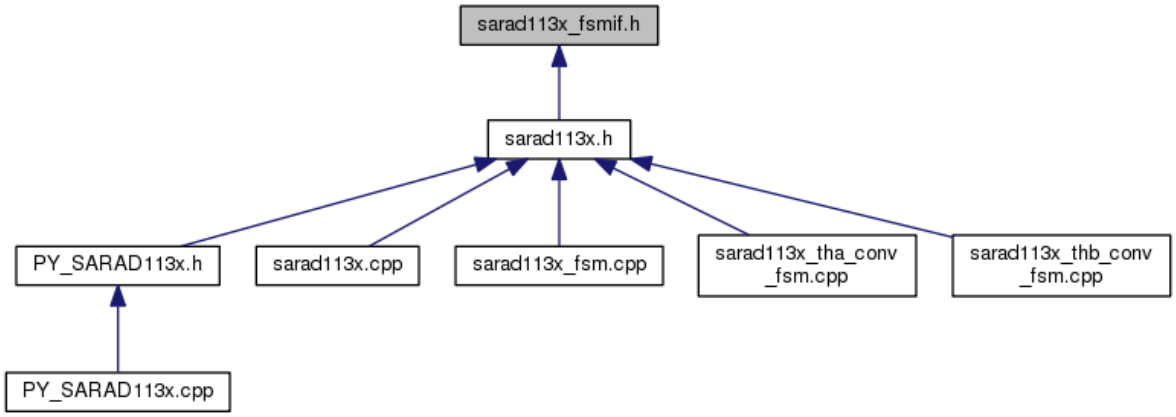


Classes

- class Cfsm_base
- *FSM base class.* class Csarad113x_fsm
- struct Csarad113x_fsm::SEventFunctionCallInfo
- class Csarad113x_tha_conv_fsm
- class Csarad113x_thb_conv_fsm

sarad113x_fsmif.h File Reference

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



Functions

- void SARAD113xFSMInit (void)
- void SARAD113xFSMTriggerMethod (unsigned int event_code)

Variables

- Csarad113x_fsm * pCsarad113x_fsm
- sc_event mSARAD113xFSMEvent [Csarad113x_fsm::emTotalNumOfEvent]

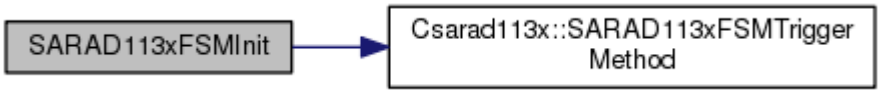
Function Documentation

void SARAD113xFSMInit (void) [private]

Definition at line 29 of file sarad113x_fsmif.h.

References Csarad113x_fsm, Csarad113x_fsm::emTotalNumOfEvent, mSARAD113xFSMEvent, and Csarad113x::SARAD113xFSMTriggerMethod().

Here is the call graph for this function:

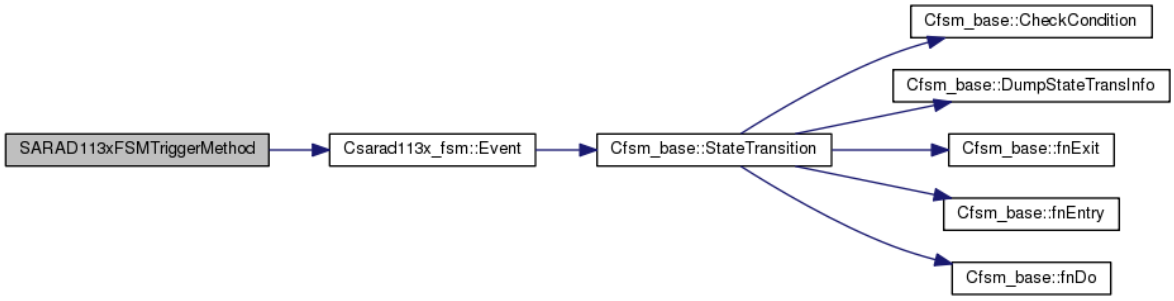


void SARAD113xFSMTriggerMethod (unsigned int *event_code*) [private]

Definition at line 41 of file sarad113x_fsmif.h.

References Csarad113x_fsm::emTotalNumOfEvent, and Csarad113x_fsm::Event().

Here is the call graph for this function:



Variable Documentation

sc_event mSARAD113xFSMEvent[Csarad113x_fsm::emTotalNumOfEvent]

Definition at line 27 of file sarad113x_fsmif.h.
Referenced by SARAD113xFSMInit().

Csarad113x_fsm* pCsarad113x_fsm

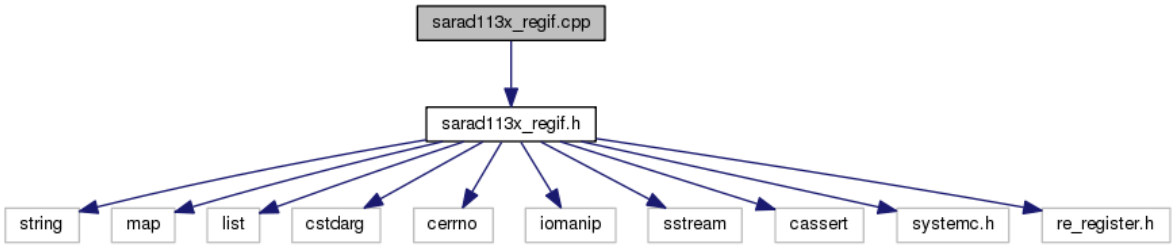
Definition at line 26 of file sarad113x_fsmif.h.

sarad113x_regif.cpp File Reference

Register IF class of model SARAD113x Id $Date$ $Revison$ $Author$.

```
#include "sarad113x_regif.h"
```

Include dependency graph for sarad113x_regif.cpp:



Macros

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

---

Detailed Description

Register IF class of model SARAD113x Id $Date$ $Revison$ $Author$.

Definition in file sarad113x_regif.cpp.

Macro Definition Documentation

#define re_printf get_fileline(__FILE__, __LINE__); _re_printf

Definition at line 447 of file sarad113x_regif.cpp.

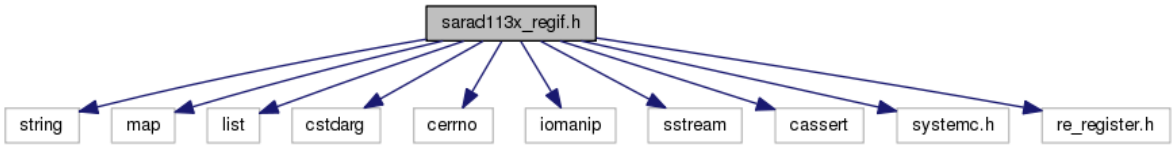
Referenced by Csarad113x_regif::ChkSize(), Csarad113x_regif::DumpRegMsg(), Csarad113x_regif::EnableReset(), Csarad113x_regif::reg_rd(), Csarad113x_regif::reg_rd_dbg(), Csarad113x_regif::reg_rd_func(), Csarad113x_regif::reg_rd_process(), Csarad113x_regif::reg_wr(), Csarad113x_regif::reg_wr_dbg(), Csarad113x_regif::reg_wr_func(), and Csarad113x_regif::reg_wr_process().

sarad113x_regif.h File Reference

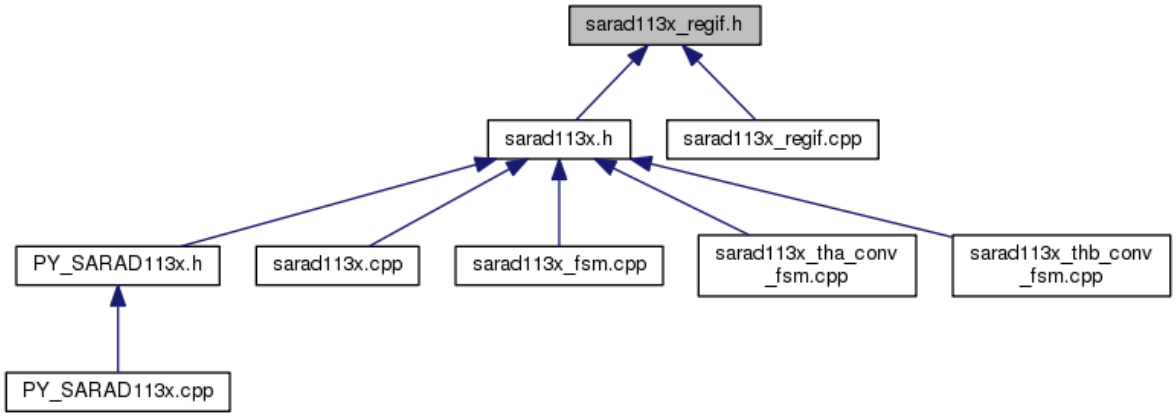
Register IF class of model SARAD113x Id $Date$ $Revison$ $Author$.

```
#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 sarad113x_regif.h:



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



Classes

- class Csarad113x_regif
- *Register IF class of SARAD113x model.* struct Csarad113x_regif::RegCBstr
- struct Csarad113x_regif::SRegList

Detailed Description

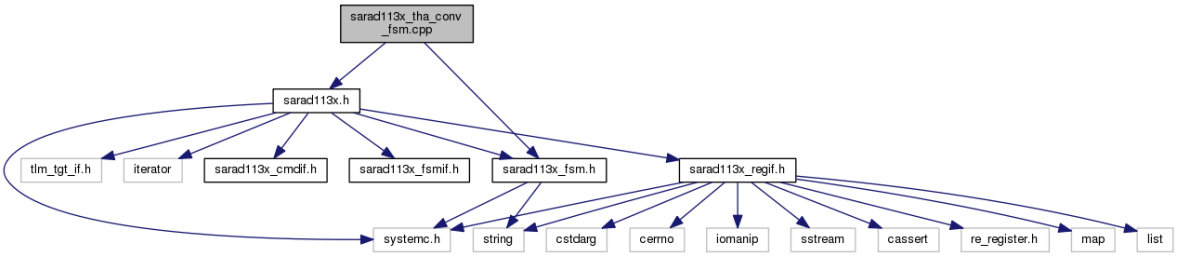
Register IF class of model SARAD113x Id $Date$ $Revison$ $Author$.

Definition in file sarad113x_regif.h.

sarad113x_tha_conv_fsm.cpp File Reference

```
#include "sarad113x_fsm.h"
#include "sarad113x.h"
```

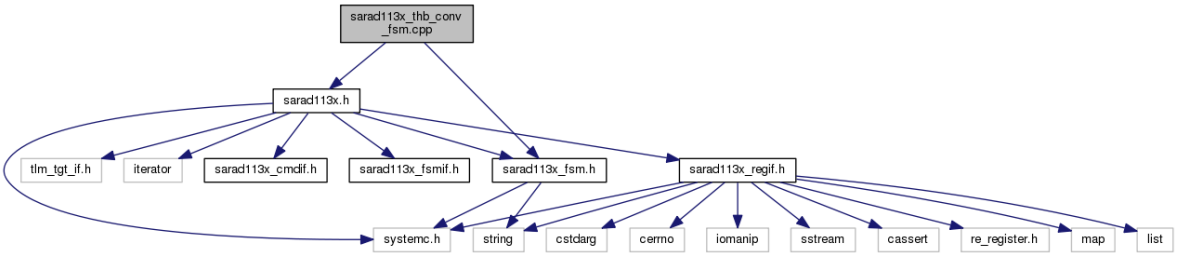
Include dependency graph for sarad113x_tha_conv_fsm.cpp:



sarad113x_thb_conv_fsm.cpp File Reference

```
#include "sarad113x_fsm.h"
#include "sarad113x.h"
```

Include dependency graph for sarad113x_thb_conv_fsm.cpp:



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