

## CT-PPS Motherboard registers library

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# Chapter 1

## Hierarchical Index

### 1.1 Class Hierarchy

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

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## Chapter 2

# Class Index

### 2.1 Class List

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

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## Chapter 3

# Class Documentation

### 3.1 TDCStatus::ErrorType Struct Reference

Type of error encountered by the HPTDC.

```
#include <TDCStatus.h>
```

#### Public Member Functions

- bool [ParityError](#) () const  
*Error related on the parity of any register/buffer.*
- bool [MeasurementError](#) () const  
*Error related to the Vernier or Coarse measurement.*
- bool [GlobalError](#) () const  
*Has any error occurred?*

#### Public Attributes

- bool **Vernier**
- bool **Coarse**
- bool **ChannelSelect**
- bool **L1BufferParity**
- bool **TriggerFIFOParity**
- bool **TriggerMatchingState**
- bool **ReadoutFIFOParity**
- bool **ReadoutState**
- bool **SetupParity**
- bool **ControlParity**
- bool **JTAGInstruction**

#### 3.1.1 Detailed Description

Type of error encountered by the HPTDC.

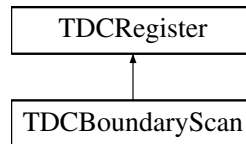
The documentation for this struct was generated from the following file:

- include/TDCStatus.h

## 3.2 TDCBoundaryScan Class Reference

```
#include <TDCBoundaryScan.h>
```

Inheritance diagram for TDCBoundaryScan:



### Public Member Functions

- **TDCBoundaryScan** (const [TDCBoundaryScan](#) &bs)
- bool **IsTokenOut** () const
- bool **IsStrobeOut** () const
- bool **IsSerialOut** () const
- bool **IsTest** () const
- bool **IsError** () const
- bool **IsDataReady** () const
- bool **IsParallelEnabled** () const
- bool **HasParallelDataOut** (unsigned short channel\_id) const
- bool **IsEncodedControl** () const
- bool **IsTrigger** () const
- bool **HasTrigger** () const
- bool **HasEventReset** () const
- bool **HasBunchReset** () const
- bool **IsGettingData** () const
- bool **IsSerialBypassIn** () const
- bool **IsSerialIn** () const
- bool **IsTokenBypassIn** () const
- bool **IsTokenIn** () const
- bool **IsReset** () const
- bool **HasAuxiliaryClock** () const
- bool **HasClock** () const
- bool **HasHit** (unsigned short channel\_id) const
- void [SetConstantValues](#) ()
  - Set all hardcoded values to this register.*
- void [Dump](#) () const
  - Printout all useful values of this status register into an output stream.*

### Additional Inherited Members

#### 3.2.1 Detailed Description

##### Author

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## Date

24 Apr 2015  
May 2016

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

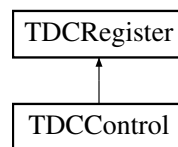
- include/TDCBoundaryScan.h

### 3.3 TDCCControl Class Reference

Control word to be sent to the HPTDC chip.

```
#include <TDCCControl.h>
```

Inheritance diagram for TDCCControl:



#### Public Types

- enum **EnablePattern** { **OutputEnabled** =0x5, **OutputDisabled** =0x4 }

#### Public Member Functions

- **TDCCControl** (const [TDCCControl](#) &c)
- **TDCCControl** (const std::vector< uint8\_t > &words)
- void **SetEnablePattern** (const EnablePattern &ep=OutputEnabled)
- EnablePattern **GetEnablePattern** () const
- void **SetGlobalReset** (const bool gr=true)
- bool **GetGlobalReset** () const
- void **SetDLLReset** (const bool dr=true)
- bool **GetDLLReset** () const
- void **SetPLLReset** (const bool pr=true)
- bool **GetPLLReset** () const
- void **EnableChannel** (unsigned int id)
- void **EnableAllChannels** ()
- void **DisableChannel** (unsigned int id)
- void **DisableAllChannels** ()
- void [Dump](#) (int verb=1, std::ostream &os=std::cout) const  
*Printout all useful values of this control register into an output stream.*
- void [SetConstantValues](#) ()

#### Additional Inherited Members

##### 3.3.1 Detailed Description

Control word to be sent to the HPTDC chip.

Object handling the control word provided by/to the HPTDC chip

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**Date**

24 Apr 2015

**3.3.2 Member Function Documentation****3.3.2.1 void TDCControl::SetConstantValues ( ) [virtual]**

Ensure that the critical constant values are properly set in the register word

Implements [TDCRegister](#).

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

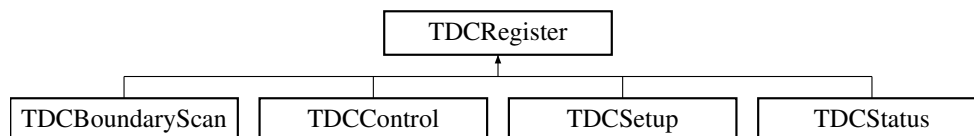
- include/TDCControl.h

**3.4 TDCRegister Class Reference**

General register object to interact with a HPTDC chip.

```
#include <TDCRegister.h>
```

Inheritance diagram for TDCRegister:

**Public Types**

- typedef uint16\_t [bit](#)  
*LSB index.*
- typedef uint32\_t [word\\_t](#)  
*Unit of the TDC register word to be successfully contained on any machine.*

**Public Member Functions**

- [TDCRegister](#) (const unsigned int size)  
*Initialise an empty register.*
- [TDCRegister](#) (const unsigned int size, const [TDCRegister](#) &r)  
*Initialise and fill a register.*
- [TDCRegister](#) (const unsigned int size, const std::vector< uint8\_t > &words, bool reversed=false)  
*Initialise and fill a register.*
- virtual [~TDCRegister](#) ()  
*Destroy the register and its content.*
- [TDCRegister](#) & [operator=](#) (const [TDCRegister](#) &r)  
*Assign values from another register to this one.*

- void [SetWord](#) (const unsigned int i, const [word\\_t](#) word)  
*Set one bit(s) subset in the register word.*
- [word\\_t](#) [GetWord](#) (const unsigned int i) const  
*Retrieve one subset from the register word.*
- [word\\_t](#) \* [GetWords](#) () const  
*Retrieve the whole array of sub-words composing this register.*
- std::vector< [uint8\\_t](#) > [GetBytesVector](#) () const  
*Retrieve a vector of 8-bit words composing this register.*
- [uint8\\_t](#) [GetNumWords](#) () const  
*Number of words in the register.*
- void [DumpRegister](#) (unsigned short verb=1, std::ostream &os=std::cout, const [bit](#) max\_bits=-1) const  
*Printout all useful information handled by the register.*
- virtual void [SetConstantValues](#) ()=0

### Protected Member Functions

- void [SetBits](#) ([uint16\\_t](#) lsb, [uint16\\_t](#) word, [uint8\\_t](#) size)  
*Set bits in the register word.*
- [uint16\\_t](#) [GetBits](#) ([uint16\\_t](#) lsb, [uint8\\_t](#) size) const  
*Extract bits from the register word.*
- void [Clear](#) ()  
*Set all bits in this register to '0'.*

### Protected Attributes

- [word\\_t](#) \* [fWord](#)  
*Pointer to this register's word.*
- unsigned int [fNumWords](#)
- unsigned int [fWordSize](#)  
*Number of bits in this register.*

#### 3.4.1 Detailed Description

General register object to interact with a HPTDC chip.

##### Author

Laurent Forthomme [laurent.forthomme@cern.ch](mailto:laurent.forthomme@cern.ch)

##### Date

24 Apr 2015

#### 3.4.2 Member Function Documentation

##### 3.4.2.1 [uint16\\_t](#) TDCRegister::GetBits ( [uint16\\_t](#) lsb, [uint8\\_t](#) size ) const [protected]

Extract bits from the register word.

Extract a fixed amount of bits from the full register word

**Parameters**

in	<i>lsb</i>	Least significant bit of the word to retrieve
in	<i>size</i>	Size of the word to retrieve

**3.4.2.2** `uint8_t TDCRegister::GetNumWords ( ) const [inline]`

Number of words in the register.

Return the number of words making up the full register word.

**3.4.2.3** `void TDCRegister::SetBits ( uint16_t lsb, uint16_t word, uint8_t size ) [protected]`

Set bits in the register word.

Set a fixed amount of bits in the full register word

**Parameters**

in	<i>lsb</i>	Least significant bit of the word to set
in	<i>word</i>	Word to set
in	<i>size</i>	Size of the word to set

**3.4.2.4** `virtual void TDCRegister::SetConstantValues ( ) [pure virtual]`

Ensure that the critical constant values are properly set in the register word

Implemented in [TDCSetup](#), [TDCBoundaryScan](#), [TDCControl](#), and [TDCStatus](#).

**3.4.3 Member Data Documentation****3.4.3.1** `unsigned int TDCRegister::fNumWords [protected]`

Number of words to fit the *fWordSize* bits of this register to this object

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

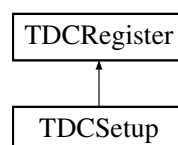
- include/TDCRegister.h

**3.5 TDCSetup Class Reference**

Setup word to be sent to the HPTDC chip.

```
#include <TDCSetup.h>
```

Inheritance diagram for TDCSetup:



## Public Types

- enum **EdgeResolution** {  
**E\_100ps** =0, **E\_200ps**, **E\_400ps**, **E\_800ps**,  
**E\_1p6ns**, **E\_3p12ns**, **E\_6p25ns**, **E\_12p5ns** }
- enum **DeadTime** { **DT\_5ns** =0, **DT\_10ns**, **DT\_30ns**, **DT\_100ns** }
- enum **WidthResolution** {  
**W\_100ps** =0, **W\_200ps**, **W\_400ps**, **W\_800ps**,  
**W\_1p6ns**, **W\_3p2ns**, **W\_6p25ns**, **W\_12p5ns**,  
**W\_25ns**, **W\_50ns**, **W\_100ns**, **W\_200ns**,  
**W\_400ns**, **W\_800ns** }
- enum **EnabledError** {  
**VernierError** =0x1, **CoarseError** =0x2, **ChannelSelectError** =0x4, **L1BufferParityError** =0x8,  
**TriggerFIFOParityError** =0x10, **TriggerMatchingError** =0x20, **ReadoutFIFOParityError** =0x40,  
**ReadoutStateError** =0x80,  
**SetupParityError** =0x100, **ControlParityError** =0x200, **JTAGInstructionParityError** =0x400 }
- enum **DLLSpeedMode** { **DLL\_40MHz** =0x0, **DLL\_160MHz** =0x1, **DLL\_320MHz** =0x2, **DLL\_Illegal** =0x3 }
- enum **SerialClockSource** { **Serial\_pll\_clock\_80** =0x0, **Serial\_pll\_clock\_160** =0x1, **Serial\_pll\_clock\_40** =0x2, **Serial\_aux\_clock** =0x3 }
- enum **IOClockSource** { **IO\_clock\_40** =0x0, **IO\_pll\_clock\_80** =0x1, **IO\_pll\_clock\_160** =0x2, **IO\_aux\_clock** =0x3 }
- enum **CoreClockSource** { **Core\_clock\_40** =0x0, **Core\_pll\_clock\_80** =0x1, **Core\_pll\_clock\_160** =0x2, **Core\_aux\_clock** =0x3 }
- enum **DLLClockSource** {  
**DLL\_clock\_40** =0x0, **DLL\_pll\_clock\_40** =0x1, **DLL\_pll\_clock\_160** =0x2, **DLL\_pll\_clock\_320** =0x3,  
**DLL\_aux\_clock** =0x4 }
- enum **ReadoutSpeed** { **RO\_Fixed** =0x0, **RO\_pll\_80Mbps\_s** =0x1 }
- enum **SerialStrobeType** { **SS\_NoStrobe** =0x0, **SS\_DSStrobe** =0x1, **SS\_LeadingTrailingStrobe** =0x2, **SS\_LeadingEdge** =0x3 }
- enum **ReadoutSingleCycleSpeed** {  
**RSC\_40Mbps\_s** =0x0, **RSC\_20Mbps\_s** =0x1, **RSC\_10Mbps\_s** =0x2, **RSC\_5Mbps\_s** =0x3,  
**RSC\_2p5Mbps\_s** =0x4, **RSC\_1p25Mbps\_s** =0x5, **RSC\_625kbps\_s** =0x6, **RSC\_312p5kbps\_s** =0x7 }

## Public Member Functions

- **TDCSetup** (const [TDCSetup](#) &c)
- **TDCSetup** (const std::vector< uint8\_t > &v, bool reverse=false)
- void [SetEnableErrorMark](#) (const bool em)  
*Mark events with error if global error signal is set.*
- bool **GetEnableErrorMark** () const
- void [SetEnableErrorBypass](#) (const bool eb)  
*Bypass TDC chip if global error signal is set.*
- bool **GetEnableErrorBypass** () const
- void [SetEnableError](#) (const uint16\_t &err)  
*Enable internal error types for generation of global error signals.*
- uint16\_t **GetEnableError** () const
- void [SetEnableSerial](#) (const bool es)  
*Enable of serial read-out (otherwise parallel read-out)*
- bool **GetEnableSerial** () const
- void [SetEnableJTAGReadout](#) (const bool jr)  
*Enable of read-out via JTAG.*
- bool **GetEnableJTAGReadout** () const
- void [SetReadoutFIFOSize](#) (int rfs)  
*Effective size of readout FIFO.*

- int **GetReadoutFIFOSize** () const
- void **SetRejectCountOffset** (uint16\_t rco)  
*Set the offset in reject counter (defines reject latency together with coarse count offset)*
- uint16\_t **GetRejectCountOffset** () const  
*Extract the offset in reject counter.*
- void **SetSearchWindow** (uint16\_t sw)  
*Set the search window (in multiples of clock cycles: 0=25 ns, 1=50 ns, ...)*
- uint16\_t **GetSearchWindow** () const  
*Extract the search window (in multiples of clock cycles: 0=25 ns, 1=50 ns, ...)*
- void **SetMatchWindow** (uint16\_t mw)  
*Set the matching window (in multiples of clock cycles: 0=25 ns, 1=50 ns, ...)*
- uint16\_t **GetMatchWindow** () const  
*Extract the matching window (in multiples of clock cycles: 0=25 ns, 1=50 ns, ...)*
- void **SetEdgeResolution** (const EdgeResolution r)
- EdgeResolution **GetEdgeResolution** () const
- void **SetMaxEventSize** (int sz=-1)  
*Set the maximum number of hits per event.*
- uint8\_t **GetMaxEventSize** () const  
*Extract the maximum number of hits per event.*
- void **SetRejectFIFOFull** (const bool rej=true)  
*Reject hits when readout FIFO full.*
- bool **GetRejectFIFOFull** () const  
*Are hits rejected when readout FIFO is full?*
- void **SetEnableReadoutOccupancy** (const bool ro=true)  
*Enable the readout of buffer occupancies for each event (for debugging purposes)*
- bool **GetEnableReadoutOccupancy** () const
- void **SetEnableReadoutSeparator** (const bool ro=true)  
*Enable the readout of separators for each event (for debugging purposes, valid if readout of occupancies is enabled)*
- bool **GetEnableReadoutSeparator** () const
- void **SetEventCountOffset** (uint16\_t eco)  
*Set offset for the event counter.*
- void **SetTriggerCountOffset** (uint16\_t tco)  
*Set offset for the trigger time tag counter to set effective trigger latency.*
- uint16\_t **GetTriggerCountOffset** () const  
*Extract trigger time tag count offset.*
- void **SetChannelOffset** (int channel, uint16\_t offset)  
*Set the time offset for one single channel.*
- uint16\_t **GetChannelOffset** (int channel) const  
*Return the offset for one single channel.*
- void **SetAllChannelsOffset** (uint16\_t offset)  
*Set the time offset for all channels.*
- void **SetCoarseCountOffset** (uint16\_t cco)  
*Set offset for the coarse time counter.*
- uint16\_t **GetCoarseCountOffset** () const  
*Extract offset for the coarse time counter.*
- void **SetDLLAdjustment** (int tap, uint8\_t adj)  
*Set the DLL taps adjustments with a resolution of  $\sim 10$  ps.*
- uint8\_t **GetDLLAdjustment** (int tap) const  
*Set the adjustment of DLL taps.*
- void **SetAllTapsDLLAdjustment** (uint8\_t adj)  
*Extract the adjustment of DLL taps.*



- void [SetRCAdjustment](#) (int tap, uint8\_t adj)  
*Set the adjustment of the RC delay line.*
- uint8\_t [GetRCAdjustment](#) (int tap)  
*Extract the adjustment of the RC delay line.*
- void [SetWidthResolution](#) (const WidthResolution r)  
*Set the pulse width resolution when paired measurements are performed.*
- WidthResolution [GetWidthResolution](#) () const  
*Extract the pulse width resolution when paired measurements are performed.*
- void [SetVernierOffset](#) (const uint8\_t vo)  
*Set the offset in vernier decoding.*
- uint8\_t [GetVernierOffset](#) () const  
*Extract the offset in vernier decoding.*
- void [SetDeadTime](#) (const DeadTime dt)  
*Channel dead time between hits.*
- DeadTime **GetDeadTime** () const
- void [SetTestInvert](#) (const bool ti=true)  
*Automatic inversion of test pattern. Only used during production testing.*
- bool **GetTestInvert** () const
- void [SetTestMode](#) (const bool tm=true)  
*Test mode where hit data are taken from coretest. Only used during production testing.*
- bool **GetTestMode** () const
- void [SetTrailingMode](#) (const bool trail=true)  
*Enable/disable the detection of trailing edges.*
- bool [GetTrailingMode](#) () const  
*Extract the status for the detection of trailing edges.*
- void [SetLeadingMode](#) (const bool lead=true)  
*Enable the detection of leading edges.*
- bool [GetLeadingMode](#) () const  
*Extract the status for the detection of leading edges.*
- void [SetTriggerMatchingMode](#) (const bool trig=true)  
*Set the enable status of trigger matching mode.*
- bool [GetTriggerMatchingMode](#) () const  
*Extract the enable status of trigger matching mode.*
- void [SetEdgesPairing](#) (const bool pair=true)  
*Enable the pairing of leading and trailing edges (overrides individual enable of leading/trailing edges)*
- bool **GetEdgesPairing** () const
- void [SetSetupParity](#) (const bool sp=true)  
*Set the parity of setup data (should be an even parity)*
- bool [GetSetupParity](#) () const  
*Extract the parity of setup data (should be an even parity)*
- void [SetConstantValues](#) ()  
*Ensure that the critical constant values are properly set in the setup word.*
- uint16\_t [GetTriggerLatency](#) () const  
*Effective trigger latency in number of clock cycles (when no counter roll-over is used)*
- void [SetTDCId](#) (const uint8\_t id=0x0)  
*Set the unique identifier of the TDC object on the board.*
- uint16\_t [GetTDCId](#) () const  
*Get the unique identifier of the TDC object on the board.*
- void [Dump](#) (int verb=1, std::ostream &os=std::cout) const  
*Printout all useful values of this setup register into an output stream.*

## Additional Inherited Members

### 3.5.1 Detailed Description

Setup word to be sent to the HPTDC chip.

Object handling the setup word provided by/to the HPTDC chip

#### Author

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#### Date

16 Apr 2015

May 2016

### 3.5.2 Member Function Documentation

#### 3.5.2.1 `bool TDCSetup::GetRejectFIFOFull ( ) const [inline]`

Are hits rejected when readout FIFO is full?

Extract whether or not hits are rejected once FIFO is full.

#### 3.5.2.2 `void TDCSetup::SetMaxEventSize ( int sz = -1 ) [inline]`

Set the maximum number of hits per event.

Set the maximum number of hits that can be recorded for each event. It is always rounded to the next power of 2 (in the range 0-128), and if lower than 0 or bigger than 128 then set to unlimited.

#### 3.5.2.3 `void TDCSetup::SetRejectFIFOFull ( const bool rej = true ) [inline]`

Reject hits when readout FIFO full.

Set whether or not hits are rejected once FIFO is full.

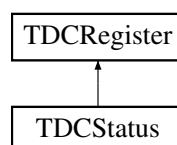
The documentation for this class was generated from the following file:

- `include/TDCSetup.h`

## 3.6 TDCStatus Class Reference

```
#include <TDCStatus.h>
```

Inheritance diagram for TDCStatus:



## Classes

- struct [ErrorType](#)  
*Type of error encountered by the HPTDC.*

## Public Types

- typedef struct [TDCStatus::ErrorType](#) [ErrorType](#)  
*Type of error encountered by the HPTDC.*

## Public Member Functions

- [TDCStatus](#) ()  
*Initialise a status register with all hardcoded values.*
- [TDCStatus](#) (const std::vector< uint8\_t > &words)  
*Initialise a status register from a vector of 8-bit words.*
- void [SetConstantValues](#) ()  
*Set the hardcoded values to the register.*
- [ErrorType](#) [Error](#) () const  
*Retrieve the list of errors monitored.*
- bool [HasToken](#) () const  
*TDC have read-out token.*
- uint16\_t [FIFOOccupancy](#) () const  
*Occupancy of readout FIFO.*
- bool [FIFOFull](#) () const  
*Is the readout FIFO full?*
- bool [FIFOEmpty](#) () const  
*Is the readout FIFO empty?*
- uint32\_t [L1Occupancy](#) (unsigned short group=-1) const  
*Occupancy of L1 buffer in channels of a group (or all groups)*
- uint16\_t [TriggerFIFOOccupancy](#) () const  
*Occupancy of trigger FIFO.*
- bool [TriggerFIFOFull](#) () const  
*Is the trigger FIFO full?*
- bool [TriggerFIFOEmpty](#) () const  
*Is the trigger FIFO empty?*
- bool [DLLLock](#) () const  
*Is the DLL in lock state?*
- void [Dump](#) (int verb=1, std::ostream &os=std::cout) const  
*Printout all useful values of this status register into an output stream.*

## Friends

- std::ostream & [operator<<](#) (std::ostream &out, const [ErrorType](#) &err)  
*Printout the error type(s) into the output stream.*

## Additional Inherited Members

### 3.6.1 Detailed Description

#### Author

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#### Date

27 Apr 2015  
May 2016

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

- include/TDCStatus.h

# Index

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- GetBits
  - TDCRegister, [9](#)
- GetNumWords
  - TDCRegister, [10](#)
- GetRejectFIFOFull
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