

Doxygen code browser for Antares

Aart Heijboer

Doxygen

Doxygen is an automatic documentation generator for C++, java, python, etc.

- Special comments in the code end up in the (html) documentation of classes, functions, etc. →
- Some Antares code already has such comments, but even without you get:
 - Nice, syntax-highlighted code browser
 - Class summaries, inheritance diagrams
 - Class & file index
 - Simple and fast search engine
 - Everything is clickable and cross-referenced.
- Even / especially for undocumented packages:
→ superior (imho) way to browse the code

For use in Antares, I wrote a script to:

- extract (many) packages from cvs
- try to figure out inter-package dependencies and generate cross-refs ('tag-files')
- run doxygen... makes ~14.000 html pages.
- cross-ref to root & libstdc++ web pages and cvsweb
- add link to global package- and class index, and global search engine to each page

In the code

```
/** ← special comment block
 * Set coincidence flag
 */
void set_coincidence(const int& t)
```

In the doxygen html output

```
void FullHit::set_coincidence ( const int & t ) [inline]
Set coincidence flag
Definition at line 138 of file FullHit.hh.
References addinfo_ , and kCoin .
Referenced by TempHit::set(), and TempHit::TempHit().
```

The main Package index.

www.nikhef.nl/~t61/dox

Antares: Main Page - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.nikhef.nl/~t61/dox

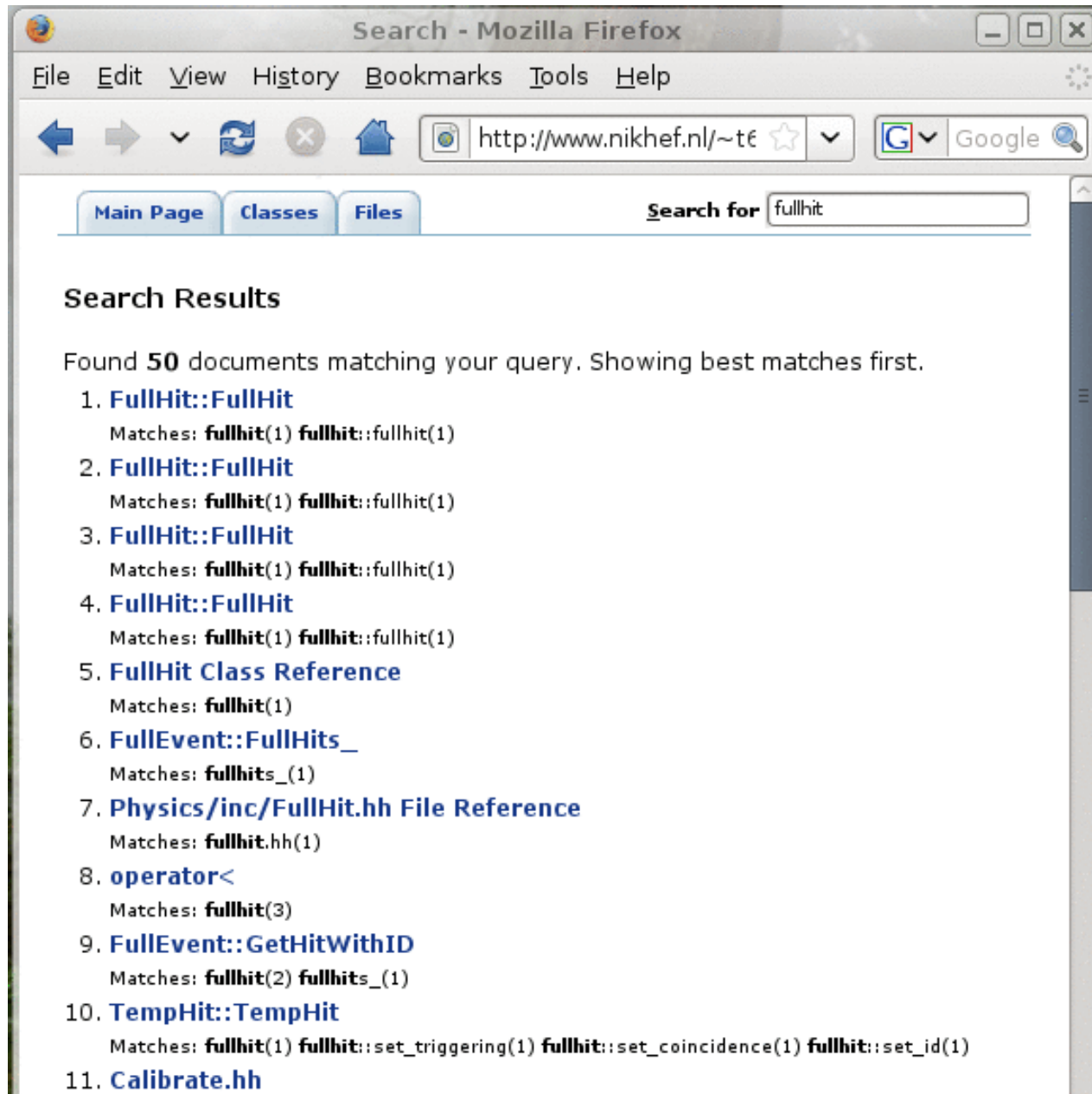
All Packages All Classes Search all packages for

Package Index

daqtest	[antares-daq/research]
autossh	[antares-daq/external]
Monitoring	[antares-daq/research]
io	Reading and writing events to/from ascii files
evtview	[antares-daq/research]
antunnel	[antares-daq/tools]
HistoPresenter	[antares-daq/tools]
DatabaseMonitors	[antares-daq/tools]
scDataPolling	[antares-daq/software]
ratemon	[antares-daq/tools]
Trigger	[antares-daq/research]
sollic	[antares-daq/software]

www.nikhef.nl/~t61/dox

Search Results



Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.nikhef.nl/~t61/dox

Main Page Classes Files Search for fullhit

Search Results

Found **50** documents matching your query. Showing best matches first.

1. **FullHit::FullHit**
Matches: **fullhit**(1) **fullhit::fullhit**(1)
2. **FullHit::FullHit**
Matches: **fullhit**(1) **fullhit::fullhit**(1)
3. **FullHit::FullHit**
Matches: **fullhit**(1) **fullhit::fullhit**(1)
4. **FullHit::FullHit**
Matches: **fullhit**(1) **fullhit::fullhit**(1)
5. **FullHit Class Reference**
Matches: **fullhit**(1)
6. **FullEvent::FullHits_**
Matches: **fullhits_**(1)
7. **Physics/inc/FullHit.hh File Reference**
Matches: **fullhit.hh**(1)
8. **operator<**
Matches: **fullhit**(3)
9. **FullEvent::GetHitWithID**
Matches: **fullhit**(2) **fullhits_**(1)
10. **TempHit::TempHit**
Matches: **fullhit**(1) **fullhit::set_triggering**(1) **fullhit::set_coincidence**(1) **fullhit::set_id**(1)
11. **Calibrate.hh**

Physics: FullHit Class Reference - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.nikhef.nl/~t61/dox/Physics/classFu

All Packages All Classes Search all packages for

Physics v2r1 Main Page Namespaces Classes Files Directories Search Physics for

Class List Class Index Class Hierarchy Class Members

FullHit Class Reference

#include <FullHit.hh>

Inheritance diagram for FullHit:

```
graph BT; TempHit --> FullHit; FullHit --> CalibHit
```

[[legend](#)]

[List of all members.](#)

Public Types

```
enum AddInfoldx_t { kId = 0, kTrg = 1, kCoin = 2, kNumInfos }
```

Public Member Functions

```
int id () const
int triggering () const
int coincidence () const
float GetOMActivity (DetectorRates &rates)
```

global indices and search box

Search within package

current package & version
version number is link to
cvsweb

Physics: Physics/inc/FullHit.hh Source File - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.nikhef.nl/~t61/dox/Physics/Fu

Search all packages for

Physics v2r1 Main Page Namespaces Classes Files Directories

Search Physics for

File List File Members

Physics » inc

FullHit.hh

[Go to the documentation of this file.](#)

```

00001 #ifndef __FULL_HIT__
00002 #define __FULL_HIT__
00003
00004 #include <iostream>
00005 #include <iomanip>
00006
00007 #include "TObject.h"
00008 #include "CalibHit.hh"
00009 #include "Rate.hh"
00010
00018 class FullHit : public CalibHit
00019 {
00020
00021 protected:
00022
00023     std::vector<int> addinfo_;
00024
00025 public:
00026
00027     enum AddInfoIdx_t {
00028         kId=0,
00029         kTrg=1,

```

#include <FullHit.hh>

Inheritance diagram for FullHit:

[List of all members.](#)

Public Types

enum [AddInfoIdx_t](#)

Public Member Functions

int	id	() const
int	triggering	() const
int	coincidence	(int)
float	GetOMActivity	(DetectorRates &rates)

The screenshot shows a Mozilla Firefox browser window displaying a class reference page for 'Physics'. The page title is 'Physics: FullHit Class Reference'. The browser's address bar shows 'http://antares.in2p3.fr/cgi-bin'. The page content includes a navigation menu with 'All Packages', 'All Classes', 'Physics v2r1', 'Main Page', 'Names', 'Class List', 'Class Index', and 'Class Hier'. Below the menu, there is a code snippet: '#include <FullHit.hh>' and the text 'Inheritance diagram for FullHit:'. A 'List of all members.' link is present. The 'Public Types' section shows an enum 'AddInfo_t'. The 'Public Member Functions' section lists several functions: 'int id () const', 'int triggering () const', 'int coincidence () const', and 'float GetOMActivity (DetectorRates &rates)'. A table below the functions lists files with columns for 'File', 'Rev.', 'Age', 'Author', and 'Last log entry'. The table contains entries for 'Parent Directory', 'inc/', 'src/', 'Doxyfile', 'Makefile', and 'RunAWFAnalysis'. The 'Doxyfile' entry has a revision of '1.1' and an age of '3 years'. The 'Makefile' entry has a revision of '1.23' and an age of '14 months'. The 'RunAWFAnalysis' entry has a revision of '1.1' and an age of '18 months'. The 'Last log entry' column contains descriptive text for each file.

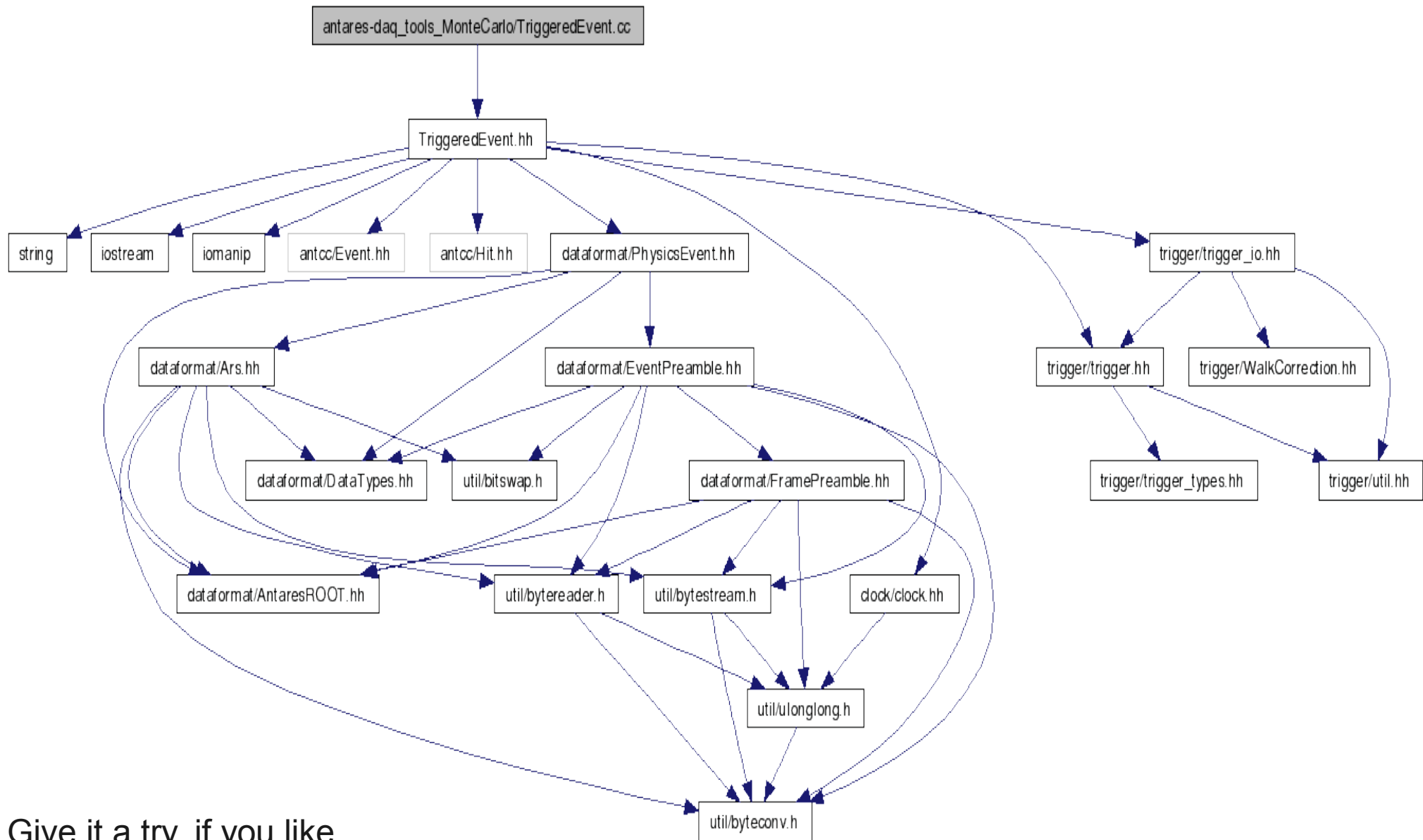
File	Rev.	Age	Author	Last log entry
Parent Directory				
inc/				
src/				
Doxyfile	1.1	3 years	becherin	Doxyfile
Makefile	1.23	14 months	creed	updated for new version name of antares daq. use libraries from ANTRS_LIB instead...
RunAWFAnalysis	1.1	18 months	becherin	We are looking at Waveforms! New program to open waveforms

ices and search

within package

package & version number is link to

The end



Give it a try, if you like
Let me know if you want a package added