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Subject: switching off the information output

Posted by [Prometeusz Jasinski](#) on Fri, 24 Feb 2012 13:16:36 GMT

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Hi,

Most probably somebody already ask but I dunno how to search for it.

How can I switch off the [INFO ] boxes? Those cost quite some performance and are annoying.

I searched for a verbosity level, did not find.

I searched the code and uncommented the line where information is requested to be written to that singleton manager, pandaroot beaks in that case.

I tried to put the output stream some where else but it does not seem to be std::cout stream.

Any suggestions?

Cheers

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Subject: Re: switching off the information output

Posted by [donghee](#) on Fri, 24 Feb 2012 13:22:40 GMT

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Hi Promme,

Here is one particular way to do that, if you are working on simulation level with primary generator.

>emacs pandaroot/base/ FairPrimaryGenerator.cxx

then go to line # 170

Quote:

```
fLogger->Info(MESSAGE_ORIGIN,"FairPrimaryGenerator: (Event %i) %i primary tracks from  
vertex (%f, %f, %f ) Event Time = %f (ns)" ,fEvent->GetEventID(), fNTracks, fVertex.),  
fVertex.Y(), fVertex.Z(), fEventTime);
```

then do inactive this line

Quote:

```
//fLogger->Info(MESSAGE_ORIGIN,"FairPrimaryGenerator: (Event %i) %i primary tracks from  
vertex (%f, %f, %f ) Event Time = %f (ns)" ,fEvent->GetEventID(), fNTracks, fVertex.),  
fVertex.Y(), fVertex.Z(), fEventTime);
```

then do make in buildpanda.

Now, it might be gone way.

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Subject: Re: switching off the information output  
Posted by [Prometeusz Jasinski](#) on Fri, 24 Feb 2012 13:25:44 GMT  
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I will try this line. But there should be a better way to do it, isn't it?

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Subject: Re: switching off the information output  
Posted by [Florian Uhlig](#) on Fri, 24 Feb 2012 14:13:43 GMT  
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Hi Donghee,

To comment the lines is a way to get rid of the messages, but not the way you should use. There is much better way.

The FairLogger class takes care of all the logging and you can steer it from the macro. If you don't like output switch it off or dump it to a file. The way to do it is to get a handle to the FairLogger in the macro and then to define it the way you want. So you can switch of the output for a production run, but you can switch it on again in case your program crashes and you want to debug it.

```
// This lines go to the macro
```

```
// get handle  
FairLogger *logger = FairLogger::GetLogger();
```

```
// define log file name  
logger->SetLogFileName("MyLog.log");
```

```
// log to screen and to file  
logger->SetLogToScreen(kTRUE);  
logger->SetLogToFile(kTRUE);
```

```
// Print very accurate output. Levels are LOW, MEDIUM and HIGH  
logger->SetLogVerbosityLevel("HIGH");
```

```
// Set different levels of verbosity. In the example everything >=INFO goes to the  
// file and everything >= ERROR is printed on the screen  
// LogLevels are (FATAL, ERROR, WARNING, INFO, DEBUG, DEBUG1, DEBUG2,  
DEBUG3, DEBUG4)  
logger->SetLogFileLevel("INFO"); // FATAL, ERROR, WARNING and INFO  
logger->SetLogScreenLevel("ERROR"); //Only FATAL and ERROR to screen
```

Hope this explanation helps to solve your problem.

Ciao

Florian

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Subject: Re: switching off the information output  
Posted by [donghee](#) on Fri, 24 Feb 2012 14:22:20 GMT  
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What a genius way!  
Thanks, that is exactly what we want to know!

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Subject: Re: switching off the information output  
Posted by [MartinJGaluska](#) on Mon, 04 Jun 2012 10:22:51 GMT  
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Hello Florian (and others),

I also think this is a very good way to manage the output. However, I have tried to incorporate it into my macros and it does not yield the hoped-for result.

I have put the lines you wrote in my run\_sim\_... macro (see attachment to this post), and what I get as output to the screen does not seem to be any different from before. The only output that gets directed into my log file is:

Quote:

```
[INFO ] [04.06.2012 11:59:11] [FairRunSim.cxx::SetMaterials:376] Media file used :  
/home/panda/pandaroot_sep12/trunk/geometry/media_pnd.geo  
[INFO ] [04.06.2012 11:59:13] [FairRunSim.cxx::Init:126] ===== FairRunSim:  
Initialising simulation run =====  
[ERROR ] [04.06.2012 11:59:13] [FairParSet.cxx::init:55] init() PndEmcGeoPar not initialized  
[ERROR ] [04.06.2012 11:59:13] [FairParSet.cxx::init:55] init() PndSensorNamePar not  
initialized  
[ERROR ] [04.06.2012 11:59:13] [FairParSet.cxx::init:55] init() PndEmcDigiNonuniformityPar  
not initialized  
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading  
field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/TransMap.0890.root  
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading  
field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/DipoleMap1.0890.root  
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading  
field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/DipoleMap2.0890.root  
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading  
field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/SolenoidMap1.root  
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading  
field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/SolenoidMap2.root  
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading
```

```

field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/SolenoidMap3.root
[INFO ] [04.06.2012 11:59:13] [PndFieldMap.cxx::ReadRootFile:508] PndFieldMap: Reading
field map from ROOT file /home/panda/pandaroot_sep12/trunk/input/SolenoidMap4.root
[INFO ] [04.06.2012 11:59:13] [FairRunSim.cxx::SetMCConfig:282] ----- Standard
Config is called -----
[INFO ] [04.06.2012 11:59:44] [FairMCApplication.cxx::InitTasks:1051] Initialize
Tasks-----
[INFO ] [04.06.2012 11:59:48] [FairMCApplication.cxx::InitGeometry:716] Simulation RunID:
865498955
[INFO ] [04.06.2012 11:59:49] [FairMCApplication.cxx::InitMC:226] Monte carlo Engine
Initialisation with : TGeant3TGeo
[INFO ] [04.06.2012 11:59:49] [FairRuntimeDb.cxx::writeContainer:341] *** PndEmcGeoPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:49] [FairRuntimeDb.cxx::writeContainer:341] ***
PndSensorNamePar written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:49] [FairRuntimeDb.cxx::writeContainer:341] *** PndEmcDigiPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:49] [FairRuntimeDb.cxx::writeContainer:341] ***
PndEmcDigiNonuniformityPar written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:50] [FairRuntimeDb.cxx::writeContainer:341] *** FairBaseParSet
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:50] [FairRuntimeDb.cxx::writeContainer:341] *** PndMultiFieldPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:50] [FairRuntimeDb.cxx::writeContainer:341] ***
PndGeoPassivePar written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:51] [FairRuntimeDb.cxx::writeContainer:341] *** PndGeoSttPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:51] [FairRuntimeDb.cxx::writeContainer:341] *** PndGeoFtsPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:51] [FairRuntimeDb.cxx::writeContainer:341] *** PndGeoSciTPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:51] [FairRuntimeDb.cxx::writeContainer:341] *** PndGeoFtofPar
written to ROOT file version: 4
[INFO ] [04.06.2012 11:59:51] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 1) 4 primary tracks from vertex (0.000000, 0.000000, 0.000000
) Event Time = 0.000000 (ns)
[INFO ] [04.06.2012 11:59:56] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 2) 4 primary tracks from vertex (0.000000, 0.000000, 0.000000
) Event Time = 0.000000 (ns)
[INFO ] [04.06.2012 11:59:58] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 3) 4 primary tracks from vertex (0.000000, 0.000000, 0.000000
) Event Time = 0.000000 (ns)
[INFO ] [04.06.2012 12:00:00] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 4) 4 primary tracks from vertex (0.000000, 0.000000, 0.000000
) Event Time = 0.000000 (ns)
[INFO ] [04.06.2012 12:00:03] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 5) 4 primary tracks from vertex (0.000000, 0.000000, 0.000000
) Event Time = 0.000000 (ns)
[INFO ] [04.06.2012 12:00:06] [FairPrimaryGenerator.cxx::GenerateEvent:170]
FairPrimaryGenerator: (Event 6) 4 primary tracks from vertex (0.000000, 0.000000, 0.000000
) Event Time = 0.000000 (ns)
[INFO ] [04.06.2012 12:00:07] [FairPrimaryGenerator.cxx::GenerateEvent:170]

```

[illegible]

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[illegible]

[illegible]



[illegible]

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0.000000 ) Event Time = 0.000000 (ns)  
[INFO ] [04.06.2012 12:04:45] [FairPrimaryGenerator.cxx::GenerateEvent:170]  
FairPrimaryGenerator: (Event 129) 5 primary tracks from vertex (0.000000, 0.000000,  
0.000000 ) Event Time = 0.000000 (ns)  
[INFO ] [04.06.2012 12:04:47] [FairPrimaryGenerator.cxx::GenerateEvent:170]  
FairPrimaryGenerator: (Event 130) 4 primary tracks from vertex (0.000000, 0.000000,  
0.000000 ) Event Time = 0.000000 (ns)

Is this behavior a bug or am I doing something wrong?

Best wishes,

Martin

### File Attachments

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1) [run\\_sim\\_sttcombi\\_evtgen.C](#), downloaded 205 times

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