Subject: Preparation for next week
Posted by Jens Sören Lange   on Wed, 16 Jan 2008 15:01:27 GMT
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Hi all,

as just discussed on the meeting, this is the preparation for next week's workshop (in particular for Klaus Goetzen's tutorial on Monday afternoon).

1.) install the "new" external packages of 23.11.2007
(if you haven't done so yet)

http://cbmroot.gsi.de/installation/External%20Packages.htm

2.) svn co https://subversion.gsi.de/fairroot/pandaroot

on FRIDAY AFTERNOON

```
> mkdir build
> cd build
> cmake ../pandaroot
> . config.sh
> make install
```

3.) download the binaries of root 5.14

http://root.cern.ch/root/Version514.html

4.) try to compile EvtGen against root 5.14
(please don't try root 5.17 from the external packages,
it will not work)

see
http://panda-wiki.gsi.de/cgi-bin/view/Computing/EvtGen

```
cd pandaroot/pgenerators/EvtGen
. configure
```

Enter Name of c++ compiler (type "gcc", or your c++ compiler name)
Enter name of fortran compiler (type "g77", or your fortran compiler name)
Enter any other options that you would like to use in compilation (just press Enter)
Please enter any others that you would like to use (just press Enter)

```
make
make bin
cd test
../testEvtGen test1 1000
```

see you all next week

Soeren

Subject: Re: Preparation for next week
Posted by Mohammad Al-Turany on Wed, 16 Jan 2008 16:00:50 GMT

Hi,

I found the problem with EvtGen and root newer than 5.16, in ROOT they redesign the libraries and split some functionality in different libraries, any way to compile EvtGen with the new ROOT just follow steps in the wiki and when you call configure:

Enter Name of c++ compiler (type "gcc", or your c++ compiler name)

Enter name of fortran compiler (type "g77", or your fortran compiler name)

Enter any other options that you would like to use in compilation (just press Enter)

Please enter any others that you would like to use :   -lRIO -lSQL -lNet

and then continue as written in the wiki.

P.S: This works with g77, with gfortran (suse 10.3, Fedora 8) I still have some problem but with the gfortran and cernlib.

regards

Mohammad

Subject: Re: Preparation for next week
Posted by Klaus Götzen   on Thu, 17 Jan 2008 15:11:51 GMT

Hi all!

In order to compile and run EvtGen you also need the appropriate cernlib which is located at GSI in

/misc/cbmsoft/Debian3.1/old/cern/cernlib/2005

So you will need a local copy of that one as well on your machine.

Cheers,
Klaus

Subject: Re: Preparation for next week

Posted by StefanoSpataro on Thu, 17 Jan 2008 15:35:52 GMT

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Yes,
I have tried this and it works.
The only problem is that it does not work with the "old" root, so maybe it is better to not change the default options of the configure script in the repository, and do it each time by hands.

I will change the EvtGen wiki page according to this.

Subject: Re: Preparation for next week
Posted by Klaus Götzen   on Fri, 18 Jan 2008 13:03:12 GMT

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Hi all!

I prepared a WIKI page which contains all the necessary information for that Fast Simulation and Analysis tutorial on monday afternoon, which can be found here:

http://panda-wiki.gsi.de/cgi-bin/view/Computing/FastSimTutKVI

You can find there the things we'd like to learn (some task we'll do together), some help items and hints/solutions for the tasks.

Just be aware (I'm also going to mention that in the tutorial) that you can look up necessary information independent of my current slide in the presentation to work on the tasks.

There's also a 'What needs to be prepared' section, which might already be of interest (it's basically what Soeren posted in this thread first...)

Have a nice weekend and see you in Groningen,
Klaus

Subject: Re: Preparation for next week
Posted by Johan Messchendorp on Sat, 19 Jan 2008 16:11:04 GMT

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Dear all,

works fine at one of the KVI machines as well (Fedora core-3, gcc3.4, f77). I will make a machine available for the workshop participants with the proper software installed for the tutorials. Just in case someone needs it.

Johan.

Subject: Re: Preparation for next week
Posted by Jens Sören Lange   on Sat, 19 Jan 2008 17:00:51 GMT
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Short Addendum:

Mohammad said on Friday on the phone that he also found a (temporary) solution for the
newer distributions which come with gfortran instead of g77 (e.g. suse 10.3 - i.e. for all the
people like me who thought that it is a great idea to use christmas to install a new version on
all your computers ...). In other words: you should (a) _not_ try to go back to an older platform
or (b) _not_ try to go back from gfortran to g77.

Subject: Re: Preparation for next week
Posted by Mohammad Al-Turany on Sat, 19 Jan 2008 21:14:34 GMT
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Hi,

As Soeren wrote, one can use EvtGen with gfortran, for that one has to have cernlib compiled
with gfortran, Unfortunately gfortran 4.1 (FedoraCore 8, SL4) is not binary compatible with
gfortran 4.2 (Suse 10.3, FC9), which means we have to recompile cernlib at least for gfortran
4.2. Any way, I did it already and I think now we can run EvtGen on all systems with cernlib
2006:

1- gfortran 4.1: (SL4, FC8)
  you can download the binary distribution of cernlib directly from cern:

  http://cernlib.web.cern.ch/cernlib/version.html

2. gfortran 4.2 (FC9, suse 10.3)
  you can download it from the fairroot web page:

  http://fairroot.gsi.de/download/cernlib.gfortran42.tar.gz

after unpacking the cernlib you should follow the wiki on how to recompile EvtGen, when
configuring it :

Enter Name of c++ compiler (type "gcc", or your c++ compiler name)
Enter name of fortran compiler (type "g77", or your fortran compiler name)
Enter any other options that you would like to use in compilation (just press Enter)
Please enter any others that you would like to use : -lRIO -lSQL -lNet -lgfortran

after this and before compiling, edit the file config.mk and remove -lg2c from the line:

EVTSYSLIB=-lg2c -lnsl

and then continue as written in the wiki.

I will try to write a howto compile cernlib with gfortran in the wiki.

regards

Mohammad

Subject: Re: Preparation for next week
Posted by StefanoSpataro on Sat, 19 Jan 2008 22:02:48 GMT
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If we do not need them at all,
I think we could even remove the g2c from the EvtGen configure in the repository.

Subject: Re: Preparation for next week
Posted by Mohammad Al-Turany on Sat, 19 Jan 2008 22:13:35 GMT
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Hi,

We need it for g77? but we can modify the configure to check for g77 and gfortran and to choose the proper libraries!

Mohammad