
Subject: New external packages and major update of FairRoot
Posted by [Mohammad Al-Turany](#) on Fri, 23 Nov 2007 11:02:10 GMT
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Hi,

The new external packages are available from cbmroot.gsi.de. The SVN is also updated today (r 1863) please take care that due to the major changes in ROOT and VMC, Pandaroot (>=r1863) will not work properly with older releases of the external packages (mainly G4 part) among the new features:

1. Pythia as external decayer for G3 and G4 (see `/gconfig/DecayConfig.C`)
2. User decay (phase space)(see macro `gconfig/UserDecay.C`)
3. Track and visualization in OpenGL (see macro `/macro/run/drawGLTracks.C`)
4. The same configuration file for cuts and processes for G3 and G4 (see macro `gconfig/UserCuts.C`)

if you install the new external packages please be carefull to remove your old build directory completly and build again:

Set your SIMPATH to the new external packages
in your new build directory:
build> cmake (PATH TO PANDAROOT SOURCE)
build> . config.sh
build> make install

have a lot of fun compiling the whole stuff!

Mohammad

Subject: Re: New external packages and major update of FairRoot
Posted by [Mohammad Al-Turany](#) on Fri, 23 Nov 2007 11:12:50 GMT
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Hi again,

I forget to say that the new external packages are already installed at the GSI:

`/misc/cbmsoft/Debian3.1/development` (to be used from Ixi's)

also if some of you use the ETCH64 or 32 at the GSI you can use:

`/misc/cbmsoft/Etch64/development`
or
`/misc/cbmsoft/Etch32/development`

regards

Mohammad

Subject: Re: New external packages and major update of FairRoot

Posted by [Stefano Spataro](#) on Fri, 23 Nov 2007 15:00:42 GMT

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Hi,

I tried to compile the tar file here in Gießen (Gentoo), but geant3 gives me the following error message:

gphys/gdalet.F

gphys/gdalitzcbm.F

gphys/gdecay.F

minicern/dzare1.F

In file minicern/zebra/q_jbit.inc:65

Included at minicern/dzare1.F:50

```
JBIT(IZW,IZP)  = AND(RSHIFT(IZW,IZP-1),1)
1
```

Error: 'i' argument of 'and' intrinsic at (1) must be INTEGER or LOGICAL

make: *** [/.automount/opelia.physik.uni-giessen.de/root/local/cbmsoft/cbmsoft_devel/transport/geant3_r220/tgt_linux/minicern/dzare1.o] Error 1

*** ERROR: Geant3 could not be created.

Does somebody know what it means (and hopefully how to fix it)?

Subject: Re: New external packages and major update of FairRoot

Posted by [Andrea Fontana](#) on Fri, 23 Nov 2007 16:55:07 GMT

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Dear Mohammad,

many thanks for this important update. I have compiled the external packages and the pandaroot svn head on my SLC 4.5 without problems at the first attempt.

Details of my linux, if it might be useful:

Linux wunala.pv.infn.it 2.6.9-55.0.12.EL.cernsmp #1 SMP

Mon Nov 5 17:34:28 CET 2007 i686 i686 i386 GNU/Linux

Moreover I have tried the geane exercises from the tutorial directory and everything seems to work correctly!

Care must be taken if running old macros (not from the svn for instance) that I kept locally for test: renaming Cbm->Pnd has to be done also here. Next week we will do other

installations on our machines.

Ciao and have a nice weekend

Andrea

Subject: Re: New external packages and major update of FairRoot
Posted by [Stefano Spataro](#) on Fri, 23 Nov 2007 18:09:36 GMT
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Moreover, before starting the geant3 compilation I found that I have the following errors:

```
mv: cannot stat `xsneut.dat': No such file or directory
mv: cannot stat `chetc.dat': No such file or directory
```

and I have many many warnings like:

```
ggeom/gvlong.F
ggeom/gvpsqr.F
ggeom/gvsafe.F
In file ggeom/gvsafe.F:73
```

```
IF (SLATE(10))      101,102,103
```

```
1
```

```
Warning: Obsolete: arithmetic IF statement at (1)
```

before the error.

Just taking a look into the "old" geant3, I have seen that now there is not anymore the geant3/config directory, where I set my f77 compiler in the Makefile.linux (that in my case is g77-3.4.6).

I found that the Makefile.linux is the ROOT one (in root/etc/vmc), I modified it there and now it seems to work (before it was the g77 of gcc 4.1.1)... without those warnings and without that error... but of course now I have to recompile root.

I will let you know when and if I will succeed or not.

In each case the errors:

```
mv: cannot stat `xsneut.dat': No such file or directory
mv: cannot stat `chetc.dat': No such file or directory
```

are still there, of course.

Subject: Re: New external packages and major update of FairRoot
Posted by [Mohammad Al-Turany](#) on Fri, 23 Nov 2007 18:18:23 GMT
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Hi,

As far as I know Florian use Gentoo and it works without problems for him! any way the files xsneut.dat and chetc.dat are in the tar file (transport)! so are you sure you unpack the stuff with tar zxvf option?

Mohammad

Subject: Re: New external packages and major update of FairRoot
Posted by [Stefano Spataro](#) on Sat, 24 Nov 2007 09:37:31 GMT
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Hi,
unfortunately the gentoo is a not stable distribution, it depends on who has installed it and how.

In each case, for the "missing files" the explanation is easy. They are moved, so if you try to repeat the compilation because some error has occurred, then they are not anymore in the original place (so the error) but at the proper place... nothing to worry about.

About my previous error, it was connected to the fact my g77 was linked to gcc 4.1.1 (the reason of the many warnings): I linked it to gcc 3.4.6 and now everything is fine... almost.

Now I have the last error connected to the missing libg2c.so in gcc 4:

```
/usr/lib/gcc/i686-pc-linux-gnu/4.1.1/../../../../i686-pc-linux-gnu/bin/ld: cannot find -lg2c
collect2: ld returned 1 exit status
make: *** [/automount/opelia.physik.uni-giessen.de/root/local/cbmsoft/cbmsoft_devel/transport/geant3_r220/lib/tgt_linux/libgeant321.so] Error 1
*** ERROR: Geant3 could not be created.
*** End installation of external packages with Errors***
```

In the previous installation I have corrected it by modifying a line in the transport/geant3/config/Makefile.linux:

```
SHLIB      = -L /usr/lib/gcc/i686-pc-linux-gnu/3.4.6 -lg2c
```

The only problem is that now the directory transport/geant3/config does not exist anymore, and the geant3/Makefile seems linked to the ROOT_ETC_DIR (root/etc/vmc)... so now I have no idea on how and where to set the correct path of my libg2c.so ... before it was much easier.

Heeeelppppp....

Subject: Re: New external packages and major update of FairRoot
Posted by [Mohammad Al-Turany](#) on Sat, 24 Nov 2007 11:27:24 GMT
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Hi Stefano,

It seems that you have a very nice and user friendly system! so take a look to the

Makefile.linux in root/etc/vmc, e.g:

etc/vmc/Makefile.linux:SHLIB = -lg2c

maybe you can change it there.

Mohammad

Subject: Re: New external packages and major update of FairRoot

Posted by [Stefano Spataro](#) on Sat, 24 Nov 2007 11:49:39 GMT

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Quote: It seems that you have a very nice and user friendly system!

I suppose I have to thank our administrators...

Mmm yes you are right,

I found that the Makefile.linux was linked to root/etc/vmc, but I was looking wrongly the one in the root/config. I am getting old, I know...

I will let you know if I will succeed now or not (crossing my fingers).

Bye

Subject: Re: New external packages and major update of FairRoot

Posted by [Stefano Spataro](#) on Sun, 25 Nov 2007 10:40:46 GMT

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Now here in Gießen it works, with both Geant3 and Geant4.

Subject: Re: New external packages and major update of FairRoot

Posted by [Johan Messchendorp](#) on Sun, 25 Nov 2007 20:49:49 GMT

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Thumbs up at KVI as well....

Thanks,

Johan.
