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Subject: New safety feature

Posted by [Florian Uhlig](#) on Thu, 30 Apr 2009 12:13:45 GMT

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Hi

Since more and more people run into the problem that they compile CbmRoot on one platform and then accidentally run the macros on another platform i put a new safety feature to CbmRoot which should avoid this type of problems.

When runing cmake information about the OS is put to the config script. During execution of the config script it is automatically checked if the run system is the same as the compile system. In cases were the systems are different the execution of the script is stoped and you will see an error message.

If you find some problems with the new behaviour of the configure script please let me know.

Ciao

Florian

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Subject: It works!

Posted by [Volker Friese](#) on Tue, 05 May 2009 15:19:25 GMT

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Note that you have to rerun cmake on your existing installation in order to use the new safety feature.

I tested it and it works (installation on sarge32, attempted to run on etch32):

```
friese@lxetch32:/misc/friese> . cbmroot/dev/sarge32/config.sh
```

On this machine the G4SYSTEM=Linux-g++

On this machine the G4INSTALL=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4

On this machine the

G4INCLUDE=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4/include/

On this machine the G4LIB=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4/lib

On this machine the

G4LEVELGAMMADATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/PhotonEvaporation

On this machine the

G4RADIOACTIVEDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/RadioactiveDecay

On this machine the

G4LEDDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4EMLOW

On this machine the

NeutronHPCrossSections=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4NDL

On this machine the

G4ELASTICDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4ELASTIC

On this machine the

G4ABLA\_DATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4ABLA  
On this machine the CLHEP\_BASE\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep  
On this machine the  
CLHEP\_INCLUDE\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep/include  
On this machine the CLHEP\_LIB\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep/lib  
On this machine the CLHEP\_LIB=CLHEP  
On this machine the G4DEBUG=1  
On this machine the G4VIS\_BUILD\_RAYTRACERX\_DRIVER=1  
On this machine the G4VIS\_USE\_RAYTRACERX=1  
On this machine the G4VIS\_USE\_VRML=1  
On this machine the G4LIB\_BUILD\_G3TOG4=1  
On this machine the G4LIB\_USE\_G3TOG4=1  
On this machine the G4LIB\_BUILD\_ZLIB=1  
On this machine the G4LIB\_USE\_ZLIB=1  
On this machine the G4LIB\_BUILD\_SHARED=1  
On this machine the G4LIB\_USE\_GRANULAR=1  
On this machine the G4UI\_USE\_TCSH=1  
G4WORKDIR will be set to  
HOME/geant4=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4

System during compilation: Debian GNU/Linux 3.1 n l  
i686

System now : Debian GNU/Linux 4.0 n l  
i686

You try to run the software on a different  
linux flavour than it was compiled on.  
This is normally a serious error, so we stop  
the execution at this point.  
If you know what you do you can change the  
config.sh script to bypass this security issue.  
Connection to lxetch32 closed.

There is only one issue: The script throws you out of your shell with the exit command. Is there  
some way to prevent this?

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Subject: ... it is too safe!

Posted by [Volker Fries](#) on Tue, 05 May 2009 15:52:20 GMT

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Ooops, I was too quick with my previous statement. Now I tried to execute the configuration  
macro on the same machine the installation was made on, and I am rejected as well:

```
fries@lxg1403:/misc/fries> . /misc/cbmsoft/cbmroot/DEC08/sarge32/config.sh
On this machine the G4SYSTEM=Linux-g++
On this machine the G4INSTALL=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4
On this machine the
G4INCLUDE=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4/include/
On this machine the G4LIB=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4/lib
```

On this machine the  
G4LEVELGAMMADATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/PhotonEv  
aporation  
On this machine the  
G4RADIOACTIVEDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/Radioactiv  
eDecay  
On this machine the  
G4LEDDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4EMLOW  
On this machine the  
NeutronHPCrossSections=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4NDL  
On this machine the  
G4ELASTICDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4ELASTIC  
On this machine the  
G4ABLADATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4ABLA  
On this machine the CLHEP\_BASE\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep  
On this machine the  
CLHEP\_INCLUDE\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep/include  
On this machine the CLHEP\_LIB\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep/lib  
On this machine the CLHEP\_LIB=CLHEP  
On this machine the G4DEBUG=1  
On this machine the G4VIS\_BUILD\_RAYTRACERX\_DRIVER=1  
On this machine the G4VIS\_USE\_RAYTRACERX=1  
On this machine the G4VIS\_USE\_VRML=1  
On this machine the G4LIB\_BUILD\_G3TOG4=1  
On this machine the G4LIB\_USE\_G3TOG4=1  
On this machine the G4LIB\_BUILD\_ZLIB=1  
On this machine the G4LIB\_USE\_ZLIB=1  
On this machine the G4LIB\_BUILD\_SHARED=1  
On this machine the G4LIB\_USE\_GRANULAR=1  
On this machine the G4UI\_USE\_TCSH=1  
G4WORKDIR will be set to  
HOME/geant4=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4  
root/dev/sarge32/config.sh <  
On this machine the G4SYSTEM=Linux-g++  
On this machine the G4INSTALL=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4  
On this machine the  
G4INCLUDE=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4/include/  
On this machine the G4LIB=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4/lib  
On this machine the  
G4LEVELGAMMADATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/PhotonEv  
aporation  
On this machine the  
G4RADIOACTIVEDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/Radioactiv  
eDecay  
On this machine the  
G4LEDDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4EMLOW  
On this machine the  
NeutronHPCrossSections=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4NDL  
On this machine the  
G4ELASTICDATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4ELASTIC  
On this machine the  
G4ABLADATA=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/data/geant4/G4ABLA

On this machine the CLHEP\_BASE\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep  
On this machine the  
CLHEP\_INCLUDE\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep/include  
On this machine the CLHEP\_LIB\_DIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/cern/clhep/lib  
On this machine the CLHEP\_LIB=CLHEP  
On this machine the G4DEBUG=1  
On this machine the G4VIS\_BUILD\_RAYTRACERX\_DRIVER=1  
On this machine the G4VIS\_USE\_RAYTRACERX=1  
On this machine the G4VIS\_USE\_VRML=1  
On this machine the G4LIB\_BUILD\_G3TOG4=1  
On this machine the G4LIB\_USE\_G3TOG4=1  
On this machine the G4LIB\_BUILD\_ZLIB=1  
On this machine the G4LIB\_USE\_ZLIB=1  
On this machine the G4LIB\_BUILD\_SHARED=1  
On this machine the G4LIB\_USE\_GRANULAR=1  
On this machine the G4UI\_USE\_TCSH=1  
In your environment you have the  
G4WORKDIR=/misc/cbmsoft/Sarge32/jul08/fairsoft/transport/geant4  
tr: invalid backslash escape at end of string

System during compilation: Debian GNU/Linux 3.1 n l  
i686

System now :  
i686

You try to run the software on a different  
linux flavour than it was compiled on.  
This is normally a serious error, so we stop  
the execution at this point.  
If you know what you do you can change the  
config.sh script to bypass this security issue.  
frieese@lxg1403:/misc/frieese>

The reason is that in Debian Sarge, the tr program regards the backslash an escape  
sequence. You have to preprocess it with another backslash: tr '\\ ' ' in the script  
check\_system.sh.in. In Debian Etch, both variants work.

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Subject: Re: ... it is too safe!  
Posted by [Florian Uhlig](#) on Wed, 06 May 2009 15:09:55 GMT  
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I changed the script. Now it should work correct.

Ciao

Florian

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Subject: OK

Posted by [Volker Friese](#) on Wed, 06 May 2009 15:54:10 GMT  
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... and it does. Thanks!

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