Subject: FairSoft Installation failed on CentOS7
Posted by Mark Lattery on Tue, 08 Jun 2021 19:34:53 GMT
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FairSoft Installation failed on CentOS7

Installing fairsoft_jun19.
Did not reach the message "*** End installation...without Errors***" (per instructions) but instead:

[...]
-- Installing: /home/Panda/fairsoft_jun19/build/share/HepMC/examples/pythia8/config.csh
-- Installing: /home/Panda/fairsoft_jun19/build/share/HepMC/examples/pythia8/config.sh
*** hepmc compiled successfully ***
**** Checking libraries in /home/Panda/fairsoft_jun19/build/lib ****
*** Downloading pythia8 sources ***
  % Total   % Received % Xferd Average Speed   Time   Time   Time Current
                                 Dload Upload   Total   Spent   Left Speed
100   975   0   975   0   0   518   0 --:--:-- 0:00:01 --:--:--   518
*** Unpacking pythia8240.tgz .....
--E-- Cannot unpack package pythia8

Log attached.

Thank you for any help.

File Attachments

1) Install_080621_133812.log.pdf, downloaded 456 times

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Tobias Stockmanns on Tue, 08 Jun 2021 19:51:45 GMT
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Why do you try to install FairSoft jun19?

You should go either with nov20 or apr21.

Nevertheless it might be that the Pythia8 server is down. I at least had that problem today.

Cheers,

Tobias

Subject: Re: FairSoft Installation failed on CentOS7

=="it might be that the Pythia8 server is down. I at least had that problem today"

I retried again later in the day with no change. Is the Pythia8 server down?

=="Why do you try to install FairSoft jun19?"

I was following the PandaRoot Installation guide published on Foswiki. However, per your suggestion, I went with "nov20" and followed the instructions in the
'legacy' folder. This also failed. See output below and enclosed log.

For current purposes, assistance installing either "jun19" or "nov20" would be appreciated.

```
[root@localhost fairsoft_nov20]# cmake -S /home/Panda/fairsoft_nov20 -B
/home/Panda/fairsoft_nov20/build -C /home/Panda/fairsoft_nov20/FairSoftConfig.cmake
loading initial cache file /home/Panda/fairsoft_nov20/FairSoftConfig.cmake
-- The C compiler identification is GNU 4.8.5
-- The CXX compiler identification is GNU 4.8.5
-- The Fortran compiler identification is GNU 4.8.5
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc - works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ - works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- Check for working Fortran compiler: /usr/bin/gfortran
-- Check for working Fortran compiler: /usr/bin/gfortran - works
-- Detecting Fortran compiler ABI info
-- Detecting Fortran compiler ABI info - done
-- Checking whether /usr/bin/gfortran supports Fortran 90
-- Checking whether /usr/bin/gfortran supports Fortran 90 - yes
-- Found Git: /usr/bin/git (found version "1.8.3.1")
-- Found Patch: /usr/bin/patch
-- Found UnixCommands: /usr/bin/bash
--
--   CXX STANDARD       C++14 (change with -DCMAKE_CXX_STANDARD=17)
--
--   BUILD TYPE         RelWithDebInfo (change with -DCMAKE_BUILD_TYPE=...)
--
--   PACKAGE SET        full (change with -DPACKAGE_SET=...)
--
--   PACKAGE       VERSION        OPTION
--   boost         1.72.0
```

```
--   clhep        2.4.1.3
--   dds          3.5.3
--   fairlogger   1.9.0
--   fairmq       1.4.26
--   flatbuffers  1.12.0
--   fmt          6.1.2
--   geant3       3-7_fairsoft
--   geant4       10.6.2          single-threaded (change with -DGEANT4MT=ON)
--   geant4_vmc   5-2
--   hepmc        2.06.09
--   odc          0.10
--   pythia6      428-alice1
--   pythia8      8303
--   root         6.20.08
--   vc           1.4.1
--   vgm          4-8
--   vmc          1-0-p3
--   zeromq       4.3.2
--
--   SOURCE CACHE       using upstream URLs (generate cache by building target
'source-cache' and pass via -DSOURCE_CACHE=...)
--
--   INSTALL PREFIX     /home/Panda/fairsoft_nov20/install (change with
-DCMAKE_INSTALL_PREFIX=...)
--
--    -> export SIMPATH=/home/Panda/fairsoft_nov20/install
--
-- Configuring done
-- Generating done
-- Build files have been written to: /home/Panda/fairsoft_nov20/build
[root@localhost fairsoft_nov20]# cmake --build /home/Panda/fairsoft_nov20/build
Scanning dependencies of target clhep
[  0%] Creating directories for 'clhep'
[  0%] Performing download step (download, verify and extract) for 'clhep'
-- clhep download command succeeded.  See also
/home/Panda/fairsoft_nov20/build/Log/clhep-download-*.log
[  0%] Performing move_dir step for 'clhep'
-- clhep move_dir command succeeded.  See also
/home/Panda/fairsoft_nov20/build/Log/clhep-move_dir-*.log
[  0%] No patch step for 'clhep'
[  0%] No update step for 'clhep'
[  0%] Performing configure step for 'clhep'
CMake Error at  /home/Panda/fairsoft_nov20/build/Stamp/clhep/clhep-configure-RelWithDebI
nfo.cmake:37 (message):
  Command failed: 1

   '/usr/bin/cmake3' '-DCLHEP_BUILD_CXXSTD=-std=c++14' '-GUnix Makefiles'
'-C/home/Panda/fairsoft_nov20/build/tmp/clhep/clhep-cache-RelWithDebInfo .cmake'
'/home/Panda/fairsoft_nov20/build/Source/clhep'

  See also
```

/home/Panda/fairsoft_nov20/build/Log/clhep-configure.log

```
-- Log output is:
loading initial cache file
/home/Panda/fairsoft_nov20/build/tmp/clhep/clhep-cache-RelWithDebInfo.cm ake
-- The C compiler identification is GNU 4.8.5
-- The CXX compiler identification is GNU 4.8.5
-- Check for working C compiler: /usr/bin/cc
-- Check for working C compiler: /usr/bin/cc - works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /usr/bin/c++
-- Check for working CXX compiler: /usr/bin/c++ - works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- libraries will be installed in /home/Panda/fairsoft_nov20/install/lib
CMake Error at cmake/Modules/ClhepVariables.cmake:178 (message):
  c++14 extension is not available for /usr/bin/c++
Call Stack (most recent call first):
  cmake/Modules/ClhepVariables.cmake:263 (_clhep_verify_cxx14)
  cmake/Modules/ClhepVariables.cmake:310 (_clhep_check_cxxstd)
  CMakeLists.txt:66 (clhep_set_compiler_flags)


-- Configuring incomplete, errors occurred!
See also "/home/Panda/fairsoft_nov20/build/Build/clhep/CMakeFiles/CMakeOutput.log ".

CMake Error at  /home/Panda/fairsoft_nov20/build/Stamp/clhep/clhep-configure-RelWithDebI
nfo.cmake:47 (message):
  Stopping after outputting logs.


gmake[2]: *** [Stamp/clhep/clhep-configure] Error 1
gmake[1]: *** [CMakeFiles/clhep.dir/all] Error 2
gmake: *** [all] Error 2
```

File Attachments

1) CMakeOutput.log, downloaded 389 times
2) clhep-configure.log, downloaded 390 times

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Tobias Stockmanns on Wed, 09 Jun 2021 06:26:19 GMT
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Which compiler are you using?

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Florian Uhlig on Wed, 09 Jun 2021 06:43:59 GMT
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Hi,

if you are using the default compiler on CentOS 7 you will not be able to install FairSoft nov20 since this version needs at least C++14 which isn't supported by gcc 4.8.5.

Redhat provides so called developer toolsets which allow to use newer software packages. Please check if you can use the devtoolset-7 which includes gcc 7.3.1 which is able to compile FairSoft nov20. You enable the toolset with the following command.

> source scl_source enable devtoolset-7

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Dmitry Morozov on Wed, 09 Jun 2021 10:43:24 GMT
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They moved pythia8 to separate domain. It's https://pythia.org/releases/ now.

One should update the config file for that.

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Tobias Stockmanns on Wed, 09 Jun 2021 11:32:47 GMT
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I already wrote a ticket for FairSoft. Usually they fix it pretty fast.

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Mark Lattery on Wed, 09 Jun 2021 14:50:45 GMT
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Thank you. Not sure if I implemented this solution correctly, but this also failed. Output below and log attached.

[...]

[root@localhost fairsoft_nov20]# source scl_source enable devtoolset-7
[root@localhost fairsoft_nov20]# cmake --build /home/Panda/fairsoft_nov20/build

```
[  0%] Performing configure step for 'clhep'
CMake Error at  /home/Panda/fairsoft_nov20/build/Stamp/clhep/clhep-configure-RelWithDebI
nfo.cmake:37 (message):
  Command failed: 1

   '/usr/bin/cmake3' '-DCLHEP_BUILD_CXXSTD=-std=c++14' '-GUnix Makefiles'
'-C/home/Panda/fairsoft_nov20/build/tmp/clhep/clhep-cache-RelWithDebInfo .cmake'
'/home/Panda/fairsoft_nov20/build/Source/clhep'

  See also

    /home/Panda/fairsoft_nov20/build/Log/clhep-configure.log


-- Log output is:
loading initial cache file
/home/Panda/fairsoft_nov20/build/tmp/clhep/clhep-cache-RelWithDebInfo.cm ake
-- libraries will be installed in /home/Panda/fairsoft_nov20/install/lib
CMake Error at cmake/Modules/ClhepVariables.cmake:178 (message):
  c++14 extension is not available for /usr/bin/c++
Call Stack (most recent call first):
  cmake/Modules/ClhepVariables.cmake:263 (_clhep_verify_cxx14)
  cmake/Modules/ClhepVariables.cmake:310 (_clhep_check_cxxstd)
  CMakeLists.txt:66 (clhep_set_compiler_flags)


-- Configuring incomplete, errors occurred!
See also "/home/Panda/fairsoft_nov20/build/Build/clhep/CMakeFiles/CMakeOutput.log ".

CMake Error at  /home/Panda/fairsoft_nov20/build/Stamp/clhep/clhep-configure-RelWithDebI
nfo.cmake:47 (message):
  Stopping after outputting logs.


gmake[2]: *** [Stamp/clhep/clhep-configure] Error 1
gmake[1]: *** [CMakeFiles/clhep.dir/all] Error 2
gmake: *** [all] Error 2
```

File Attachments

1) CMakeOutput2.log, downloaded 367 times

Subject: Re: FairSoft Installation failed on CentOS7
Posted by Mark Lattery on Wed, 09 Jun 2021 14:56:28 GMT

Thank you. When fixed, let me know.