Subject: Problems compiling CADConverter on Ubuntu 9.04
Posted by Sverre Dørheim on Wed, 24 Jun 2009 15:09:55 GMT
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Using the steps described in the wiki I get these errors when doing make on the CadConverter:

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```
root@sverre-laptop2:/opt/CadConv/build# make
/usr/bin/cmake -H/opt/CadConv/CadConverterConsole -B/opt/CadConv/build
--check-build-system CMakeFiles/Makefile.cmake 0
/usr/bin/cmake -E cmake_progress_start /opt/CadConv/build/CMakeFiles
/opt/CadConv/build/CMakeFiles/progress.make
make -f CMakeFiles/Makefile2 all
make[1]: Entering directory `/opt/CadConv/build'
make -f CadDDLConverter/CMakeFiles/CADConverter.dir/build.make
CadDDLConverter/CMakeFiles/CADConverter.dir/depend
make[2]: Entering directory `/opt/CadConv/build'
cd /opt/CadConv/build && /usr/bin/cmake -E cmake_depends "Unix Makefiles"
/opt/CadConv/CadConverterConsole /opt/CadConv/CadConverterConsole/CadDDLConverter
/opt/CadConv/build /opt/CadConv/build/CadDDLConverter
/opt/CadConv/build/CadDDLConverter/CMakeFiles/CADConverter.dir/DependInfo.cmake
--color=
make[2]: Leaving directory `/opt/CadConv/build'
make -f CadDDLConverter/CMakeFiles/CADConverter.dir/build.make
CadDDLConverter/CMakeFiles/CADConverter.dir/build
make[2]: Entering directory `/opt/CadConv/build'
/usr/bin/cmake -E cmake_progress_report /opt/CadConv/build/CMakeFiles 1
[  2%] Building CXX object
CadDDLConverter/CMakeFiles/CADConverter.dir/CadDDLConverter.o
cd /opt/CadConv/build/CadDDLConverter && /usr/bin/c++    -DCADConverter_EXPORTS
-DCSFDB -DNO_CXX_EXCEPTION -DNo_Exception -DHAVE_CONFIG_H
-DHAVE_WOK_CONFIG_H -DLIN  -DLININTEL -DHAVE_IOSTREAM -DHAVE_LIMITS -g
-fPIC -I/opt/fairROOT/fairsoft/tools/root/include -I/opt/OpenCASCADES6.3.0/inc
-I/opt/fairROOT/fairsoft/tools/root/lib -I/opt/OpenCASCADES6.3.0/Linux/lib   -o
CMakeFiles/CADConverter.dir/CadDDLConverter.o -c
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.cc
In file included from /opt/OpenCASCADES6.3.0/inc/Standard_Macro.hxx:11,
                 from /opt/OpenCASCADES6.3.0/inc/Handle_TDF_Data.hxx:26,
                 from /opt/OpenCASCADES6.3.0/inc/TDF_Label.hxx:29,
                 from /opt/CadConv/CadConverterConsole/CadDDLConverter/CxlObject.hh:16,
                 from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.hh:4,
                 from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.cc:1:
/opt/fairROOT/fairsoft/tools/root/include/config.h:16:2: warning: #warning config.h is
deprecated, replace by RConfigure.h.
In file included from /opt/OpenCASCADES6.3.0/inc/Standard_Address.hxx:21,
                 from /opt/OpenCASCADES6.3.0/inc/Standard.hxx:26,
                 from /opt/OpenCASCADES6.3.0/inc/Handle_TDF_Data.hxx:29,
                 from /opt/OpenCASCADES6.3.0/inc/TDF_Label.hxx:29,
                 from /opt/CadConv/CadConverterConsole/CadDDLConverter/CxlObject.hh:16,
```

from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.hh:4,
from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.cc:1:
/opt/OpenCASCADES6.3.0/inc/Standard_Integer.hxx: In function ‘Standard_Integer
IntegerFirst()’:
/opt/OpenCASCADES6.3.0/inc/Standard_Integer.hxx:119: error: ‘INT_MIN’ was not
declared in this scope
/opt/OpenCASCADES6.3.0/inc/Standard_Integer.hxx: In function ‘Standard_Integer
IntegerLast()’:
/opt/OpenCASCADES6.3.0/inc/Standard_Integer.hxx:125: error: ‘INT_MAX’ was not
declared in this scope
/opt/OpenCASCADES6.3.0/inc/Standard_Integer.hxx: In function ‘Standard_Integer
IntegerSize()’:
/opt/OpenCASCADES6.3.0/inc/Standard_Integer.hxx:131: error: ‘CHAR_BIT’ was not
declared in this scope
In file included from /opt/OpenCASCADES6.3.0/inc/Standard_PrimitiveTypes.hxx:23,
from /opt/OpenCASCADES6.3.0/inc/Handle_Standard_Transient.hxx:10,
from /opt/OpenCASCADES6.3.0/inc/Handle_MMgt_TShared.hxx:33,
from /opt/OpenCASCADES6.3.0/inc/Handle_TDF_Data.hxx:33,
from /opt/OpenCASCADES6.3.0/inc/TDF_Label.hxx:29,
from /opt/CadConv/CadConverterConsole/CadDDLConverter/CxlObject.hh:16,
from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.hh:4,
from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.cc:1:
/opt/OpenCASCADES6.3.0/inc/Standard_Real.hxx: In function ‘Standard_Integer
RealSize()’:
/opt/OpenCASCADES6.3.0/inc/Standard_Real.hxx:162: error: ‘CHAR_BIT’ was not
declared in this scope
/opt/OpenCASCADES6.3.0/inc/Standard_Real.hxx: In function ‘Standard_Integer
RealToInt(Standard_Real)’:
/opt/OpenCASCADES6.3.0/inc/Standard_Real.hxx:283: error: ‘INT_MIN’ was not
declared in this scope
/opt/OpenCASCADES6.3.0/inc/Standard_Real.hxx:283: error: ‘INT_MAX’ was not
declared in this scope
In file included from /opt/OpenCASCADES6.3.0/inc/Standard_OStream.hxx:8,
from /opt/OpenCASCADES6.3.0/inc/Standard_ExtCharacter.hxx:24,
from /opt/OpenCASCADES6.3.0/inc/Standard_PrimitiveTypes.hxx:29,
from /opt/OpenCASCADES6.3.0/inc/Handle_Standard_Transient.hxx:10,
from /opt/OpenCASCADES6.3.0/inc/Handle_MMgt_TShared.hxx:33,
from /opt/OpenCASCADES6.3.0/inc/Handle_TDF_Data.hxx:33,
from /opt/OpenCASCADES6.3.0/inc/TDF_Label.hxx:29,
from /opt/CadConv/CadConverterConsole/CadDDLConverter/CxlObject.hh:16,
from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.hh:4,
from
/opt/CadConv/CadConverterConsole/CadDDLConverter/CadDDLConverter.cc:1:
/opt/OpenCASCADES6.3.0/inc/Standard_Stream.hxx: At global scope:
/opt/OpenCASCADES6.3.0/inc/Standard_Stream.hxx:84: error: ‘std::setw’ has not been
declared
/opt/OpenCASCADES6.3.0/inc/Standard_Stream.hxx:85: error: ‘std::setprecision’ has

not been declared
make[2]: *** [CadDDLConverter/CMakeFiles/CADConverter.dir/CadDDLConverter.o] Error 1
make[2]: Leaving directory `/opt/CadConv/build'
make[1]: *** [CadDDLConverter/CMakeFiles/CADConverter.dir/all] Error 2
make[1]: Leaving directory `/opt/CadConv/build'
make: *** [all] Error 2

All variables has been set as explained in the wiki. CMake runs without errors. The errors points to some variables not beeing declared which would imply that somehow an include is missing.

I'm using OpenCASCADES 6.3 and CadConverter2.2_OCC6.3.tar.gz
Also tried the tip from Simone Bianco in the wiki by changing:

{CadConverterConsole}/CMakeLists.txt --> CadConverterFixed/CMakeLists.txt
{CadConverterConsole}/CadDDLConverter/CMakeLists.txt --> CadConverterFixed/CadDDLConverter/CMakeLists.txt
{CadConverterConsole}/cmake/Modules/FindOpenCascade.cmake --> CadConverterFixed/cmake/Modules/FindOpenCascade.cmake

Does anybody have a clue how this might be fixed?

Best regards and thanks in advance for all your efforts,
Sverre

Subject: Re: Problems compiling CADConverter on Ubuntu 9.04
Posted by Florian Uhlig on Wed, 24 Jun 2009 16:02:57 GMT
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Hi Sverre

Probably all the errors has to do with changes in the standard header files. With new versions of gcc there were a cleanup of
include statements in the header files. This results in compilation errors because functions/definitions are not known any longer.

For example INT_MAX, INT_MIN and CHAR_BIT are defined in climits.h. std::setw and std::setprecision are defined in iomanip. Adding these header files should solve the problems.

Since the problems are in an external package maybe upgrade to a newer version of OpenCascade.

Ciao

Florian

Subject: Re: Problems compiling CADConverter on Ubuntu 9.04
Posted by Sverre Dørheim on Wed, 24 Jun 2009 16:14:09 GMT
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Hi Florian

Thanks for the quick answer. As you pointed out the problem seems to be located in the header files of OpenCascade. What wonders me is that I have the latest verion, downloaded it today. And it compiled without a single error.

I will now try you tip and include those files in the OpenCascade headers.
Edit 24.06.09 19:45
I got it to compile by changing all the includes for config.h. The were included using:
#include <config.h>
Since the ROOT came before in the include-path the ROOT config.h was included instead of the one belonging to OpenCascade. So i changed it to:
#include "config.h"

In addition I had to remove the compiler option HAVE_LIMITS in the CMakeLists.txt file. With this variable not se, the limits.h file is included.

Best Regards
Sverre