

Quassel IRC - Bug #1401

CMake HAVE_SSL test failing due to missing -fPIC

03/29/2016 06:15 AM - Fylwind

Status:	New	Start date:	03/29/2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Build System	Estimated time:	0.00 hour
Target version:		OS:	Linux
Version:	0.10.0		
Description HAVE_SSL test seems to be failing on my system when -DUSE_QT5=ON is set (Arch Linux 4.4.5-1). CMake is trying to compile the test without -fPIC but the library was built with -reduce-relocations. The rest of the software builds just fine, but this particular test fails so it causes SSL to be disabled by default, unless forced on by HAVE_SSL. Quassel version is 0.12.3, but the dropdown menu of the bugtracker doesn't have that. Error log: Performing C++ SOURCE FILE Test HAVE_SSL failed with the following output: Change Dir: /tmp/foo/CMakeFiles/CMakeTmp Run Build Command:"/usr/bin/make" "cmTC_ae013/fast" /usr/bin/make -f CMakeFiles/cmTC_ae013.dir/build.make CMakeFiles/cmTC_ae013.dir/build make[1]: Entering directory '/tmp/foo/CMakeFiles/CMakeTmp' Building CXX object CMakeFiles/cmTC_ae013.dir/src.cxx.o /usr/bin/c++ -I/usr/include/qt -I/usr/include/qt/QtCore -I/usr/lib/qt/mkspecs/linux-g++ -std=c++11 -Wall -Wextra -Wnon-virtual-dtor -fno-strict-aliasing -Wundef -Wcast-align -Wpointer-arith -Wformat-security -fno-check-new -fno-common -Woverloaded-virtual -DHAVE_SSL -o CMakeFiles/cmTC_ae013.dir/src.cxx.o -c /tmp/foo/CMakeFiles/CMakeTmp/src.cxx In file included from /tmp/foo/CMakeFiles/CMakeTmp/src.cxx:2:0: /usr/include/qt/QtCore/qglobal.h:1090:4: error: #error "You must build your code with position independent code if Qt was built with -reduce-relocations. " "Compile your code with -fPIC (-fPIE is not enough)." # error "You must build your code with position independent code if Qt was built with -reduce-relocations. "\n^ CMakeFiles/cmTC_ae013.dir/build.make:65: recipe for target 'CMakeFiles/cmTC_ae013.dir/src.cxx.o' failed make[1]: *** [CMakeFiles/cmTC_ae013.dir/src.cxx.o] Error 1 make[1]: Leaving directory '/tmp/foo/CMakeFiles/CMakeTmp' Makefile:126: recipe for target 'cmTC_ae013/fast' failed make: *** [cmTC_ae013/fast] Error 2 Source file was: <pre>#include "qglobal.h" #ifdef QT_NO_SSL # error "No SSL support" #endif int main() {}</pre>			

History

#1 - 04/24/2016 10:10 PM - oxc

I tried moving the code block which sets CMAKE_POSITION_INDEPENDENT_CODE above the check, which indeed causes -fPIE to be added, but according to Qt that is not sufficient:

```
"You must build your code with position independent code if Qt was built with -reduce-relocations. " "Compile your code with -fPIC (-fPIE is not enough)."
```

I could not figure out how to cause -fPIC to get added instead.