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:			
Version:	0.10.0	os:	Linux

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 -W
format-security -fno-check-new -fno-common -Woverloaded-virtual -DHAVE_SSL -o CMakeFiles/cmTC_a
e013.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 ind
ependent 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-re
locations. "\
CMakeFiles/cmTC_ae013.dir/build.make:65: recipe for target 'CMakeFiles/cmTC_ae013.dir/src.cxx.o' f
ailed
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:
    #include "gglobal.h"
    #if defined QT_NO_SSL
    # error "No SSL support"
    #endif
    int main() {}
```

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)."

04/29/2024 1/2

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

04/29/2024 2/2