

CrystaX NDK - Bug #877

Multiple inclusions of different <cdefs.h>

01/24/2015 05:40 AM - Alex Afanasyev

Status:	Closed	Start date:	01/24/2015
Priority:	High	Due date:	
Assignee:	Dmitry Moskalchuk	% Done:	100%
Category:	libcrystax	Estimated time:	0.00 hour
Target version:	10.2.0	Android version:	
CPU Architecture:		CrystaX Version:	
Host OS:	Linux		
Toolchain:	gcc-4.9		

Description

I'm trying to compile sqlite3 using <https://github.com/lookout/sqlite-android.git> repo and getting some redefinition errors

```
vagrant@vagrant-ubuntu-trusty-64:~/sqlite-android$ ndk-build V=1
rm -f ./libs/arm64-v8a/lib*.so ./libs/armeabi/lib*.so ./libs/armeabi-v7a/lib*.so ./libs/armeabi-v7a-hard/lib*.so ./libs/mips/lib*.so
./libs/x86/lib*.so ./libs/x86_64/lib*.so
rm -f ./libs/arm64-v8a/gdbserver ./libs/armeabi/gdbserver ./libs/armeabi-v7a/gdbserver ./libs/armeabi-v7a-hard/gdbserver
./libs/mips/gdbserver ./libs/x86/gdbserver ./libs/x86_64/gdbserver
rm -f ./libs/arm64-v8a/gdb.setup ./libs/armeabi/gdb.setup ./libs/armeabi-v7a/gdb.setup ./libs/armeabi-v7a-hard/gdb.setup
./libs/mips/gdb.setup ./libs/x86/gdb.setup ./libs/x86_64/gdb.setup
[armeabi] Compile thumb : sqlite <= sqlite3.c
/opt/crystax-ndk-10.1.0/toolchains/arm-linux-androideabi-4.9/prebuilt/linux-x86_64/bin/arm-linux-androideabi-gcc -MMD -MP -MF
./obj/local/armeabi/objs/sqlite//sqlite3.o.d -fpic -ffunction-sections -funwind-tables -fstack-protector -no-canonical-prefixes
-march=armv5te -mtune=xscale -msoft-float -mthumb -Os -g -DNDEBUG -fomit-frame-pointer -fno-strict-aliasing
-finline-limit=64 -ljni -DANDROID -DSQLITE_THREADSafe=1 -Wa,--noexecstack -Wformat -Werror=format-security -Wall
-Wno-unused -Wno-multichar -Wstrict-aliasing=2 -Werror -fvisibility=hidden -fno-exceptions -fmessage-length=0 -c
-l/opt/crystax-ndk-10.1.0/sources/crystax/include -l/opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include
jni/./sqlite3.c -o ./obj/local/armeabi/objs/sqlite//sqlite3.o
In file included from /opt/crystax-ndk-10.1.0/sources/crystax/include/sys/cdefs.h:59:0,
from /opt/crystax-ndk-10.1.0/sources/crystax/include/crystax/freebsd.h:34,
from /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/stdio.h:43,
from jni/./sqlite3.c:7993:
/opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/crystax/google/sys/cdefs.h:447:0: error: "XSI_VISIBLE" redefined
[-Werror]
#define __XSI_VISIBLE 500
^
In file included from /opt/crystax-ndk-10.1.0/sources/crystax/include/crystax/freebsd.h:34:0,
from /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/stdio.h:43,
from jni/./sqlite3.c:7993:
/opt/crystax-ndk-10.1.0/sources/crystax/include/sys/cdefs.h:52:0: note: this is the location of the previous definition
#define __XSI_VISIBLE 600
^
In file included from /opt/crystax-ndk-10.1.0/sources/crystax/include/sys/cdefs.h:59:0,
from /opt/crystax-ndk-10.1.0/sources/crystax/include/crystax/freebsd.h:34,
from /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/stdio.h:43,
from jni/./sqlite3.c:7993:
/opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/crystax/google/sys/cdefs.h:468:0: error: "POSIX_VISIBLE"
redefined [-Werror]
#define POSIX_VISIBLE 199506
^
In file included from /opt/crystax-ndk-10.1.0/sources/crystax/include/crystax/freebsd.h:34:0,
from /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/stdio.h:43,
from jni/./sqlite3.c:7993:
/opt/crystax-ndk-10.1.0/sources/crystax/include/sys/cdefs.h:47:0: note: this is the location of the previous definition
#define __POSIX_VISIBLE 200809
^
In file included from /opt/crystax-ndk-10.1.0/sources/crystax/include/sys/cdefs.h:59:0,
from /opt/crystax-ndk-10.1.0/sources/crystax/include/crystax/freebsd.h:34,
```

```
from /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/stdio.h:43,  
from jni/./sqlite3.c:7993:  
/opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/crystax/google/sys/cdefs.h:469:0: error: "ISO_C_VISIBLE"  
redefined [-Werror]  
#define ISO_C_VISIBLE 1990  
^  
In file included from /opt/crystax-ndk-10.1.0/sources/crystax/include/crystax/freebsd.h:34:0,  
from /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/stdio.h:43,  
from jni/./sqlite3.c:7993:  
/opt/crystax-ndk-10.1.0/sources/crystax/include/sys/cdefs.h:57:0: note: this is the location of the previous definition  
#define __ISO_C_VISIBLE 1999  
^  
cc1: all warnings being treated as errors  
make: *** [obj/local/armeabi/objs/sqlite/sqlite3.o] Error 1
```

To reproduce:

```
git clone https://github.com/lookout/sqlite-android.git  
cd sqlite-android  
make  
ndk-build
```

History

#1 - 01/24/2015 05:54 AM - Alex Afanasyev

I was able to proceed by making replacements in /opt/crystax-ndk-10.1.0/platforms/android-3/arch-arm/usr/include/crystax/google/sys/cdefs.h

```
#define __POSIX_VISIBLE 200112
```

with

```
#if defined(__POSIX_VISIBLE) && __POSIX_VISIBLE < 200112  
#undef __POSIX_VISIBLE  
#define __POSIX_VISIBLE 200112  
#endif
```

(and few other similar to this)

I'm not sure if the problem cause by sqlite3 itself or something else.

#2 - 01/24/2015 05:56 AM - Dmitry Moskalchuk

- Category set to libcrystax
- Priority changed from Normal to High
- Target version set to 10.2.0

#3 - 01/24/2015 05:59 AM - Dmitry Moskalchuk

- Status changed from Open to In Progress
- Assignee set to Dmitry Moskalchuk

#4 - 01/25/2015 09:21 PM - Dmitry Moskalchuk

- Status changed from In Progress to Closed
- % Done changed from 0 to 100

Fixed: "dd3618fe": <https://github.com/crystax/android-platform-ndk/commit/dd3618fe9060a0bd6482f43634b9bebb3281905e>