

CrystaX NDK - Bug #987

clang don't handle properly "--framework" parameter in link mode

06/26/2015 01:49 AM - Dmitry Moskalchuk

Status:	Open	Start date:	06/26/2015
Priority:	Normal	Due date:	
Assignee:	Dmitry Moskalchuk	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	11.0.0	Android version:	
CPU Architecture:		CrystaX Version:	
Host OS:			
Toolchain:	clang-3.5, clang-3.6		

Description

```
$ /opt/android/crystax-ndk-10.2.0/build/tools/make-standalone-toolchain.sh \
--toolchain=arm-linux-androideabi-clang3.6 --install-dir=/tmp/android-arm
```

```
Auto-config: --arch=arm
```

```
Auto-config: --toolchain=arm-linux-androideabi-4.8, --llvm-version=3.6
```

```
Auto-config: --platform=android-3
```

```
Copying prebuilt binaries...
```

```
Copying sysroot headers and libraries...
```

```
Copying crystax headers and libraries...
```

```
Copying libpng headers and libraries...
```

```
Copying libjpeg headers and libraries...
```

```
Copying libtiff headers and libraries...
```

```
Copying libobjc headers and libraries...
```

```
Copying c++ runtime headers and libraries...
```

```
Copying files to: /tmp/android-arm
```

```
Cleaning up...
```

```
Done.
```

```
$ /tmp/android-arm/bin/clang++ -target armv7-none-linux-androideabi \
-march=armv7-a -mfloat-abi=softfp -mfpu=vfpv3-d16 -mthumb \
--sysroot=/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm \
-c -o ao.o ao.m \
-F/opt/android/crystax-ndk-10.2.0/sources/objc/cocotron/0.1.0/frameworks/armeabi-v7a \
-framework Foundation -framework CoreFoundation
clang36: warning: -framework Foundation: 'linker' input unused
clang36: warning: -framework CoreFoundation: 'linker' input unused
```

```
$ /tmp/android-arm/bin/clang++ -v -target armv7-none-linux-androideabi \
-march=armv7-a -mfloat-abi=softfp -mfpu=vfpv3-d16 -mthumb \
--sysroot=/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm \
-F/opt/android/crystax-ndk-10.2.0/sources/objc/cocotron/0.1.0/frameworks/armeabi-v7a \
-framework Foundation -framework CoreFoundation \
-o ao.o
clang version 3.6
Target: armv7-none-linux-androideabi
Thread model: posix
Found candidate GCC installation: /tmp/android-arm/bin/./lib/gcc/arm-linux-androideabi/4.8
Selected GCC installation: /tmp/android-arm/bin/./lib/gcc/arm-linux-androideabi/4.8
Candidate multilib: armv7-a/thumb/hard;@march=armv7-a@mhard-float@mthumb
Candidate multilib: armv7-a/hard;@march=armv7-a@mhard-float
Candidate multilib: armv7-a/thumb;@march=armv7-a@mthumb
Candidate multilib: armv7-a;@march=armv7-a
Candidate multilib: thumb;@mthumb
Candidate multilib: .;
Selected multilib: armv7-a/thumb;@march=armv7-a@mthumb
clang36: warning: argument unused during compilation:
'-F/opt/android/crystax-ndk-10.2.0/sources/objc/cocotron/0.1.0/frameworks/armeabi-v7a'
"/tmp/android-arm/bin/./lib/gcc/arm-linux-androideabi/4.8/./././././arm-linux-androideabi/bin/ld"
```

```
--sysroot=/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm -pie -X --eh-frame-hdr \  
-m armelf_linux_eabi -dynamic-linker /system/bin/linker -o ao \  
/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm/usr/lib/../lib/crtbegin_dynamic.o \  
-L/tmp/android-arm/bin/../lib/gcc/arm-linux-androideabi/4.8/armv7-a/thumb \  
-L/private/tmp/android-arm/bin/../arm-linux-androideabi/lib/armv7-a/thumb \  
-L/tmp/android-arm/bin/../lib/gcc/arm-linux-androideabi/4.8/../../../../arm-linux-androideabi/lib/../lib \  
-L/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm/usr/lib/../lib \  
-L/tmp/android-arm/bin/../lib/gcc/arm-linux-androideabi/4.8/../../../../arm-linux-androideabi/lib \  
-L/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm/usr/lib \  
-framework Foundation -framework CoreFoundation \  
ao.o -lstdc++ -lm -lgcc -ldl -lcrystax -lc -lgcc -ldl \  
/opt/android/crystax-ndk-10.2.0/platforms/android-21/arch-arm/usr/lib/../lib/crtend_android.o  
/tmp/android-arm/bin/../lib/gcc/arm-linux-androideabi/4.8/../../../../arm-linux-androideabi/bin/ld: fatal error: -f/--auxiliary may not be  
used without -shared  
clang36: error: linker command failed with exit code 1 (use -v to see invocation)
```

Here @-framework Foundation@ and @-framework CoreFoundation@ are passed to linker (@/tmp/android-arm/arm-linux-androideabi/bin/ld@) directly instead of being processed by clang. It should handle these keys properly and pass @-L@ and @-l@ keys auto-detected from @-framework@ keys.

History

#1 - 10/13/2015 05:39 PM - Dmitry Moskalchuk

- Target version changed from 10.3.0 to 11.0.0