Notes on Installing LLVM 3.4 From Source Code

By Simin You

For some reason, I need LLVM for my development. In order to get latest version, I decided to compile from source code.

Download Packages

First step is to download packages that I need from llvm (http://llvm.org/releases/download.html) website.

```
wget http://llvm.org/releases/3.4/clang-3.4.src.tar.gz
wget http://llvm.org/releases/3.4/llvm-3.4.src.tar.gz
wget http://llvm.org/releases/3.4/compiler-rt-3.4.src.tar.gz
wget http://llvm.org/releases/3.4/clang-tools-extra-3.4.src.tar.gz
```

Organizing

Unpack all of them and organize the src structure:

```
mv clang-3.4 llvm-3.4/tools/clang
mv clang-tools-extra-3.4 llvm-3.4/tools/clang/extra
mv compiler-rt-3.4 llvm-3.4/projects/compiler-rt
```

Compile

Create a build folder at the same level of llvm folder (mkdir build), and configure (./.llvm-3.4/configure --enable-optimized).

Then,

```
make -j8
```

-j8 option maximizes compile performance on my machine.

After a while,

```
sudo make install
```
Finally, check the installation,

```
clang -v
```

I got the following:

```
clang version 3.4 (tags/RELEASE_34/final)
Target: x86_64-unknown-linux-gnu
Thread model: posix
```

Cheers!

**Reference** 1.[http://clang.llvm.org/get_started.html](http://clang.llvm.org/get_started.html)

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