Ninja vs make from cmake

cschen

Available?

- Begin from 2.8.9
- Sun grid 2.6.4

Incorrect bench mark

- 使用 make 编译 llvm-clang 花费 3 个小时左右，使用 ninja 只需要 10 多分钟
- http://blog.sina.com.cn/s/blog_6114e8c80101arpu.html

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-
- ninja --help
- -j N run N jobs in parallel [default=10, derived from CPUs available]

Ninja vs make performance comparison from web

- http://www.lanedo.com/a-quest-for-speed-in-compiling/
- http://hamelot.io/programming/make-vs-ninja-performance-comparison/
- http://jpospisil.com/2014/03/16/replacing-make-with-ninja.html

For Csim build

- First time:

cmake .	cmake -G Ninja .
time make -j8	time ninja -j8
real 4m5.634s	real 3m58.293s
user29m57.486s	user30m5.561s
sys 1m26.882s	sys 1m16.597s

- Touch one or more files:
  - No obvious difference in:
    - touch ../../../include/memory.h, ../../../include/*, ../../../src/v8/aarch64/instruction/instruction.cpp
- No file change:
  - Let's do it on terminal.

For Csim clean

- clean:

time make clean
real 0m0.784s
user0m0.497s
sys 0m0.289s

time make -j8 clean
real 0m0.230s
user0m0.546s
sys 0m0.274s

ninja -t clean
Cleaning... 3264 files.
real 0m0.096s
user0m0.024s
sys 0m0.072s

ninja -t clean is faster than make clean...
https://cmake.org/pipermail/cmake-developers/2012-April/015526.html