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LLVM-Clang On Ubuntu Linux ARM

Comparing GCC 4.7.0 and LLVM-Clang 3.0 from Ubuntu repository on Ubuntu 12.10 daily snapshot from 5 June 2012. Testing for a future article on Phoronix.com. The CFLAGS/CXXFLAGS passed to each compiler were -O3 and -march=armv7-a.

Test Systems:

LLVM-Clang 3.0

Processor: ARMv7 rev 10 @ 1.20GHz (2 Cores), Motherboard: OMAP4 Panda board, Memory: 1024MB, Disk: 16GB SD16G, Graphics: Texas Instruments OMAP

OS: Ubuntu 12.10, Kernel: 3.4.0-201-omap4 (armv7l), Desktop: Unity 2D 5.12.0, Display Server: X Server 1.11.3, Display Driver: fbdev 0.4.2, Compiler: Clang 3.0-6ubuntu3, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: ondemand

GCC 4.7

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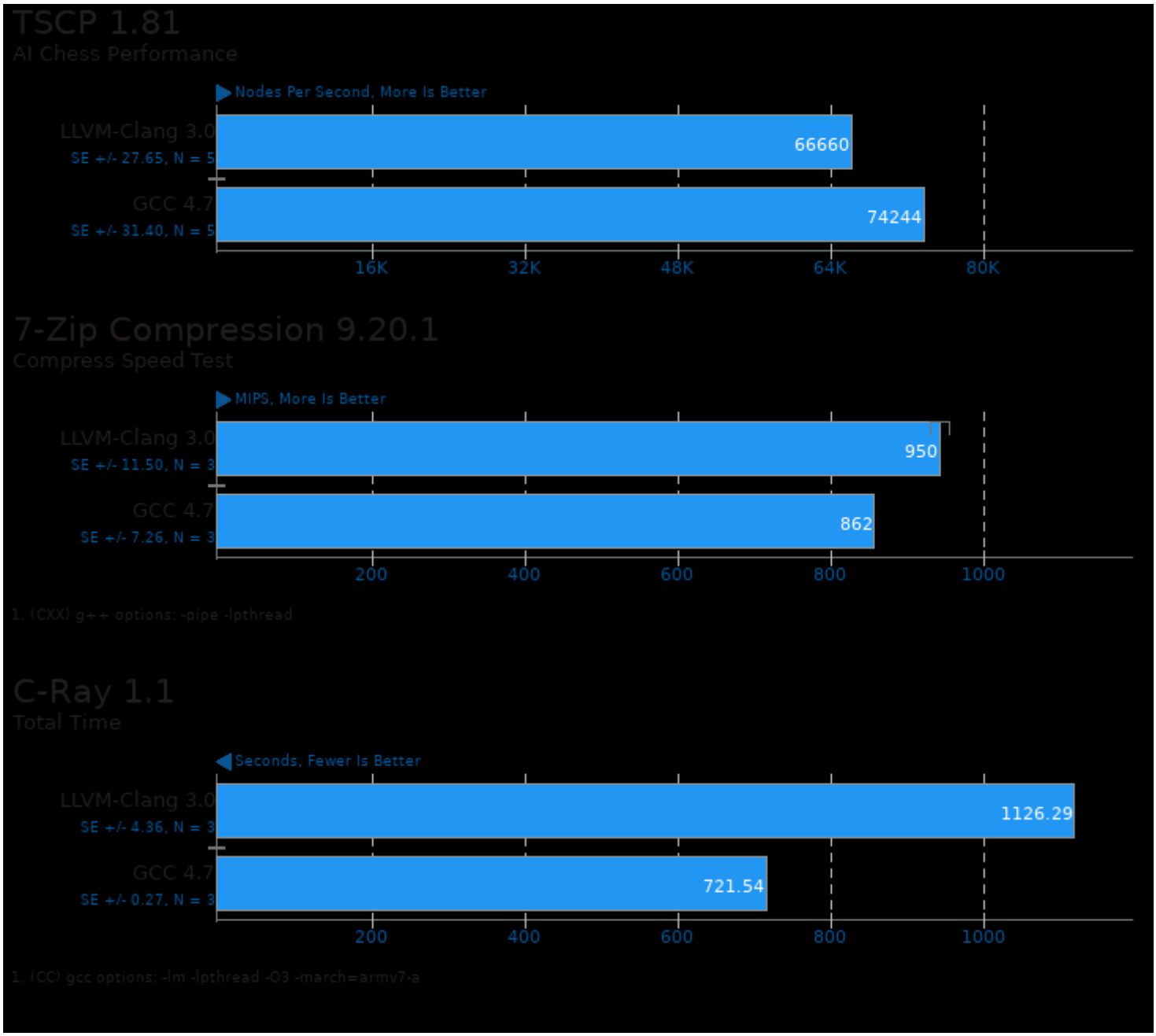
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Compiler Notes: --build=arm-linux-gnueabihf --disable-libitm --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,go,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch=armv7-a --with-float=hard --with-fpu=vfpv3-d16 --with-mode=thumb -v
Processor Notes: Scaling Governor: ondemand

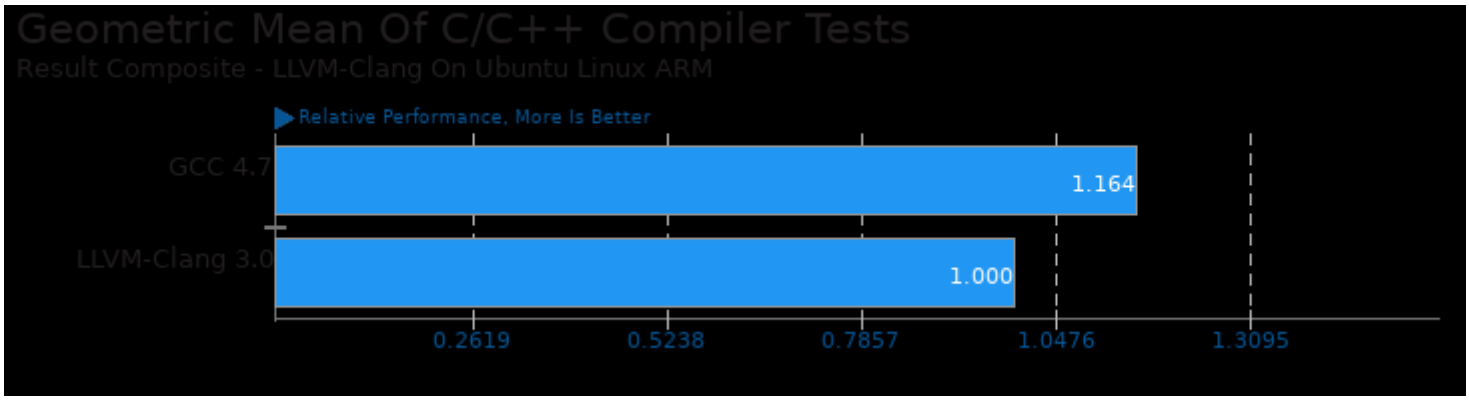
	LLVM-Clang 3.0	GCC 4.7
TSCP - A.C.P (Nodes/s)	**66660**	**74244**
Normalized	89.79%	100%
Standard Deviation	0.1%	0.1%
7-Zip Compression - C.S.T (MIPS)	**950**	**862**
Normalized	100%	90.74%
Standard Deviation	2.1%	1.5%
C-Ray - Total Time (sec)	**1126**	**721.54**
Normalized	64.06%	100%
Standard Deviation	0.7%	0.1%

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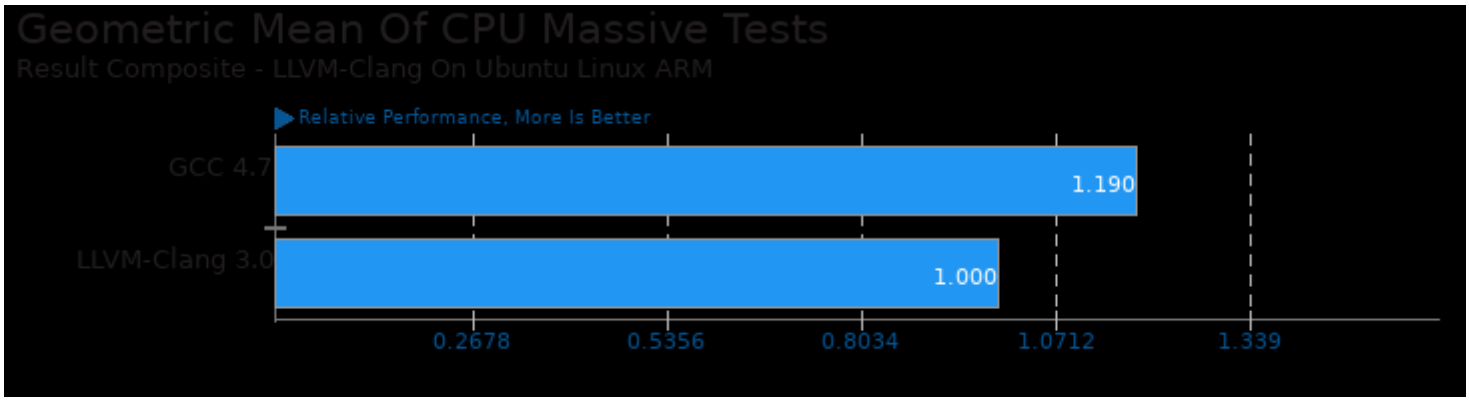


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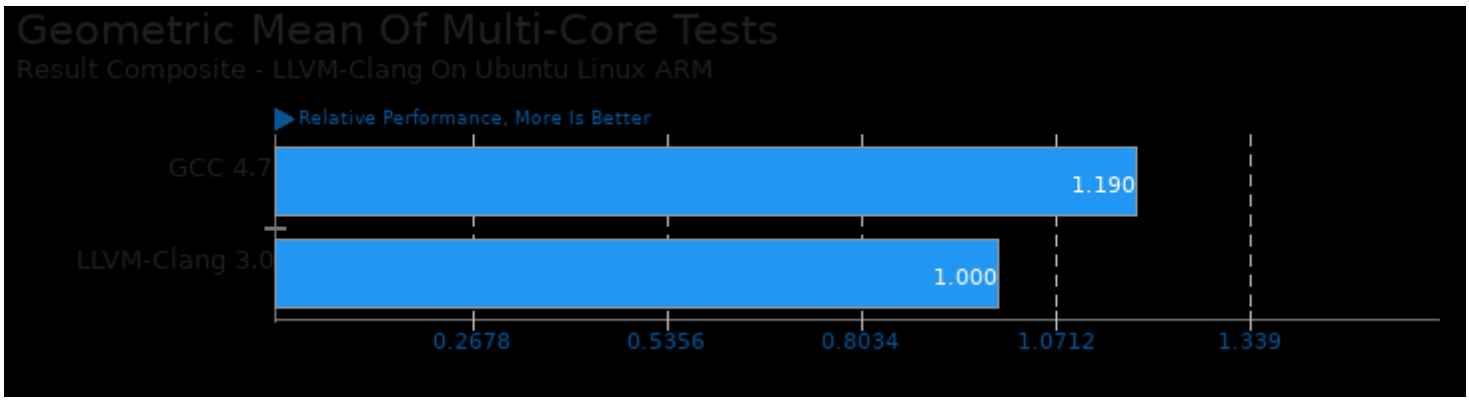
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/tscp, pts/c-ray and pts/compress-7zip

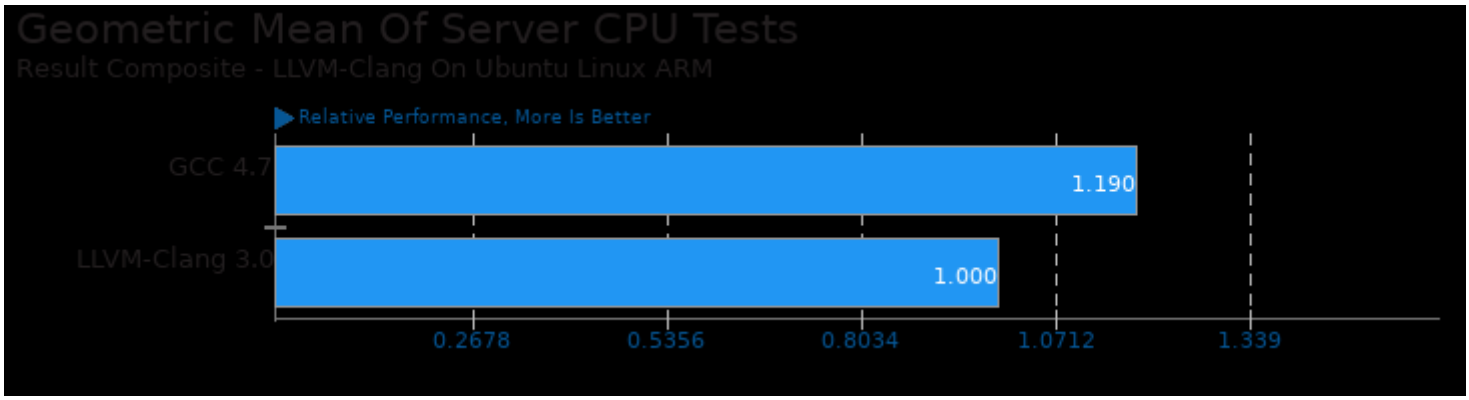


Geometric mean based upon tests: pts/c-ray and pts/compress-7zip



Geometric mean based upon tests: pts/c-ray and pts/compress-7zip

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Geometric mean based upon tests: pts/compress-7zip and pts/c-ray

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:59.