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hackbench-1

AMD Ryzen 7 3800X 8-Core testing with a ASUS ROG CROSSHAIR VIII HERO (3402 BIOS) and Sapphire AMD Radeon RX 56/64 8GB on Gentoo/Linux via the Phoronix Test Suite.

Test Systems:

5.13 BMQ

Processor: AMD Ryzen 7 3800X 8-Core @ 3.90GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (3402 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 480GB KINGSTON SA1000M8480G + 1000GB Western Digital WD1003FZEX-0 + 500GB Seagate ST3500418AS + 240GB SanDisk SDSSDA24, Graphics: Sapphire AMD Radeon RX 56/64 8GB (1590/800MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: MSI MAG272QR, Network: Realtek RTL8125 2.5GbE + Intel I211

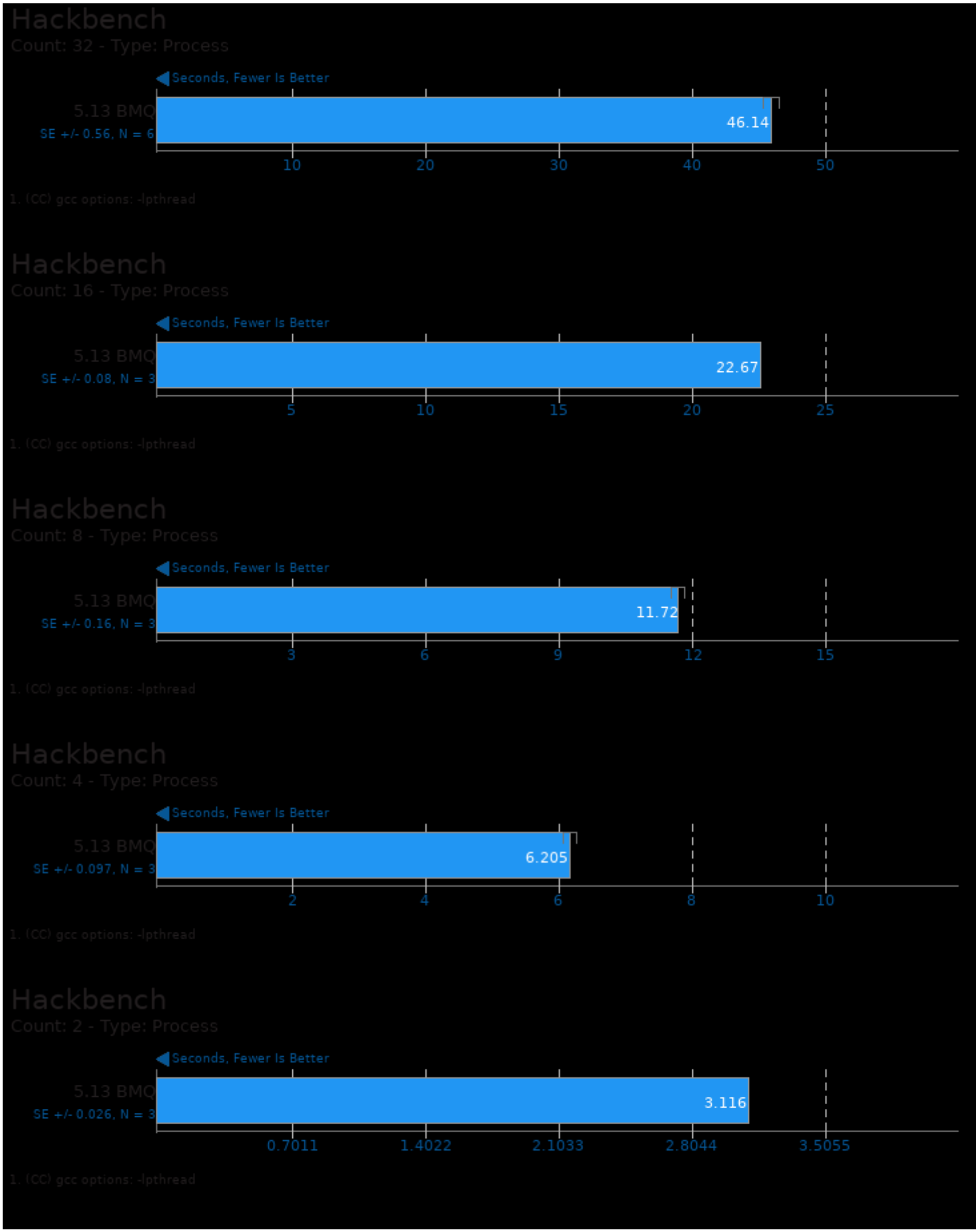
OS: Gentoo/Linux, Kernel: 5.13.2-gentoo-clang-lto-bmq (x86_64), Desktop: KDE Plasma 5.21.5, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.0), OpenCL: OpenCL 2.0 AMD-APP (3224.0), Vulkan: 1.2.168, Compiler: GCC 11.1.0 + Clang 12.0.1, File-System: btrfs, Screen Resolution: 2560x1440

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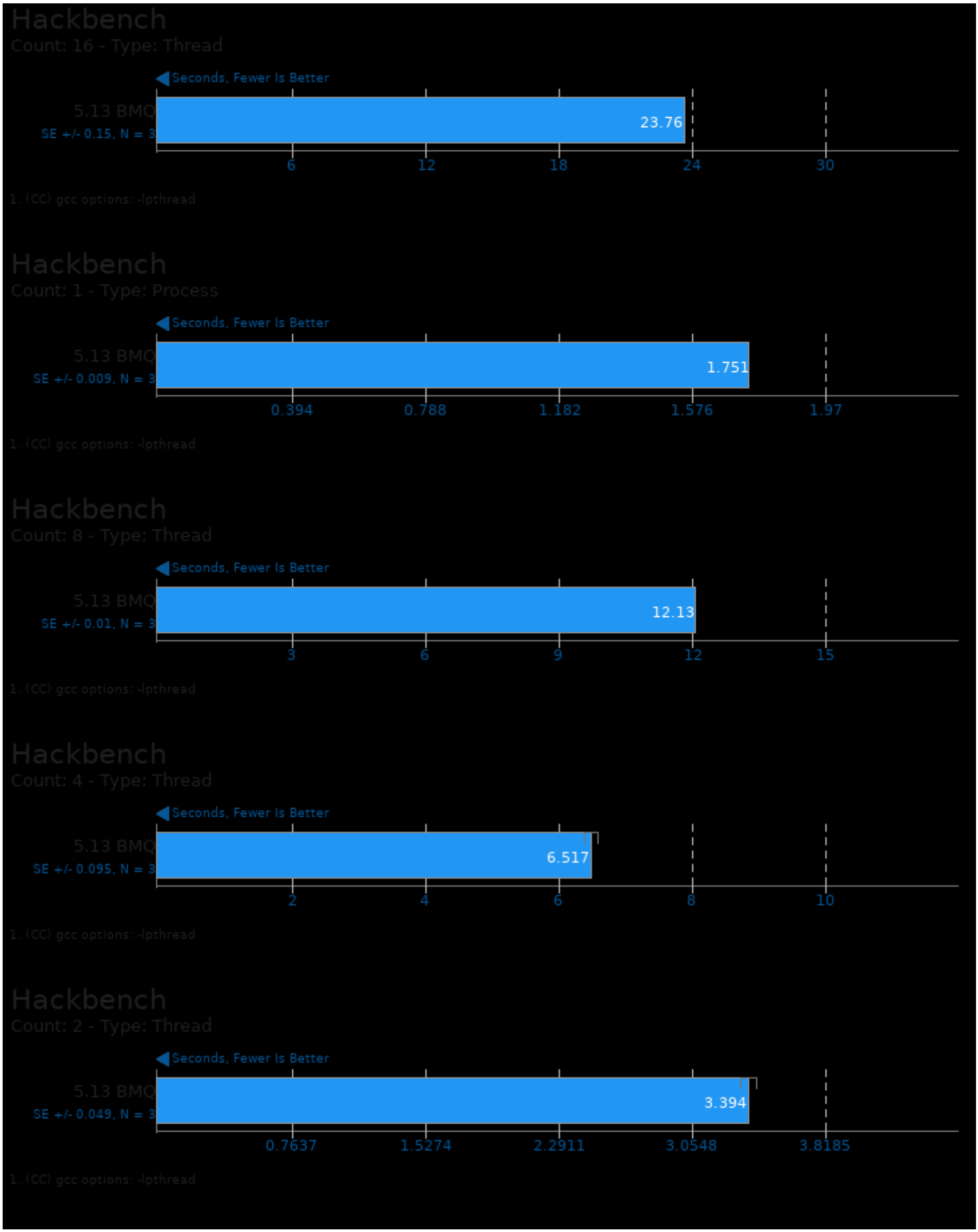
Kernel Notes: amdgpu.ppfeaturemask=0xffffffff - Transparent Huge Pages: madvise
Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/11.1.0 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/11.1.0 --disable-esp --disable-fixed-point --disable-isl-version-check --disable-libada --disable-libssp --disable-libvtv --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/11.1.0/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/11.1.0/man --with-build-config=bootstrap-lto --with-isl --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/11.1.0/python --without-zstd
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8701021
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5.13 BMQ	
Hackbench - 32 - Process (sec)	46.140
Standard Deviation	3%
Hackbench - 16 - Process (sec)	22.665
Standard Deviation	0.6%
Hackbench - 8 - Process (sec)	11.716
Standard Deviation	2.3%
Hackbench - 4 - Process (sec)	6.205
Standard Deviation	2.7%
Hackbench - 2 - Process (sec)	3.116
Standard Deviation	1.4%
Hackbench - 16 - Thread (sec)	23.764
Standard Deviation	1.1%
Hackbench - 1 - Process (sec)	1.751
Standard Deviation	0.9%
Hackbench - 8 - Thread (sec)	12.131
Standard Deviation	0.2%
Hackbench - 4 - Thread (sec)	6.517
Standard Deviation	2.5%
Hackbench - 2 - Thread (sec)	3.394
Standard Deviation	2.5%
Hackbench - 1 - Thread (sec)	1.864
Standard Deviation	1%

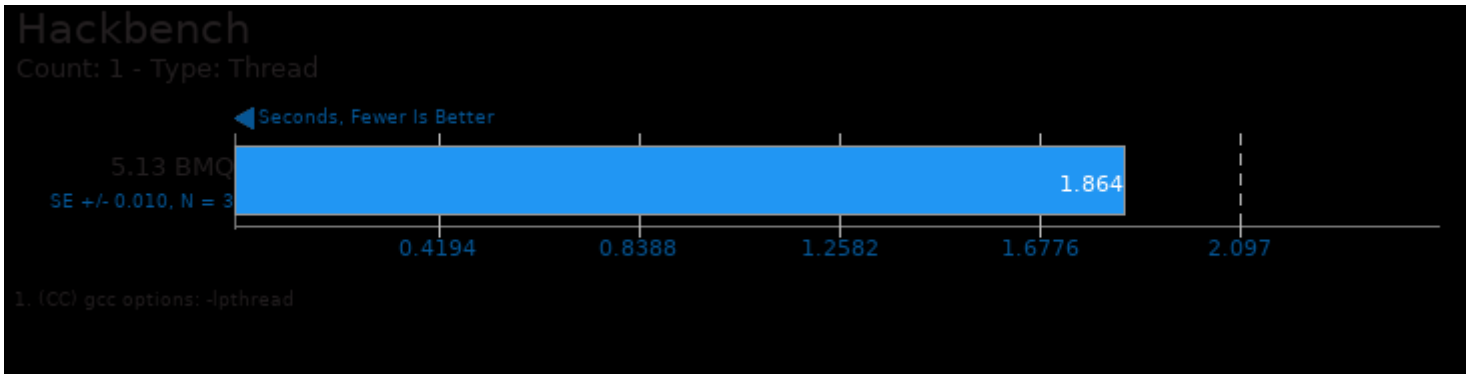
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Hackbench
Count: 32 - Type: Process
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.56, N = 6
46.14
10
20
30
40
50
1. (CC) gcc options: -lpthread
Hackbench
Count: 16 - Type: Process
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.08, N = 3
22.67
5
10
15
20
25
1. (CC) gcc options: -lpthread
Hackbench
Count: 8 - Type: Process
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.16, N = 3
11.72
3
6
9
12
15
1. (CC) gcc options: -lpthread
Hackbench
Count: 4 - Type: Process
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.097, N = 3
6.205
2
4
6
8
10
1. (CC) gcc options: -lpthread
Hackbench
Count: 2 - Type: Process
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.026, N = 3
3.116
0.7011
1.4022
2.1033
2.8044
3.5055
1. (CC) gcc options: -lpthread

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Hackbench
Count: 16 - Type: Thread
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.15, N = 3
23.76
6
12
18
24
30
1. (CC) gcc options: -lpthread
Hackbench
Count: 1 - Type: Process
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.009, N = 3
1.751
0.394
0.788
1.182
1.576
1.97
1. (CC) gcc options: -lpthread
Hackbench
Count: 8 - Type: Thread
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.01, N = 3
12.13
3
6
9
12
15
1. (CC) gcc options: -lpthread
Hackbench
Count: 4 - Type: Thread
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.095, N = 3
6.517
2
4
6
8
10
1. (CC) gcc options: -lpthread
Hackbench
Count: 2 - Type: Thread
Seconds, Fewer Is Better
5.13 BMQ
SE +/- 0.049, N = 3
3.394
0.7637
1.5274
2.2911
3.0548
3.8185
1. (CC) gcc options: -lpthread

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 05:57.