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Sheffield HPC HPCC Tests

2 x Intel Xeon E5-2630 v3 testing with a Dell 04FNTC (2.8.0 BIOS) and Matrox G200eR2 on CentOS 7.8.2003 via the Phoronix Test Suite.

Automated Executive Summary

ShARC HPCC Test 1 Node Exclusive had the most wins, coming in first place for 55% of the tests.

Based on the geometric mean of all complete results, the fastest (ShARC HPCC Test 1) was 1.073x the speed of the slowest (ShARC HPCC Test 1 Node Exclusive).

Test Systems:

ShARC HPCC Test 1

ShARC HPCC Test 1 Node Exclusive

Processor: 2 x Intel Xeon E5-2630 v3 @ 3.20GHz (16 Cores), Motherboard: Dell 04FNTC (2.8.0 BIOS), Chipset: Intel

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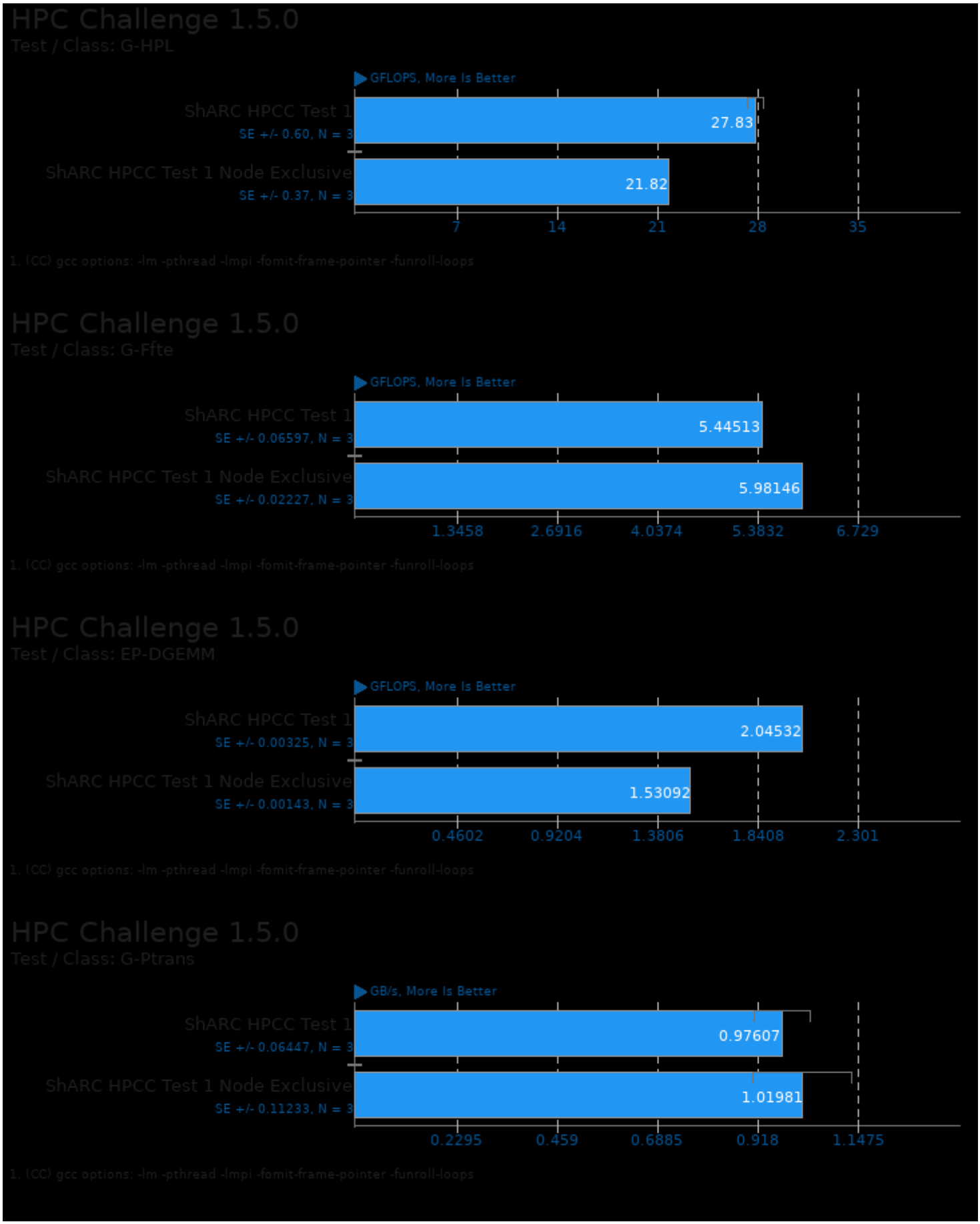
Xeon E7 v3/Xeon, Memory: 64GB, Disk: 1000GB Seagate ST91000640NS, Graphics: Matrox G200eR2, Network: 2 x Intel I350 + 2 x Intel 82599ES 10-Gigabit SFI/SFP+

OS: CentOS 7.8.2003, Kernel: 3.10.0-1127.18.2.el7.x86_64 (x86_64), Compiler: GCC 6.2.0, File-System: lustre, Screen Resolution: 1024x768

Environment Notes: LDFLAGS="-L/usr/local/packages/dev/gcc/6.2.0/lib -L/usr/local/packages/dev/gcc/6.2.0/lib64" CPPFLAGS=-I/usr/local/packages/dev/gcc/6.2.0/include CFLAGS=-I/usr/local/packages/dev/gcc/6.2.0/include
Compiler Notes: --disable-multilib --enable-languages=c,c++,fortran,go
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x43

	ShARC HPCC Test 1	ShARC HPCC Test 1 Node Exclusive
HPC Challenge - G-HPL (GFLOPS)	**27.82537**	**21.82353**
Normalized	100%	78.43%
Standard Deviation	3.7%	3%
HPC Challenge - G-Ffte (GFLOPS)	**5.44513**	**5.98146**
Normalized	91.03%	100%
Standard Deviation	2.1%	0.6%
HPC Challenge - EP-DGEMM (GFLOPS)	**2.04532**	**1.53092**
Normalized	100%	74.85%
Standard Deviation	0.3%	0.2%
HPC Challenge - G-Ptrans (GB/s)	**0.97607**	**1.01981**
Normalized	95.71%	100%
Standard Deviation	11.4%	19.1%
HPC Challenge - EP-STREAM Triad (GB/s)	**5.34581**	**4.52919**
Normalized	100%	84.72%
Standard Deviation	10%	0%
HPC Challenge - G-Rand Access (GUP/s)	**0.03907**	**0.04651**
Normalized	84%	100%
Standard Deviation	19.6%	0.2%
HPC Challenge - R.R.L (usecs)	**1.16800**	**0.80670**
Normalized	69.07%	100%
Standard Deviation	2.4%	1.2%
HPC Challenge - R.R.B (GB/s)	**3.33129**	**1.70873**
Normalized	100%	51.29%
Standard Deviation	3.1%	0.2%
HPC Challenge - M.P.P.B (MB/s)	**12126**	**12700**
Normalized	95.49%	100%
Standard Deviation	2.1%	0.6%

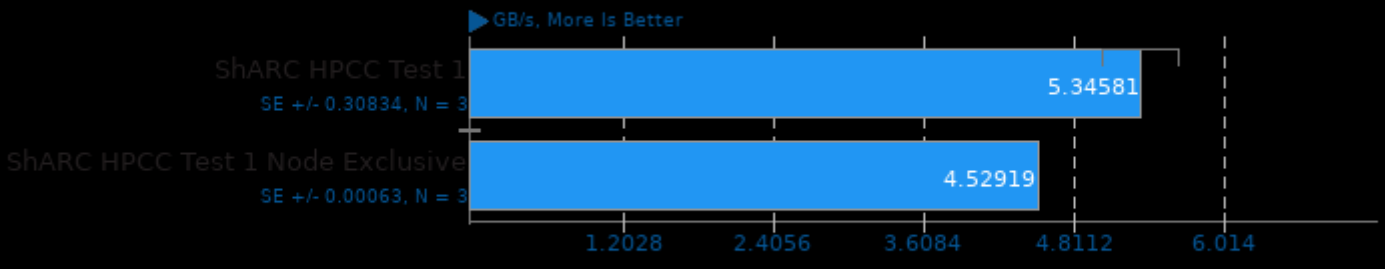
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HPC Challenge 1.5.0

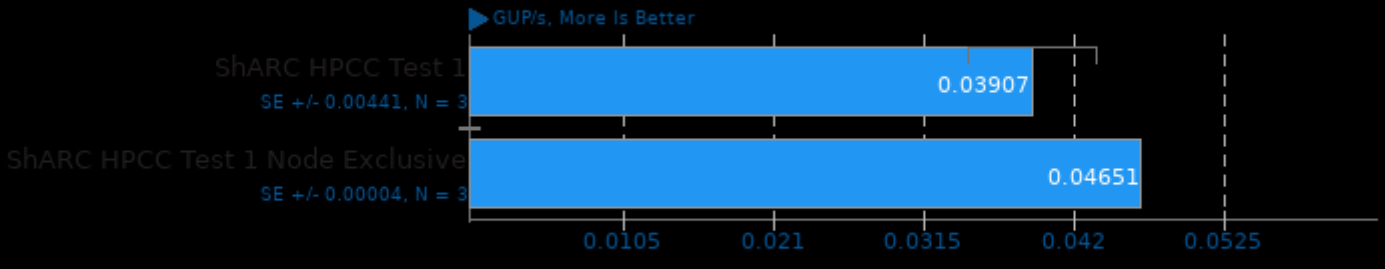
Test / Class: EP-STREAM Triad



1. (CC) gcc options: -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

HPC Challenge 1.5.0

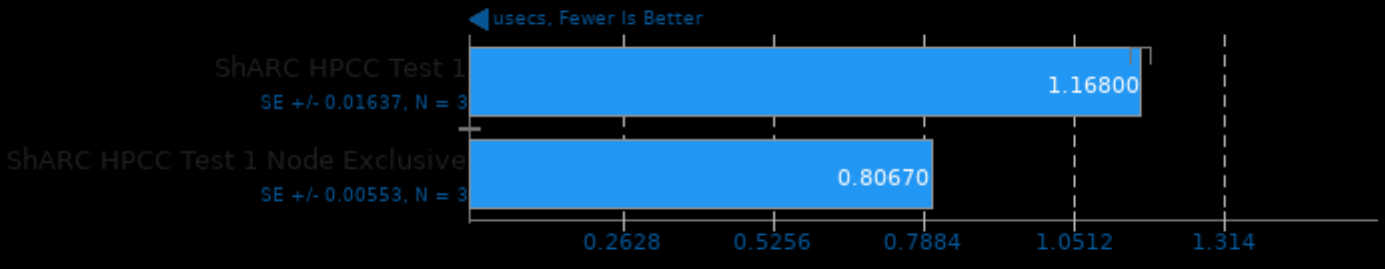
Test / Class: G-Random Access



1. (CC) gcc options: -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

HPC Challenge 1.5.0

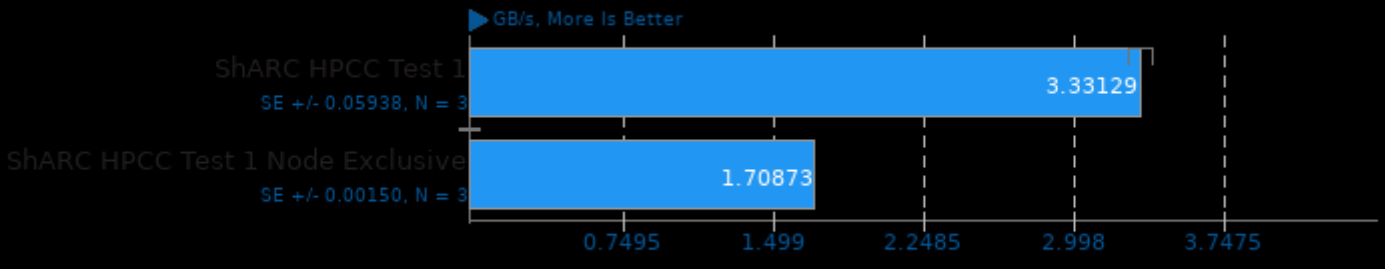
Test / Class: Random Ring Latency



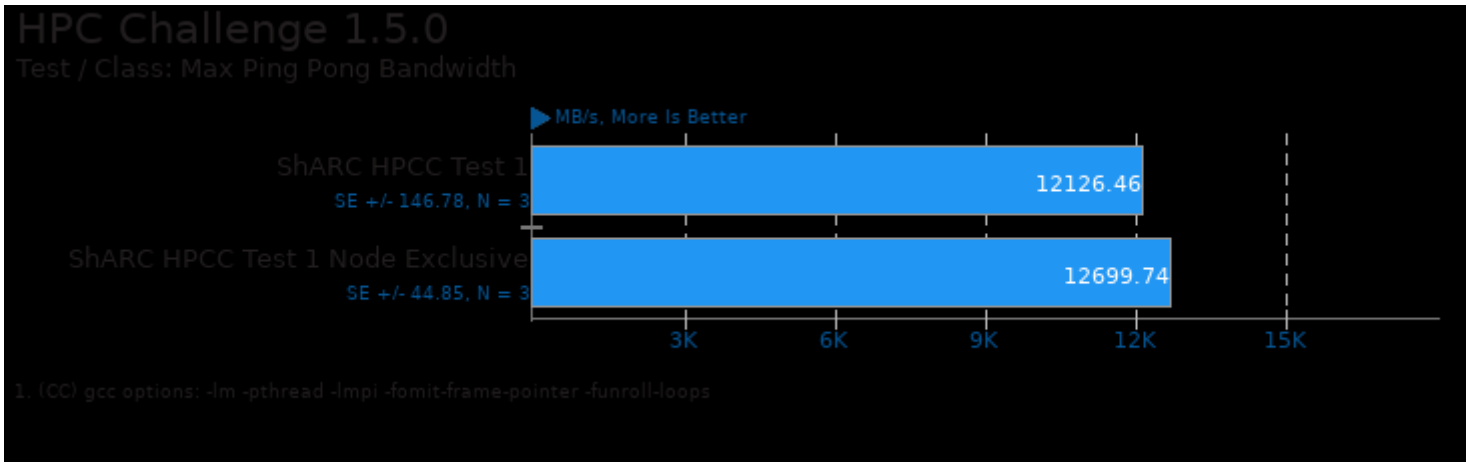
1. (CC) gcc options: -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

HPC Challenge 1.5.0

Test / Class: Random Ring Bandwidth



1. (CC) gcc options: -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops



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