



SPEC ACCEL™ OMP Result

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Cray

(Test Sponsor: Indiana University)

Intel Xeon E5-2697 v2

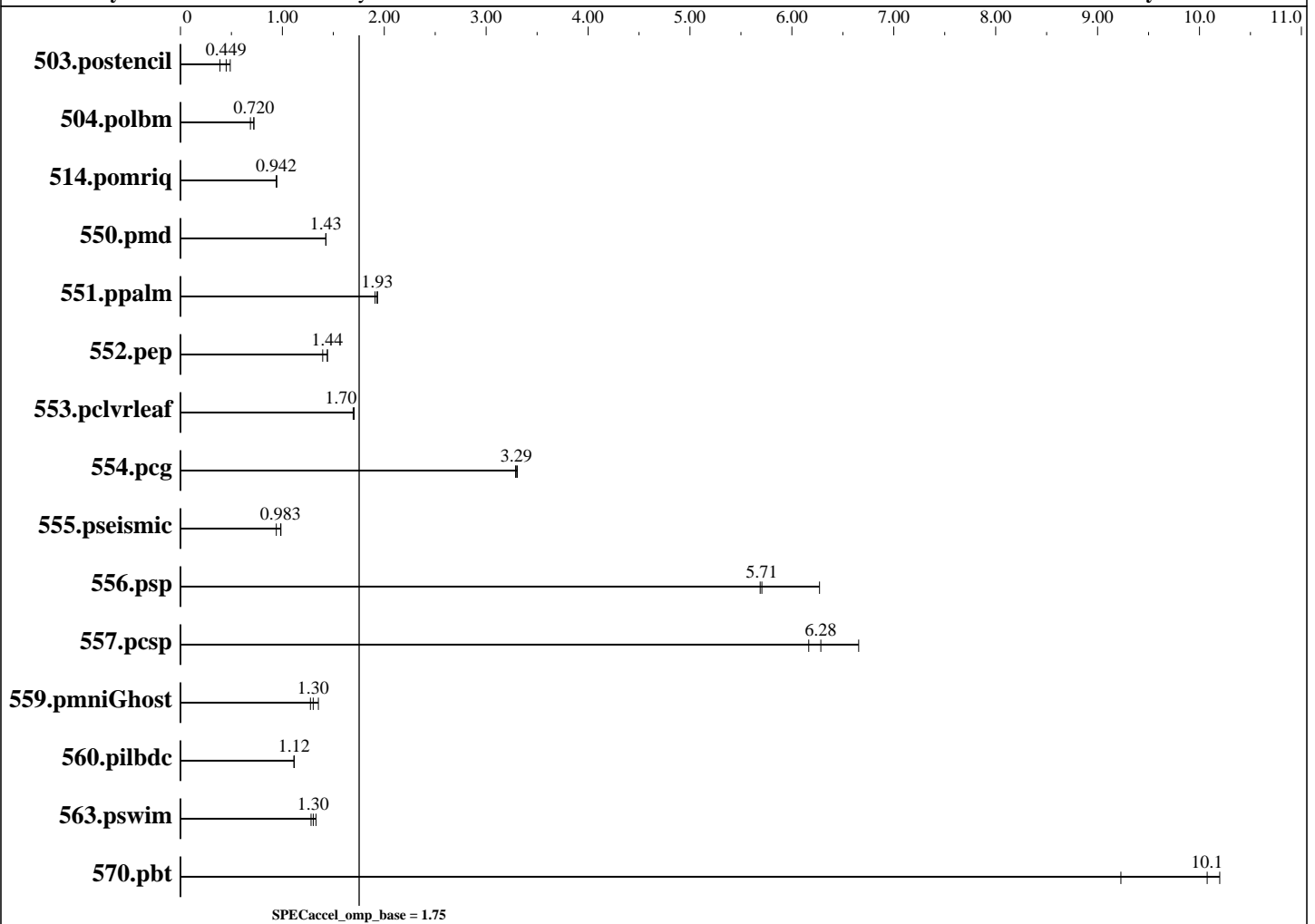
Cray XC30

SPECaccel_omp_peak = Not Run

SPECaccel_omp_base = 1.75

ACCEL license: 3440A
Test sponsor: Indiana University
Tested by: Indiana University

Test date: Aug-2017
Hardware Availability: Apr-2013
Software Availability: Mar-2017



Hardware

CPU Name: Intel Xeon E5-2697 v2
 CPU Characteristics: Intel Turbo Boost Technology off, Hyper-threading on.
 CPU MHz: 2700
 CPU MHz Maximum: 2700
 FPU: Integrated
 CPU(s) enabled: 24 cores, 2 chips, 12 cores/chip, 2 threads/core
 CPU(s) orderable: 1-2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 30 MB I+D on chip per chip

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Accelerator

Accel Model Name: Intel Xeon E5-2697 v2
 Accel Vendor: Intel
 Accel Name: Intel Xeon E5-2697 v2
 Type of Accel: CPU
 Accel Connection: N/A
 Does Accel Use ECC: Yes
 Accel Description: Intel Xeon E5-2697 v2 @ 2.7 GHz
 Accel Driver: None



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Hardware (Continued)

Other Cache: None
Memory: 64 GB (8 x 8 GB 2Rx4 PC3-14900R-13, ECC)
Disk Subsystem: None
Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64),
Cray Linux Environment 5.2,
3.0.101-0.46.1_1.0502.8871-cray_ari_c
Compiler: Version 17.0.2.174 of Intel Parallel Studio XE
for Linux Build 20170213
File System: Lustre 2.5 (DDN SFA12K) over QDR InfiniBand
System State: Run level 3 (multi-user)
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.postencil	281	0.388	243	0.449	223	0.488						
504.polbm	169	0.720	170	0.720	178	0.686						
514.pomriq	659	0.942	658	0.944	659	0.942						
550.pmd	169	1.43	169	1.43	169	1.43						
551.ppalm	281	1.93	285	1.91	282	1.93						
552.pep	165	1.40	160	1.44	160	1.44						
553.pclvrleaf	672	1.70	673	1.70	676	1.69						
554.pcg	101	3.29	101	3.29	101	3.31						
555.pseismic	286	0.986	300	0.940	287	0.983						
556.psp	130	6.27	144	5.69	143	5.71						
557.pcsp	139	6.17	129	6.66	137	6.28						
559.pmniGhost	311	1.28	293	1.35	305	1.30						
560.pilbdc	585	1.12	587	1.11	585	1.12						
563.pswim	124	1.28	120	1.33	122	1.30						
570.pbt	77.4	10.1	76.5	10.2	84.5	9.23						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

Sysinfo program /N/dc2/projects/hpc/lijunj/spec/accel-1.2-run/br2p/Docs/sysinfo
\$Rev: 6965 \$ \$Date:: 2015-04-21 #\$ c05a7f14b1b1765e3fe1df68447e8a35
running on nid00570 Sat Aug 12 19:54:36 2017

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Platform Notes (Continued)

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see: <http://www.spec.org/accel/Docs/config.html#sysinfo>

```
From /proc/cpuinfo
  model name : Intel(R) Xeon(R) CPU E5-2697 v2 @ 2.70GHz
    2 "physical id"s (chips)
    48 "processors"
  cores, siblings (Caution: counting these is hw and system dependent. The
  following excerpts from /proc/cpuinfo might not be reliable. Use with
  caution.)
    cpu cores : 12
    siblings  : 24
    physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 13
    physical 1: cores 0 1 2 3 4 5 8 9 10 11 12 13
  cache size : 30720 KB
```

```
From /proc/meminfo
MemTotal:      66072376 kB
HugePages_Total:    0
Hugepagesize:   2048 kB
```

```
/usr/bin/lsb_release -d
SUSE Linux Enterprise Server 11 (x86_64)
```

```
From /etc/*release* /etc/*version*
SuSE-release:
  SUSE Linux Enterprise Server 11 (x86_64)
  VERSION = 11
  PATCHLEVEL = 3
```

```
uname -a:
Linux nid00570 3.0.101-0.46.1_1.0502.8871-cray_ari_c #1 SMP Tue Jul 18
17:24:02 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
```

```
SPEC is set to: /N/dc2/projects/hpc/lijunj/spec/accel-1.2-run/br2p
Filesystem                Type      Size  Used Avail Use% Mounted
on
10.10.0.171@o2ib:10.10.0.172@o2ib:/dc2 lustre    5.3P  5.0P  198T  97% /N/dc2
```

Cannot run dmidecode; consider saying 'chmod +s /usr/sbin/dmidecode'

(End of data from sysinfo program)



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Base Compiler Invocation

C benchmarks:

icc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

503.postencil: -DSPEC_USE_INNER_SIMD
504.polbm: -DSPEC_USE_INNER_SIMD
514.pomriq: -DSPEC_USE_INNER_SIMD
550.pmd: -DSPEC_USE_INNER_SIMD -80
551.ppalm: -DSPEC_USE_INNER_SIMD
552.pep: -DSPEC_USE_INNER_SIMD
553.pclvrleaf: -DSPEC_USE_INNER_SIMD
554.pcg: -DSPEC_USE_INNER_SIMD
555.pseismic: -DSPEC_USE_INNER_SIMD
556.psp: -DSPEC_USE_INNER_SIMD
557.pcsp: -DSPEC_USE_INNER_SIMD
559.pmniGhost: -DSPEC_USE_INNER_SIMD -nofor-main
560.pilbdc: -DSPEC_USE_INNER_SIMD
563.pswim: -DSPEC_USE_INNER_SIMD
570.pbt: -DSPEC_USE_INNER_SIMD

Base Optimization Flags

C benchmarks:

-O3 -qopenmp -qopenmp-offload=host -xHost

Fortran benchmarks:

-O3 -qopenmp -qopenmp-offload=host -xHost

Benchmarks using both Fortran and C:

-O3 -qopenmp -qopenmp-offload=host -xHost

The flags file that was used to format this result can be browsed at

<https://www.spec.org/accel/flags/Intel-icc17.0-linux64.20170830.html>



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You can also download the XML flags source by saving the following link:

<https://www.spec.org/accel/flags/Intel-icc17.0-linux64.20170830.xml>

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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