SPEC ACCEL™ OMP Result

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Asus
(Test Sponsor: HZDR)

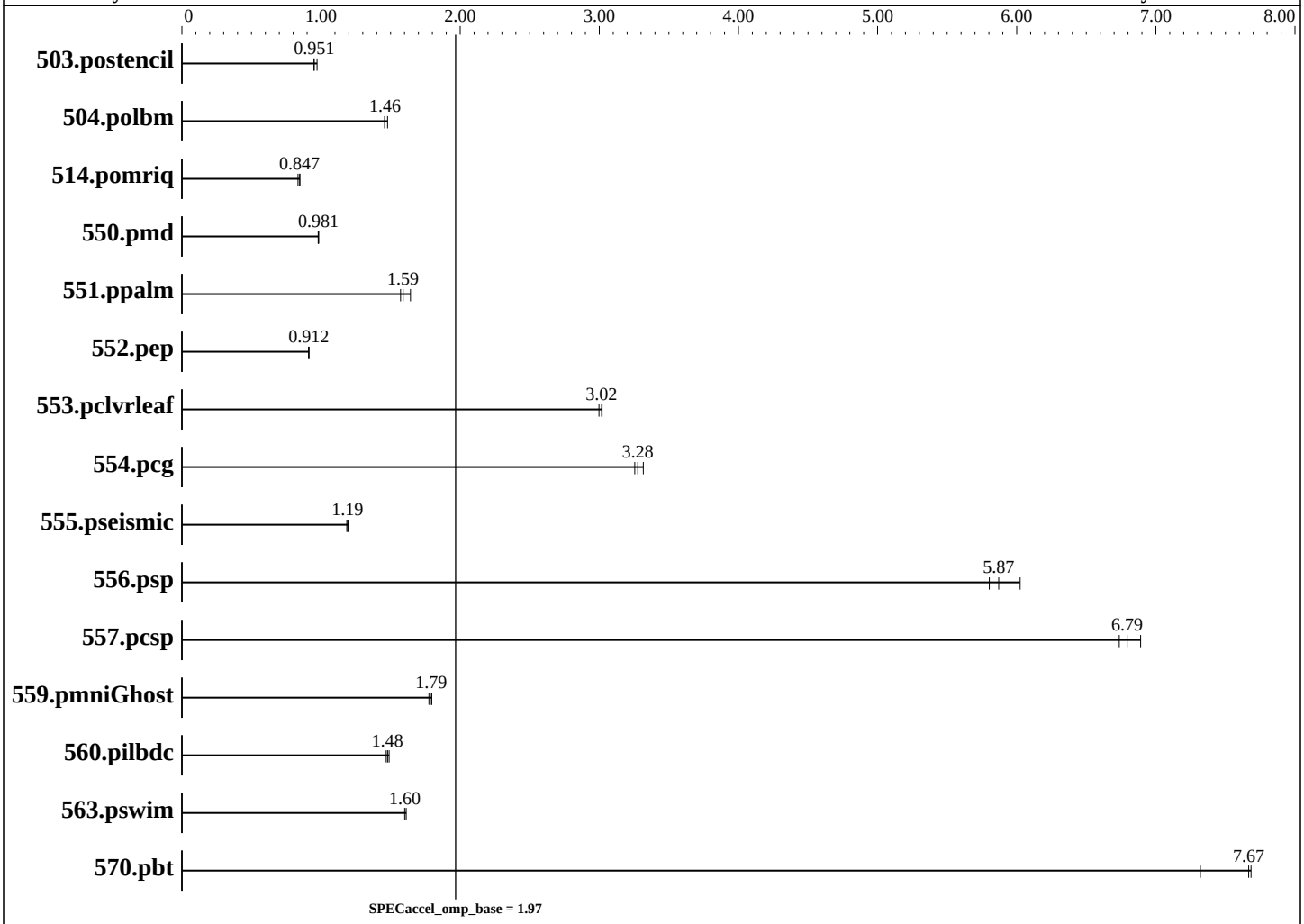
Intel Xeon CPU E5-2630 v3
ASUS ESC4000 G3 Series

SPECaccel_omp_peak = Not Run

SPECaccel_omp_base = 1.97

ACCEL license: 65A
Test sponsor: HZDR
Tested by: HZDR

Test date: Jul-2017
Hardware Availability: Sep-2013
Software Availability: Mar-2015



Hardware

CPU Name:	Intel Xeon E5-2630 v3
CPU Characteristics:	Intel Turbo Boost Technology up to 3.20 GHz AVX clock: 2100 MHz
CPU MHz:	2400
CPU MHz Maximum:	3200
FPU:	Integrated
CPU(s) enabled:	16 cores, 2 chips, 8 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:	20 MB I+D on chip per chip

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Accelerator

Accel Model Name:	Intel Xeon CPU E5-2630 v3
Accel Vendor:	Intel
Accel Name:	Intel Xeon CPU E5-2630 v3
Type of Accel:	CPU
Accel Connection:	N/A
Does Accel Use ECC:	yes
Accel Description:	Intel Xeon CPU E5-2630 v3 @ 2.40GHz Turbo ON, SMT ON
Accel Driver:	

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Hardware (Continued)

Other Cache: None
Memory: 256 GB (16 x 16 GB 2Rx4 PC4-17000R-15, ECC, running at 1866 MHz)
Disk Subsystem: 128 GB Samsung SSD 850 PRO
Other Hardware: --

Software

Operating System: Ubuntu 14.04.5 LTS 4.4.0-38-generic
Compiler: C/C++/Fortran: Version 17.0.2.174 of the Intel Compilers
File System: ext3
System State: Run level 5 (user-level)
Other Software:

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.postencil	**115**	**0.951**	112	0.971	115	0.949						
504.polbm	**83.6**	**1.46**	83.8	1.46	82.5	1.48						
514.pomriq	744	0.834	**733**	**0.847**	732	0.848						
550.pmd	**246**	**0.981**	246	0.980	245	0.983						
551.ppalm	**342**	**1.59**	346	1.57	331	1.64						
552.pep	254	0.911	253	0.913	**253**	**0.912**						
553.pclvrleaf	**380**	**3.02**	379	3.02	382	3.00						
554.pcg	102	3.25	100	3.32	**102**	**3.28**						
555.pseismic	236	1.19	238	1.18	**237**	**1.19**						
556.psp	136	6.02	**139**	**5.87**	141	5.80						
557.pcsp	125	6.89	128	6.74	**126**	**6.79**						
559.pmniGhost	**221**	**1.79**	221	1.80	224	1.78						
560.pilbdc	438	1.49	445	1.47	**442**	**1.48**						
563.pswim	98.6	1.61	**99.2**	**1.60**	100	1.59						
570.pbt	107	7.32	**102**	**7.67**	102	7.68						

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

Platform Notes

```
Sysinfo program /tmp/spec/1.2/Docs/sysinfo
$Rev: 6965 $ $Date:: 2015-04-21 #$ c05a7f14b1b1765e3fe1df68447e8a35
running on kepler028-gsi Wed Jul  5 11:51:03 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 E5-2630 v3 @ 2.40GHz
      2 "physical id"s (chips)
      32 "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 : 8
      siblings  : 16
      physical 0: cores 0 1 2 3 4 5 6 7
      physical 1: cores 0 1 2 3 4 5 6 7
   cache size : 20480 KB

From /proc/meminfo
   MemTotal:       264058960 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB

/usr/bin/lsb_release -d
   Ubuntu 14.04.5 LTS

From /etc/*release* /etc/*version*
   debian_version: jessie/sid
   os-release:
      NAME="Ubuntu"
      VERSION="14.04.5 LTS, Trusty Tahr"
      ID=ubuntu
      ID_LIKE=debian
      PRETTY_NAME="Ubuntu 14.04.5 LTS"
      VERSION_ID="14.04"
      HOME_URL="http://www.ubuntu.com/"
      SUPPORT_URL="http://help.ubuntu.com/"
   rh-release: Red Hat Enterprise Linux Server release 7.2 (Maipo)

uname -a:
   Linux kepler028-gsi 4.4.0-38-generic #57~14.04.1-Ubuntu SMP Tue Sep 6
   17:20:43 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux

run-level 5 Dec 16 18:14

SPEC is set to: /tmp/spec/1.2
   Filesystem     Type  Size  Used Avail Use% Mounted on
   /dev/sda1      ext3   44G   19G   24G  44% /

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

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Platform Notes (Continued)

```
(End of data from sysinfo program)
```

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`

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The flags file that was used to format this result can be browsed at
`https://www.spec.org/accel/flags/Intel-icc17.0-linux64.20170906.html`

You can also download the XML flags source by saving the following link:
`https://www.spec.org/accel/flags/Intel-icc17.0-linux64.20170906.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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