



SPEC ACCEL™ OMP Result

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Asus

(Test Sponsor: HZDR)

Intel Xeon CPU E5-2630 v3

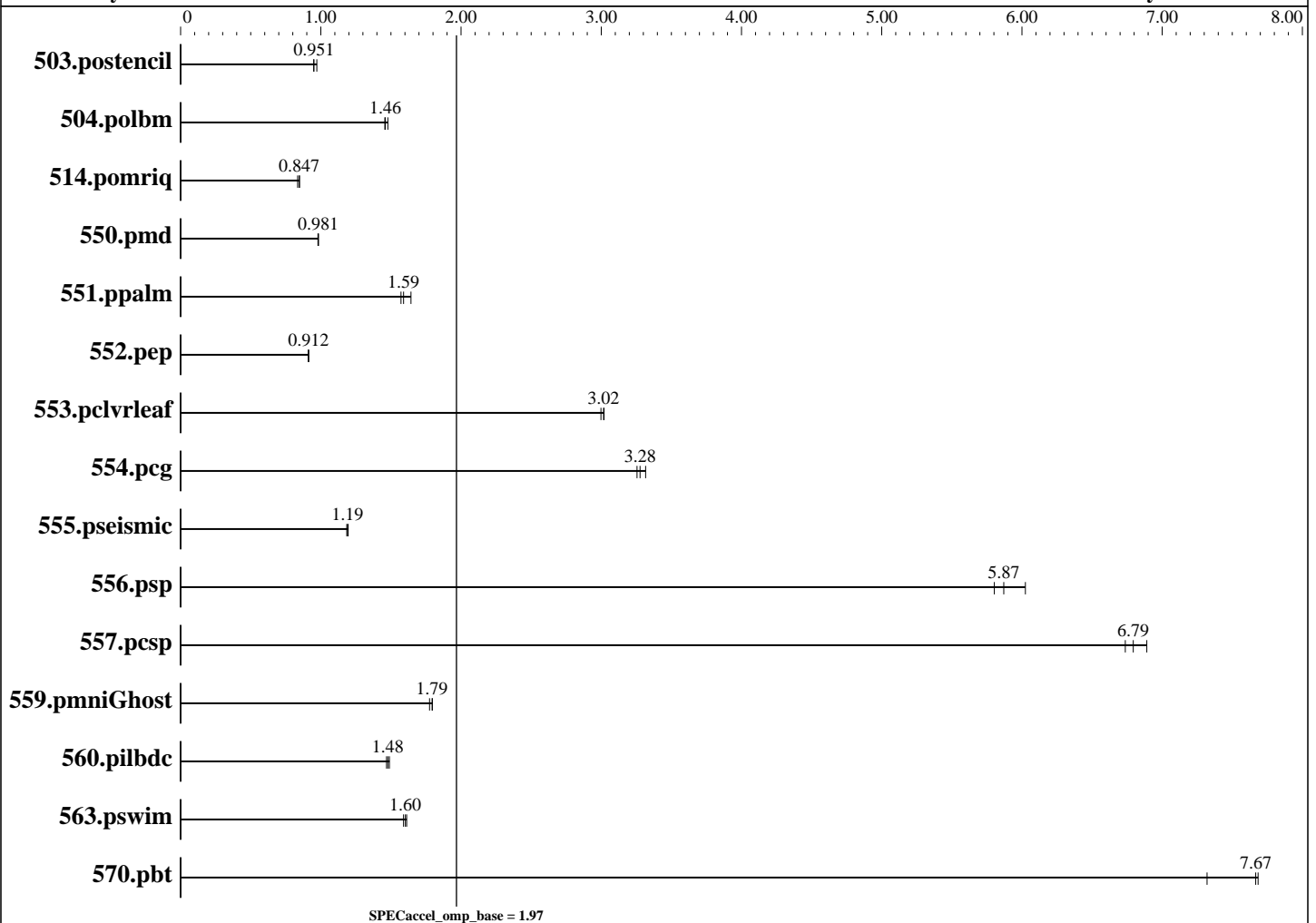
ASUS ESC4000 G3 Series

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.pmiGhost	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/sdal       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.pfsp: -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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