



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®2006 = **Not Run**

ProLiant DL180 G6 (2.4 GHz, Intel Xeon E5620)

SPECint_base2006 = **25.7**

CPU2006 license: 3

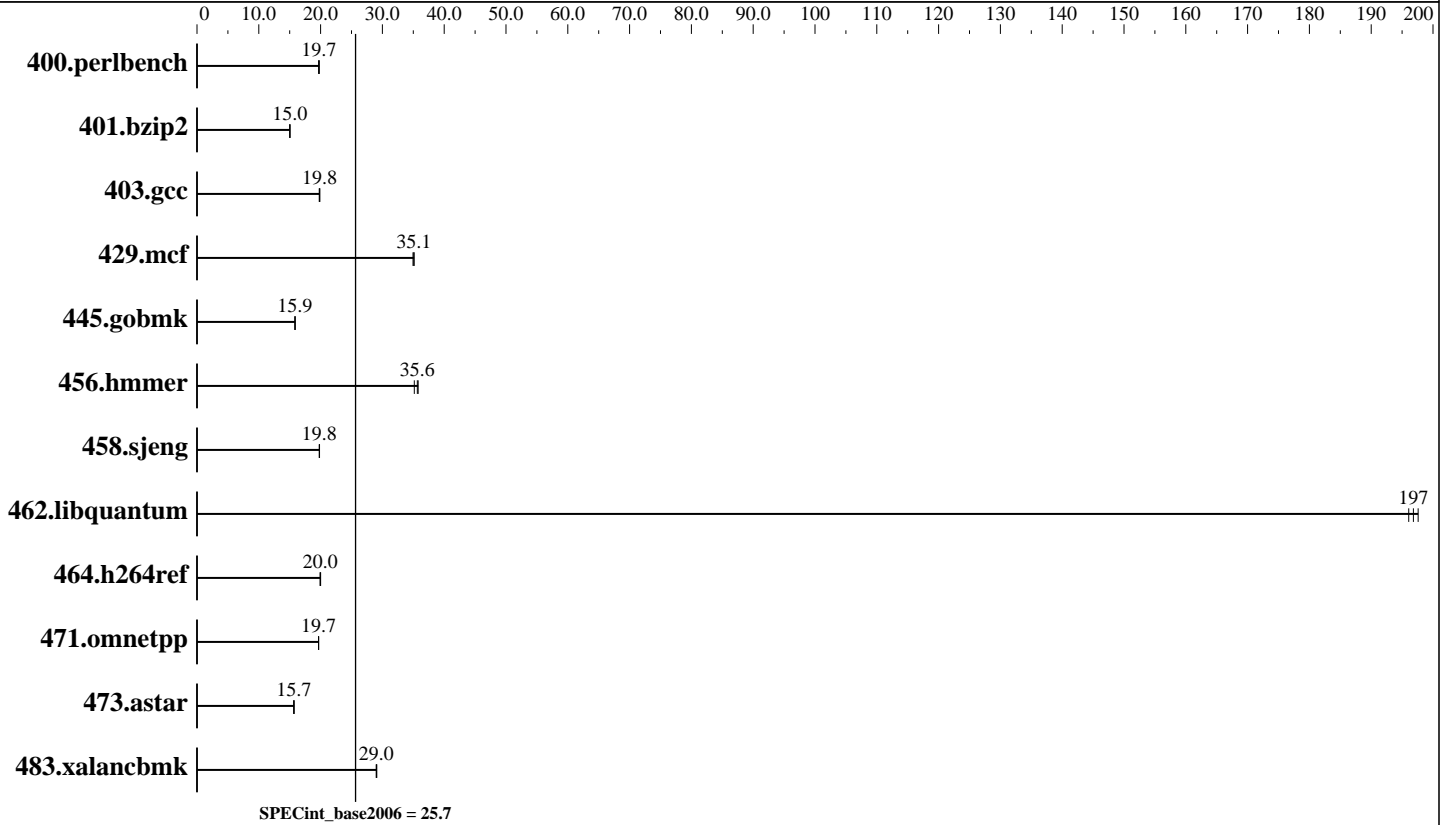
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Nov-2010

Hardware Availability: Mar-2010

Software Availability: Apr-2010



Hardware

CPU Name: Intel Xeon E5620
 CPU Characteristics: Intel Turbo Boost Technology up to 2.67 GHz
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1,2 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core
 L3 Cache: 12 MB I+D on chip per chip
 Other Cache: None
 Memory: 8 GB (2 x 4 GB 2Rx4 PC3-10600R-9, ECC)
 Disk Subsystem: 2 x 160 GB 7.2 K SATA
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux Server release 5.5
 Kernel 2.6.18-194.el5
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1
 Build 20091130 Package ID: 1_cproc_p_11.1.064
 Auto Parallel: Yes
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other Software: Microquill SmartHeap V8.1



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Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|----------------|-------------|-------------|------------|-------------|------------|-------------|---------|-------|---------|-------|---------|-------|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 496 | 19.7 | 494 | 19.8 | 495 | 19.7 | | | | | | |
| 401.bzip2 | 643 | 15.0 | 642 | 15.0 | 642 | 15.0 | | | | | | |
| 403.gcc | 407 | 19.8 | 405 | 19.9 | 406 | 19.8 | | | | | | |
| 429.mcf | 261 | 35.0 | 260 | 35.1 | 260 | 35.1 | | | | | | |
| 445.gobmk | 661 | 15.9 | 662 | 15.8 | 660 | 15.9 | | | | | | |
| 456.hammer | 265 | 35.2 | 261 | 35.8 | 262 | 35.6 | | | | | | |
| 458.sjeng | 610 | 19.8 | 612 | 19.8 | 611 | 19.8 | | | | | | |
| 462.libquantum | 106 | 196 | 105 | 198 | 105 | 197 | | | | | | |
| 464.h264ref | 1109 | 20.0 | 1106 | 20.0 | 1111 | 19.9 | | | | | | |
| 471.omnetpp | 318 | 19.7 | 318 | 19.7 | 318 | 19.7 | | | | | | |
| 473.astar | 448 | 15.7 | 447 | 15.7 | 448 | 15.7 | | | | | | |
| 483.xalancbmk | 237 | 29.1 | 238 | 29.0 | 238 | 29.0 | | | | | | |

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

Platform Notes

BIOS configuration:
Power Efficiency set to Performance

General Notes

OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to granularity=fine,scatter
Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

Base Compiler Invocation

C benchmarks:
icc -m64

C++ benchmarks:
icpc -m64



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Base Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

```

Base Optimization Flags

C benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch`

C++ benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64`

Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revF.20101118.html>

<http://www.spec.org/cpu2006/flags/HP-Intel-Linux-Settings-flags.20101221.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revF.20101118.xml>

<http://www.spec.org/cpu2006/flags/HP-Intel-Linux-Settings-flags.20101221.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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