



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 134

ProLiant DL380 G5
(3.0 GHz, Intel Xeon E5450)

SPECint_rate_base2006 = 108

CPU2006 license: 3

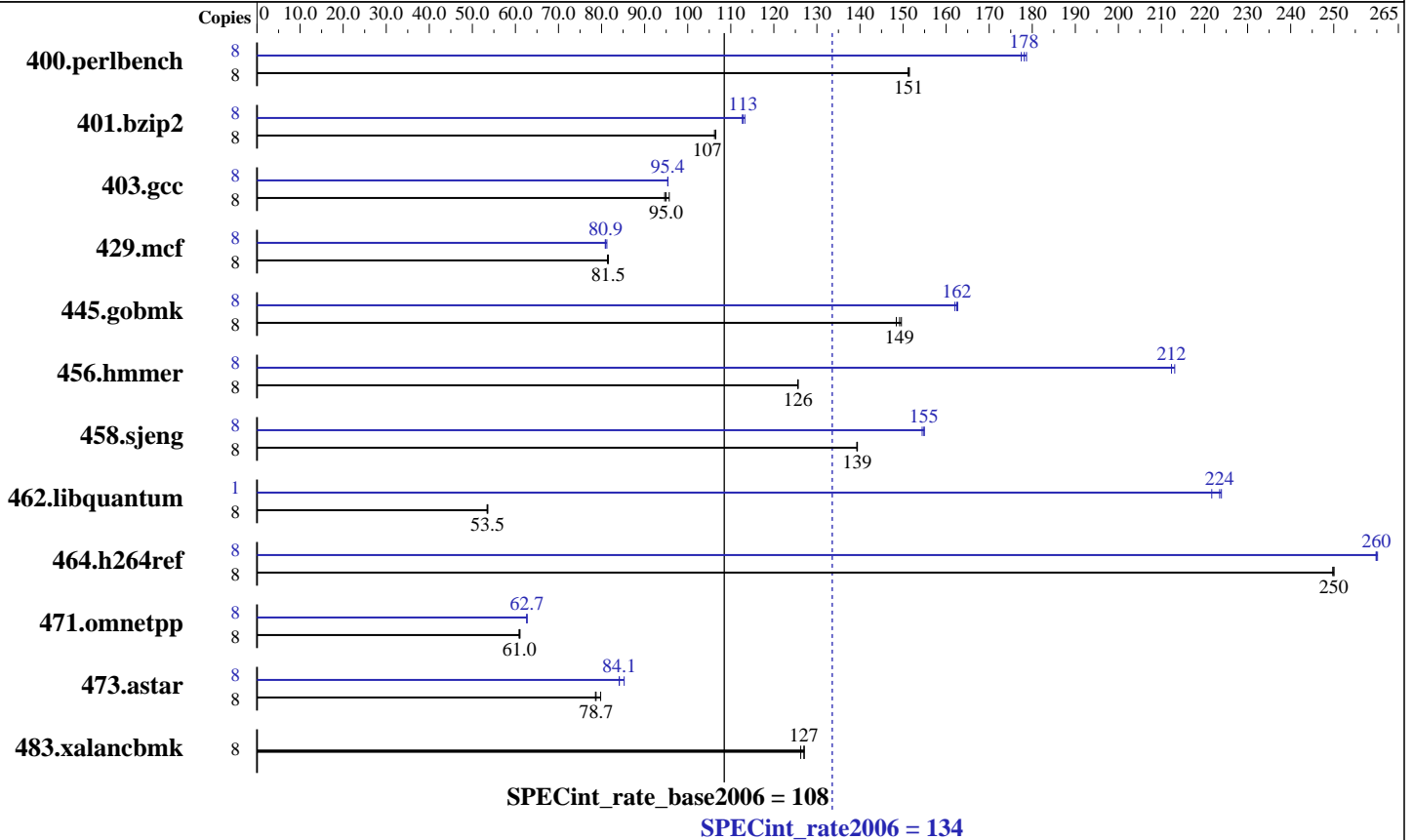
Test date: Sep-2008

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jan-2008

Tested by: Hewlett-Packard Company

Software Availability: Jun-2008



Hardware

CPU Name: Intel Xeon E5450
 CPU Characteristics: 3.0 GHz, 2x6 MB L2 shared, 1333 MHz system bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB PC2-5300F CL5)
 Disk Subsystem: 1x146 GB 15 K SAS
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: Intel C++ Compiler 10.1 for Linux Build 20080602 Package ID: l_cc_p_10.1.017
 Auto Parallel: Yes
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 8.1 binutils-2.17.50



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	516	151	<u>517</u>	<u>151</u>	517	151	8	<u>439</u>	<u>178</u>	437	179	440	177
401.bzip2	8	725	107	<u>725</u>	<u>107</u>	727	106	8	<u>684</u>	<u>113</u>	682	113	685	113
403.gcc	8	673	95.7	<u>678</u>	<u>95.0</u>	680	94.7	8	<u>675</u>	<u>95.4</u>	675	95.4	675	95.4
429.mcf	8	<u>895</u>	<u>81.5</u>	897	81.4	894	81.6	8	898	81.2	<u>901</u>	<u>80.9</u>	902	80.9
445.gobmk	8	<u>562</u>	<u>149</u>	561	150	565	148	8	516	163	518	162	<u>517</u>	<u>162</u>
456.hmmer	8	<u>594</u>	<u>126</u>	594	126	594	126	8	350	213	352	212	<u>352</u>	<u>212</u>
458.sjeng	8	695	139	<u>695</u>	<u>139</u>	694	139	8	627	154	<u>625</u>	<u>155</u>	625	155
462.libquantum	8	3103	53.4	<u>3098</u>	<u>53.5</u>	3093	53.6	1	93.5	222	92.5	224	<u>92.7</u>	<u>224</u>
464.h264ref	8	708	250	<u>708</u>	<u>250</u>	709	250	8	681	260	<u>681</u>	<u>260</u>	680	260
471.omnetpp	8	822	60.8	<u>820</u>	<u>61.0</u>	819	61.1	8	798	62.7	<u>798</u>	<u>62.7</u>	798	62.6
473.astar	8	704	79.8	715	78.6	<u>713</u>	<u>78.7</u>	8	<u>667</u>	<u>84.1</u>	659	85.2	668	84.1
483.xalancbmk	8	437	126	434	127	<u>435</u>	<u>127</u>	8	437	126	434	127	<u>435</u>	<u>127</u>

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
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
KMP_STACKSIZE set to 64M

Platform Notes

BIOS configuration:
Power Regulator set to Static High Performance Mode
Adjacent Sector Prefetch Disabled

General Notes

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer, for peak, are compiled in 64-bit mode

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/cpu2006/SmartHeap_8.1/lib -lsmartheap

Base Other Flags

C benchmarks:
403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

401.bzip2: /opt/intel/cce/10.1.017/bin/icc
-L/opt/intel/cce/10.1.017/lib
-I/opt/intel/cce/10.1.017/include

456.hmmmer: /opt/intel/cce/10.1.017/bin/icc
-L/opt/intel/cce/10.1.017/lib
-I/opt/intel/cce/10.1.017/include

C++ benchmarks:
icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX

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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/cpu2006/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/cpu2006/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

Continued on next page



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Peak Other Flags (Continued)

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/HP-Intel-ic10.1-linux-int-flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/HP-Intel-ic10.1-linux-int-flags.xml>

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.1.
Report generated on Tue Jul 22 22:15:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 14 October 2008.