



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 116

ProLiant DL380 G5
(3.0 GHz, Intel Xeon processor X5365)

SPECint_rate_base2006 = 97.4

CPU2006 license: 3

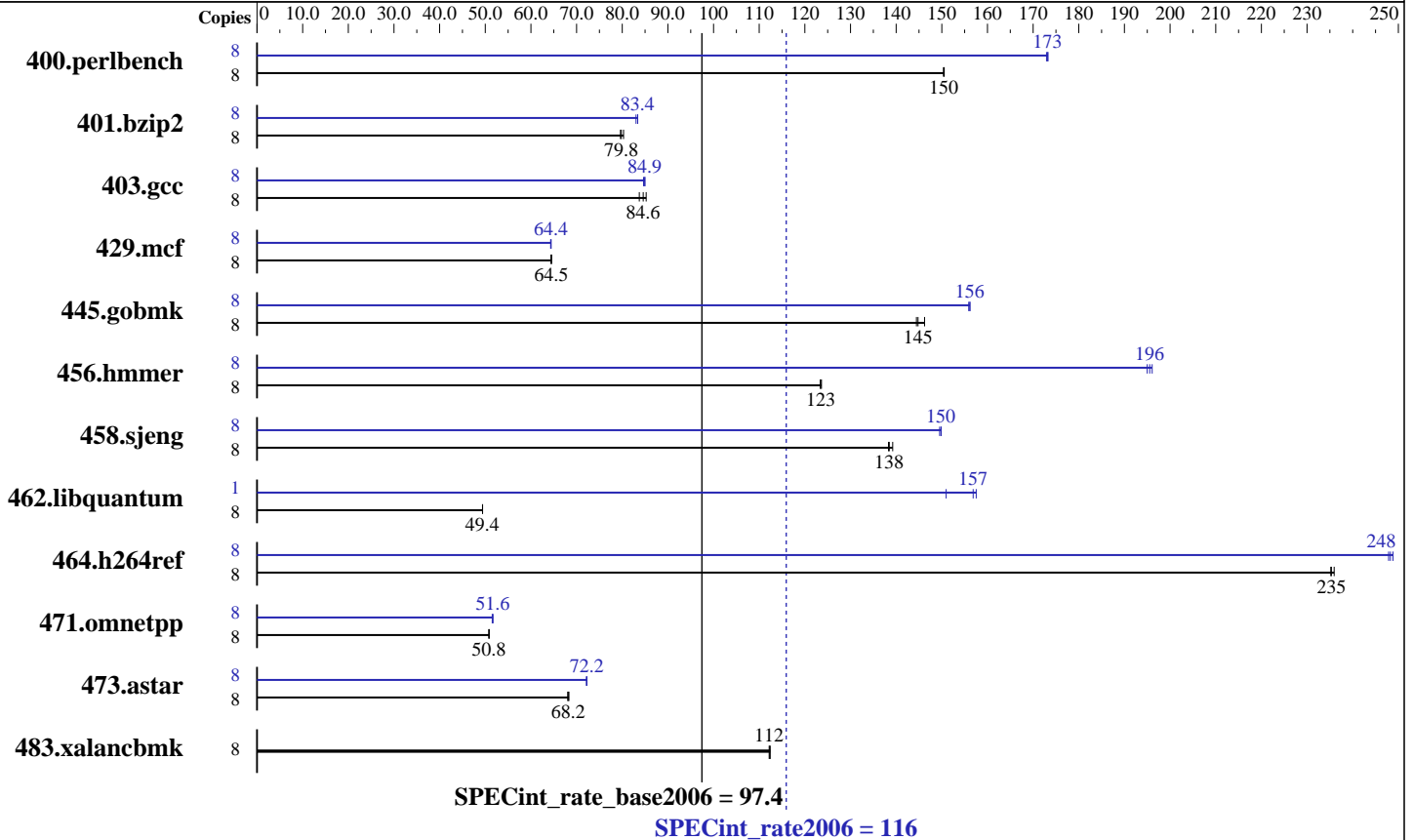
Test date: Aug-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2007

Tested by: Hewlett-Packard Company

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5365
 CPU Characteristics: 3.0 GHz, 2x4 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2 GB PC2-5300F CL5)
 Disk Subsystem: 1x72 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 for Linux32 and Linux64
 version 10.1
 Build 20070725
 Auto Parallel: Yes
 File System: ext2
 System State: Multi-user run level 3
 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 | 519 | 151 | 520 | 150 | <u>519</u> | <u>150</u> | 8 | 452 | 173 | 451 | 173 | <u>451</u> | <u>173</u> |
| 401.bzip2 | 8 | 962 | 80.3 | 970 | 79.6 | <u>967</u> | <u>79.8</u> | 8 | 926 | 83.4 | 930 | 83.0 | <u>926</u> | <u>83.4</u> |
| 403.gcc | 8 | 769 | 83.7 | <u>761</u> | <u>84.6</u> | 756 | 85.2 | 8 | <u>758</u> | <u>84.9</u> | 758 | 85.0 | 761 | 84.7 |
| 429.mcf | 8 | 1133 | 64.4 | <u>1131</u> | <u>64.5</u> | 1131 | 64.5 | 8 | 1133 | 64.4 | <u>1133</u> | <u>64.4</u> | 1134 | 64.3 |
| 445.gobmk | 8 | 574 | 146 | 581 | 144 | <u>580</u> | <u>145</u> | 8 | 537 | 156 | <u>537</u> | <u>156</u> | 538 | 156 |
| 456.hammer | 8 | 605 | 123 | 604 | 124 | <u>605</u> | <u>123</u> | 8 | 383 | 195 | <u>382</u> | <u>196</u> | 381 | 196 |
| 458.sjeng | 8 | <u>699</u> | <u>138</u> | 695 | 139 | 700 | 138 | 8 | <u>646</u> | <u>150</u> | 646 | 150 | 647 | 150 |
| 462.libquantum | 8 | 3355 | 49.4 | 3356 | 49.4 | <u>3356</u> | <u>49.4</u> | 1 | 132 | 158 | <u>132</u> | <u>157</u> | 137 | 151 |
| 464.h264ref | 8 | 750 | 236 | <u>752</u> | <u>235</u> | 753 | 235 | 8 | 711 | 249 | 714 | 248 | <u>713</u> | <u>248</u> |
| 471.omnetpp | 8 | <u>984</u> | <u>50.8</u> | 984 | 50.8 | 984 | 50.8 | 8 | 968 | 51.7 | <u>968</u> | <u>51.6</u> | 971 | 51.5 |
| 473.astar | 8 | 822 | 68.3 | <u>824</u> | <u>68.2</u> | 825 | 68.1 | 8 | 778 | 72.2 | <u>778</u> | <u>72.2</u> | 777 | 72.2 |
| 483.xalancbmk | 8 | <u>492</u> | <u>112</u> | 492 | 112 | 491 | 112 | 8 | <u>492</u> | <u>112</u> | 492 | 112 | 491 | 112 |

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

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32

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Base Portability Flags (Continued)

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/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

456.hmmer: /home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmplr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX



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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/home/cmplr/usr3/alrahate/cpu2006.1.0/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/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca



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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-flags.20090714.01.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-flags.20090714.01.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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