



SPEC® CINT2006 Result

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Hewlett-Packard Company

ProLiant DL380 G5
(2.33 GHz, Intel Xeon processor 5140)

SPECint_rate2006 = 58.5

SPECint_rate_base2006 = 51.3

CPU2006 license: 3

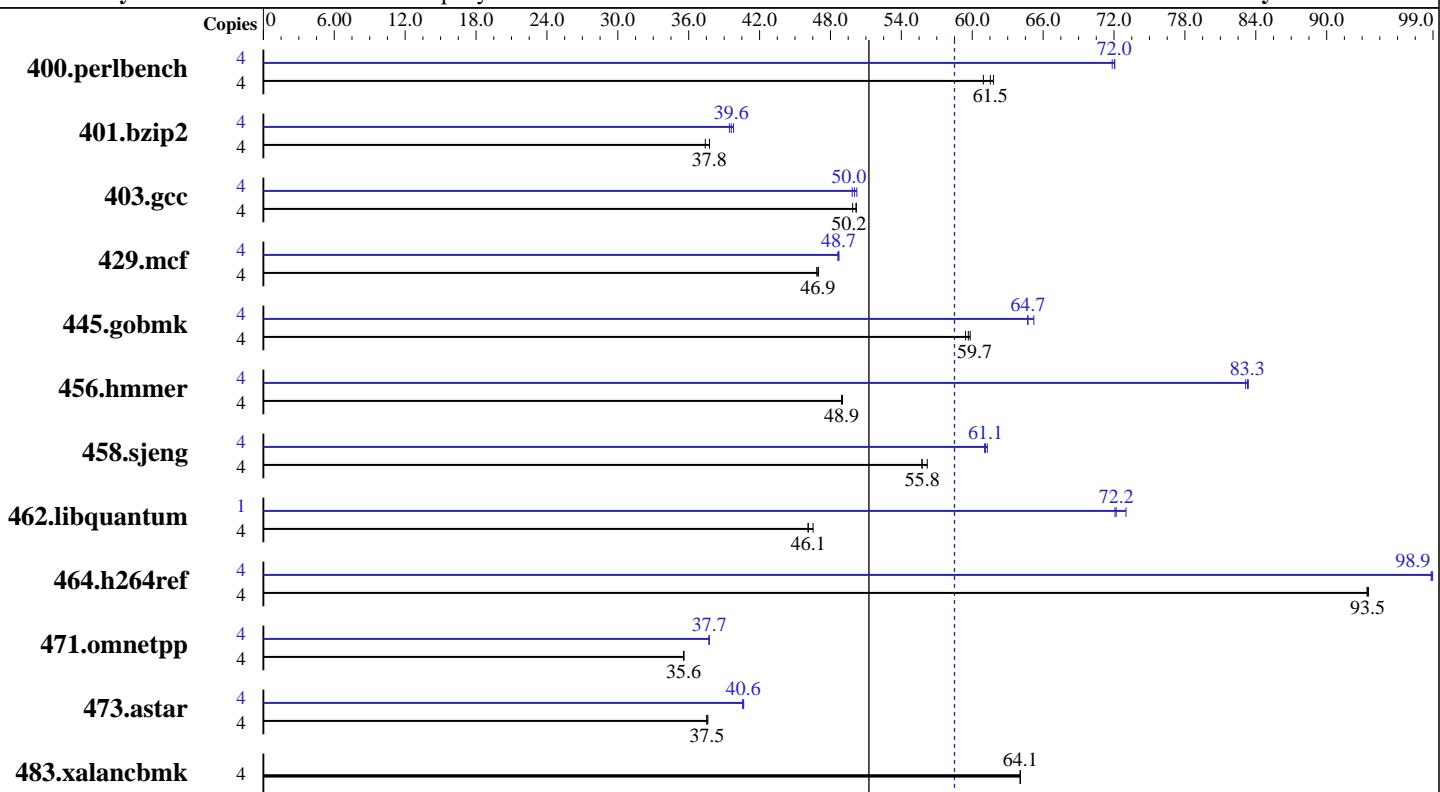
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Sep-2007

Hardware Availability: Jun-2006

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Xeon 5140
CPU Characteristics: 2.33 GHz, 2x4 MB L2 shared, 1333 MHz system bus
CPU MHz: 2333
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1 or 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 8 GB (8x1 GB PC2-5300F CL5)
Disk Subsystem: 1x72 GB 10 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 | 4 | 632 | 61.8 | 635 | 61.5 | 641 | 60.9 | 4 | 542 | 72.0 | 542 | 72.1 | 544 | 71.8 |
| 401.bzip2 | 4 | 1022 | 37.8 | 1032 | 37.4 | 1022 | 37.8 | 4 | 970 | 39.8 | 979 | 39.4 | 975 | 39.6 |
| 403.gcc | 4 | 646 | 49.9 | 642 | 50.2 | 642 | 50.2 | 4 | 643 | 50.0 | 641 | 50.2 | 646 | 49.8 |
| 429.mcf | 4 | 776 | 47.0 | 779 | 46.8 | 777 | 46.9 | 4 | 749 | 48.7 | 750 | 48.6 | 749 | 48.7 |
| 445.gobmk | 4 | 706 | 59.4 | 701 | 59.8 | 703 | 59.7 | 4 | 648 | 64.7 | 649 | 64.7 | 643 | 65.2 |
| 456.hmmer | 4 | 762 | 48.9 | 761 | 49.0 | 762 | 48.9 | 4 | 448 | 83.4 | 448 | 83.3 | 449 | 83.1 |
| 458.sjeng | 4 | 861 | 56.2 | 868 | 55.7 | 868 | 55.8 | 4 | 790 | 61.3 | 793 | 61.0 | 792 | 61.1 |
| 462.libquantum | 4 | 1798 | 46.1 | 1797 | 46.1 | 1781 | 46.5 | 1 | 287 | 72.1 | 287 | 72.2 | 284 | 73.0 |
| 464.h264ref | 4 | 948 | 93.4 | 946 | 93.5 | 947 | 93.5 | 4 | 895 | 98.9 | 894 | 99.0 | 896 | 98.8 |
| 471.omnetpp | 4 | 702 | 35.6 | 703 | 35.6 | 703 | 35.6 | 4 | 662 | 37.7 | 663 | 37.7 | 663 | 37.7 |
| 473.astar | 4 | 748 | 37.5 | 746 | 37.6 | 748 | 37.5 | 4 | 691 | 40.6 | 692 | 40.6 | 691 | 40.7 |
| 483.xalancbmk | 4 | 431 | 64.1 | 431 | 64.1 | 431 | 64.1 | 4 | 431 | 64.1 | 431 | 64.1 | 431 | 64.1 |

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/cmpllr/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/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/include

456.hmmr: /home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/bin/icc
-L/home/cmpllr/usr3/alrahate/compilers/ic10.1mainline/20070725/Linux64/lib
-I/home/cmpllr/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.hmmr: -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 -O0 -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.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.xml>

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

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