



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 46.4

HP Integrity BL860c
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint_rate_base2006 = 43.9

CPU2006 license: 03

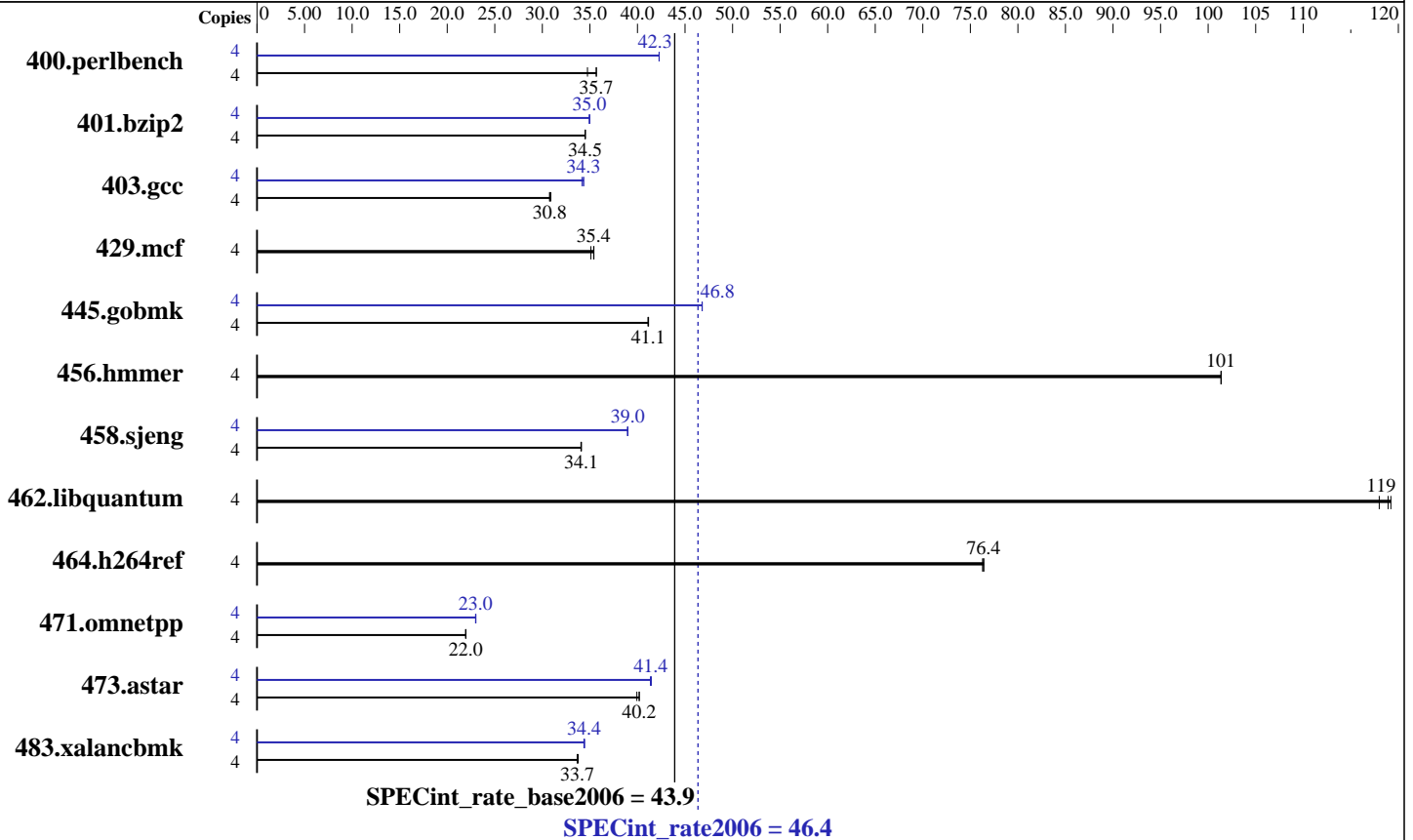
Test date: Jan-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Feb-2007

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
 CPU Characteristics: 1.6GHz/18MB, 533MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1-2 chips
 Primary Cache: 16 KB I + 16 KB D on chip per core
 Secondary Cache: 1 MB I + 256 KB D on chip per core
 L3 Cache: 9 MB I+D on chip per core
 Other Cache: None
 Memory: 12 GB (12x1GB DIMMs)
 Disk Subsystem: 36GB 10K RPM SAS
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)
 Compiler: Intel C++ Compiler 9.1 for Linux (Build 20061105)
 Auto Parallel: No
 File System: ext3
 System State: Multi-user
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: MicroQuill Smartheap 8.0



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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 | 1125 | 34.7 | 1096 | 35.7 | 1095 | 35.7 | 4 | 924 | 42.3 | 924 | 42.3 | 924 | 42.3 | | |
| 401.bzip2 | 4 | 1119 | 34.5 | 1118 | 34.5 | 1119 | 34.5 | 4 | 1104 | 35.0 | 1104 | 35.0 | 1105 | 34.9 | | |
| 403.gcc | 4 | 1042 | 30.9 | 1046 | 30.8 | 1047 | 30.8 | 4 | 943 | 34.2 | 938 | 34.3 | 938 | 34.3 | | |
| 429.mcf | 4 | 1031 | 35.4 | 1030 | 35.4 | 1039 | 35.1 | 4 | 1031 | 35.4 | 1030 | 35.4 | 1039 | 35.1 | | |
| 445.gobmk | 4 | 1020 | 41.1 | 1019 | 41.2 | 1020 | 41.1 | 4 | 897 | 46.8 | 897 | 46.8 | 896 | 46.8 | | |
| 456.hmmer | 4 | 368 | 101 | 368 | 101 | 368 | 101 | 4 | 368 | 101 | 368 | 101 | 368 | 101 | | |
| 458.sjeng | 4 | 1420 | 34.1 | 1419 | 34.1 | 1421 | 34.1 | 4 | 1241 | 39.0 | 1242 | 39.0 | 1242 | 39.0 | | |
| 462.libquantum | 4 | 697 | 119 | 695 | 119 | 702 | 118 | 4 | 697 | 119 | 695 | 119 | 702 | 118 | | |
| 464.h264ref | 4 | 1160 | 76.3 | 1158 | 76.4 | 1159 | 76.4 | 4 | 1160 | 76.3 | 1158 | 76.4 | 1159 | 76.4 | | |
| 471.omnetpp | 4 | 1139 | 22.0 | 1139 | 21.9 | 1139 | 22.0 | 4 | 1088 | 23.0 | 1088 | 23.0 | 1086 | 23.0 | | |
| 473.astar | 4 | 699 | 40.2 | 699 | 40.2 | 703 | 39.9 | 4 | 679 | 41.4 | 678 | 41.4 | 677 | 41.5 | | |
| 483.xalancbmk | 4 | 820 | 33.7 | 817 | 33.8 | 819 | 33.7 | 4 | 803 | 34.4 | 801 | 34.5 | 803 | 34.4 | | |

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

Operating System Notes

stacksize set to unlimited prior to run

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_IA64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -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

Continued on next page



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Base Portability Flags (Continued)

473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast -IPF_fp_relaxed -ansi-alias

C++ benchmarks:

-fast -IPF_fp_relaxed -ansi-alias -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

Peak Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: basepeak = yes

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Peak Optimization Flags (Continued)

458.sjeng: Same as 400.perlbench

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias -inline-factor=150 -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

483.xalancbmk: Same as 471.omnetpp

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.00.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.00.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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