



SPEC® CINT2006 Result

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HITACHI

SPECint®_rate2006 = 370

BladeSymphony BS2000 (Intel Xeon X5680)

SPECint_rate_base2006 = 346

CPU2006 license: 872

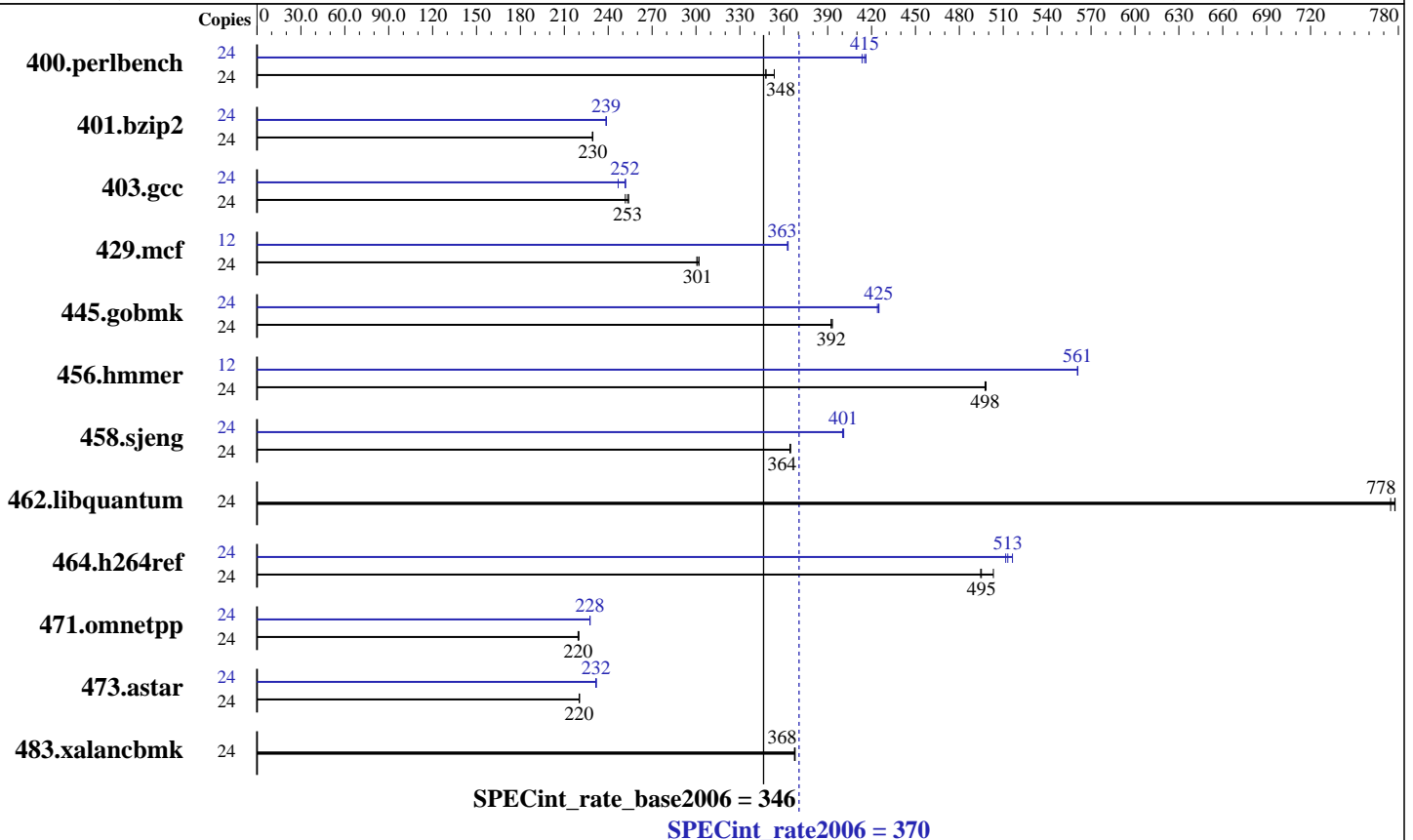
Test date: Apr-2010

Test sponsor: HITACHI

Hardware Availability: Apr-2010

Tested by: HITACHI

Software Availability: Dec-2009



Hardware

CPU Name: Intel Xeon X5680
 CPU Characteristics: Intel Turbo Boost Technology up to 3.6 GHz
 CPU MHz: 3333
 FPU: Integrated
 CPU(s) enabled: 12 cores, 2 chips, 6 cores/chip, 2 threads/core
 CPU(s) orderable: 1, 2 chips
 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: 48 GB(6 x 8 GB PC3-10600R running at 1333 MHz, 2 rank)
 Disk Subsystem: 4 x 147 GB 10000 rpm SAS
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux Server release 5.4.3, Advanced Platform, Kernel 2.6.18-164.9.1.el5 on an x86_64
 Compiler: Intel C++ Compiler 11.1 for Linux Build 20091012 Package ID: l_cproc_p_11.1.059
 Auto Parallel: No
 File System: ext3
 System State: Multi-user run level 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1



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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 | 24 | 674 | 348 | 674 | 348 | 663 | 353 | 24 | 567 | 413 | 563 | 416 | 565 | 415 |
| 401.bzip2 | 24 | 1011 | 229 | 1009 | 230 | 1009 | 230 | 24 | 971 | 239 | 970 | 239 | 970 | 239 |
| 403.gcc | 24 | 761 | 254 | 763 | 253 | 768 | 252 | 24 | 767 | 252 | 783 | 247 | 768 | 252 |
| 429.mcf | 24 | 728 | 301 | 724 | 302 | 727 | 301 | 12 | 302 | 363 | 302 | 363 | 302 | 363 |
| 445.gobmk | 24 | 640 | 393 | 642 | 392 | 642 | 392 | 24 | 592 | 425 | 592 | 425 | 594 | 424 |
| 456.hammer | 24 | 449 | 498 | 450 | 498 | 450 | 498 | 12 | 200 | 561 | 200 | 561 | 200 | 561 |
| 458.sjeng | 24 | 796 | 365 | 797 | 364 | 797 | 364 | 24 | 724 | 401 | 725 | 401 | 726 | 400 |
| 462.libquantum | 24 | 642 | 775 | 640 | 778 | 639 | 778 | 24 | 642 | 775 | 640 | 778 | 639 | 778 |
| 464.h264ref | 24 | 1055 | 503 | 1073 | 495 | 1074 | 495 | 24 | 1029 | 516 | 1038 | 512 | 1035 | 513 |
| 471.omnetpp | 24 | 683 | 220 | 682 | 220 | 684 | 219 | 24 | 659 | 228 | 659 | 228 | 659 | 227 |
| 473.astar | 24 | 765 | 220 | 765 | 220 | 764 | 220 | 24 | 727 | 232 | 728 | 232 | 727 | 232 |
| 483.xalancbmk | 24 | 451 | 368 | 450 | 368 | 451 | 367 | 24 | 451 | 368 | 450 | 368 | 451 | 367 |

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

Submit Notes

The config file option 'submit' was used.
'/usr/bin/numactl' used to bind processes to CPUs

Operating System Notes

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

Base Compiler Invocation

C benchmarks:
icc -m32

C++ benchmarks:
icpc -m32

Base Portability Flags

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



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Base Optimization Flags

C benchmarks:

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

C++ benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/bsc/smartheap/lib -lsmartheap`

Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

Peak Compiler Invocation

C benchmarks (except as noted below):

`icc -m32`

`401.bzip2: icc -m64`

`456.hmmer: icc -m64`

`458.sjeng: icc -m64`

C++ benchmarks (except as noted below):

`icpc -m32`

`473.astar: icpc -m64`

Peak Portability Flags

`400.perlbench: -DSPEC_CPU_LINUX_IA32`

`401.bzip2: -DSPEC_CPU_LP64`

`456.hmmer: -DSPEC_CPU_LP64`

`458.sjeng: -DSPEC_CPU_LP64`

`462.libquantum: -DSPEC_CPU_LINUX`

`473.astar: -DSPEC_CPU_LP64`

`483.xalancbmk: -DSPEC_CPU_LINUX`



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Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
 -prof-use(pass 2) -ansi-alias

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
 -prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static

429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
 -ipo -no-prec-div -ansi-alias

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
 -ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
 -prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
 -prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
 -ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs
 -L/home/bsc/smartheap/lib -lsmartheap

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
 -ansi-alias -opt-ra-region-strategy=routine -Wl,-z,muldefs
 -L/home/bsc/smartheap/lib -lsmartheap64

483.xalanbmk: 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/Intel-ic11.1-linux64-revE.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.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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