



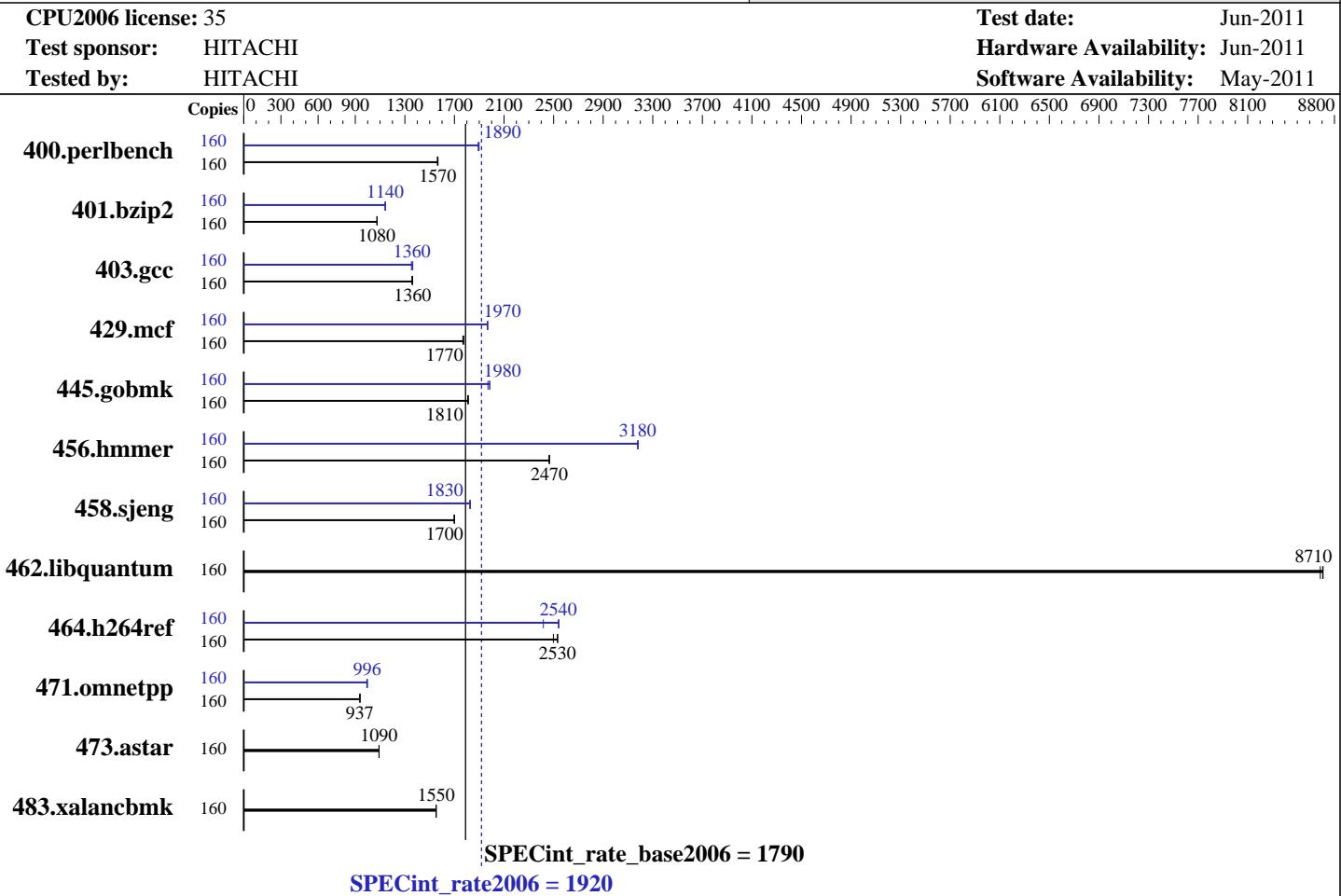
SPEC® CINT2006 Result

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HITACHI

BladeSymphony BS2000 (Intel Xeon E7-8870)

SPECint_rate2006 = 1920



Hardware		Software
CPU Name:	Intel Xeon E7-8870	Operating System: Red Hat Enterprise Linux Server release 6.1, Advanced Platform, Kernel 2.6.32-131.0.15.el6 on an x86_64
CPU Characteristics:	Intel Turbo Boost Technology up to 2.80 GHz	Compiler: Intel C++ Compiler XE for Linux Version 12.0.2.137 Build 20110112
CPU MHz:	2400	Auto Parallel: No
FPU:	Integrated	File System: ext3
CPU(s) enabled:	80 cores, 8 chips, 10 cores/chip, 2 threads/core	System State: Run level 3 (multi-user)
CPU(s) orderable:	1, 2, 4, 8 chips	Base Pointers: 32-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers: 32/64-bit
Secondary Cache:	256 KB I+D on chip per core	Other Software: Microquill SmartHeap V9.01
L3 Cache:	30 MB I+D on chip per chip	
Other Cache:	None	
Memory:	1 TB (128 x 8 GB 2Rx4 PC3-10600R-9, ECC, running at 1066 MHz)	
Disk Subsystem:	10 x 73 GB 15000 rpm Fibre Channel RAID1+0 configuration	
Other Hardware:	None	



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Test date: Jun-2011

Test sponsor: HITACHI

Hardware Availability: Jun-2011

Tested by: HITACHI

Software Availability: May-2011

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	160	1001	1560	998	1570	998	1570	160	825	1890	823	1900	826	1890
401.bzip2	160	1436	1080	1435	1080	1436	1080	160	1351	1140	1354	1140	1353	1140
403.gcc	160	945	1360	949	1360	945	1360	160	948	1360	952	1350	944	1360
429.mcf	160	825	1770	823	1770	823	1770	160	742	1970	742	1970	741	1970
445.gobmk	160	927	1810	929	1810	926	1810	160	846	1980	852	1970	846	1980
456.hammer	160	605	2470	605	2470	606	2460	160	469	3180	470	3180	470	3180
458.sjeng	160	1139	1700	1140	1700	1140	1700	160	1060	1830	1061	1820	1060	1830
462.libquantum	160	381	8710	381	8710	382	8690	160	381	8710	381	8710	382	8690
464.h264ref	160	1399	2530	1397	2530	1417	2500	160	1395	2540	1465	2420	1392	2540
471.omnetpp	160	1067	937	1066	938	1067	937	160	1004	996	1007	993	1003	997
473.astar	160	1028	1090	1029	1090	1029	1090	160	1028	1090	1029	1090	1029	1090
483.xalancbmk	160	712	1550	711	1550	711	1550	160	712	1550	711	1550	711	1550

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
 Hugepages was not enabled for this run
 echo 1 > /proc/sys/vm/zone_reclaim_mode

Platform Notes

BIOS Settings:
 Adjacent Cache Line Prefetch = enabled

General Notes

Binaries compiled on RHEL5.4.3
 HITACHI BladeSymphony BS2000 and
 HITACHI Compute Blade 2000 are electronically equivalent.
 The results have been measured on a HITACHI BladeSymphony BS2000.



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SPECint_rate_base2006 = 1790

Test date: Jun-2011

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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

Base Optimization Flags

C benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch
-B /usr/share/libhugetlbfsl -Wl,-hugetlbfsl-link=BDT

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/msc/SmartHeap_9/lib -lsmartheap
-B /usr/share/libhugetlbfsl -Wl,-hugetlbfsl-link=BDT

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.hmmr: icc -m64

458.sjeng: icc -m64

C++ benchmarks:
icpc -m32



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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
483.xalancbmk: -DSPEC_CPU_LINUX

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
-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT

429.mcf: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-auto-ilp32 -ansi-alias

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 -unroll12 -auto-ilp32
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
-unroll14 -auto-ilp32
-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT

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) -prof-use(pass 2)
-unroll12 -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_9/lib -lsmartheap

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Peak Optimization Flags (Continued)

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes

Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html>

<http://www.spec.org/cpu2006/flags/PlatformHitachi.20110705.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml>

<http://www.spec.org/cpu2006/flags/PlatformHitachi.20110705.xml>

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