



SPEC® CINT2006 Result

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Bull SAS

NovaScale R480E1
(Intel Xeon E7310, 1.60GHz)

SPECint®_rate2006 = 128

SPECint_rate_base2006 = 116

CPU2006 license: 20

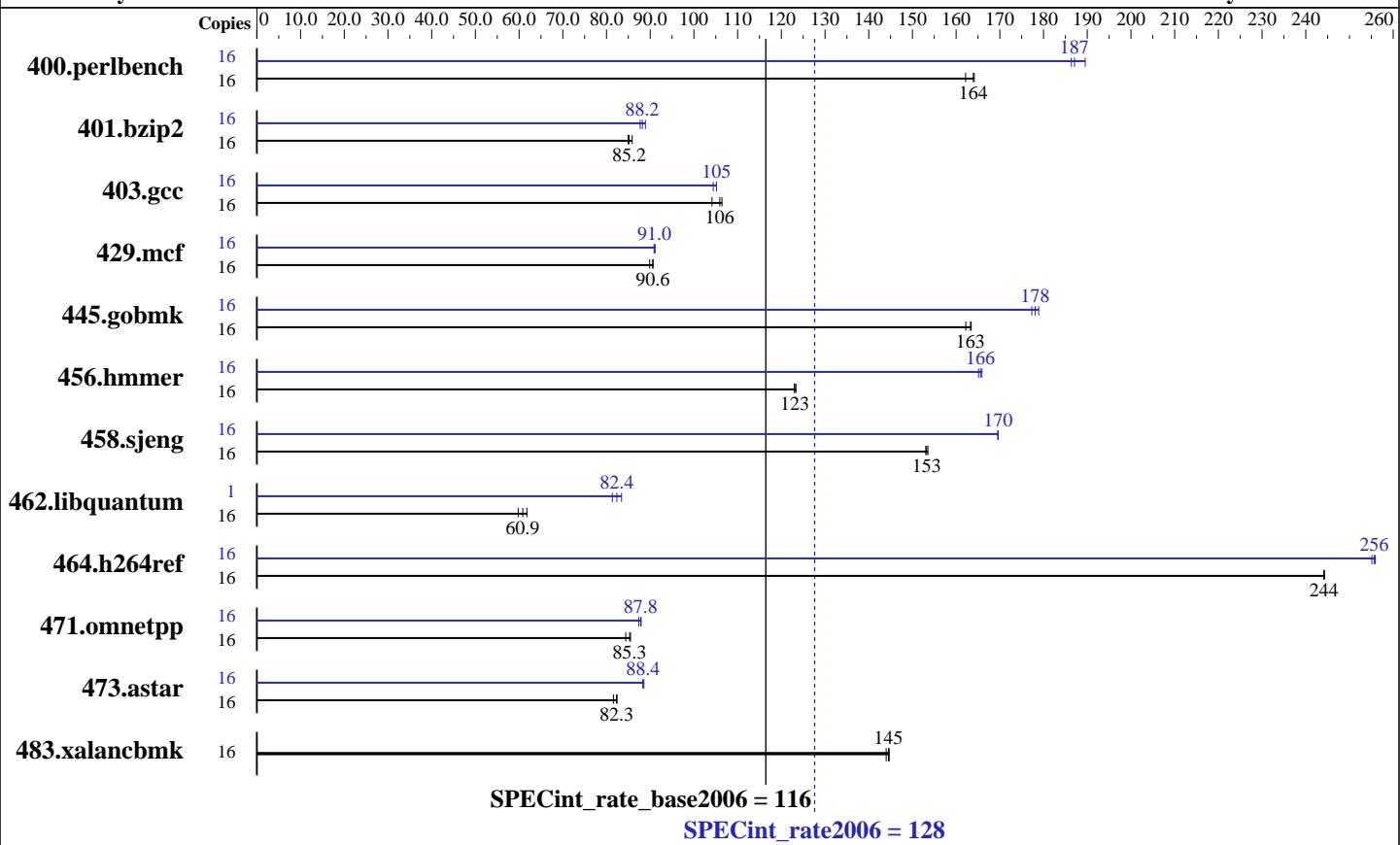
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon E7310
CPU Characteristics: 1.60 GHz, 4 MB L2, 1066 MHz system bus
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 16 cores, 4 chips, 4 cores/chip
CPU(s) orderable: 1 to 4 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip, 2 MB shared / 2 cores
L3 Cache: None
Other Cache: None
Memory: 32 GB (16x2 GB) FB-DIMM PC2-5300F ECC CL5
Disk Subsystem: 1x73 GB SAS, 15000 RPM
Other Hardware: None

Software

Operating System: SUSE LINUX Enterprise Server 10 SP1
Compiler: Kernel 2.6.16.46-0.12-smp for x86_64
Auto Parallel: Intel C++ Compiler for Linux32 and Linux64 version 10.1 Build 20070725
File System: Yes
System State: ReiserFS
Base Pointers: Multi-user run level 3
Peak Pointers: 32-bit
Other Software: 32/64-bit
SmartHeap library V8.1
Binutils 2.17.50.0.15



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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	16	964	162	954	164	952	164	16	839	186	836	187	825	190
401.bzip2	16	1818	84.9	1813	85.2	1798	85.9	16	1761	87.7	1751	88.2	1737	88.9
403.gcc	16	1210	106	1216	106	1237	104	16	1225	105	1233	104	1225	105
429.mcf	16	1610	90.7	1624	89.9	1611	90.6	16	1604	91.0	1605	90.9	1601	91.1
445.gobmk	16	1027	163	1035	162	1028	163	16	938	179	942	178	947	177
456.hmmer	16	1210	123	1214	123	1213	123	16	904	165	901	166	900	166
458.sjeng	16	1261	154	1265	153	1263	153	16	1142	170	1141	170	1141	170
462.libquantum	16	5366	61.8	5447	60.9	5544	59.8	1	252	82.4	248	83.5	255	81.3
464.h264ref	16	1451	244	1450	244	1450	244	16	1384	256	1388	255	1385	256
471.omnetpp	16	1170	85.5	1185	84.4	1172	85.3	16	1137	87.9	1144	87.4	1139	87.8
473.astar	16	1363	82.4	1377	81.6	1365	82.3	16	1271	88.4	1268	88.6	1272	88.3
483.xalancbmk	16	763	145	767	144	764	145	16	763	145	767	144	764	145

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

All benchmarks compiled in 32-bit mode except 401.bzip2 and 456.hmmer for peak, are compiled in 64-bit mode

/usr/bin/taskset utility used to bind CPU(s) to processes

General Notes

BIOS settings :

Hardware Prefetcher : Disabled

Adjacent Cache-Line Prefetch : Disabled

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
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

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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

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 -unroll12 -ansi-alias -opt-multi-version-aggressive

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll14 -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 -unroll12
-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



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Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

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

http://www.spec.org/cpu2006/flags/EM64T_Intel101_flags.html

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

http://www.spec.org/cpu2006/flags/EM64T_Intel101_flags.xml

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