



SPEC® CINT2006 Result

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Bull SAS

NovaScale R480E1
(Intel Xeon X7350,2.93GHz)

SPECint®_rate2006 = 211

SPECint_rate_base2006 = 177

CPU2006 license: 20

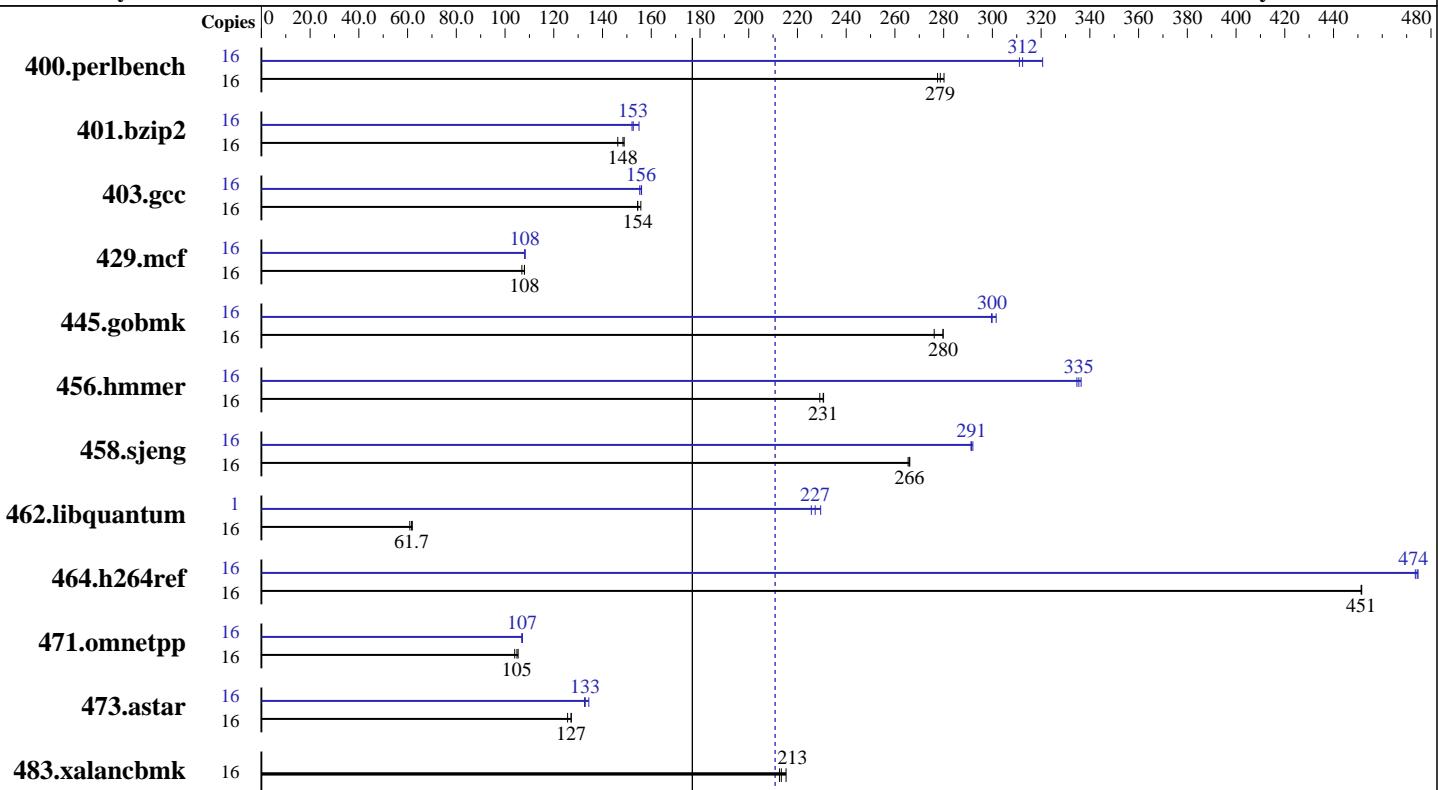
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Dec-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Xeon X7350
CPU Characteristics: 2.93 GHz, 8 MB L2, 1066 MHz system bus
CPU MHz: 2930
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: 8 MB I+D on chip per chip, 4 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	563	278	561	279	558	280	16	503	311	500	312	488	321
401.bzip2	16	1056	146	1040	148	1037	149	16	1015	152	1012	153	996	155
403.gcc	16	834	154	834	154	827	156	16	826	156	825	156	830	155
429.mcf	16	1351	108	1365	107	1352	108	16	1349	108	1349	108	1349	108
445.gobmk	16	600	280	608	276	600	280	16	560	300	557	302	560	300
456.hammer	16	647	231	651	229	647	231	16	445	335	446	335	444	336
458.sjeng	16	728	266	728	266	729	265	16	664	291	663	292	665	291
462.libquantum	16	5353	61.9	5442	60.9	5377	61.7	1	91.2	227	91.8	226	90.3	230
464.h264ref	16	784	451	784	452	784	451	16	748	474	746	475	747	474
471.omnetpp	16	949	105	962	104	953	105	16	934	107	936	107	934	107
473.astar	16	883	127	894	126	883	127	16	836	134	847	133	845	133
483.xalancbmk	16	513	215	519	213	517	213	16	513	215	519	213	517	213

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.hammer 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 -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 -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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Tested with SPEC CPU2006 v1.0.

Report generated on Tue Jul 22 16:19:11 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 6 February 2008.