



SPEC® CINT2006 Result

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Bull SAS

SPECint®_rate2006 = 72.5

NovaScale R480 (3.40 GHz, Intel Xeon 7140M)

SPECint_rate_base2006 = 68.0

CPU2006 license: 3

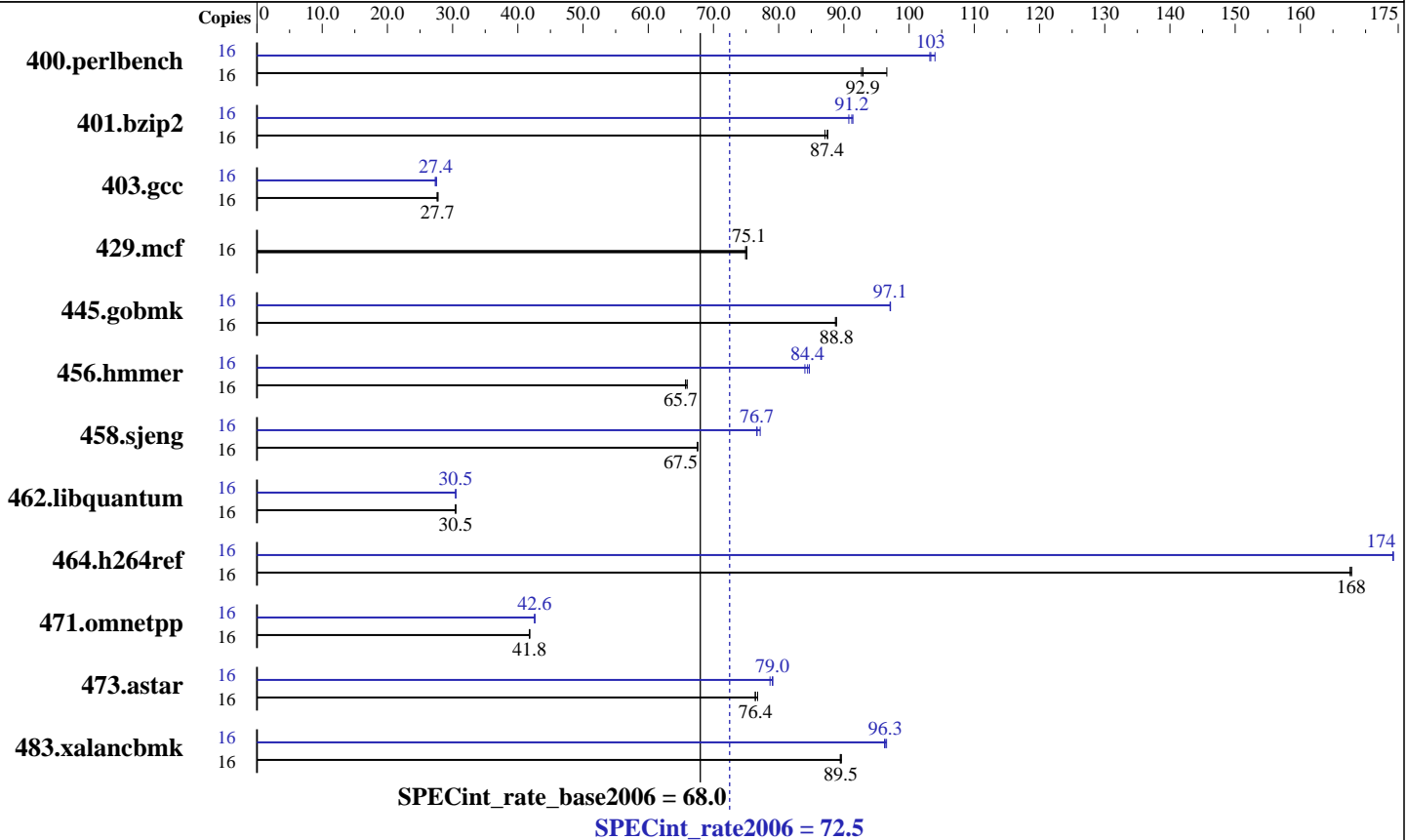
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Mar-2007

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon 7140M
 CPU Characteristics: 3.4GHz, 800MHz bus
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 12 K micro-ops I + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 16 MB I+D on chip per chip
 Other Cache: None
 Memory: 16 GB (16X1GB 1Rx4 PC2-3200R-333 400MHz DDR2)
 Disk Subsystem: 2x36GB SAS 15000 rpm
 Other Hardware: None

Software

Operating System: Windows Server 2003 Enterprise X64 Edition
 Compiler: Intel C++ Compiler 9.1 for 32-bit
 Build 20061103Z Package ID: W_CC_P_9.1.033
 Microsoft Visual Studio .NET 2003 (libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: MicroQuill SmartHeap Library 8.0 (shIW32M.lib)



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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	1619	96.6	1682	92.9	1686	92.7	16	1504	104	1513	103	1515	103
401.bzip2	16	1773	87.1	1764	87.5	1766	87.4	16	1701	90.8	1693	91.2	1690	91.4
403.gcc	16	4662	27.6	4637	27.8	4656	27.7	16	4678	27.5	4713	27.3	4695	27.4
429.mcf	16	1943	75.1	1944	75.1	1948	74.9	16	1943	75.1	1944	75.1	1948	74.9
445.gobmk	16	1889	88.8	1889	88.8	1892	88.7	16	1728	97.2	1728	97.1	1729	97.1
456.hammer	16	2263	66.0	2271	65.7	2271	65.7	16	1762	84.7	1777	84.0	1768	84.4
458.sjeng	16	2864	67.6	2866	67.5	2867	67.5	16	2526	76.7	2509	77.2	2525	76.7
462.libquantum	16	10876	30.5	10892	30.4	10880	30.5	16	10878	30.5	10876	30.5	10879	30.5
464.h264ref	16	2113	168	2110	168	2110	168	16	2033	174	2033	174	2032	174
471.omnetpp	16	2392	41.8	2395	41.8	2391	41.8	16	2347	42.6	2348	42.6	2349	42.6
473.astar	16	1470	76.4	1463	76.8	1469	76.4	16	1428	78.7	1421	79.0	1420	79.1
483.xalancbmk	16	1234	89.4	1233	89.5	1232	89.6	16	1144	96.5	1147	96.2	1146	96.3

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

General Notes

Other Configuration Notes

The NovaScale T880 and the NovaScale R480 models are electronically equivalent. The results have been measured on a NovaScale R480 model.

Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99
C++ benchmarks:
icl -Qvc7.1

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32

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Base Portability Flags (Continued)

464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Base Optimization Flags

C benchmarks:

-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Peak Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlw32m.lib -link /FORCE:MULTIPLE

401.bzip2: Same as 400.perlbench

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Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

```
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE
```

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/flags.20090714.00.html>

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

<http://www.spec.org/cpu2006/flags/flags.20090714.00.xml>

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For questions about this result, please contact the tester.
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