SPEC® CINT2006 Result

Bull SAS

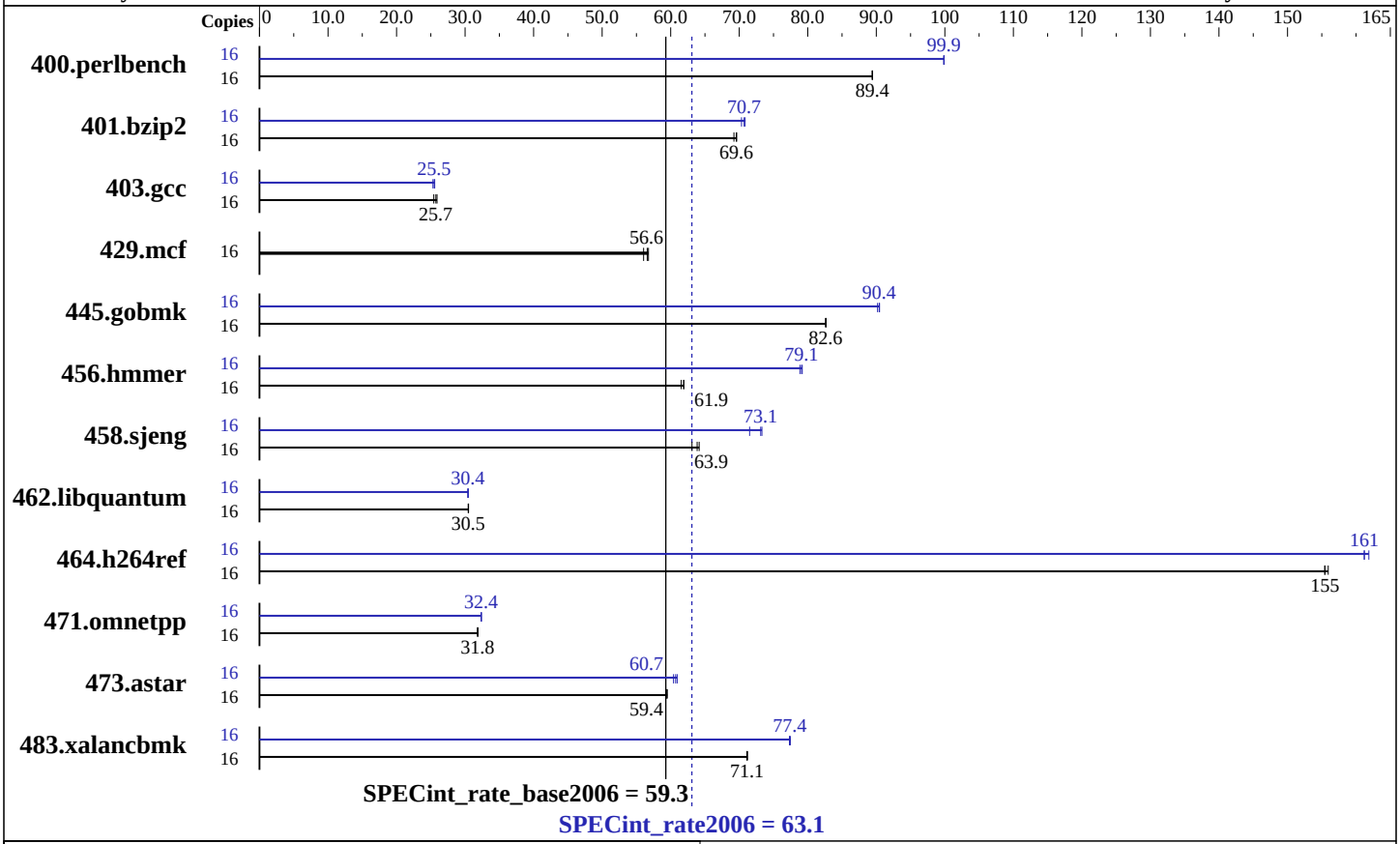
NovaScale T880 (3.20 GHz, Intel Xeon 7130M)

SPECint®_rate2006 = 63.1

SPECint_rate_base2006 = 59.3

CPU2006 license: 20
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 7130M
CPU Characteristics:	3.2GHz, 800MHz bus
CPU MHz:	3200
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:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	32 GB (667 MHz ECC CL5 DDR2 FB-DIMM)
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 (shlW32M.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	**1748**	**89.4**	1748	89.4	1749	89.4	16	1565	99.9	**1565**	**99.9**	1566	99.8
401.bzip2	16	**2219**	**69.6**	2218	69.6	2230	69.2	16	2179	70.9	2195	70.3	**2183**	**70.7**
403.gcc	16	4972	25.9	**5004**	**25.7**	5064	25.4	16	**5053**	**25.5**	5089	25.3	5038	25.6
429.mcf	16	**2579**	**56.6**	2571	56.8	2603	56.0	16	**2579**	**56.6**	2571	56.8	2603	56.0
445.gobmk	16	2032	82.6	**2031**	**82.6**	2030	82.7	16	1855	90.5	**1856**	**90.4**	1861	90.2
456.hmmer	16	**2412**	**61.9**	2411	61.9	2426	61.5	16	1893	78.9	1885	79.2	**1887**	**79.1**
458.sjeng	16	3068	63.1	3018	64.2	**3032**	**63.9**	16	2707	71.5	**2647**	**73.1**	2641	73.3
462.libquantum	16	10883	30.5	10868	30.5	**10879**	**30.5**	16	10903	30.4	**10896**	**30.4**	10882	30.5
464.h264ref	16	**2278**	**155**	2278	155	2271	156	16	**2196**	**161**	2187	162	2197	161
471.omnetpp	16	3142	31.8	**3141**	**31.8**	3139	31.9	16	3090	32.4	3090	32.4	**3090**	**32.4**
473.astar	16	**1890**	**59.4**	1888	59.5	1892	59.4	16	1859	60.4	1843	60.9	**1850**	**60.7**
483.xalancbmk	16	1553	71.1	**1552**	**71.1**	1550	71.2	16	**1427**	**77.4**	1428	77.3	1425	77.5

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`

Continued on next page

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`

Continued on next page

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 11:33:35 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 1 May 2007.