SPEC® CINT2006 Result

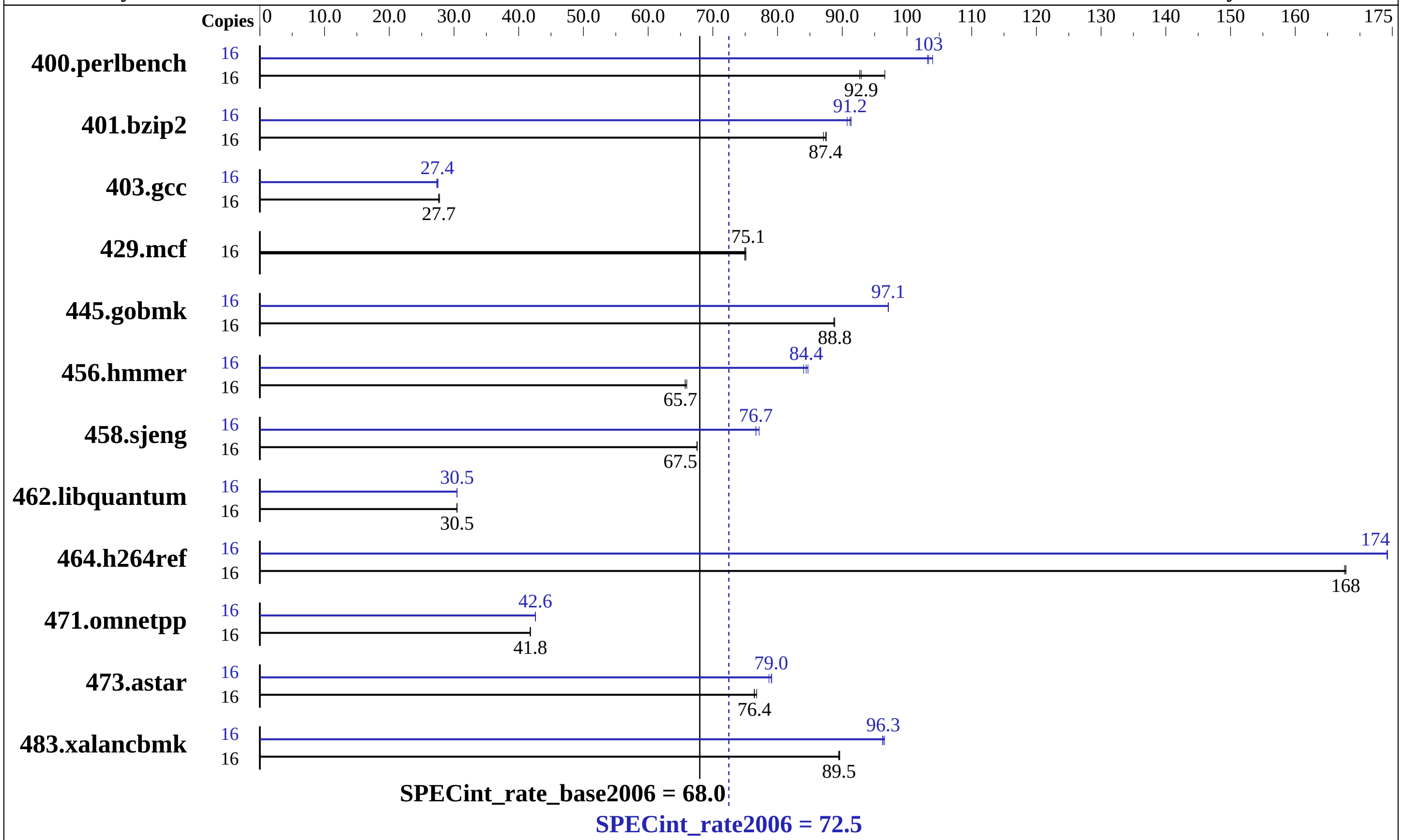
Bull SAS

NovaScale T880 (3.40 GHz, Intel Xeon 7140M)

SPECint®_rate2006 = 72.5

SPECint_rate_base2006 = 68.0

CPU2006 license: 3		**Test date:**	Mar-2007
Test sponsor:	Bull SAS	**Hardware Availability:**	Sep-2006
Tested by:	Bull SAS	**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 (shlW32M.lib)

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Results Table

	Base							Peak						
Benchmark	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.hmmer	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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SPEC CINT2006 Result

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

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

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