



# SPEC<sup>®</sup> CINT2006 Result

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## IBM Corporation

SPECint<sup>®</sup>\_rate2006 = 177

### IBM System x3650 M3 (Intel Xeon E5620)

SPECint\_rate\_base2006 = 177

CPU2006 license: 11

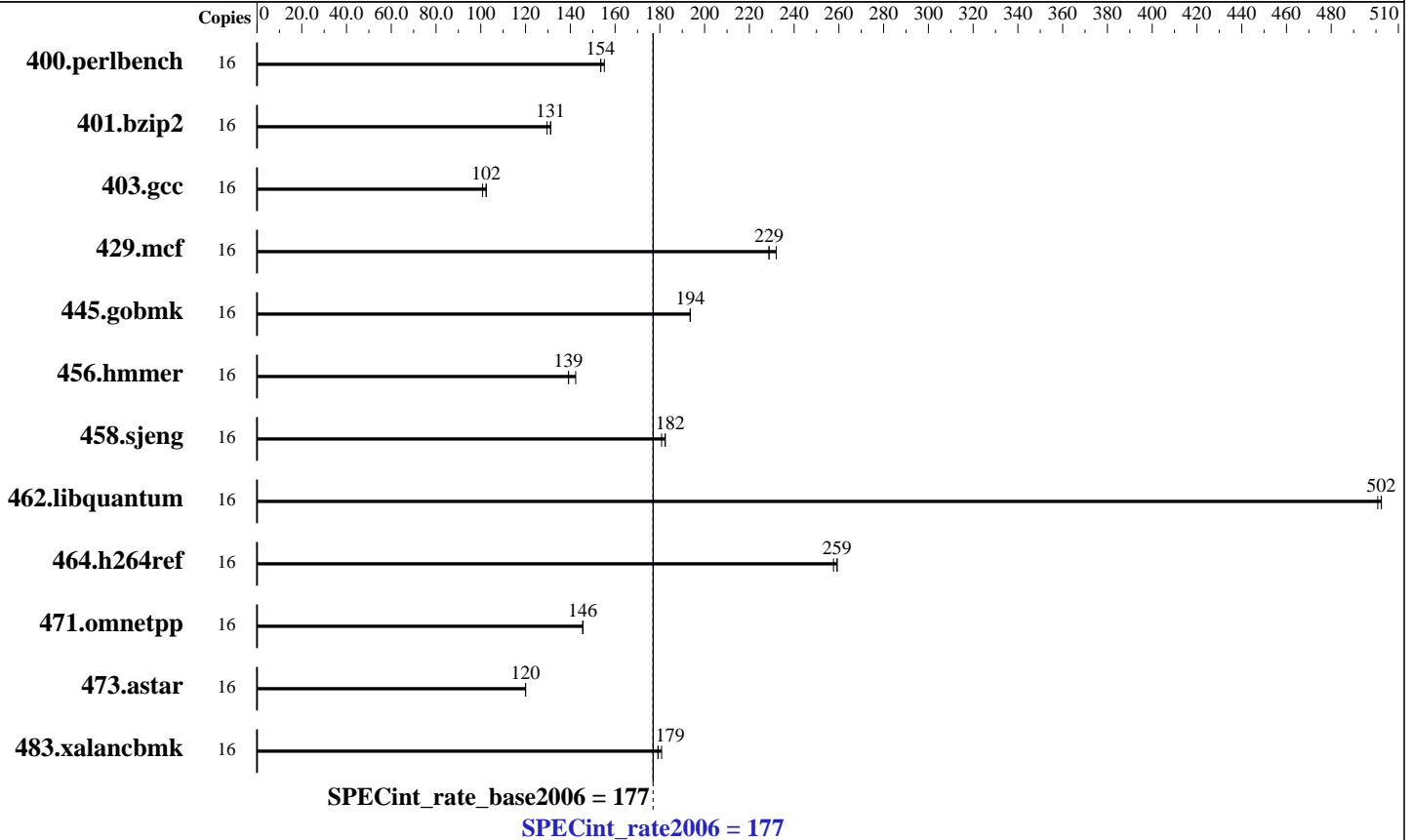
Test date: Nov-2010

Test sponsor: IBM Corporation

Hardware Availability: Jun-2010

Tested by: IBM Corporation

Software Availability: Jan-2010



### Hardware

CPU Name: Intel Xeon E5620  
 CPU Characteristics: Intel Turbo Boost Technology up to 2.66 GHz  
 CPU MHz: 2400  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 12 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 16 GB (4 x 4 GB 2Rx4 PC3-10600R, ECC, running at 1066 MHz and CL7)  
 Disk Subsystem: 2 x 146 GB SAS, 10000 RPM, RAID 1  
 Other Hardware: None

### Software

Operating System: Microsoft Windows 2003 Enterprise R2 SP2 (64-bit)  
 Compiler: Intel C++ Compiler Professional 11.1 for IA32  
 Build 20090903 Package ID: w\_cproc\_p\_11.1.045  
 Microsoft Visual Studio 2008 Professional SP1 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: None  
 SmartHeap Library Version 8.1 from <http://www.microquill.com/>



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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	1012	155	1015	154	<b><u>1014</u></b>	<b><u>154</u></b>	16	1012	155	1015	154	<b><u>1014</u></b>	<b><u>154</u></b>
401.bzip2	16	1195	130	1176	131	<b><u>1176</u></b>	<b><u>131</u></b>	16	1195	130	1176	131	<b><u>1176</u></b>	<b><u>131</u></b>
403.gcc	16	<b><u>1265</u></b>	<b><u>102</u></b>	1248	102	1276	101	16	<b><u>1265</u></b>	<b><u>102</u></b>	1248	102	1276	101
429.mcf	16	638	229	<b><u>637</u></b>	<b><u>229</u></b>	629	232	16	638	229	<b><u>637</u></b>	<b><u>229</u></b>	629	232
445.gobmk	16	867	194	<b><u>869</u></b>	<b><u>194</u></b>	869	194	16	867	194	<b><u>869</u></b>	<b><u>194</u></b>	869	194
456.hammer	16	<b><u>1069</u></b>	<b><u>139</u></b>	1043	142	1072	139	16	<b><u>1069</u></b>	<b><u>139</u></b>	1043	142	1072	139
458.sjeng	16	1065	182	<b><u>1065</u></b>	<b><u>182</u></b>	1068	181	16	1065	182	<b><u>1065</u></b>	<b><u>182</u></b>	1068	181
462.libquantum	16	661	501	660	502	<b><u>660</u></b>	<b><u>502</u></b>	16	661	501	660	502	<b><u>660</u></b>	<b><u>502</u></b>
464.h264ref	16	1366	259	1371	258	<b><u>1369</u></b>	<b><u>259</u></b>	16	1366	259	1371	258	<b><u>1369</u></b>	<b><u>259</u></b>
471.omnetpp	16	686	146	<b><u>686</u></b>	<b><u>146</u></b>	686	146	16	686	146	<b><u>686</u></b>	<b><u>146</u></b>	686	146
473.astar	16	<b><u>934</u></b>	<b><u>120</u></b>	934	120	931	120	16	<b><u>934</u></b>	<b><u>120</u></b>	934	120	931	120
483.xalancbmk	16	614	179	<b><u>614</u></b>	<b><u>179</u></b>	613	181	16	614	179	<b><u>614</u></b>	<b><u>179</u></b>	613	181

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

## Submit Notes

The config file option 'submit' was used.

## Platform Notes

BIOS Settings:  
Turbo Mode Enable  
Turbo Boost set to Traditional  
CPU C State Enable  
Data Reuse Disable

## Base Compiler Invocation

C benchmarks:  
icl -Qvc9 -Qstd=c99  
  
C++ benchmarks:  
icl -Qvc9

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DWIN32 -DSPEC\_CPU\_NO\_INTTYPES

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## Base Portability Flags (Continued)

483.xalancbmk: -Qoption,cpp,--no\_wchar\_t\_keyword

## Base Optimization Flags

C benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

C++ benchmarks:

-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features  
/F512000000 shlw32M.lib -link /FORCE:MULTIPLE

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Optimization Flags

C benchmarks:

400.perlbench: basepeak = yes

401.bzip2: basepeak = yes

403.gcc: basepeak = yes

429.mcf: basepeak = yes

445.gobmk: basepeak = yes

456.hmmer: basepeak = yes

458.sjeng: basepeak = yes

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: basepeak = yes

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## Peak Optimization Flags (Continued)

473.astar: basepeak = yes

483.xalancbmk: basepeak = yes

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.20100302.02.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-winx64-revA.20100302.02.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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