



# SPEC<sup>®</sup> CINT2006 Result

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## IBM Corporation

SPECint<sup>®</sup>2006 = **Not Run**

## IBM System x3850 (Intel Xeon 7110N)

SPECint\_base2006 = **7.55**

CPU2006 license: 11

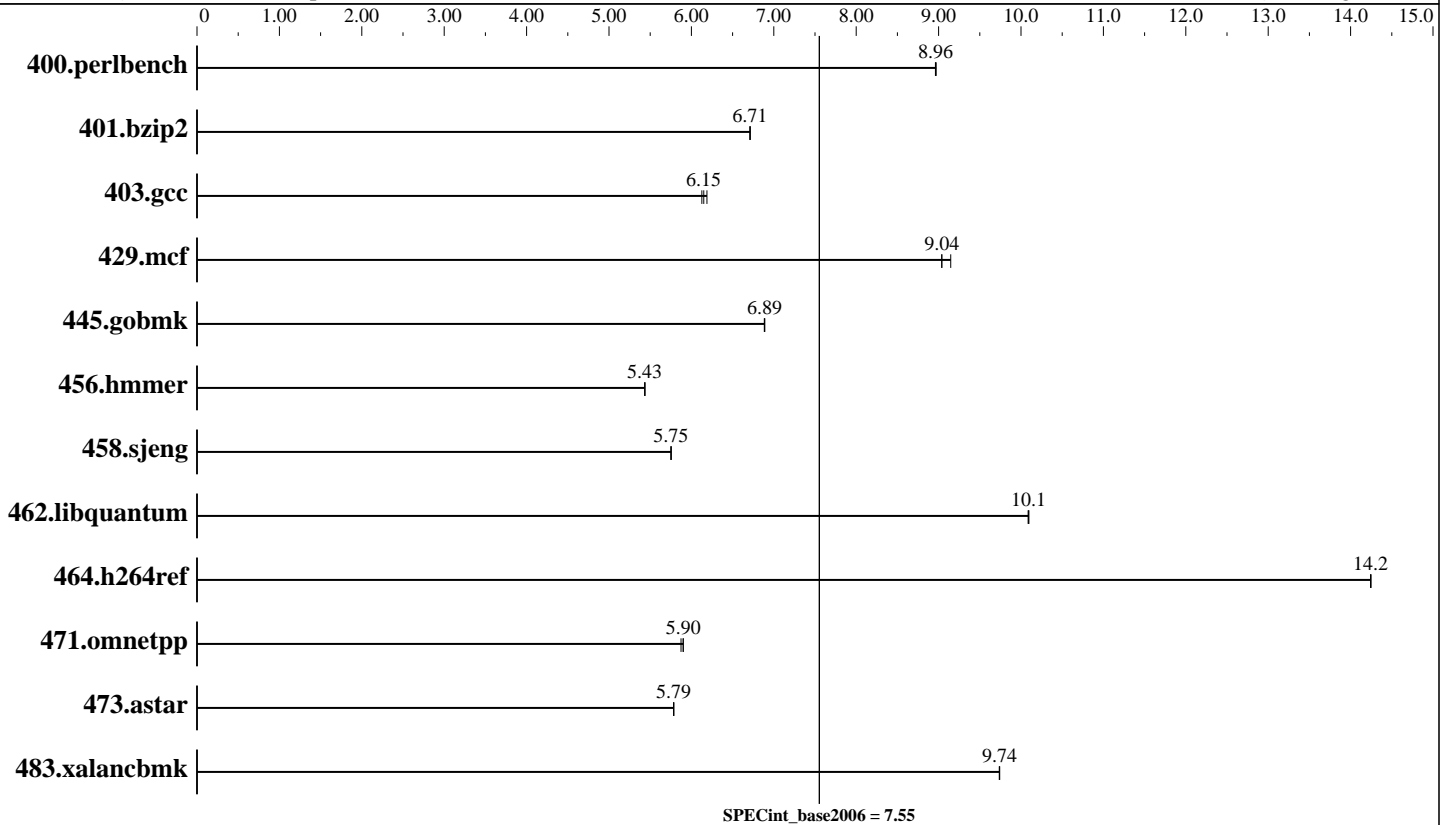
Test sponsor: IBM Corporation

Tested by: IBM Corporation

Test date: Feb-2007

Hardware Availability: Oct-2006

Software Availability: Aug-2006



### Hardware

CPU Name: Intel Xeon 7110N  
 CPU Characteristics: 667 MHz bus  
 CPU MHz: 2500  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip, 2 threads/core  
 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: 4 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 32 GB (16 x 2048 MB ECC PC2-3200)  
 Disk Subsystem: 73 GB SAS, 10k RPM  
 Other Hardware: None

### Software

Operating System: Microsoft Windows Server 2003 Enterprise x64 Edition + SP1 (64-bit)  
 Compiler: Intel C++ Compiler for IA32 version 9.1  
 Build no 20060816  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: Not Applicable  
 Other Software: Smart Heap Library, Version 8



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<b><u>1090</u></b>	<b><u>8.96</u></b>	1089	8.97	1090	8.96						
401.bzip2	1438	6.71	1437	6.71	<b><u>1438</u></b>	<b><u>6.71</u></b>						
403.gcc	1301	6.19	1314	6.13	<b><u>1309</u></b>	<b><u>6.15</u></b>						
429.mcf	997	9.15	1009	9.04	<b><u>1009</u></b>	<b><u>9.04</u></b>						
445.gobmk	1523	6.89	<b><u>1523</u></b>	<b><u>6.89</u></b>	1524	6.88						
456.hammer	<b><u>1717</u></b>	<b><u>5.43</u></b>	1717	5.44	1717	5.43						
458.sjeng	2103	5.75	2103	5.75	<b><u>2103</u></b>	<b><u>5.75</u></b>						
462.libquantum	2054	10.1	<b><u>2053</u></b>	<b><u>10.1</u></b>	2053	10.1						
464.h264ref	1554	14.2	<b><u>1554</u></b>	<b><u>14.2</u></b>	1553	14.2						
471.omnetpp	1064	5.87	<b><u>1059</u></b>	<b><u>5.90</u></b>	1059	5.90						
473.astar	<b><u>1213</u></b>	<b><u>5.79</u></b>	1213	5.79	1213	5.78						
483.xalancbmk	708	9.74	<b><u>708</u></b>	<b><u>9.74</u></b>	709	9.74						

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

## General Notes

Bios Settings

Hardware Prefetch enabled

Memory Array set to High-Performance Memory Array

## Base Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

## Base Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32

464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## Base Optimization Flags

C benchmarks:

-fast /F512000000 shlw32m.lib

-link /FORCE:MULTIPLE

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## Base Optimization Flags (Continued)

C++ benchmarks:

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

## Base 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/Intel-ic91-flags.20090715.01.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-flags.20090715.01.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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