



# SPEC® CINT2006 Result

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## ASUSTeK Computer Inc.

**SPECint®2006 = 35.6**

ASUS P6T6 WS REVOLUTION workstation motherboard  
(Intel Core i7-965 Extreme Edition)

**SPECint\_base2006 = 32.1**

CPU2006 license: 9016

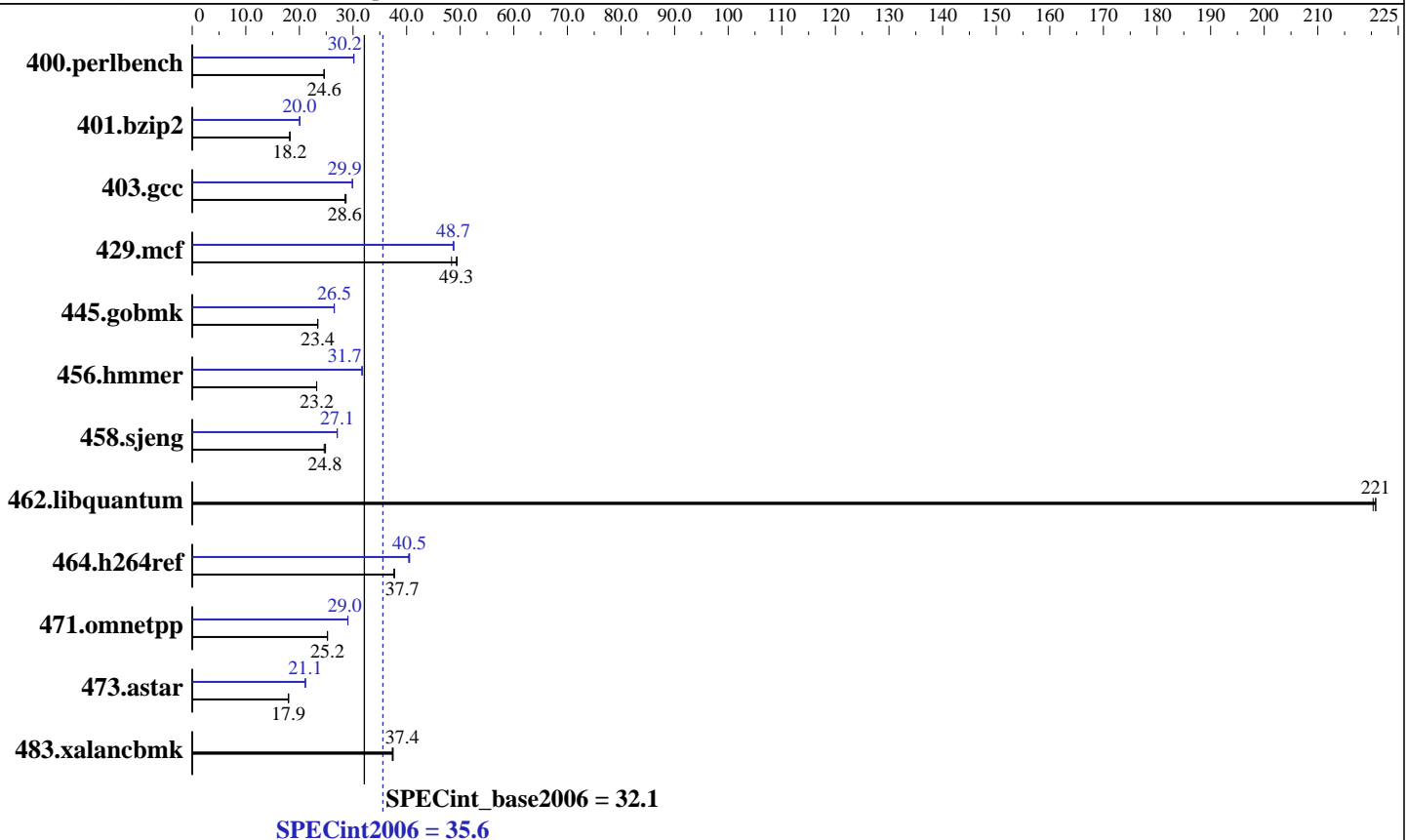
Test date: Feb-2009

Test sponsor: ASUSTeK Computer Inc.

Hardware Availability: Nov-2008

Tested by: ASUSTeK Computer Inc.

Software Availability: Nov-2008



### Hardware

CPU Name: Intel Core i7-965 Extreme Edition  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.46 GHz  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core  
 CPU(s) orderable: 1 chip  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 8 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 12 GB (6 x 2 GB PC3-10600E, CL=9)  
 Disk Subsystem: HITACHI HDT725050VLA360 500GB SATAII, 7200RPM  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 SP2  
 Kernel 2.6.16.60-0.21-smp  
 Compiler: Intel C++ Compiler Professional 11.0 for Linux  
 Build 20090131 Package ID: l\_cproc\_p\_11.0.080  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Run level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V8.1  
 Binutils 2.18.50.0.7.20080502



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<b>396</b>	<b>24.6</b>	396	24.7	398	24.6	324	30.2	<b>324</b>	<b>30.2</b>	324	30.1
401.bzip2	531	18.2	529	18.2	<b>530</b>	<b>18.2</b>	<b>481</b>	<b>20.0</b>	481	20.1	481	20.0
403.gcc	280	28.7	282	28.5	<b>282</b>	<b>28.6</b>	269	29.9	<b>269</b>	<b>29.9</b>	269	29.9
429.mcf	188	48.4	185	49.4	<b>185</b>	<b>49.3</b>	<b>187</b>	<b>48.7</b>	187	48.7	187	48.8
445.gobmk	448	23.4	<b>448</b>	<b>23.4</b>	448	23.4	396	26.5	396	26.5	<b>396</b>	<b>26.5</b>
456.hammer	402	23.2	402	23.2	<b>402</b>	<b>23.2</b>	294	31.7	<b>294</b>	<b>31.7</b>	294	31.7
458.sjeng	487	24.9	491	24.6	<b>489</b>	<b>24.8</b>	447	27.1	448	27.0	<b>447</b>	<b>27.1</b>
462.libquantum	94.0	220	<b>93.8</b>	<b>221</b>	93.8	221	94.0	220	<b>93.8</b>	<b>221</b>	93.8	221
464.h264ref	588	37.6	586	37.8	<b>587</b>	<b>37.7</b>	546	40.5	<b>546</b>	<b>40.5</b>	548	40.4
471.omnetpp	<b>248</b>	<b>25.2</b>	248	25.2	248	25.2	215	29.1	<b>215</b>	<b>29.0</b>	215	29.0
473.astar	<b>391</b>	<b>17.9</b>	390	18.0	392	17.9	<b>333</b>	<b>21.1</b>	333	21.1	332	21.1
483.xalancbmk	185	37.3	184	37.5	<b>184</b>	<b>37.4</b>	185	37.3	184	37.5	<b>184</b>	<b>37.4</b>

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

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run  
OMP\_NUM\_THREADS set to number of cores  
KMP\_AFFINITY set to granularity=fine,scatter

## Platform Notes

BIOS setting:  
Hardware Prefetcher: Enabled  
Adjacent Cache Line Prefetch: Enabled  
Tested system case compliance with Intel ATX spec  
600W or higher ATX Power Supply  
System was configured with ATi RV530LE discrete graphics card

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc



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## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Base Optimization Flags

C benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel  
-par-runtime-control -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/spec/cpu2006.1.1/lib -lsmartheap

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/Compiler/11.0/080/bin/intel64/icc

456.hmmer: /opt/intel/Compiler/11.0/080/bin/intel64/icc

458.sjeng: /opt/intel/Compiler/11.0/080/bin/intel64/icc

C++ benchmarks (except as noted below):

icpc

473.astar: /opt/intel/Compiler/11.0/080/bin/intel64/icpc

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64

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## Peak Portability Flags (Continued)

458.sjeng: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
473.astar: -DSPEC\_CPU\_LP64  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -ansi-alias -opt-prefetch

401.bzp2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -auto-ilp32 -opt-prefetch -ansi-alias

403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc  
-opt-malloc-options=3

429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2  
-ipo -no-prec-div -ansi-alias

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2  
-ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: basepeak = yes

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs  
-L/spec/cpu2006.1.1/lib -lsmartheap

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-ansi-alias -opt-ra-region-strategy=routine -auto-ilp32  
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap64

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## Peak Optimization Flags (Continued)

483.xalancbmk: basepeak = yes

## Peak Other Flags

Same as Base Other Flags

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.02.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090710.02.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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