



# SPEC® CINT2006 Result

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## Fujitsu

### SPECint®\_rate2006 = 1340

### PRIMEQUEST 1800E(Intel Xeon X7560)

### SPECint\_rate\_base2006 = 1250

CPU2006 license: 19

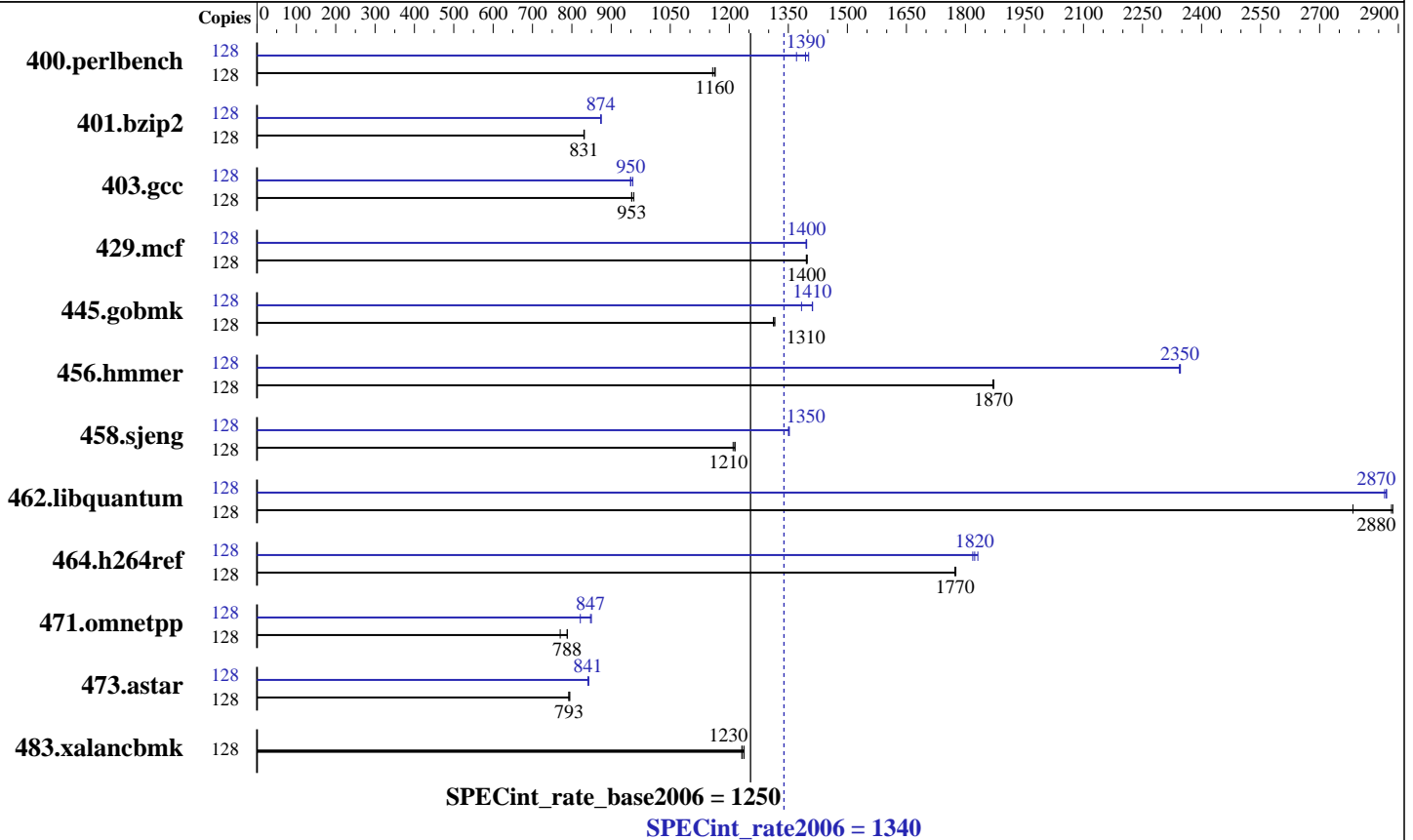
Test sponsor: Fujitsu

Tested by: Fujitsu

Test date: Mar-2010

Hardware Availability: Jun-2010

Software Availability: Feb-2010



#### Hardware

CPU Name: Intel Xeon X7560  
 CPU Characteristics: Intel Turbo Boost Technology up to 2.67 GHz  
 CPU MHz: 2266  
 FPU: Integrated  
 CPU(s) enabled: 64 cores, 8 chips, 8 cores/chip, 2 threads/core  
 CPU(s) orderable: 1-8 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: 24 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 256 GB (128x 2GB DDR3-1066 DIMMs)  
 Disk Subsystem: 2x 147GB (SAS, 15000RPM)  
 Other Hardware: No RAID configuration  
 Other Hardware: None

#### Software

Operating System: Red Hat Enterprise Linux Server release 5.4, Advanced Platform with patch RHSA-2010:0019, Kernel 2.6.18-164.10.1.el5  
 Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1  
 Build 20100203 Package ID: l\_cproc\_p\_11.1.069  
 Auto Parallel: No  
 File System: ext2  
 System State: Run level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V9.0  
 Binutils 2.18.50.0.7.20080502



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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	128	1074	1160	1080	1160	<b>1076</b>	<b>1160</b>	128	<b>897</b>	<b>1390</b>	892	1400	912	1370
401.bzip2	128	<b>1487</b>	<b>831</b>	1487	831	1485	832	128	<b>1414</b>	<b>874</b>	1413	874	1414	874
403.gcc	128	1083	952	<b>1082</b>	<b>953</b>	1076	958	128	1086	949	<b>1084</b>	<b>950</b>	1079	955
429.mcf	128	836	1400	<b>836</b>	<b>1400</b>	835	1400	128	837	1400	836	1400	<b>836</b>	<b>1400</b>
445.gobmk	128	<b>1022</b>	<b>1310</b>	1023	1310	1020	1320	128	971	1380	951	1410	<b>952</b>	<b>1410</b>
456.hammer	128	639	1870	<b>638</b>	<b>1870</b>	638	1870	128	510	2340	<b>509</b>	<b>2350</b>	509	2350
458.sjeng	128	<b>1276</b>	<b>1210</b>	1275	1210	1280	1210	128	1147	1350	<b>1147</b>	<b>1350</b>	1145	1350
462.libquantum	128	<b>920</b>	<b>2880</b>	919	2890	952	2780	128	<b>924</b>	<b>2870</b>	926	2870	924	2870
464.h264ref	128	<b>1597</b>	<b>1770</b>	1597	1770	1595	1780	128	1557	1820	<b>1553</b>	<b>1820</b>	1547	1830
471.omnetpp	128	1015	788	1038	770	<b>1015</b>	<b>788</b>	128	<b>944</b>	<b>847</b>	942	850	974	822
473.astar	128	1130	795	1134	792	<b>1133</b>	<b>793</b>	128	<b>1068</b>	<b>841</b>	1068	841	1066	843
483.xalancbmk	128	717	1230	714	1240	<b>716</b>	<b>1230</b>	128	717	1230	714	1240	<b>716</b>	<b>1230</b>

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.  
numactl was used to bind copies to the cores

## Operating System Notes

The following command was used prior to run

```
ulimit -s unlimited
mkdir /dev/cpuset
mount -t cpuset none /dev/cpuset
echo 1 > /dev/cpuset/memory_spread_page
```

## Base Compiler Invocation

C benchmarks:  
icc -m32

C++ benchmarks:  
icpc -m32



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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 -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/opt/SmartHeap\_9/lib -lsmartheap

## Base Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):

icc -m32

401.bzip2: icc -m64

456.hmmer: icc -m64

458.sjeng: icc -m64

462.libquantum: icc -m64

C++ benchmarks (except as noted below):

icpc -m32

473.astar: icpc -m64

## Peak Portability Flags

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

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## Peak Portability Flags (Continued)

456.hmmcr: -DSPEC\_CPU\_LP64  
458.sjeng: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LP64 -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  
401.bzip2: -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) -opt-prefetch -ansi-alias -auto-ilp32  
403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static  
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.hmmcr: -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: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32  
-opt-prefetch  
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/opt/SmartHeap\_9/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 -Wl,-z,muldefs

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## Peak Optimization Flags (Continued)

473.astar (continued):

`-L/opt/SmartHeap_9_64/lib -lsmartheap64`

483.xalancbmk: basepeak = yes

## 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/Fujitsu.PQ1800.ic11.1-linux64.html>

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

<http://www.spec.org/cpu2006/flags/Fujitsu.PQ1800.ic11.1-linux64.xml>

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

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