



SPEC® CINT2006 Result

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Fujitsu Limited PRIMEQUEST 540

SPECint®_rate2006 = 359
SPECint_rate_base2006 = 326

CPU2006 license: 19

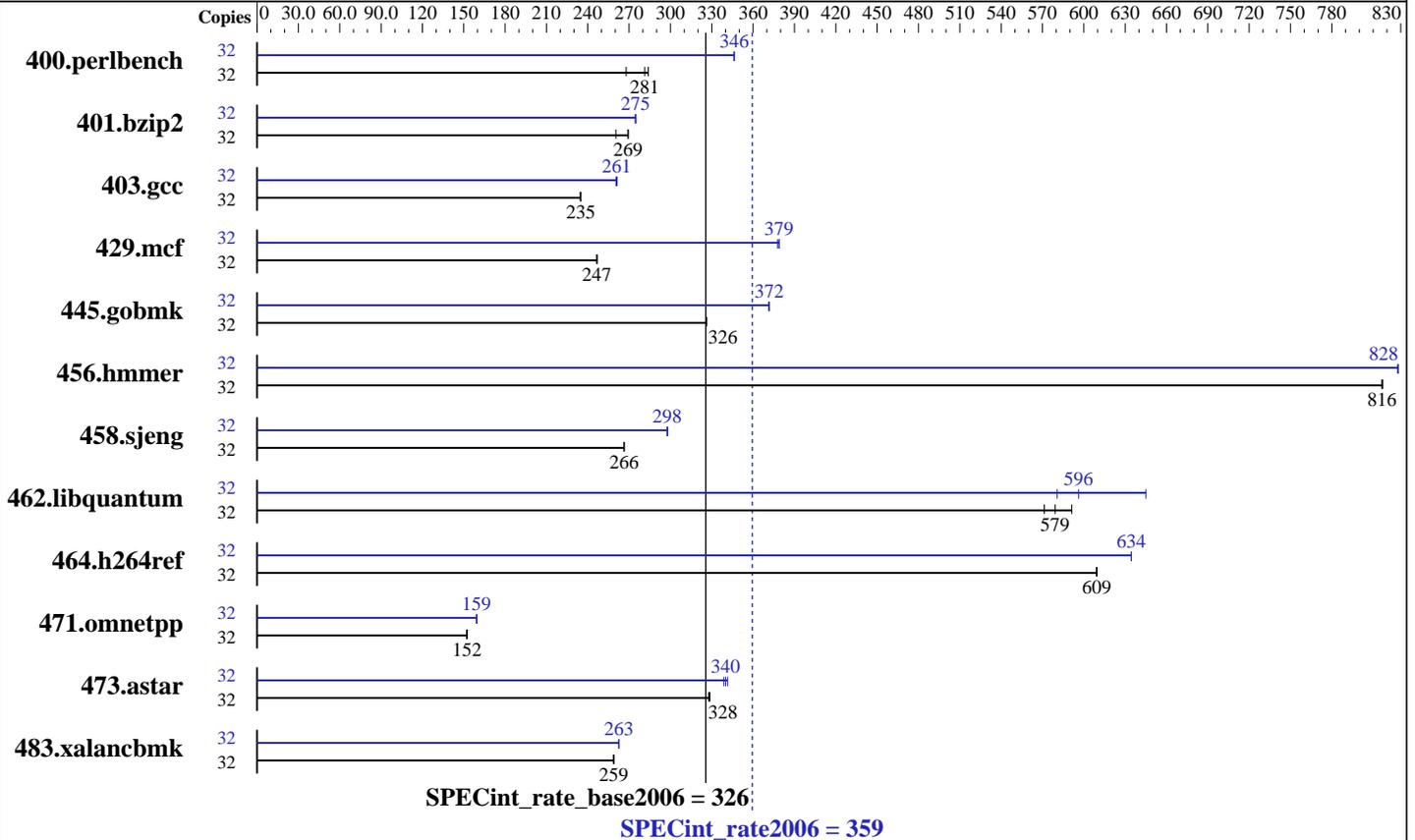
Test sponsor: Fujitsu Limited

Tested by: Fujitsu Limited

Test date: May-2007

Hardware Availability: Aug-2006

Software Availability: Apr-2007



Hardware

CPU Name: Dual-Core Intel Itanium 2 9050
 CPU Characteristics: 1.6GHz/24MB, 533MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 32 cores, 16 chips, 2 cores/chip
 CPU(s) orderable: 1-16 chips
 Primary Cache: 16 KB I + 16 KB D on chip per core
 Secondary Cache: 1 MB I + 256 KB D on chip per core
 L3 Cache: 12 MB I+D on chip per core
 Other Cache: None
 Memory: 128 GB (128 x 1GB DDR2-533 DIMMs)
 Disk Subsystem: Fujitsu MAW3147NC (SCSI Ultra 320) x 2
 147GB 10,025rpm, No RAID configuration
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux 5
 Compiler: Intel C++ Compiler for Linux 9.1 (Build 20061105)
 Auto Parallel: No
 File System: ext2
 System State: Single-user
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill Smartheap 8.0



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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	32	<u>1111</u>	<u>281</u>	1167	268	1101	284	32	904	346	902	347	<u>903</u>	<u>346</u>
401.bzip2	32	<u>1147</u>	<u>269</u>	1186	260	1147	269	32	<u>1124</u>	<u>275</u>	1125	274	1123	275
403.gcc	32	<u>1096</u>	<u>235</u>	1098	235	1096	235	32	<u>987</u>	<u>261</u>	986	261	989	260
429.mcf	32	1183	247	1184	247	<u>1183</u>	<u>247</u>	32	773	378	770	379	<u>770</u>	<u>379</u>
445.gobmk	32	1030	326	1029	326	<u>1030</u>	<u>326</u>	32	<u>904</u>	<u>372</u>	903	372	904	371
456.hmmmer	32	<u>366</u>	<u>816</u>	366	816	365	817	32	360	828	<u>361</u>	<u>828</u>	361	828
458.sjeng	32	1453	267	1454	266	<u>1454</u>	<u>266</u>	32	1300	298	1301	298	<u>1301</u>	<u>298</u>
462.libquantum	32	1161	571	1121	591	<u>1145</u>	<u>579</u>	32	1142	581	<u>1112</u>	<u>596</u>	1028	645
464.h264ref	32	1162	609	<u>1162</u>	<u>609</u>	1162	609	32	<u>1116</u>	<u>634</u>	1116	634	1116	634
471.omnetpp	32	1314	152	<u>1313</u>	<u>152</u>	1313	152	32	1255	159	1255	159	<u>1255</u>	<u>159</u>
473.astar	32	684	329	686	328	<u>685</u>	<u>328</u>	32	<u>661</u>	<u>340</u>	663	339	658	342
483.xalancbmk	32	853	259	<u>853</u>	<u>259</u>	853	259	32	841	262	840	263	<u>841</u>	<u>263</u>

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

General Notes

Processes are bound to CPUs using taskset.
limit stacksize unlimited
Memory system is in "Non Mirror Mode".

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_IA64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

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Base Portability Flags (Continued)

464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-fast -IPF_fp_relaxed -ansi-alias
C++ benchmarks:
-fast -IPF_fp_relaxed -ansi-alias -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

Peak Compiler Invocation

C benchmarks:
icc
C++ benchmarks:
icpc

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -IPF_fp_relaxed
-mtune=itanium2-p9000 -inline-max-size=550
-inline-min-size=40
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -IPF_fp_relaxed
-auto-ilp32 -ansi-alias
403.gcc: -prof-gen(pass 1) -prof-use(pass 2) -fast -IPF_fp_relaxed
-auto-ilp32 -ansi-alias -opt-mem-bandwidth2

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Peak Optimization Flags (Continued)

429.mcf: -fast -IPF_fp_relaxed -auto-ilp32 -ansi
-inline-max-total-size=5000
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -O2 -IPF_fp_relaxed
-static -ipo -auto-ilp32
456.hmmr: -fast -IPF_fp_relaxed -auto-ilp32
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -IPF_fp_relaxed
462.libquantum: -fast -IPF_fp_relaxed -ansi-alias -auto-ilp32
-mtune=itanium2-p9000
464.h264ref: -fast -IPF_fp_relaxed -inline-max-size=100

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -O2 -IPF_fp_relaxed
-static -ipo -inline-max-per-routine=50 -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a
473.astar: -prof-gen(pass 1) -prof-use(pass 2) -O2 -static -ipo
-inline-max-size=5000 -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a
483.xalancbmk: -prof-gen(pass 1) -prof-use(pass 2) -O2 -static -ipo
-ansi-alias -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/Fujitsu.PQ580.ipf.linux.flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Fujitsu.PQ580.ipf.linux.flags.xml>

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