



SPEC® CINT2006 Result

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SGI

SPECint®_rate2006 = 2970

SGI Altix 4700 Bandwidth System (Itanium 2 Processor 9040 1.6GHz/18M)

SPECint_rate_base2006 = 2720

CPU2006 license: 4

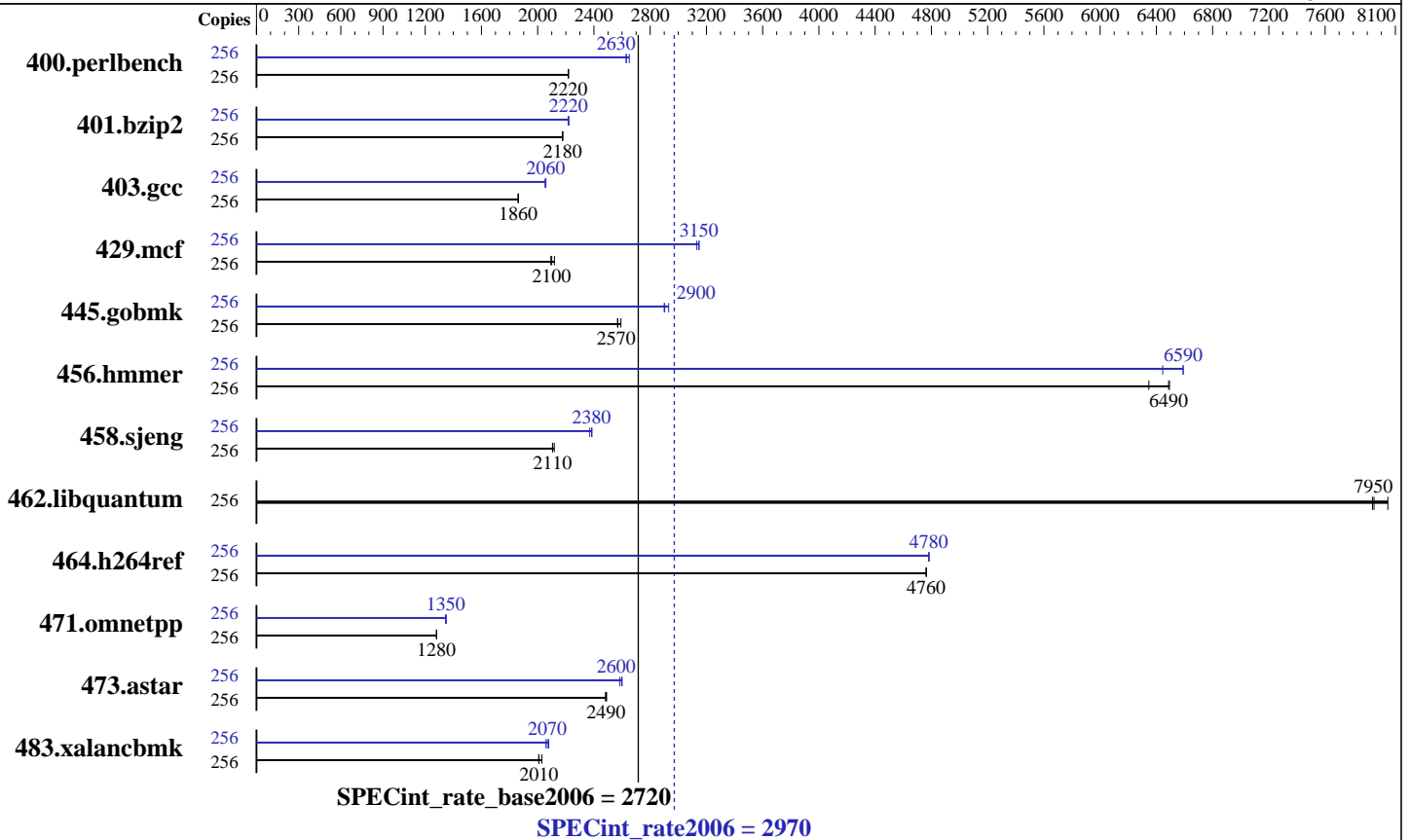
Test date: Jan-2007

Test sponsor: SGI

Hardware Availability: Jul-2006

Tested by: SGI

Software Availability: Aug-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
 CPU Characteristics: 533MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 256 cores, 128 chips, 2 cores/chip
 CPU(s) orderable: 1-512 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: 9 MB I+D on chip per core
 Other Cache: None
 Memory: 4 TB (8*4GB DDR2-400 DIMMS per 2 core module)
 Disk Subsystem: 16 x 37 GB FibreChannel (Seagate Cheetah 15k rpm)
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 9 Service Pack 3 + SGI ProPack 4 Service Pack 3
 Compiler: Intel C++ Compiler for Linux 9.1 (Build 20060818)
 MicroQuill SmartHeap Library 7.01 (www.microquill.com)
 Auto Parallel: No
 File System: xfs
 System State: Multi-user
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other Software: --



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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	256	1128	2220	1127	2220	<u>1128</u>	<u>2220</u>	256	<u>951</u>	<u>2630</u>	951	2630	943	2650
401.bzip2	256	<u>1135</u>	<u>2180</u>	1135	2180	1134	2180	256	<u>1113</u>	<u>2220</u>	1115	2220	1112	2220
403.gcc	256	1107	1860	<u>1107</u>	<u>1860</u>	1107	1860	256	<u>1002</u>	<u>2060</u>	1001	2060	1004	2050
429.mcf	256	<u>1112</u>	<u>2100</u>	1115	2090	1102	2120	256	742	3150	746	3130	<u>742</u>	<u>3150</u>
445.gobmk	256	1036	2590	1046	2570	<u>1045</u>	<u>2570</u>	256	926	2900	<u>925</u>	<u>2900</u>	916	2930
456.hmmer	256	<u>368</u>	<u>6490</u>	376	6350	368	6490	256	362	6590	<u>362</u>	<u>6590</u>	371	6450
458.sjeng	256	<u>1470</u>	<u>2110</u>	1462	2120	1471	2110	256	1307	2370	<u>1300</u>	<u>2380</u>	1298	2390
462.libquantum	256	<u>667</u>	<u>7950</u>	659	8050	668	7940	256	<u>667</u>	<u>7950</u>	659	8050	668	7940
464.h264ref	256	1189	4760	1189	4760	<u>1189</u>	<u>4760</u>	256	1185	4780	<u>1185</u>	<u>4780</u>	1185	4780
471.omnetpp	256	1248	1280	<u>1249</u>	<u>1280</u>	1250	1280	256	1186	1350	<u>1188</u>	<u>1350</u>	1188	1350
473.astar	256	<u>723</u>	<u>2490</u>	724	2480	722	2490	256	691	2600	<u>692</u>	<u>2600</u>	696	2580
483.xalancbmk	256	870	2030	<u>879</u>	<u>2010</u>	880	2010	256	850	2080	858	2060	<u>854</u>	<u>2070</u>

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

General Notes

Processes were bound to CPUs using dplace.

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.hmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

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 libsmartheapC64.a
libsmartheap64.a

Base Other Flags

C benchmarks:

-w

C++ benchmarks:

-w

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
-ansi_alias

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Peak Optimization Flags (Continued)

401.bzip2: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-auto_ilp32 -ansi_alias

403.gcc: Same as 400.perlbench

429.mcf: -fast -IPF_fp_relaxed -auto_ilp32 -ansi_alias

445.gobmk: Same as 401.bzip2

456.hmmmer: Same as 429.mcf

458.sjeng: Same as 401.bzip2

462.libquantum: basepeak = yes

464.h264ref: Same as 429.mcf

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi_alias -Wl,-z,muldefs libsmartheapC64.a
libsmartheap64.a

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-auto_ilp32 -inline-factor=150 -ansi_alias -Wl,-z,muldefs
libsmartheapC64.a libsmartheap64.a

483.xalancbmk: Same as 471.omnetpp

Peak Other Flags

C benchmarks:

-w

C++ benchmarks:

-w

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-ipf.20090715.00.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic91-ipf.20090715.00.xml>



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