



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 15.9

HP BladeSystem bc2500 Blade PC
(1.6GHz AMD Athlon 64 X2 3000+)

SPECint_rate_base2006 = 14.1

CPU2006 license: 3

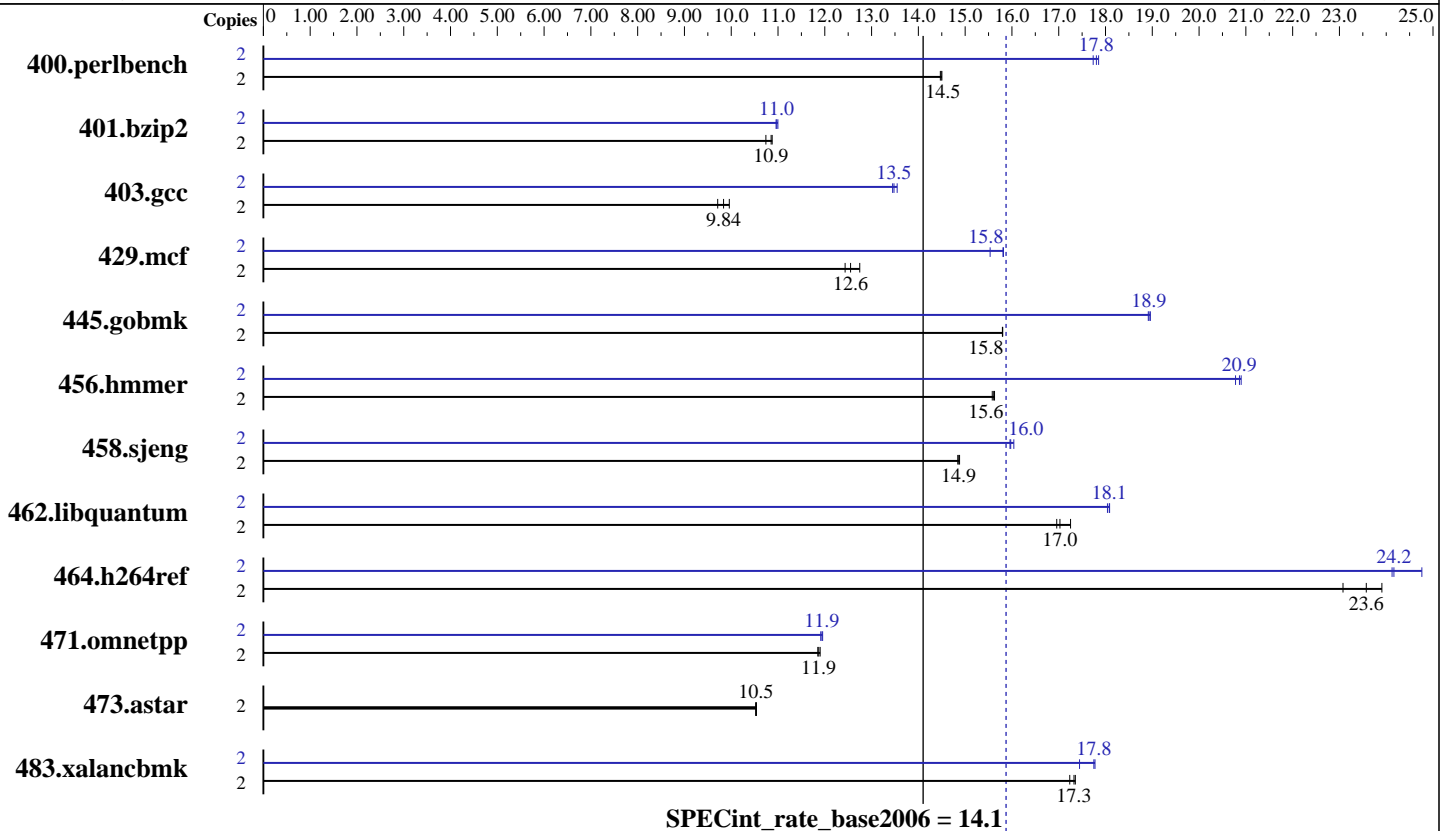
Test sponsor: Hewlett-Packard Company

Tested by: AMD Performance Labs

Test date: Dec-2007

Hardware Availability: Jun-2007

Software Availability: Mar-2008



Hardware

CPU Name: AMD Athlon 64 X2 3000+
 CPU Characteristics:
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 512 KB I+D on chip per core
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (2x2GB, DDR2-667 CL5 ECC Reg Dual Rank)
 Disk Subsystem: 1x80 GB SATA, 5400 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: QLogic PathScale Compiler Suite, Release 3.0
 Auto Parallel: No
 File System: ext3
 System State: Multi-user, run level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap 8.0 32 bit Library for Linux



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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	2	1347	14.5	<u>1349</u>	<u>14.5</u>	1350	14.5	2	1102	17.7	1095	17.9	<u>1097</u>	<u>17.8</u>
401.bzip2	2	1797	10.7	<u>1778</u>	<u>10.9</u>	1775	10.9	2	1761	11.0	1755	11.0	<u>1759</u>	<u>11.0</u>
403.gcc	2	1658	9.71	1617	9.96	<u>1637</u>	<u>9.84</u>	2	1197	13.4	1188	13.5	<u>1194</u>	<u>13.5</u>
429.mcf	2	1467	12.4	1431	12.7	<u>1453</u>	<u>12.6</u>	2	1174	15.5	1153	15.8	<u>1154</u>	<u>15.8</u>
445.gobmk	2	1328	15.8	<u>1328</u>	<u>15.8</u>	1328	15.8	2	1109	18.9	<u>1108</u>	<u>18.9</u>	1107	19.0
456.hmmer	2	1194	15.6	1198	15.6	<u>1195</u>	<u>15.6</u>	2	<u>894</u>	<u>20.9</u>	898	20.8	893	20.9
458.sjeng	2	1631	14.8	1626	14.9	<u>1628</u>	<u>14.9</u>	2	1516	16.0	1509	16.0	<u>1515</u>	<u>16.0</u>
462.libquantum	2	2444	17.0	2402	17.3	<u>2434</u>	<u>17.0</u>	2	<u>2292</u>	<u>18.1</u>	2297	18.0	2291	18.1
464.h264ref	2	1851	23.9	1918	23.1	<u>1878</u>	<u>23.6</u>	2	1787	24.8	1835	24.1	<u>1832</u>	<u>24.2</u>
471.omnetpp	2	1050	11.9	<u>1053</u>	<u>11.9</u>	1055	11.9	2	1049	11.9	1046	12.0	<u>1047</u>	<u>11.9</u>
473.astar	2	1332	10.5	1334	10.5	<u>1333</u>	<u>10.5</u>	2	1332	10.5	1334	10.5	<u>1333</u>	<u>10.5</u>
483.xalancbmk	2	801	17.2	795	17.4	<u>796</u>	<u>17.3</u>	2	776	17.8	791	17.4	<u>777</u>	<u>17.8</u>

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

General Notes

taskset utility used to bind cores to processes

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
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
483.xalancbmk: -DSPEC_CPU_LINUX

```



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Base Optimization Flags

C benchmarks:

-Ofast -OPT:malloc_alg=1

C++ benchmarks:

-Ofast -m32 -L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

Peak Compiler Invocation

C benchmarks:

pathcc

C++ benchmarks:

pathCC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -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
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
-LNO:opt=0

401.bzip2: -O3 -LNO:ou_prod_max=10 -OPT:Ofast -OPT:alias=disjoint

403.gcc: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O3
-OPT:Ofast

429.mcf: -m32 -O3 -ipa
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off
-WOPT:retype_expr=on

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Peak Optimization Flags (Continued)

456.hmmmer: -O2 -OPT:alias=disjoint -OPT:malloc_alg=1 -CG:cflow=0

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=50000 -IPA:pu_reorder=2

462.libquantum: -O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
-IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0

C++ benchmarks:

471.omnetpp: -Ofast -CG:gcm=off -m32
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

473.astar: basepeak = yes

483.xalancbmk: -Ofast -m32 -OPT:unroll_times_max=8
-L/cpu2006/mpaton/1.0/amd514K8.lib/32 -lsmartheap

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.xml

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For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 16:08:36 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 23 January 2008.