



SPEC® CINT2006 Result

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Hewlett-Packard Company

SPECint®_rate2006 = 83.7

HP Integrity rx7640
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint_rate_base2006 = 79.6

CPU2006 license: 03

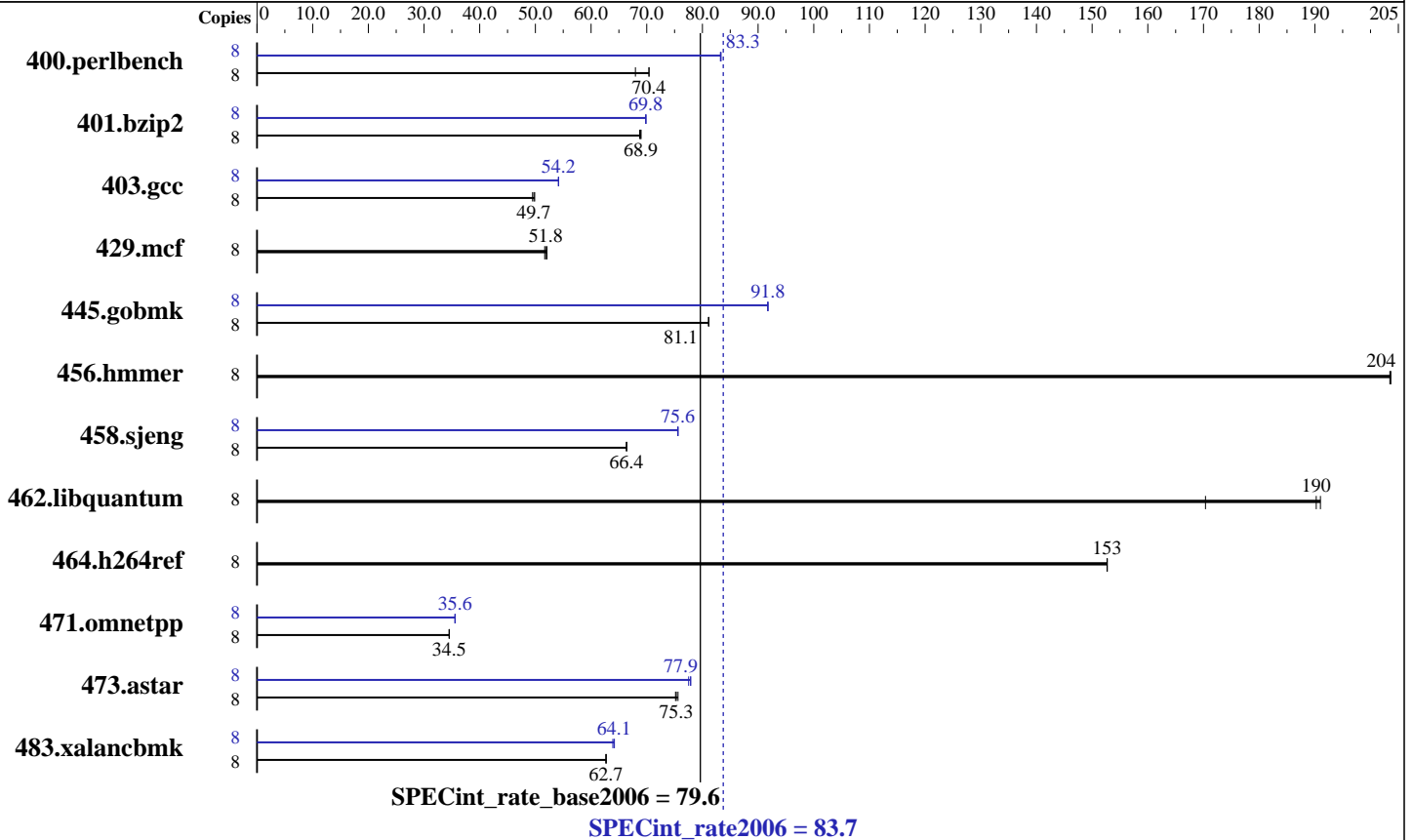
Test date: Dec-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
 CPU Characteristics: 1.6GHz/18MB, 533MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
 CPU(s) orderable: 1-8 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: 32 GB (16x2GB DIMMs)
 Disk Subsystem: 73GB 15K RPM SCSI
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)
 Compiler: Intel C++ Compiler 9.1 for Linux (Build 20061105)
 Auto Parallel: No
 File System: ext3
 System State: Multi-user
 Base Pointers: 64-bit
 Peak Pointers: 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	8	1150	68.0	1110	70.4	1110	70.4	8	938	83.3	938	83.3	939	83.2
401.bzip2	8	1123	68.7	1119	69.0	1120	68.9	8	1106	69.8	1106	69.8	1105	69.9
403.gcc	8	1301	49.5	1295	49.7	1291	49.9	8	1189	54.2	1189	54.2	1190	54.1
429.mcf	8	1412	51.7	1401	52.1	1407	51.8	8	1412	51.7	1401	52.1	1407	51.8
445.gobmk	8	1034	81.2	1035	81.1	1034	81.1	8	914	91.8	915	91.7	915	91.8
456.hammer	8	367	203	367	204	367	204	8	367	203	367	204	367	204
458.sjeng	8	1458	66.4	1459	66.4	1458	66.4	8	1280	75.6	1280	75.6	1281	75.6
462.libquantum	8	868	191	973	170	871	190	8	868	191	973	170	871	190
464.h264ref	8	1159	153	1159	153	1160	153	8	1159	153	1159	153	1160	153
471.omnetpp	8	1448	34.5	1448	34.5	1448	34.5	8	1406	35.6	1406	35.6	1404	35.6
473.astar	8	746	75.3	747	75.2	743	75.6	8	721	77.9	721	77.9	724	77.5
483.xalancbmk	8	881	62.7	881	62.7	880	62.7	8	864	63.9	860	64.2	861	64.1

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

Operating System Notes

stacksize set to unlimited prior to run

Platform Notes

System was configured as a single partition with 1 cell and 4 processors (8 cores) per cell. Memory was configured as 100% cell local.

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

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Base Portability Flags (Continued)

```

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
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
               -ansi-alias

```

401.bzip2: Same as 400.perlbench

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Peak Optimization Flags (Continued)

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmr: basepeak = yes

458.sjeng: Same as 400.perlbench

462.libquantum: basepeak = yes

464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias -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) -fast -IPF_fp_relaxed
-ansi-alias -inline-factor=150 -Wl,-z,muldefs
/opt/SmartHeap_8/lib/libsmartheapC64.a
/opt/SmartHeap_8/lib/libsmartheap64.a

483.xalancbmk: Same as 471.omnetpp

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

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.html

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

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.xml

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

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