



# SPEC® CINT2006 Result

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## Hewlett-Packard Company

**SPECint®\_rate2006 = 91.1**

HP Integrity rx6600  
(1.6GHz/24MB Dual-Core Intel Itanium 2)

**SPECint\_rate\_base2006 = 86.5**

CPU2006 license: 03

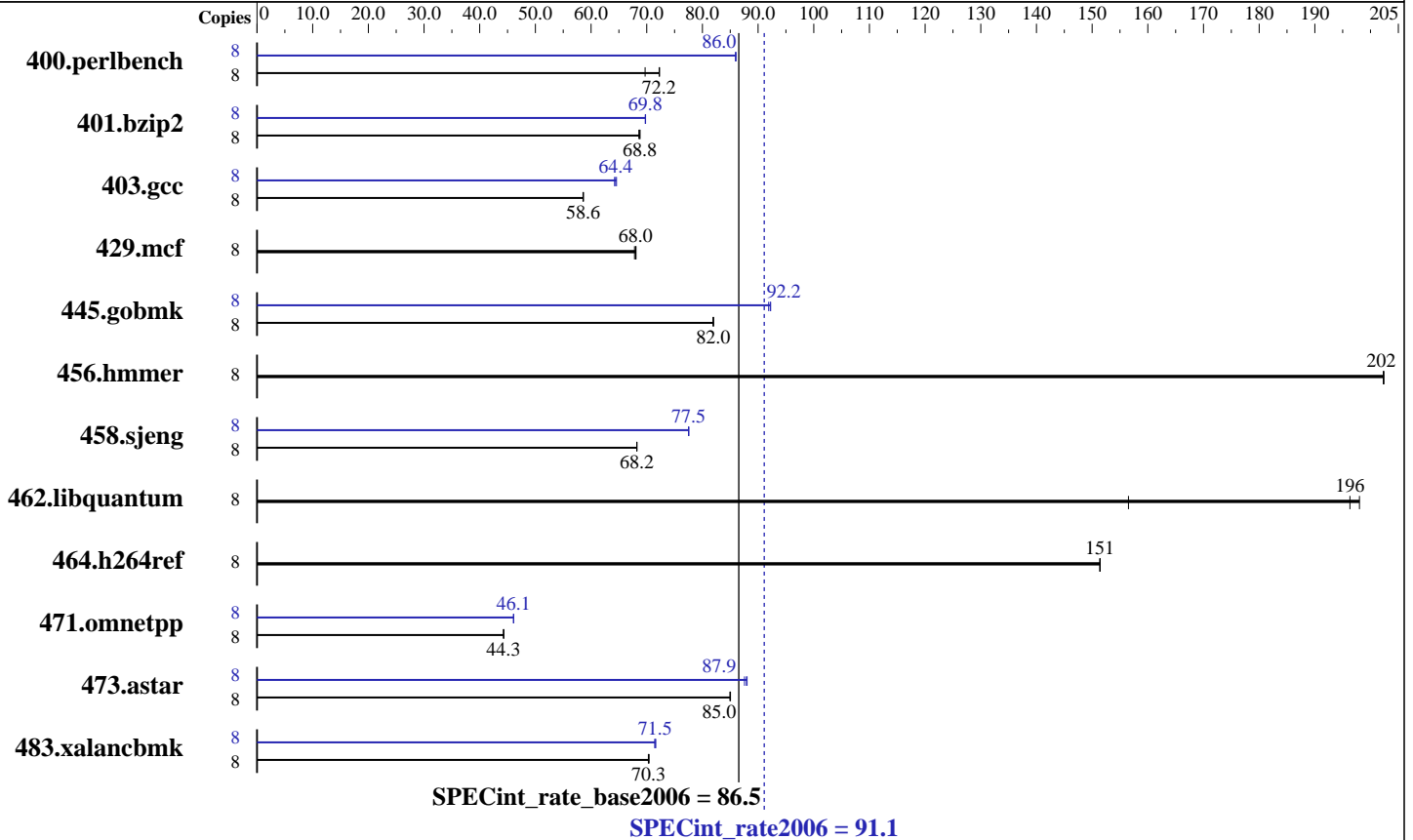
Test date: Oct-2006

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 9050  
 CPU Characteristics: 1.6GHz/24MB, 533MHz FSB  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip  
 CPU(s) orderable: 1-4 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: 24 GB (24x1GB DIMMs)  
 Disk Subsystem: 2x73GB 10K RPM SAS (mirrored)  
 Other Hardware: None

### Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)  
 Compiler: Intel C++ Compiler for Itanium version 9.1 (Build 20060818)  
 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	1121	69.7	1081	72.3	<b>1082</b>	<b>72.2</b>	8	909	86.0	909	86.0	<b>909</b>	<b>86.0</b>
401.bzip2	8	1126	68.6	1122	68.8	<b>1123</b>	<b>68.8</b>	8	<b>1107</b>	<b>69.8</b>	1106	69.8	1107	69.7
403.gcc	8	1100	58.5	1098	58.6	<b>1099</b>	<b>58.6</b>	8	<b>1000</b>	<b>64.4</b>	1003	64.2	997	64.6
429.mcf	8	<b>1073</b>	<b>68.0</b>	1076	67.8	1072	68.1	8	<b>1073</b>	<b>68.0</b>	1076	67.8	1072	68.1
445.gobmk	8	<b>1024</b>	<b>82.0</b>	1024	81.9	1023	82.0	8	913	91.9	910	92.3	<b>910</b>	<b>92.2</b>
456.hammer	8	<b>369</b>	<b>202</b>	369	202	369	202	8	<b>369</b>	<b>202</b>	369	202	369	202
458.sjeng	8	<b>1419</b>	<b>68.2</b>	1419	68.2	1419	68.2	8	<b>1249</b>	<b>77.5</b>	1249	77.5	1248	77.6
462.libquantum	8	837	198	<b>844</b>	<b>196</b>	1059	157	8	837	198	<b>844</b>	<b>196</b>	1059	157
464.h264ref	8	1169	151	1169	151	<b>1169</b>	<b>151</b>	8	1169	151	1169	151	<b>1169</b>	<b>151</b>
471.omnetpp	8	1129	44.3	1129	44.3	<b>1129</b>	<b>44.3</b>	8	<b>1085</b>	<b>46.1</b>	1085	46.1	1085	46.1
473.astar	8	661	85.0	660	85.0	<b>661</b>	<b>85.0</b>	8	<b>639</b>	<b>87.9</b>	638	88.0	641	87.6
483.xalancbmk	8	785	70.3	<b>785</b>	<b>70.3</b>	784	70.4	8	773	71.4	771	71.6	<b>772</b>	<b>71.5</b>

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

## 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.hammer: -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

```

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## Base Portability Flags (Continued)

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

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: basepeak = yes

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## Peak Optimization Flags (Continued)

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.html](http://www.spec.org/cpu2006/flags/IPF_intel91_flags.html)

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

[http://www.spec.org/cpu2006/flags/IPF\\_intel91\\_flags.xml](http://www.spec.org/cpu2006/flags/IPF_intel91_flags.xml)

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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