



# SPEC<sup>®</sup> CINT2006 Result

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## Hewlett-Packard Company

SPECint<sup>®</sup>\_rate2006 = 46.0

HP Integrity rx2660  
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECint\_rate\_base2006 = 43.6

CPU2006 license: 03

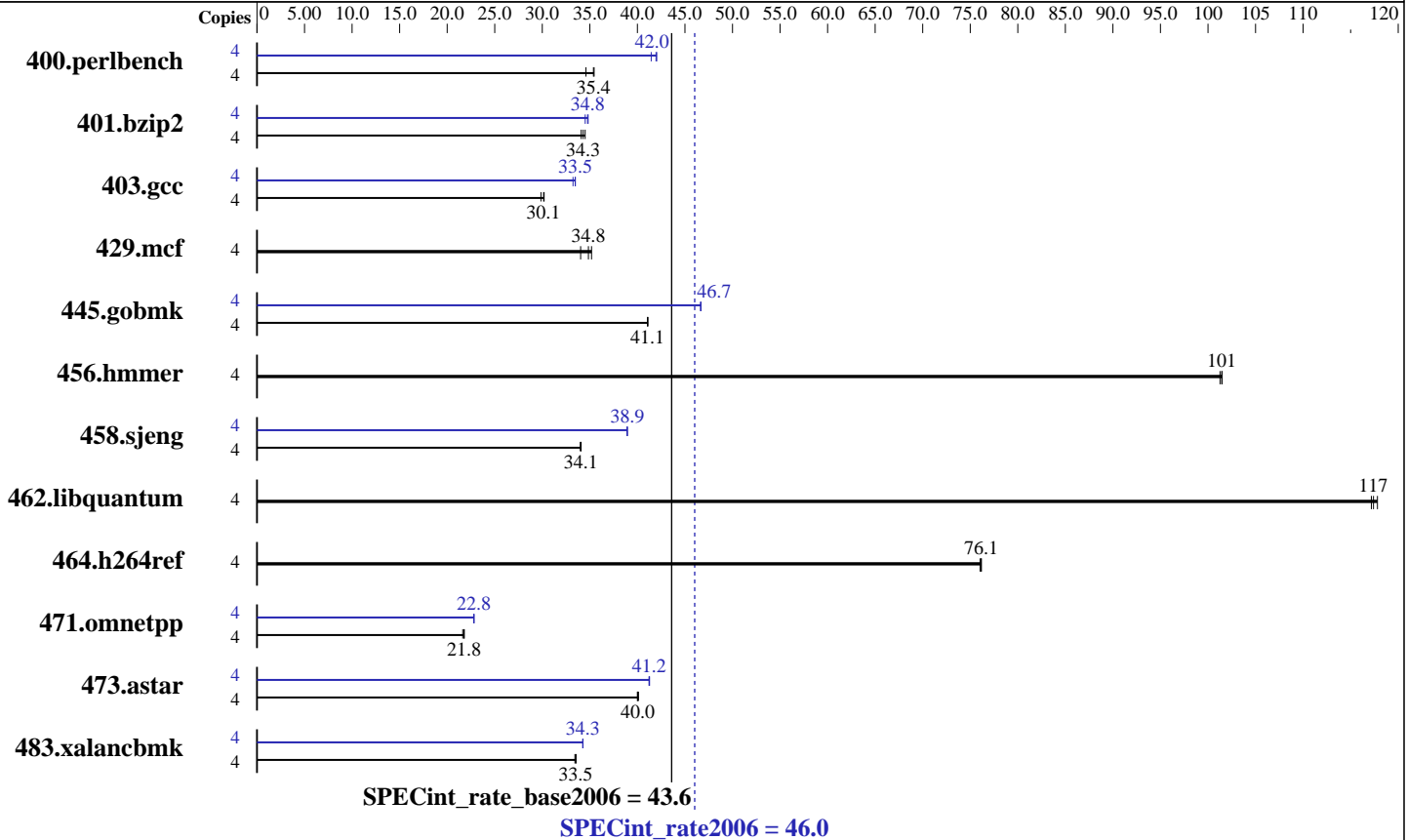
Test date: Jan-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Feb-2007

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: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1-2 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: 8 GB (4x2GB DIMMs)  
 Disk Subsystem: 73GB 10K RPM SAS  
 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	4	1130	34.6	<b><u>1105</u></b>	<b><u>35.4</u></b>	1102	35.4	4	<b><u>931</u></b>	<b><u>42.0</u></b>	943	41.5	930	42.0
401.bzip2	4	1119	34.5	1132	34.1	<b><u>1125</u></b>	<b><u>34.3</u></b>	4	1119	34.5	<b><u>1110</u></b>	<b><u>34.8</u></b>	1109	34.8
403.gcc	4	<b><u>1069</u></b>	<b><u>30.1</u></b>	1079	29.9	1066	30.2	4	969	33.2	<b><u>962</u></b>	<b><u>33.5</u></b>	962	33.5
429.mcf	4	<b><u>1047</u></b>	<b><u>34.8</u></b>	1072	34.0	1037	35.2	4	<b><u>1047</u></b>	<b><u>34.8</u></b>	1072	34.0	1037	35.2
445.gobmk	4	1021	41.1	<b><u>1022</u></b>	<b><u>41.1</u></b>	1022	41.1	4	899	46.7	<b><u>899</u></b>	<b><u>46.7</u></b>	899	46.7
456.hmmer	4	368	101	<b><u>368</u></b>	<b><u>101</u></b>	369	101	4	368	101	<b><u>368</u></b>	<b><u>101</u></b>	369	101
458.sjeng	4	<b><u>1421</u></b>	<b><u>34.1</u></b>	1420	34.1	1424	34.0	4	<b><u>1243</u></b>	<b><u>38.9</u></b>	1244	38.9	1243	38.9
462.libquantum	4	707	117	703	118	<b><u>706</u></b>	<b><u>117</u></b>	4	707	117	703	118	<b><u>706</u></b>	<b><u>117</u></b>
464.h264ref	4	<b><u>1162</u></b>	<b><u>76.1</u></b>	1162	76.2	1164	76.0	4	<b><u>1162</u></b>	<b><u>76.1</u></b>	1162	76.2	1164	76.0
471.omnetpp	4	1147	21.8	1155	21.6	<b><u>1148</u></b>	<b><u>21.8</u></b>	4	<b><u>1096</u></b>	<b><u>22.8</u></b>	1096	22.8	1096	22.8
473.astar	4	702	40.0	<b><u>702</u></b>	<b><u>40.0</u></b>	700	40.1	4	681	41.2	<b><u>681</u></b>	<b><u>41.2</u></b>	680	41.3
483.xalancbmk	4	823	33.6	826	33.4	<b><u>824</u></b>	<b><u>33.5</u></b>	4	805	34.3	806	34.3	<b><u>805</u></b>	<b><u>34.3</u></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.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  
/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.20090715.00.html](http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.00.html)

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

[http://www.spec.org/cpu2006/flags/IPF\\_intel91\\_flags.20090715.00.xml](http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.00.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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 10:15:23 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 6 February 2007.