



# SPEC® CINT2006 Result

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## Hewlett-Packard Company

**SPECint®2006 = 12.4**

HP Integrity BL860c  
(1.6GHz/18MB Dual-Core Intel Itanium 2)

**SPECint\_base2006 = 11.7**

CPU2006 license: 03

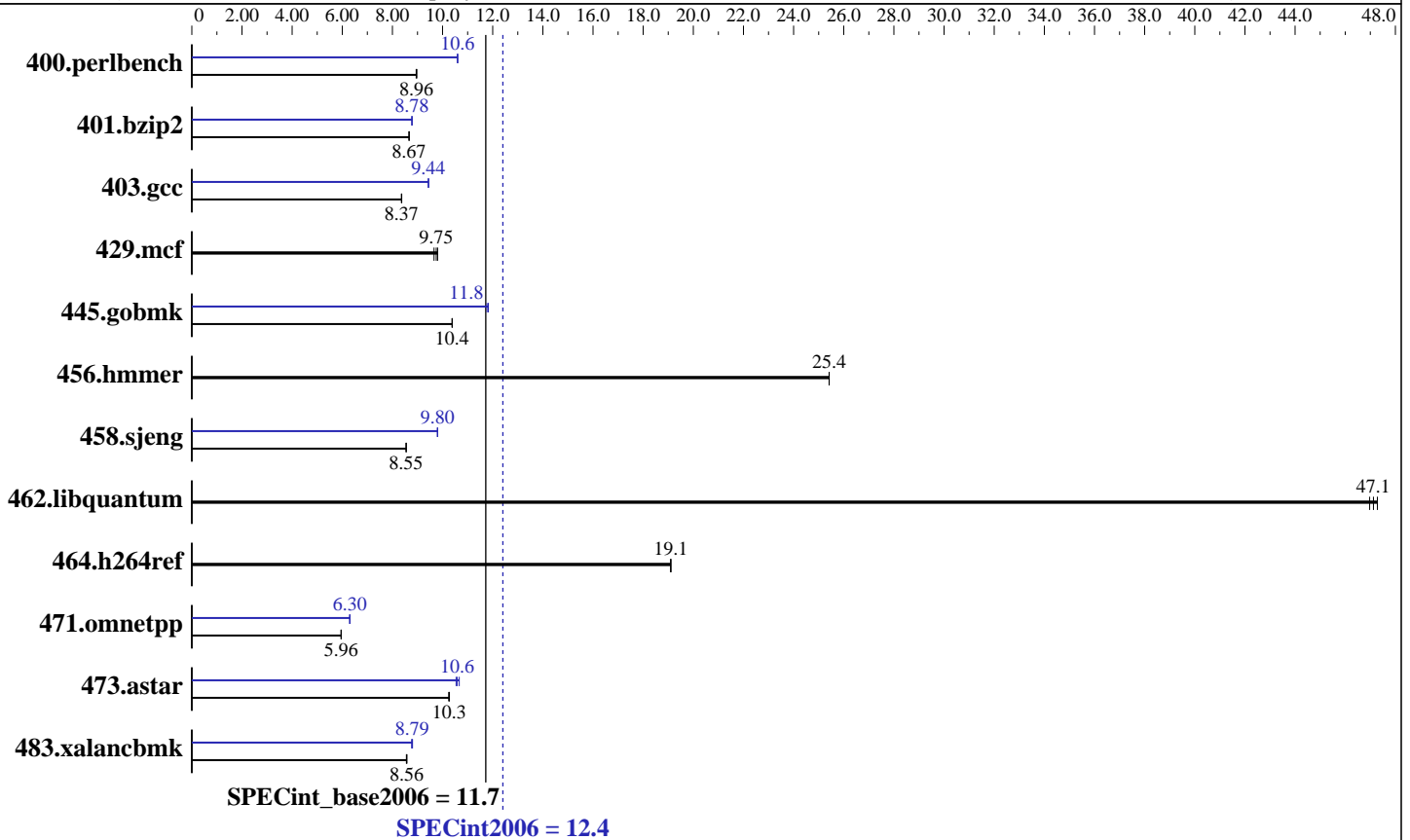
Test date: Feb-2007

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: 1 core, 1 chip, 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: 12 GB (12x1GB DIMMs)  
 Disk Subsystem: 36GB 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1089	8.97	<b>1090</b>	<b>8.96</b>	1092	8.95	<u>922</u>	<u>10.6</u>	922	10.6	922	10.6
401.bzip2	<b>1114</b>	<b>8.67</b>	1114	8.67	1114	8.66	1100	8.78	<b>1099</b>	<b>8.78</b>	1098	8.79
403.gcc	962	8.37	963	8.36	<b>962</b>	<b>8.37</b>	853	9.44	<b>853</b>	<b>9.44</b>	853	9.44
429.mcf	944	9.66	<b>936</b>	<b>9.75</b>	930	9.80	944	9.66	<b>936</b>	<b>9.75</b>	930	9.80
445.gobmk	1010	10.4	1010	10.4	<b>1010</b>	<b>10.4</b>	891	11.8	887	11.8	<b>888</b>	<b>11.8</b>
456.hmmer	<b>367</b>	<b>25.4</b>	367	25.4	367	25.4	<b>367</b>	<b>25.4</b>	367	25.4	367	25.4
458.sjeng	1415	8.55	1416	8.55	<b>1415</b>	<b>8.55</b>	1235	9.80	<b>1235</b>	<b>9.80</b>	1235	9.80
462.libquantum	438	47.3	441	47.0	<b>440</b>	<b>47.1</b>	438	47.3	441	47.0	<b>440</b>	<b>47.1</b>
464.h264ref	1159	19.1	1158	19.1	<b>1159</b>	<b>19.1</b>	1159	19.1	1158	19.1	<b>1159</b>	<b>19.1</b>
471.omnetpp	<b>1049</b>	<b>5.96</b>	1050	5.95	1049	5.96	992	6.30	<b>992</b>	<b>6.30</b>	993	6.30
473.astar	685	10.2	<b>684</b>	<b>10.3</b>	683	10.3	658	10.7	<b>663</b>	<b>10.6</b>	666	10.5
483.xalancbmk	806	8.56	<b>806</b>	<b>8.56</b>	804	8.58	<b>785</b>	<b>8.79</b>	787	8.77	784	8.80

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

system was booted uniprocessor by setting "maxcpus=0"  
kernel parameter in elilo.conf

## 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

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## Base Portability Flags (Continued)

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

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

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## Peak Optimization Flags (Continued)

456.hmmcr: 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.20090715.00.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 other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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