



# SPEC<sup>®</sup> CINT2006 Result

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## Hewlett-Packard Company

**SPECint<sup>®</sup>2006 = 12.9**

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

**SPECint\_base2006 = 12.2**

CPU2006 license: 03

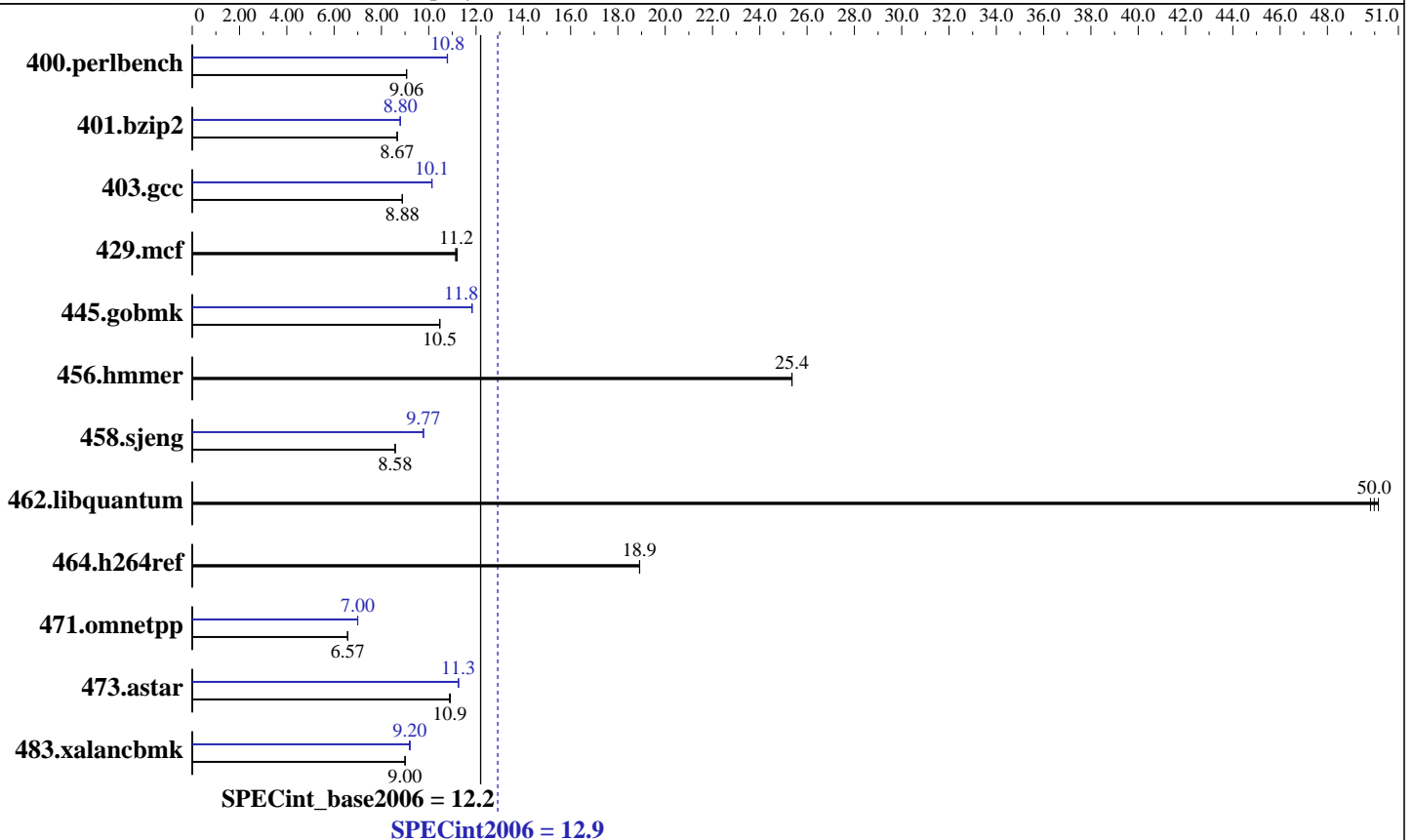
Test date: Oct-2006

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: 1 core, 1 chip, 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1078	9.06	<b>1078</b>	<b>9.06</b>	1077	9.07	906	10.8	905	10.8	<b>905</b>	<b>10.8</b>
401.bzip2	1113	8.67	<b>1113</b>	<b>8.67</b>	1113	8.67	<b>1097</b>	<b>8.80</b>	1097	8.79	1097	8.80
403.gcc	907	8.88	<b>906</b>	<b>8.88</b>	906	8.89	794	10.1	<b>794</b>	<b>10.1</b>	795	10.1
429.mcf	814	11.2	819	11.1	<b>816</b>	<b>11.2</b>	814	11.2	819	11.1	<b>816</b>	<b>11.2</b>
445.gobmk	1002	10.5	<b>1002</b>	<b>10.5</b>	1002	10.5	886	11.8	<b>887</b>	<b>11.8</b>	887	11.8
456.hammer	<b>368</b>	<b>25.4</b>	368	25.4	368	25.4	<b>368</b>	<b>25.4</b>	368	25.4	368	25.4
458.sjeng	1410	8.58	1410	8.58	<b>1410</b>	<b>8.58</b>	1238	9.77	1238	9.78	<b>1238</b>	<b>9.77</b>
462.libquantum	416	49.8	413	50.2	<b>415</b>	<b>50.0</b>	416	49.8	413	50.2	<b>415</b>	<b>50.0</b>
464.h264ref	1170	18.9	<b>1170</b>	<b>18.9</b>	1170	18.9	1170	18.9	<b>1170</b>	<b>18.9</b>	1170	18.9
471.omnetpp	951	6.58	951	6.57	<b>951</b>	<b>6.57</b>	894	6.99	893	7.00	<b>893</b>	<b>7.00</b>
473.astar	645	10.9	643	10.9	<b>644</b>	<b>10.9</b>	<b>624</b>	<b>11.3</b>	624	11.3	623	11.3
483.xalancbmk	<b>767</b>	<b>9.00</b>	766	9.00	767	8.99	752	9.18	<b>750</b>	<b>9.20</b>	749	9.21

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

## General Notes

Submitted\_by: "Kirby Collins" <kirby.collins@hp.com>  
Submitted: Wed Nov 1 13:19:48 2006  
Submission: cpu2006-20061016-00117.sub

## Base Compiler Invocation

C benchmarks:  
icc

C++ benchmarks:  
icpc



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## 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
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

```

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## Peak Optimization Flags (Continued)

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

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

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