SPEC® CINT2006 Result

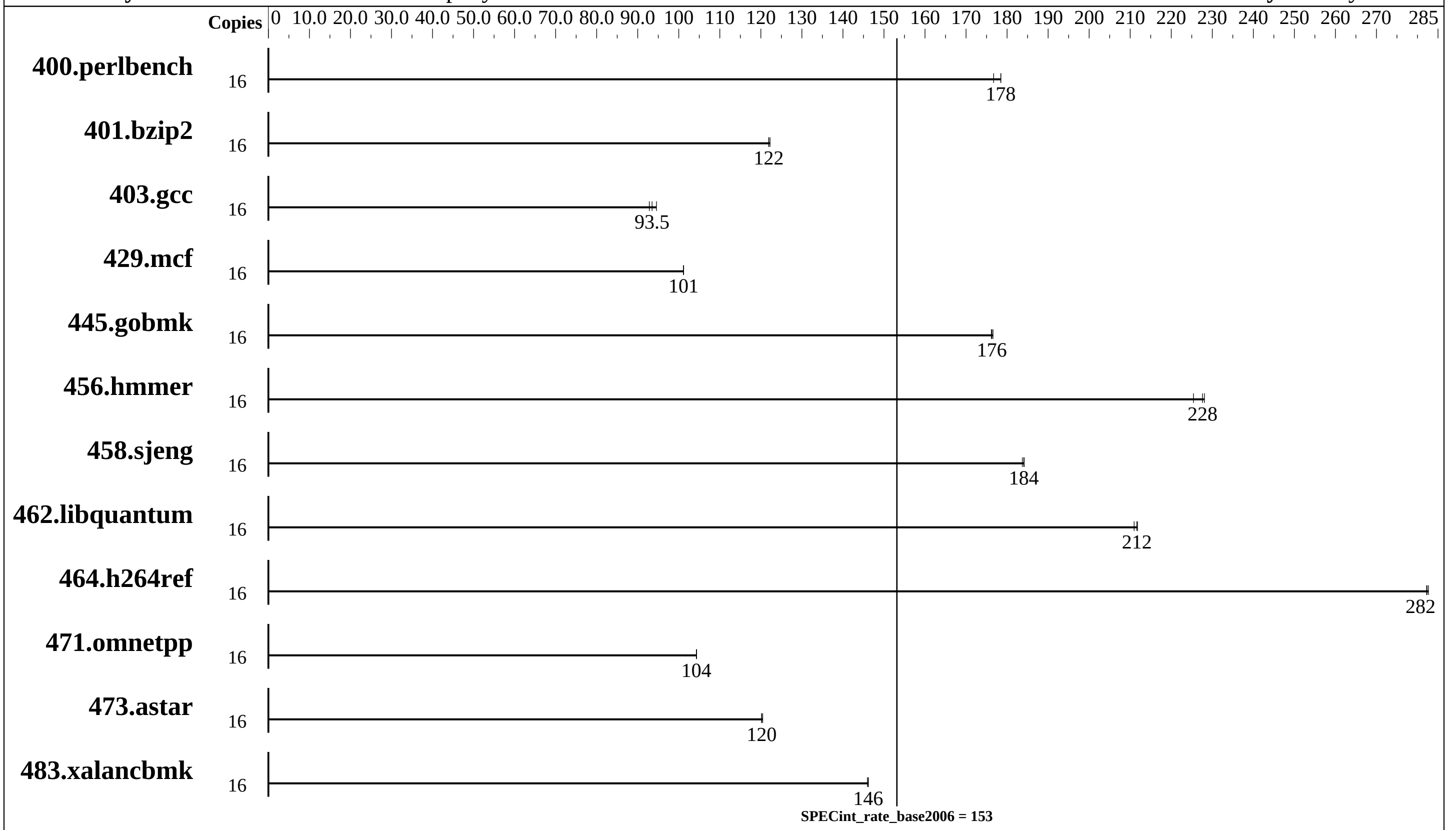
Hewlett-Packard Company

ProLiant BL685c G5
(2.2 GHz AMD Opteron 8354)

SPECint®_rate2006 = Not Run

SPECint_rate_base2006 = 153

CPU2006 license: 3		**Test date:**	Apr-2008
Test sponsor:	Hewlett-Packard Company	**Hardware Availability:**	Apr-2008
Tested by:	Hewlett-Packard Company	**Software Availability:**	May-2008



Hardware

CPU Name:	AMD Opteron 8354
CPU Characteristics:	
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	16 cores, 4 chips, 4 cores/chip
CPU(s) orderable:	2,4 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	512 KB I+D on chip per core
L3 Cache:	2 MB I+D on chip per chip
Other Cache:	None
Memory:	64 GB (16x4 GB, PC2-5300P CL5)
Disk Subsystem:	1x146 GB 10 K SAS
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	PGI Server Complete Version 7.2
Auto Parallel:	No
File System:	ext2
System State:	Run level 3 (multi-user)
Base Pointers:	32/64-bit
Peak Pointers:	Not Applicable
Other Software:	SmartHeap 8.1 32-bit Library for Linux

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Results Table

	Base							Peak						
Benchmark	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
400.perlbench	16	**876**	**178**	885	177	876	178							
401.bzip2	16	1263	122	1267	122	**1266**	**122**							
403.gcc	16	1362	94.6	**1378**	**93.5**	1388	92.8							
429.mcf	16	**1442**	**101**	1442	101	1442	101							
445.gobmk	16	**952**	**176**	951	177	953	176							
456.hmmer	16	**656**	**228**	662	225	654	228							
458.sjeng	16	1054	184	1051	184	**1052**	**184**							
462.libquantum	16	**1567**	**212**	1571	211	1565	212							
464.h264ref	16	1253	283	1255	282	**1254**	**282**							
471.omnetpp	16	959	104	959	104	**959**	**104**							
473.astar	16	**934**	**120**	935	120	932	120							
483.xalancbmk	16	755	146	756	146	**755**	**146**							

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

General Notes

```
Environment stack size set to 'unlimited'
Max locked memory set to 2097152
PGI_HUGE_PAGES set to 896.
Total number of huge pages available is 14336.
```

Base Compiler Invocation

C benchmarks:
pgcc

C++ benchmarks:
pgcpp

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
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

Continued on next page

Base Portability Flags (Continued)

464.h264ref: `-DSPEC_CPU_LP64`
483.xalancbmk: `-DSPEC_CPU_LINUX`

Base Optimization Flags

C benchmarks:

```
-fast -Mipa=jobs:4 -Mipa=fast -Mipa=inline -Mfprelaxed
-Msmartalloc=huge:150 -tp barcelona-64 -Bstatic_pgi
```

C++ benchmarks:

```
-fastsse -Mipa=jobs:4 -Mipa=fast -Mipa=inline -Mfprelaxed
-Msmartalloc=huge:150 --zc_eh -tp barcelona -Bstatic_pgi
```

Base Other Flags

C benchmarks:

```
-w
```

C++ benchmarks:

```
-w
```

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/amd123GH-flags.20090714.04.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/amd123GH-flags.20090714.04.xml

Tested with SPEC CPU2006 v1.0.
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