SPEC® CINT2006 Result
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Dell Inc.

SPECint®_rate2006 =   154

PowerEdge R810 (Intel Xeon E6510, 1.73 GHz)
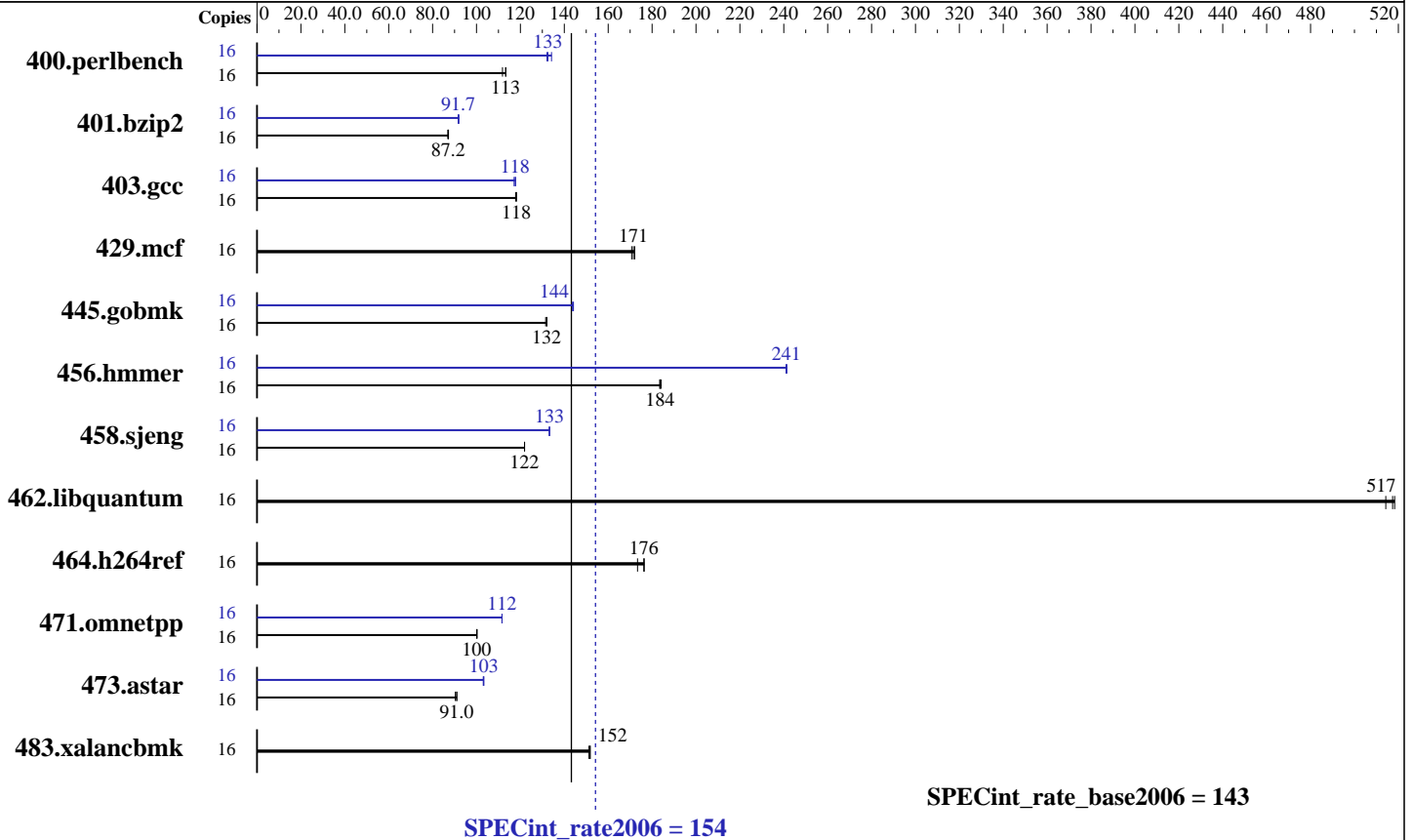
SPECint_rate_base2006 =   143

CPU2006 license: 55

Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Jun-2010

Hardware Availability: Mar-2010

Software Availability: Dec-2009

SPECint_rate_base2006 = 143

SPECint_rate2006 = 154

Benchmark	Copies	Value
400.perlbench	16	133
400.perlbench	16	113
401.bzip2	16	91.7
401.bzip2	16	87.2
403.gcc	16	118
403.gcc	16	118
429.mcf	16	171
445.gobmk	16	144
445.gobmk	16	132
456.hmmer	16	241
456.hmmer	16	184
458.sjeng	16	133
458.sjeng	16	122
462.libquantum	16	517
464.h264ref	16	176
471.omnetpp	16	112
471.omnetpp	16	100
473.astar	16	103
473.astar	16	91.0
483.xalancbmk	16	152

Hardware

CPU Name: Intel Xeon E6510

CPU Characteristics:

CPU MHz: 1733

FPU: Integrated

CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core

CPU(s) orderable: 2,4 chips

Primary Cache: 32 KB I + 32 KB D on chip per core

Secondary Cache: 256 KB I+D on chip per core

L3 Cache: 12 MB I+D on chip per chip

Other Cache: None

Memory: 128 GB (32 x 4 GB DDR3-1066 QR RDIMM, CL7, ECC, downclocked to 800 MHz)

Disk Subsystem: 1 x 146 GB 15000 RPM SAS

Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-smp

Compiler: Intel C++ Professional Compiler for IA32 and Intel 64, Version 11.1
Build 20091130 Package ID: l_cproc_p_11.1.064

Auto Parallel: No

File System: ext3

System State: Run level 3 (multi-user)

Base Pointers: 32-bit

Peak Pointers: 32/64-bit

Other Software: Microquill SmartHeap V8.1

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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	16	1380	113	**1380**	**113**	1398	112	16	1165	134	1183	132	**1179**	**133**
401.bzip2	16	**1771**	**87.2**	1777	86.9	1770	87.2	16	1679	92.0	**1684**	**91.7**	1684	91.7
403.gcc	16	1093	118	1090	118	**1090**	**118**	16	1100	117	1093	118	**1095**	**118**
429.mcf	16	**851**	**171**	855	171	848	172	16	**851**	**171**	855	171	848	172
445.gobmk	16	**1272**	**132**	1276	132	1271	132	16	**1166**	**144**	1164	144	1168	144
456.hmmer	16	811	184	814	183	**813**	**184**	16	618	241	**619**	**241**	619	241
458.sjeng	16	1589	122	1588	122	**1589**	**122**	16	**1453**	**133**	1454	133	1452	133
462.libquantum	16	640	518	645	514	**641**	**517**	16	640	518	645	514	**641**	**517**
464.h264ref	16	2007	176	2042	173	**2009**	**176**	16	2007	176	2042	173	**2009**	**176**
471.omnetpp	16	998	100	999	100	**999**	**100**	16	896	112	896	112	**896**	**112**
473.astar	16	1234	91.0	1243	90.3	**1234**	**91.0**	16	**1088**	**103**	1090	103	1087	103
483.xalancbmk	16	727	152	**728**	**152**	730	151	16	727	152	**728**	**152**	730	151

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

Submit Notes

    The config file option 'submit' was used.
     numactl was used to bind copies to the cores

Operating System Notes

    'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

Platform Notes

    vm.zone_reclaim_mode = 1 in /etc/sysctl.conf file
    BIOS Settings:
    Power Management = Maximum Performance (Default = Active Power Controller)

General Notes

    Binaries were compiled on SLES 10 with Binutils 2.18.50.0.7.20080502

Base Compiler Invocation

C benchmarks:
      icc -m32

C++ benchmarks:
      icpc -m32

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Base Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap
```

Base Other Flags

C benchmarks:

```
403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):
```
icc  -m32
```

```
    401.bzip2: icc -m64
```

```
  456.hmmer: icc -m64
```

```
   458.sjeng: icc -m64
```

C++ benchmarks (except as noted below):
```
icpc -m32
```

```
    473.astar: icpc -m64
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
  401.bzip2: -DSPEC_CPU_LP64
 456.hmmer: -DSPEC_CPU_LP64
  458.sjeng: -DSPEC_CPU_LP64
```

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Peak Portability Flags (Continued)

```
  462.libquantum: -DSPEC_CPU_LINUX
       473.astar: -DSPEC_CPU_LP64
   483.xalancbmk: -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
  400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                 -prof-use(pass 2) -ansi-alias

      401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                 -prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

        403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static

        429.mcf: basepeak = yes

      445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2
                 -ipo -no-prec-div -ansi-alias

      456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2
                 -ansi-alias -auto-ilp32

      458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -static(pass 2)
                 -prof-use(pass 2) -unroll4 -auto-ilp32

  462.libquantum: basepeak = yes

     464.h264ref: basepeak = yes
```

C++ benchmarks:

```
    471.omnetpp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
                 -ansi-alias -opt-ra-region-strategy=block -Wl,-z,muldefs
                 -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-32bit -lsmartheap

      473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)
                 -O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)
                 -ansi-alias -opt-ra-region-strategy=routine -Wl,-z,muldefs
                 -L/home/cmplr/usr3/alrahate/cpu2006.1.1.ic11.1/libic11.1-64bit -lsmartheap64

   483.xalancbmk: basepeak = yes
```

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Peak Other Flags

C benchmarks:

      403.gcc: `-Dalloca=_alloca`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100330.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic11.1-linux64-revE.20100330.xml`

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