SPEC® CINT2006 Result
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Fujitsu Siemens Computers

PRIMERGY RX300 S4, Intel Xeon E5430, 2.66 GHz

SPECint®2006 = 24.0

SPECint_base2006 = 21.0

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Apr-2008
Hardware Availability: Dec-2007
Software Availability: Nov-2007

0   10.0   20.0   30.0   40.0   50.0   60.0   70.0   80.0   90.0   100   110   120   130   140   150   160   170   180   190   200 210

400.perlbench 21.6 / 17.5
401.bzip2 15.7 / 14.5
403.gcc 18.1 / 13.6
429.mcf 22.4 / 20.9
445.gobmk 19.5 / 17.6
456.hmmer 24.3 / 14.0
458.sjeng 17.7 / 16.0
462.libquantum 205 / 206
464.h264ref 29.5 / 27.6
471.omnetpp 15.8 / 14.5
473.astar 14.8 / 13.5
483.xalancbmk 22.9

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Hardware

CPU Name:	Intel Xeon E5430
CPU Characteristics:	1333 MHz system bus
CPU MHz:	2667
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (8x2 GB PC2-5300F, 2 rank, CL 5-5-5, ECC)
Disk Subsystem:	1x SAS, 73 GB, 15000 rpm
Other Hardware:	None

Software

Operating System:	SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler:	Intel C++ Compiler for Linux32 and Linux64, Version 10.1, Build 20070913
Auto Parallel:	Yes
File System:	ext2
System State:	Multi-User Run Level 3
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library, Version 8.1 binutils-2.17.50.0.5-0.1.x86_64

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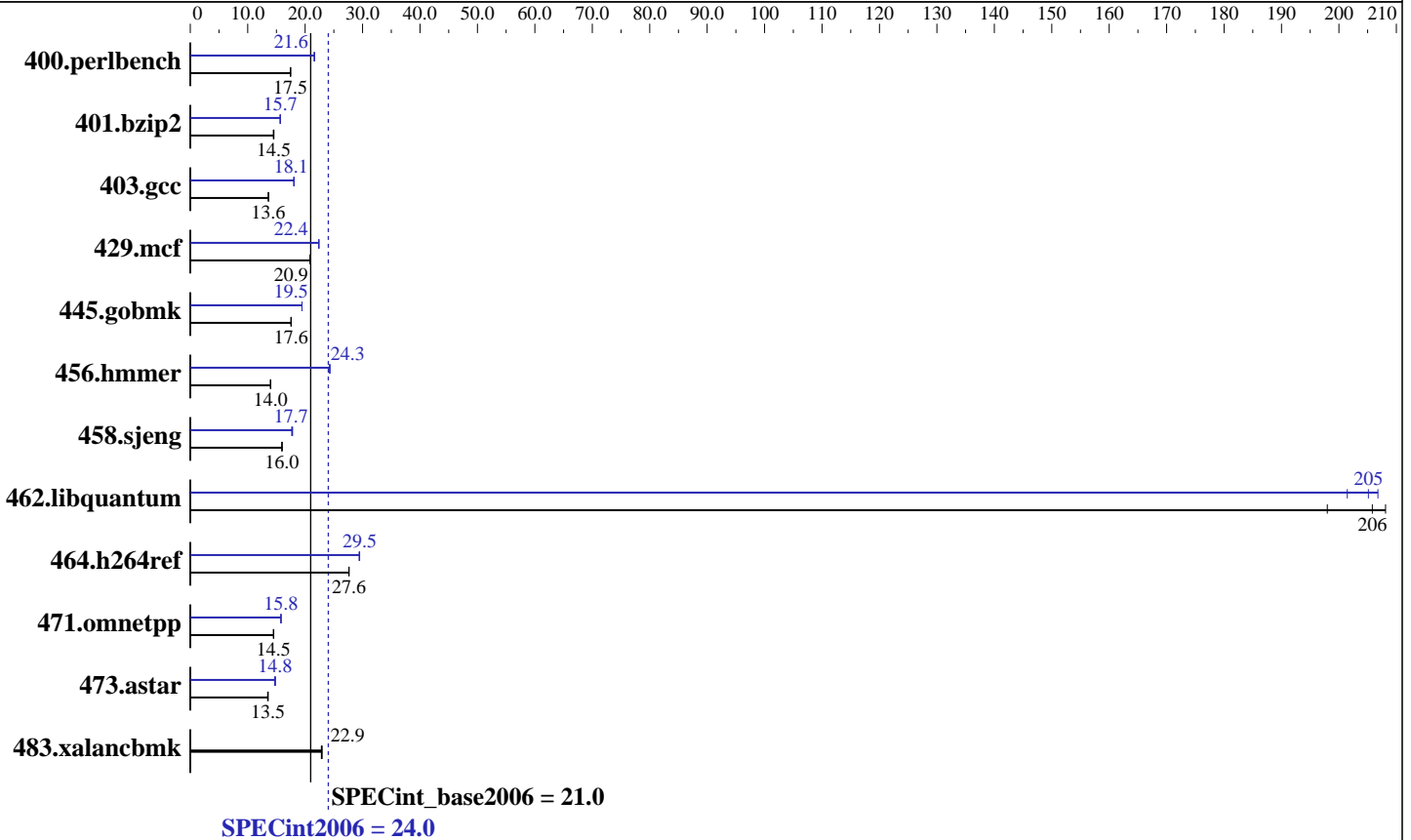PRIMERGY RX300 S4, Intel Xeon E5430, 2.66 GHz

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	559	17.5	560	17.4	**560**	**17.5**	**452**	**21.6**	453	21.6	451	21.6
401.bzip2	**664**	**14.5**	663	14.6	667	14.5	617	15.6	616	15.7	**616**	**15.7**
403.gcc	592	13.6	591	13.6	**592**	**13.6**	447	18.0	**446**	**18.1**	445	18.1
429.mcf	437	20.9	438	20.8	**437**	**20.9**	**407**	**22.4**	408	22.4	407	22.4
445.gobmk	598	17.5	**598**	**17.6**	597	17.6	**539**	**19.5**	539	19.4	539	19.5
456.hmmer	668	14.0	667	14.0	**668**	**14.0**	**384**	**24.3**	384	24.3	384	24.3
458.sjeng	**757**	**16.0**	759	15.9	757	16.0	**682**	**17.7**	679	17.8	685	17.7
462.libquantum	**101**	**206**	99.6	208	105	198	**101**	**205**	100	207	103	201
464.h264ref	**801**	**27.6**	801	27.6	801	27.6	**751**	**29.5**	751	29.5	753	29.4
471.omnetpp	430	14.5	432	14.5	**431**	**14.5**	396	15.8	395	15.8	**396**	**15.8**
473.astar	**519**	**13.5**	518	13.6	521	13.5	**474**	**14.8**	478	14.7	474	14.8
483.xalancbmk	301	23.0	302	22.8	**302**	**22.9**	301	23.0	302	22.8	**302**	**22.9**

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
OMP_NUM_THREADS set to number of cores (default)

Platform Notes

Hardware Prefetch = Enable, Adjacent Sector Prefetch = Enable

General Notes

All binaries were built with 32-bit Intel compiler except:
401.bzip2 and 456.hmmer in peak were built with 64-bit Intel
compiler by changing the path for include and library files.

For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com

Base Compiler Invocation

C benchmarks:
    icc

C++ benchmarks:
    icpc

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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:
```
-fast -vec-guard-write -parallel -par-runtime-control
```

C++ benchmarks:
```
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/opt/SmartHeap_8.1/lib -lsmartheap
```

Base Other Flags

C benchmarks:

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

Peak Compiler Invocation

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

```
401.bzip2: /opt/intel/cce/10.1.008/bin/icc
           -L/opt/intel/cce/10.1.008/lib
           -I/opt/intel/cce/10.1.008/include
```

```
456.hmmer: /opt/intel/cce/10.1.008/bin/icc
           -L/opt/intel/cce/10.1.008/lib
           -I/opt/intel/cce/10.1.008/include
```

C++ benchmarks:
```
icpc
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LINUX
```

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Peak Portability Flags (Continued)

483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

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

456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive
-auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/opt/SmartHeap_8.1/lib -lsmartheap

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-ic10-ia32-intel64-linux-flags.20090713.01.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090713.01.xml`

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 19:06:41 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 September 2008.