SPEC® CINT2006 Result

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Bull SAS

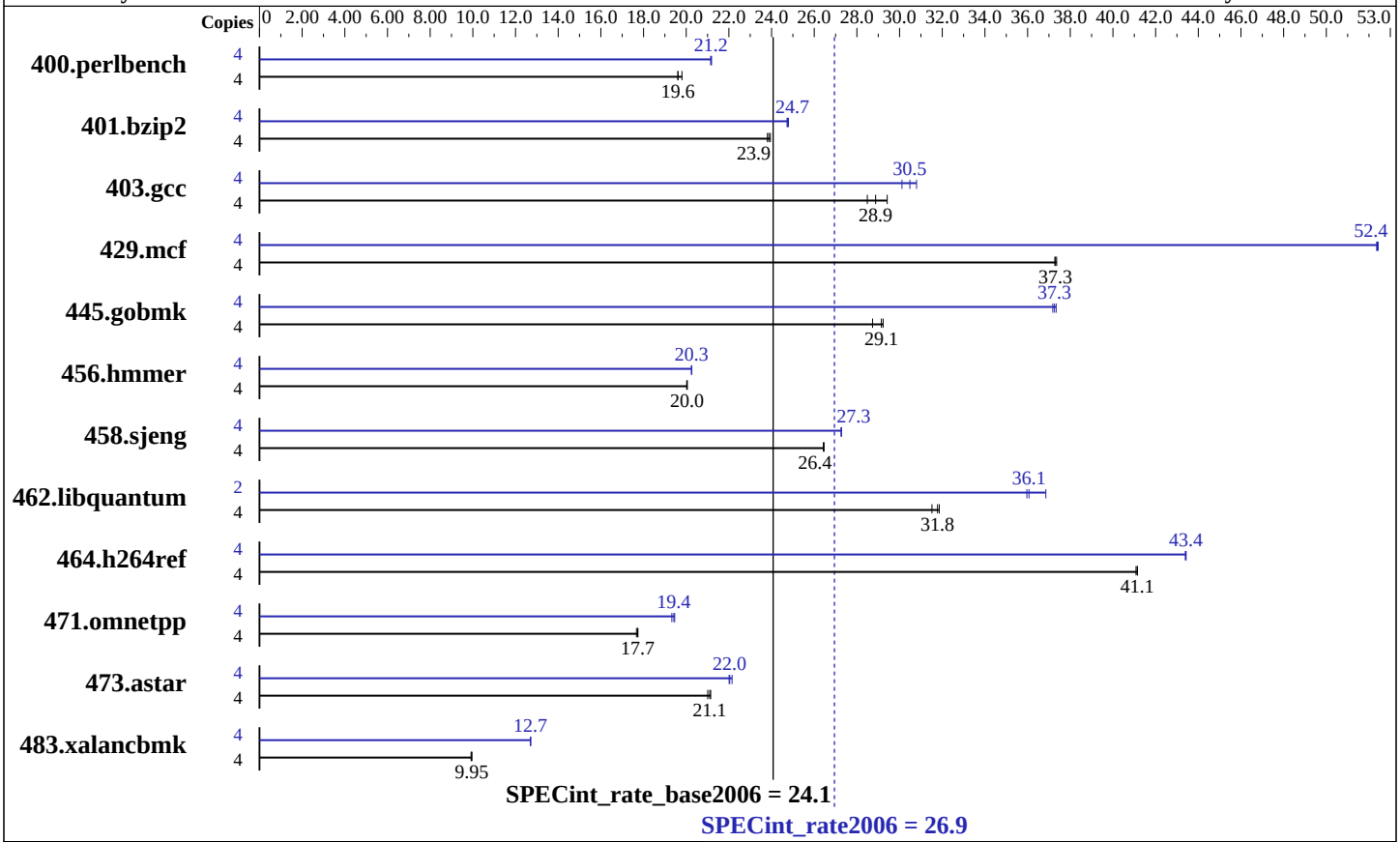
Bull Escala PL250R+ (2100 MHz, 2 CPU)

SPECint®_rate2006 = 26.9

SPECint_rate_base2006 = 24.1

CPU2006 license: 20
Test sponsor: Bull SAS
Tested by: Bull SAS

Test date: Feb-2007
Hardware Availability: Feb-2006
Software Availability: Dec-2006



Hardware

CPU Name:	POWER5+
CPU Characteristics:	
CPU MHz:	2100
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip, 2 threads/core
CPU(s) orderable:	1 chip
Primary Cache:	64 KB I + 32 KB D on chip per core
Secondary Cache:	1920 KB I+D on chip per chip
L3 Cache:	36 MB I+D off chip per chip
Other Cache:	None
Memory:	32 GB (8x4 GB)
Disk Subsystem:	1x73 GB SCSI, 15K RPM
Other Hardware:	None

Software

Operating System:	AIX 5L V5.3
Compiler:	XL C/C++ Enterprise Edition Version 8.0 for AIX with the December 2006 PTF XL Fortran Enterprise Edition Version 10.1 for AIX with the November 2006 PTF
Auto Parallel:	No
File System:	AIX/JFS2
System State:	Multi-user
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	ESSL 4.2.0.4

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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	4	1993	19.6	**1992**	**19.6**	1974	19.8	4	1844	21.2	**1847**	**21.2**	1848	21.1
401.bzip2	4	**1617**	**23.9**	1612	23.9	1622	23.8	4	1557	24.8	1561	24.7	**1560**	**24.7**
403.gcc	4	1094	29.4	**1115**	**28.9**	1130	28.5	4	**1056**	**30.5**	1046	30.8	1069	30.1
429.mcf	4	976	37.4	979	37.3	**978**	**37.3**	4	696	52.4	**696**	**52.4**	697	52.4
445.gobmk	4	**1440**	**29.1**	1460	28.7	1436	29.2	4	1129	37.2	1124	37.3	**1126**	**37.3**
456.hmmer	4	**1862**	**20.0**	1864	20.0	1861	20.1	4	1844	20.2	**1843**	**20.3**	1842	20.3
458.sjeng	4	**1830**	**26.4**	1831	26.4	1830	26.5	4	1775	27.3	**1775**	**27.3**	1774	27.3
462.libquantum	4	2601	31.9	**2608**	**31.8**	2630	31.5	2	1124	36.9	**1149**	**36.1**	1152	36.0
464.h264ref	4	2155	41.1	2151	41.1	**2152**	**41.1**	4	2038	43.4	**2039**	**43.4**	2040	43.4
471.omnetpp	4	1410	17.7	**1410**	**17.7**	1415	17.7	4	1285	19.5	1294	19.3	**1287**	**19.4**
473.astar	4	1328	21.1	**1331**	**21.1**	1337	21.0	4	1276	22.0	1268	22.1	**1274**	**22.0**
483.xalancbmk	4	**2775**	**9.95**	2773	9.95	2783	9.92	4	2174	12.7	**2172**	**12.7**	2172	12.7

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

Operating System Notes

```
ulimits set to unlimited

bindprocessor command used on submit to bind each copy to a
unique processor.

Large page mode was set as follows:
vmo -r -o lgpg_regions=900 -o lgpg_size=16777216
SMT was ebabled using the AIX commands
smtctl -m on -w boot
bosboot -aD
shutdown -rF
```

Base Compiler Invocation

C benchmarks:
```
/usr/vac/bin/xlc
```

C++ benchmarks:
```
/usr/vacpp/bin/xlC
```

Base Portability Flags

400.perlbench: -DSPEC_CPU_AIX
462.libquantum: -DSPEC_CPU_AIX
464.h264ref: -DSPEC_CPU_AIX -qchars=signed
483.xalancbmk: -DSPEC_CPU_AIX

Base Optimization Flags

C benchmarks:
-qlanglvl=extc99 -O4 -qlargepage -D_ILS_MACROS -qalloca
-qipa=noobject -blpdata -qipa=threads

C++ benchmarks:
-O4 -qlargepage -D_ILS_MACROS -qrtti=all -qipa=noobject -blpdata
-qipa=threads

Base Other Flags

C benchmarks:
-bmaxdata:0x50000000 -qalias=noansi -qsuppress=1500-036

C++ benchmarks:
-bmaxdata:0x20000000 -qsuppress=1500-036

Peak Compiler Invocation

C benchmarks:
/usr/vac/bin/xlc

C++ benchmarks:
/usr/vacpp/bin/xlC

Peak Portability Flags

400.perlbench: -DSPEC_CPU_AIX
462.libquantum: -DSPEC_CPU_AIX
464.h264ref: -DSPEC_CPU_AIX -qchars=signed
483.xalancbmk: -DSPEC_CPU_AIX

Peak Optimization Flags

C benchmarks:

400.perlbench: `-qlanglvl=extc99 -qpdf1`(pass 1) `-qpdf2`(pass 2) `-O5 -qlargepage -D_ILS_MACROS -qipa=noobject -blpdata -qipa=threads`

401.bzip2: Same as 400.perlbench

403.gcc: `-qlanglvl=extc99 -qpdf1`(pass 1) `-qpdf2`(pass 2) `-O5 -qlargepage -D_ILS_MACROS -qalloca -qipa=noobject -blpdata -qipa=threads`

429.mcf: `-qlanglvl=extc99 -O5 -qlargepage -D_ILS_MACROS -qarch=pwr4 -qipa=noobject -blpdata -qipa=threads`

445.gobmk: `-qlanglvl=extc99 -qpdf1`(pass 1) `-qpdf2`(pass 2) `-O4 -qlargepage -D_ILS_MACROS -qipa=noobject -blpdata -qipa=threads`

456.hmmer: `-qlanglvl=extc99 -O4 -qlargepage -D_ILS_MACROS -qipa=noobject -blpdata -qipa=threads`

458.sjeng: Same as 445.gobmk

462.libquantum: `-qlanglvl=extc99 -qpdf1`(pass 1) `-qpdf2`(pass 2) `-O4 -qlargepage -D_ILS_MACROS -q64 -qipa=noobject -blpdata -qipa=threads`

464.h264ref: Same as 400.perlbench

C++ benchmarks:

471.omnetpp: `-qpdf1`(pass 1) `-qpdf2`(pass 2) `-O5 -qlargepage -D_ILS_MACROS -qalign=natural -qrtti=all -D__IBM_FAST_VECTOR -qipa=noobject -blpdata -qipa=threads`

473.astar: `-qpdf1`(pass 1) `-qpdf2`(pass 2) `-O5 -qlargepage -D_ILS_MACROS -D__IBM_ENABLE_POOLED_ALLOCATORS__ -qipa=noobject -blpdata -qipa=threads`

483.xalancbmk: Same as 473.astar

Peak Other Flags

C benchmarks (except as noted below):
`-qfdpr -qsuppress=1500-036`

Continued on next page

Peak Other Flags (Continued)

400.perlbench: `-bmaxdata:0x50000000 -qalias=noansi -qsuppress=1500-036`

401.bzip2: `-bmaxdata:0x50000000 -qsuppress=1500-036`

403.gcc: `-bmaxdata:0x50000000 -qsuppress=1500-036`

429.mcf: `-bmaxdata:0x50000000 -qfdpr -qsuppress=1500-036`

458.sjeng: `-qsuppress=1500-036`

464.h264ref: `-qsuppress=1500-036`

C++ benchmarks:
`-bmaxdata:0x20000000 -qsuppress=1500-036`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.19.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.19.xml`

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