



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 12.8

Bull Escala PL250R+ (2100 MHz, 1 CPU)

SPECint_base2006 = 10.1

CPU2006 license: 20

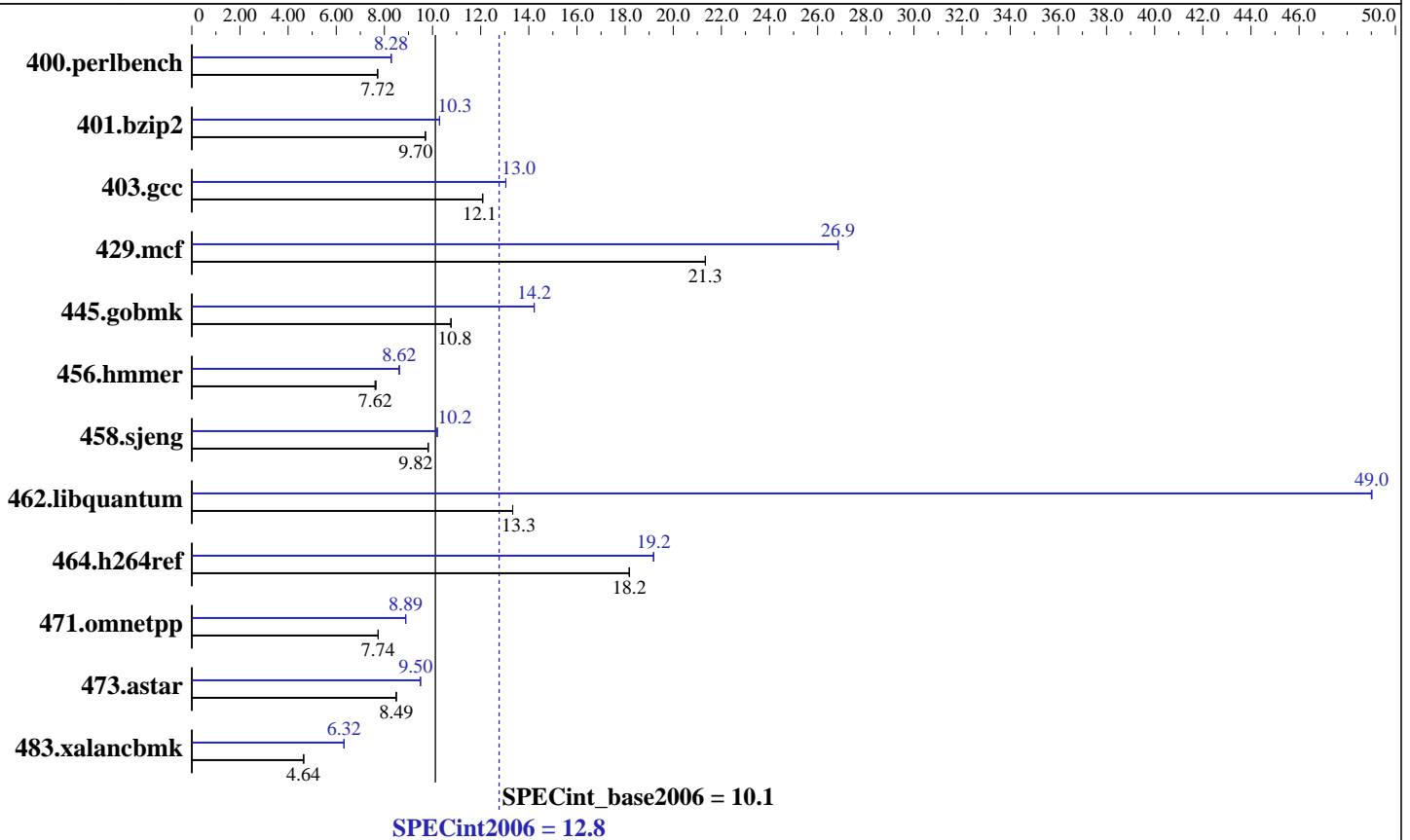
Test sponsor: Bull SAS

Tested by: Bull SAS

Test date: Jan-2007

Hardware Availability: Feb-2006

Software Availability: Dec-2006



Hardware

CPU Name: POWER5+
 CPU Characteristics:
 CPU MHz: 2100
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	1265	7.72	1268	7.71	1265	7.72	1180	8.28	1179	8.28	1179	8.29
401.bzip2	995	9.70	994	9.70	995	9.70	937	10.3	938	10.3	938	10.3
403.gcc	666	12.1	666	12.1	666	12.1	617	13.0	617	13.0	617	13.0
429.mcf	428	21.3	427	21.3	427	21.3	340	26.8	340	26.9	340	26.9
445.gobmk	975	10.8	974	10.8	974	10.8	738	14.2	737	14.2	738	14.2
456.hammer	1225	7.62	1225	7.62	1219	7.65	1083	8.61	1083	8.62	1082	8.62
458.sjeng	1232	9.82	1232	9.82	1232	9.82	1187	10.2	1187	10.2	1187	10.2
462.libquantum	1554	13.3	1555	13.3	1554	13.3	423	49.0	423	49.0	423	49.0
464.h264ref	1218	18.2	1218	18.2	1217	18.2	1153	19.2	1153	19.2	1154	19.2
471.omnetpp	807	7.75	807	7.74	808	7.74	704	8.88	703	8.89	703	8.89
473.astar	826	8.49	827	8.49	827	8.49	739	9.50	739	9.49	739	9.50
483.xalancbmk	1486	4.64	1486	4.64	1485	4.65	1091	6.32	1091	6.33	1092	6.32

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

Operating System Notes

```
ulimits set to unlimited
```

```
Large page mode was set as follows:
vmo -r -o lpgg_regions=800 -o lpgg_size=16777216
1 core was deconfigured and SMT disabled using the AIX commands
smtctl -m off -w boot
bosboot -aD
shutdown -rF
drmgr -r -c cpu
```

Base Compiler Invocation

C benchmarks:
/usr/vac/bin/xlc

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



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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
```



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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

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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.20090715.15.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.15.xml

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For other inquiries, please contact webmaster@spec.org.

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