



SPEC® CINT2006 Result

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Bull SAS

SPECint®2006 = 12.8

Bull Escala PL450R+ (2100 MHz, 1 CPU)

SPECint_base2006 = 10.1

CPU2006 license: 20

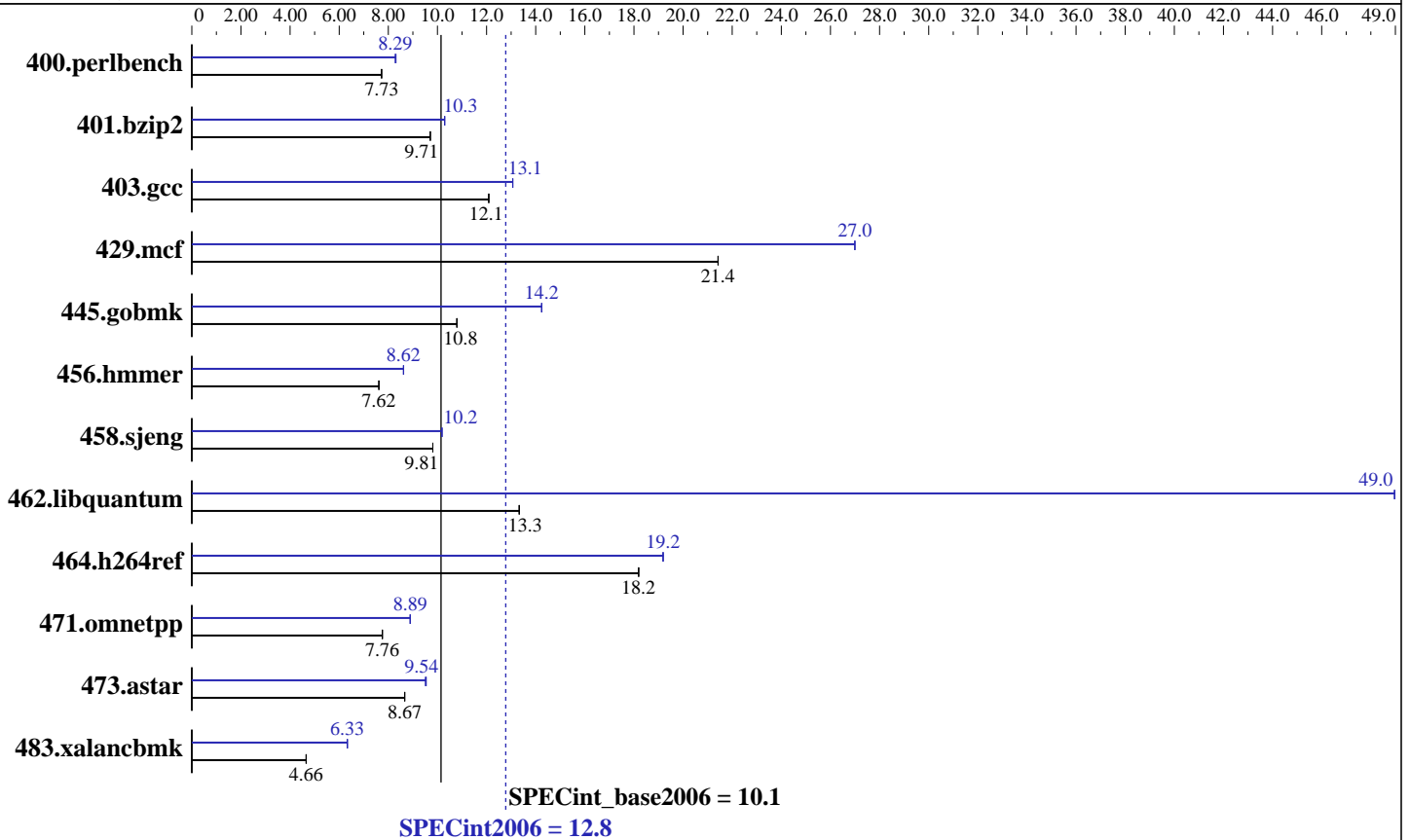
Test date: Jan-2007

Test sponsor: Bull SAS

Hardware Availability: Feb-2006

Tested by: Bull SAS

Software Availability: Dec-2006



Hardware

CPU Name: POWER5+
 CPU Characteristics: 2100
 CPU MHz: 2100
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1, 2 chips
 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: 2x73 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	1266	7.72	1264	7.73	<u>1264</u>	<u>7.73</u>	<u>1179</u>	<u>8.29</u>	1175	8.31	1179	8.28
401.bzip2	994	9.71	994	9.71	<u>994</u>	<u>9.71</u>	937	10.3	<u>938</u>	<u>10.3</u>	938	10.3
403.gcc	666	12.1	<u>666</u>	<u>12.1</u>	666	12.1	616	13.1	<u>616</u>	<u>13.1</u>	616	13.1
429.mcf	426	21.4	426	21.4	<u>426</u>	<u>21.4</u>	338	27.0	338	27.0	<u>338</u>	<u>27.0</u>
445.gobmk	972	10.8	<u>972</u>	<u>10.8</u>	972	10.8	737	14.2	<u>736</u>	<u>14.2</u>	736	14.2
456.hammer	1225	7.62	1226	7.61	<u>1225</u>	<u>7.62</u>	<u>1083</u>	<u>8.62</u>	1083	8.62	1082	8.62
458.sjeng	1233	9.81	<u>1233</u>	<u>9.81</u>	1233	9.81	1188	10.2	<u>1188</u>	<u>10.2</u>	1188	10.2
462.libquantum	<u>1555</u>	<u>13.3</u>	1554	13.3	1555	13.3	423	49.0	<u>423</u>	<u>49.0</u>	423	49.0
464.h264ref	<u>1217</u>	<u>18.2</u>	1216	18.2	1217	18.2	<u>1154</u>	<u>19.2</u>	1153	19.2	1154	19.2
471.omnetpp	<u>806</u>	<u>7.76</u>	805	7.76	806	7.76	703	8.89	703	8.89	<u>703</u>	<u>8.89</u>
473.astar	<u>810</u>	<u>8.67</u>	810	8.66	810	8.67	739	9.51	736	9.54	<u>736</u>	<u>9.54</u>
483.xalancbmk	1484	4.65	1481	4.66	<u>1482</u>	<u>4.66</u>	1091	6.32	<u>1090</u>	<u>6.33</u>	1089	6.34

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 lgpg_regions=800 -o lgpg_size=16777216
3 cores were deconfigured and SMT disabled using the AIX commands
smtctl -m off -w boot
bosboot -aD
shutdown -rF
drmgr -r -c cpu
drmgr -r -c cpu
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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