SPEC® CINT2006 Result

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Bull SAS

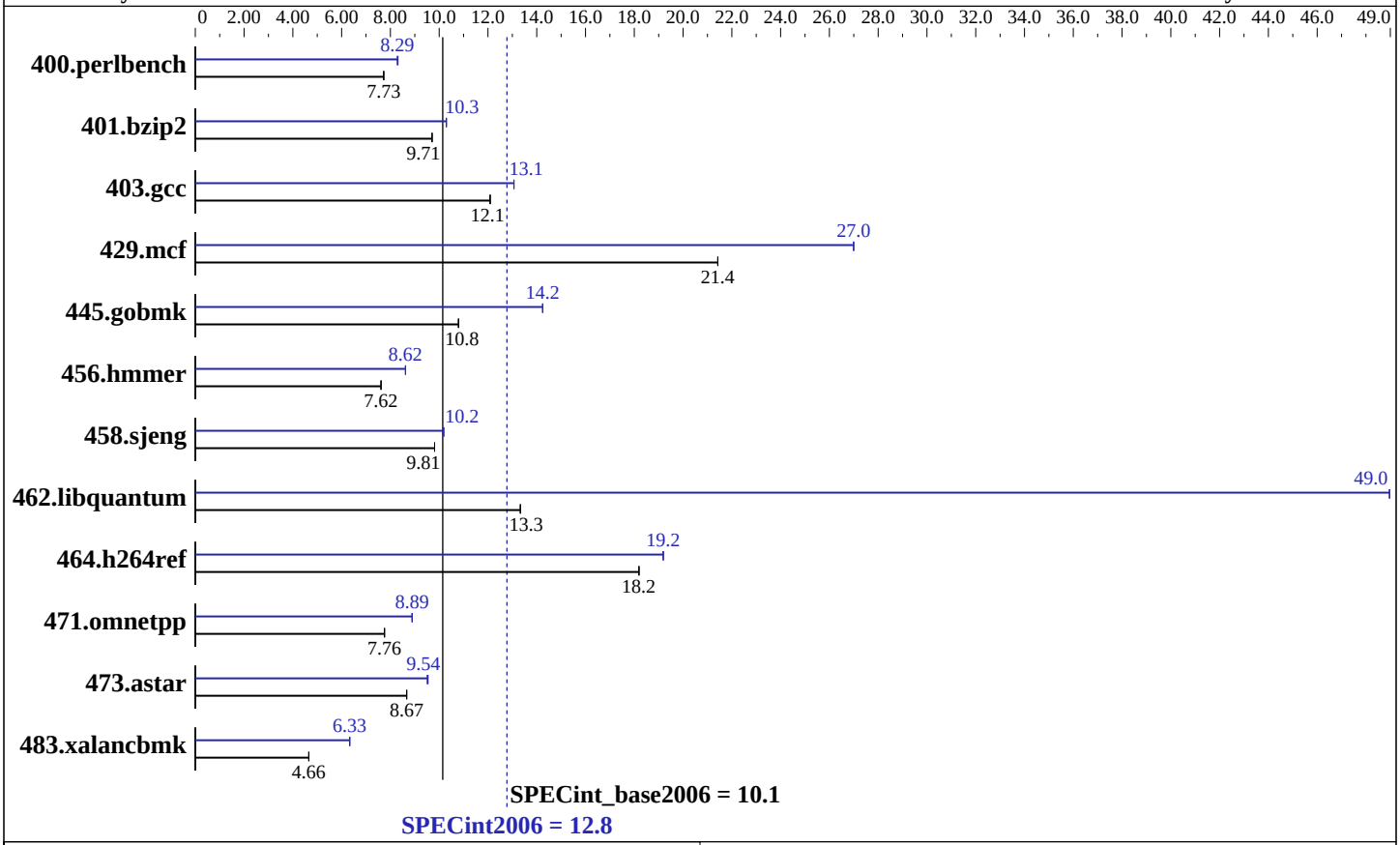
Bull Escala PL450R+ (2100 MHz, 1 CPU)

SPECint®2006 = 12.8

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, 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	**1264**	**7.73**	**1179**	**8.29**	1175	8.31	1179	8.28
401.bzip2	994	9.71	994	9.71	**994**	**9.71**	937	10.3	**938**	**10.3**	938	10.3
403.gcc	666	12.1	**666**	**12.1**	666	12.1	616	13.1	**616**	**13.1**	616	13.1
429.mcf	426	21.4	426	21.4	**426**	**21.4**	338	27.0	338	27.0	**338**	**27.0**
445.gobmk	972	10.8	**972**	**10.8**	972	10.8	737	14.2	**736**	**14.2**	736	14.2
456.hmmer	1225	7.62	1226	7.61	**1225**	**7.62**	**1083**	**8.62**	1083	8.62	1082	8.62
458.sjeng	1233	9.81	**1233**	**9.81**	1233	9.81	1188	10.2	**1188**	**10.2**	1188	10.2
462.libquantum	**1555**	**13.3**	1554	13.3	1555	13.3	423	49.0	**423**	**49.0**	423	49.0
464.h264ref	**1217**	**18.2**	1216	18.2	1217	18.2	**1154**	**19.2**	1153	19.2	1154	19.2
471.omnetpp	**806**	**7.76**	805	7.76	806	7.76	703	8.89	703	8.89	**703**	**8.89**
473.astar	**810**	**8.67**	810	8.66	810	8.67	739	9.51	736	9.54	**736**	**9.54**
483.xalancbmk	1484	4.65	1481	4.66	**1482**	**4.66**	1091	6.32	**1090**	**6.33**	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`

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.20090715.15.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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