



SPEC® CINT2006 Result

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IBM Corporation

SPECint®_rate2006 = 60.9

IBM System p 570 (4.7 GHz, 2 core)

SPECint_rate_base2006 = 53.2

CPU2006 license: 11

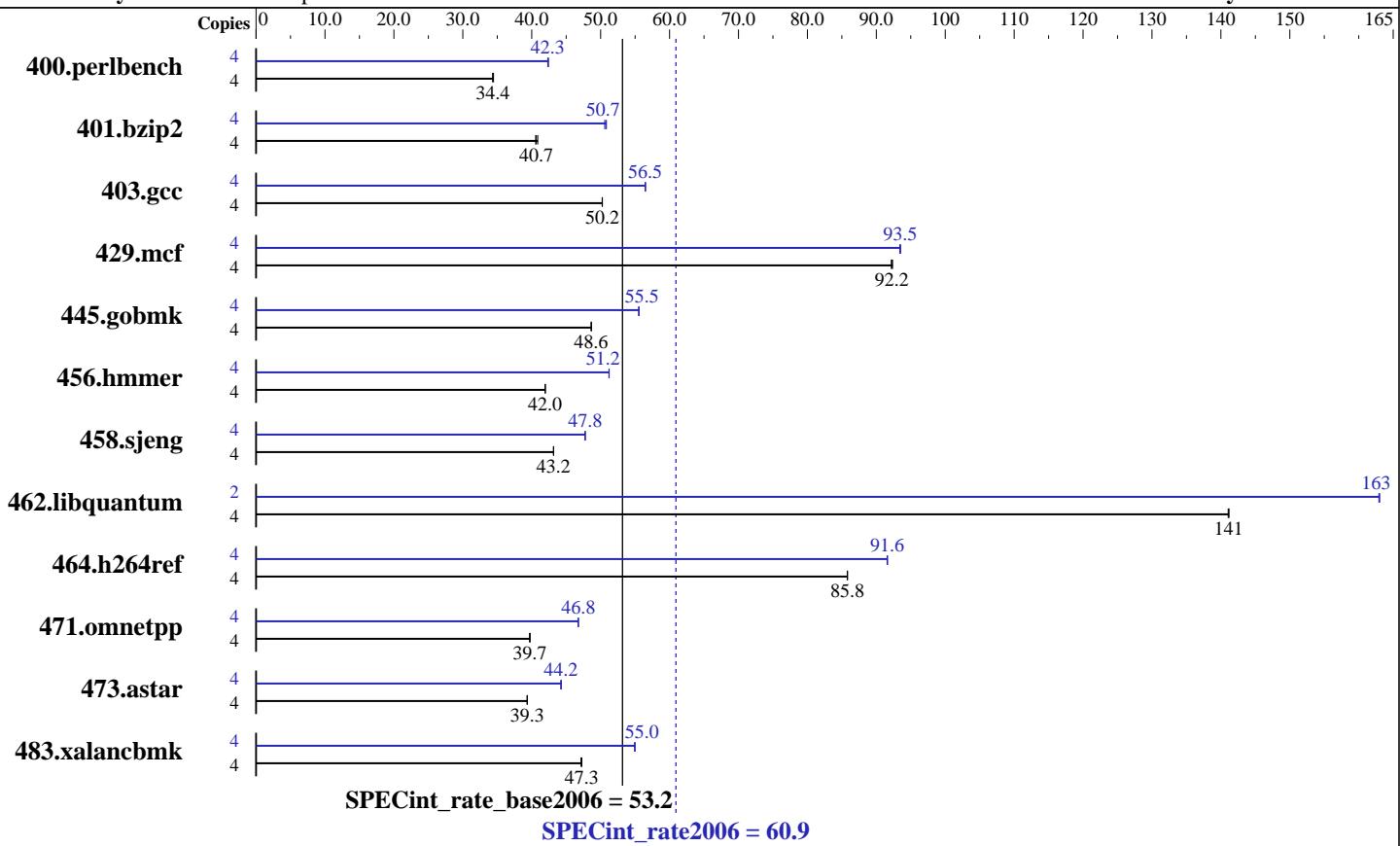
Test date: May-2007

Test sponsor: IBM Corporation

Hardware Availability: Jun-2007

Tested by: IBM Corporation

Software Availability: Jun-2007



Hardware

CPU Name: POWER6
CPU Characteristics:
CPU MHz: 4700
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip, 2 threads/core
CPU(s) orderable: 2,4,8,12,16 cores
Primary Cache: 64 KB I + 64 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per core
L3 Cache: 32 MB I+D off chip per chip
Other Cache: None
Memory: 16 GB (8x2 GB) DDR2 667 MHz
Disk Subsystem: 1x73 GB 1x146 GB SAS 15K RPM
Other Hardware: None

Software

Operating System: IBM AIX 5L V5.3
Compiler: XL C/C++ Enterprise Edition Version 9.0 for AIX
Auto Parallel: No
File System: AIX/JFS2
System State: Multi-user
Base Pointers: 32-bit
Peak Pointers: 32/64-bit
Other Software: --



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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	1134	34.5	1138	34.4	1138	34.3	4	923	42.3	923	42.3	921	42.4
401.bzip2	4	949	40.7	952	40.6	944	40.9	4	763	50.6	761	50.7	759	50.8
403.gcc	4	641	50.2	641	50.2	641	50.3	4	570	56.5	570	56.5	570	56.5
429.mcf	4	395	92.2	395	92.4	396	92.2	4	390	93.5	391	93.4	390	93.5
445.gobmk	4	863	48.6	863	48.6	862	48.6	4	756	55.5	755	55.5	755	55.5
456.hammer	4	890	42.0	890	42.0	889	42.0	4	729	51.2	728	51.2	729	51.2
458.sjeng	4	1121	43.2	1121	43.2	1121	43.2	4	1013	47.8	1013	47.8	1014	47.7
462.libquantum	4	588	141	587	141	587	141	2	254	163	254	163	254	163
464.h264ref	4	1032	85.8	1032	85.8	1031	85.8	4	967	91.6	966	91.6	966	91.6
471.omnetpp	4	629	39.7	629	39.7	630	39.7	4	535	46.8	535	46.8	535	46.8
473.astar	4	714	39.3	714	39.3	713	39.4	4	634	44.3	635	44.2	635	44.2
483.xalancbmk	4	584	47.3	584	47.3	585	47.1	4	502	54.9	502	55.0	502	55.0

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

General Notes

AIX 5L V5.3 updated with the 5300-06 Technology Level.

See flags file for details on following settings.

all ulimits set to unlimited

Environment variables set before executing benchmarks:

```
MALLOCOPTIONS=pool
MEMORY_AFFINITY=MCM
XLFRTEOPTS=intinthds=1
```

System set to "Enhanced" mode when defining partition on HMC
 786 pages of size 16M defined on systems with vmo command
 fdpr binary optimization tool used for peak versions of
 401.bzip2 403.gcc 429.mcf 456.hammer 462.libquantum 473.astar
 submit used to bind benchmark to a processor using "bindprocessor"

Base Compiler Invocation

C benchmarks:

```
/usr/vac/bin/xlc -qlanglvl=extc99
```

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:

```
-bmaxdata:0x50000000 -O5 -qlargepage -D_ILS_MACROS -qalias=noansi  
-qalloc -blpdata
```

C++ benchmarks:

```
-bmaxdata:0x20000000 -O5 -qlargepage -D_ILS_MACROS -qrtti=all  
-blpdata
```

Base Other Flags

C benchmarks:

```
-qipa=noobject -qipa=threads -qsuppress=1500-036
```

C++ benchmarks:

```
-qipa=noobject -qipa=threads -qsuppress=1500-036
```

Peak Compiler Invocation

C benchmarks:

```
/usr/vac/bin/xlc -qlanglvl=extc99
```

C++ benchmarks:

```
/usr/vacpp/bin/xlc
```

Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_AIX  
403.gcc: -DSPEC_CPU_LP64  
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: -bmaxdata:0x50000000 -qpdf1(pass 1) -qpdf2(pass 2) -O5
               -qlargepage -qenablevmx -qvecnvol -D_ILS_MACROS
               -qalias=noansi -blpdata

401.bzip2: -bmaxdata:0x4fffffff -qpdf1(pass 1) -qpdf2(pass 2) -O5
               -qlargepage -qenablevmx -qvecnvol -D_ILS_MACROS -blpdata

403.gcc: -qpdf1(pass 1) -qpdf2(pass 2) -O5 -qlargepage
          -D_ILS_MACROS -qalloca -q64 -blpdata

429.mcf: -bmaxdata:0x50000000 -O5 -qlargepage -qenablevmx
          -qvecnvol -D_ILS_MACROS -blpdata

445.gobmk: -qpdf1(pass 1) -qpdf2(pass 2) -O5 -qlargepage -qenablevmx
               -qvecnvol -D_ILS_MACROS -blpdata

456.hammer: -O5 -qlargepage -D_ILS_MACROS -blpdata

458.sjeng: -qpdf1(pass 1) -qpdf2(pass 2) -O4 -qlargepage -qenablevmx
               -qvecnvol -D_ILS_MACROS -blpdata

462.libquantum: -qpdf1(pass 1) -qpdf2(pass 2) -O5 -qlargepage -qenablevmx
                  -qvecnvol -D_ILS_MACROS -q64 -blpdata

464.h264ref: -qpdf1(pass 1) -qpdf2(pass 2) -O5 -qlargepage
               -D_ILS_MACROS -blpdata

```

C++ benchmarks:

```

471.omnetpp: -bmaxdata:0x20000000 -qpdf1(pass 1) -qpdf2(pass 2) -O5
               -qlargepage -qenablevmx -qvecnvol -D_ILS_MACROS
               -qalign=natural -qrtti=all -qinlglue -blpdata

473.astar: -bmaxdata:0x20000000 -qpdf1(pass 1) -qpdf2(pass 2) -O5
               -qlargepage -qenablevmx -qvecnvol -D_ILS_MACROS -blpdata

483.xalancbmk: -bmaxdata:0x20000000 -qpdf1(pass 1) -qpdf2(pass 2) -O5
                  -qlargepage -D_ILS_MACROS -qinlglue -D__IBM_FAST_VECTOR
                  -blpdata

```

Peak Other Flags

C benchmarks:

```
-qipa=noobject -qipa=threads -qsuppress=1500-036
```

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Peak Other Flags (Continued)

C++ benchmarks:

-qipa=noobject -qipa=threads -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.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.xml

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

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