SPEC® CFP2006 Result

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Bull SAS

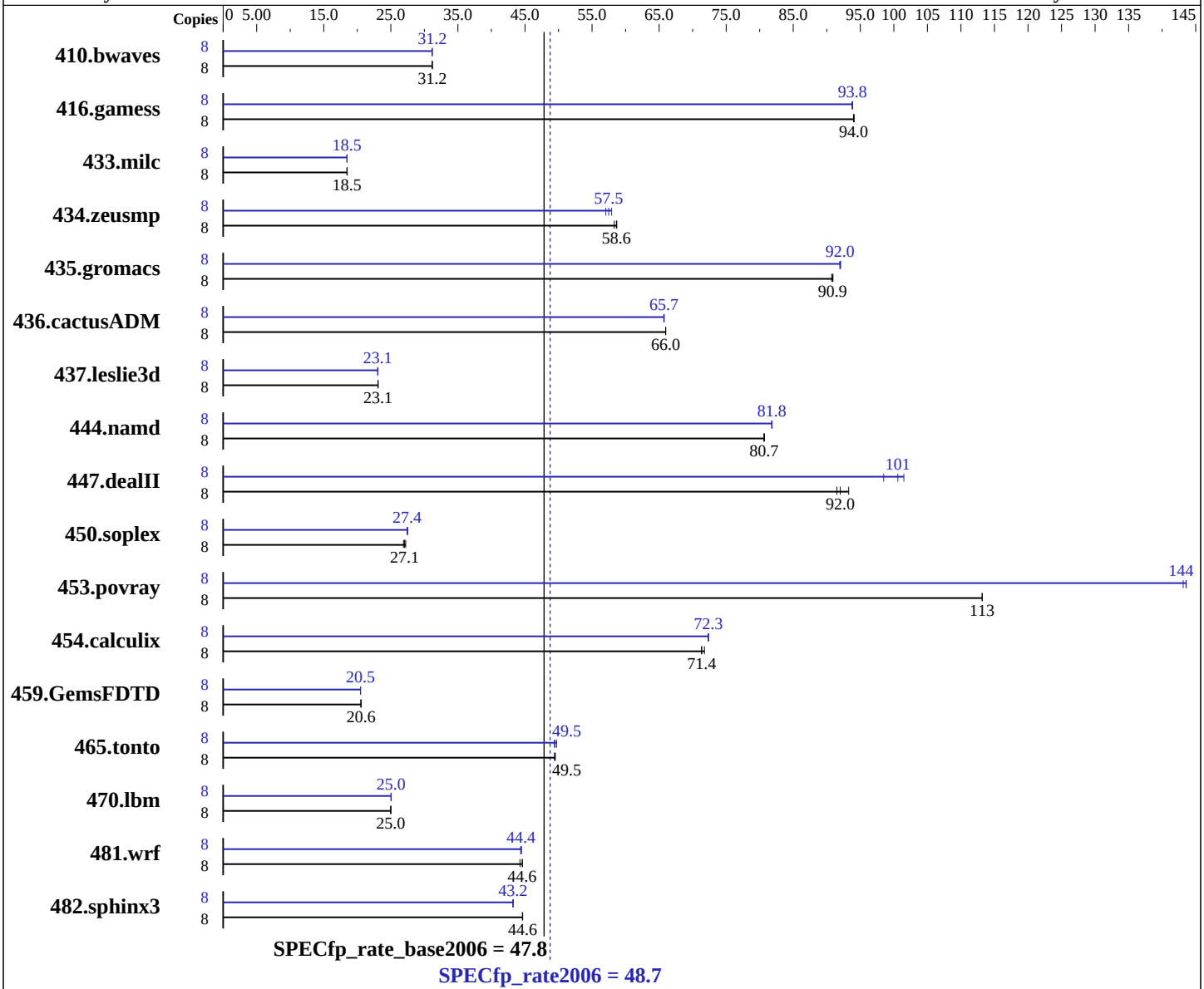
NovaScale B280 (Intel Xeon processor E5335,2.00GHz)

SPECfp®_rate2006 = 48.7

SPECfp_rate_base2006 = 47.8

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

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



Hardware

CPU Name:	Intel Xeon E5335
CPU Characteristics:	2.00 GHz, 8MB L2, 1333MHz bus
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1 to 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System:	Windows Server 2003 Enterprise Edition (32 bits) Service Pack1
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.033 Build no 20061103Z Intel Fortran Compiler for IA32 version 9.1 Package ID W_FC_C_9.1.033 Build no 20061103Z Microsoft Visual Studio .NET 2003 (lib & linker)
Auto Parallel:	No
File System:	NTFS
System State:	Default

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L3 Cache: None
Other Cache: None
Memory: 8 GB (1GB DIMMx8, FB-DIMM PC2-5300F ECC CL5)
Disk Subsystem: 73 GB SAS, 10000RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: MicroQuill SmartHeap Library 8.0 (shlW32M.lib)

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**3487**	**31.2**	3487	31.2	3488	31.2	8	3493	31.1	3486	31.2	**3487**	**31.2**
416.gamess	8	1667	94.0	**1666**	**94.0**	1665	94.1	8	1671	93.8	**1670**	**93.8**	1669	93.9
433.milc	8	3970	18.5	**3974**	**18.5**	3980	18.5	8	**3976**	**18.5**	3982	18.4	3974	18.5
434.zeusmp	8	1248	58.3	**1242**	**58.6**	1240	58.7	8	1257	57.9	1276	57.1	**1266**	**57.5**
435.gromacs	8	630	90.7	**629**	**90.9**	628	90.9	8	621	91.9	**621**	**92.0**	620	92.1
436.cactusADM	8	1449	66.0	**1449**	**66.0**	1449	66.0	8	**1454**	**65.7**	1455	65.7	1454	65.8
437.leslie3d	8	3258	23.1	3256	23.1	**3256**	**23.1**	8	3257	23.1	3266	23.0	**3260**	**23.1**
444.namd	8	795	80.7	796	80.6	**795**	**80.7**	8	785	81.8	**784**	**81.8**	784	81.8
447.dealII	8	**995**	**92.0**	1000	91.5	981	93.3	8	**910**	**101**	929	98.5	902	101
450.soplex	8	**2466**	**27.1**	2481	26.9	2451	27.2	8	2425	27.5	2431	27.4	**2431**	**27.4**
453.povray	8	376	113	376	113	**376**	**113**	8	297	143	296	144	**296**	**144**
454.calculix	8	920	71.8	**925**	**71.4**	925	71.3	8	913	72.3	**912**	**72.3**	912	72.4
459.GemsFDTD	8	4136	20.5	4125	20.6	**4126**	**20.6**	8	4140	20.5	4148	20.5	**4145**	**20.5**
465.tonto	8	1590	49.5	**1592**	**49.5**	1593	49.4	8	**1590**	**49.5**	1594	49.4	1583	49.7
470.lbm	8	4397	25.0	**4398**	**25.0**	4398	25.0	8	**4390**	**25.0**	4392	25.0	4389	25.0
481.wrf	8	2019	44.3	2003	44.6	**2004**	**44.6**	8	2009	44.5	**2011**	**44.4**	2015	44.4
482.sphinx3	8	3491	44.7	3495	44.6	**3492**	**44.6**	8	3610	43.2	3605	43.3	**3606**	**43.2**

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

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:
```
icl -Qvc7.1
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc7.1 -Qc99 ifort
```

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-fast /F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-fast /F950000000 -link /FORCE:MULTIPLE

Peak Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG -DBOOST_NO_INTRINSIC_WCHAR_T

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Peak Portability Flags (Continued)

453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Peak Optimization Flags

C benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

C++ benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000
-link /FORCE:MULTIPLE

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/flags.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/flags.20090714.00.xml

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:34:18 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 6 March 2007.