SPEC® CFP2006 Result

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Itautec

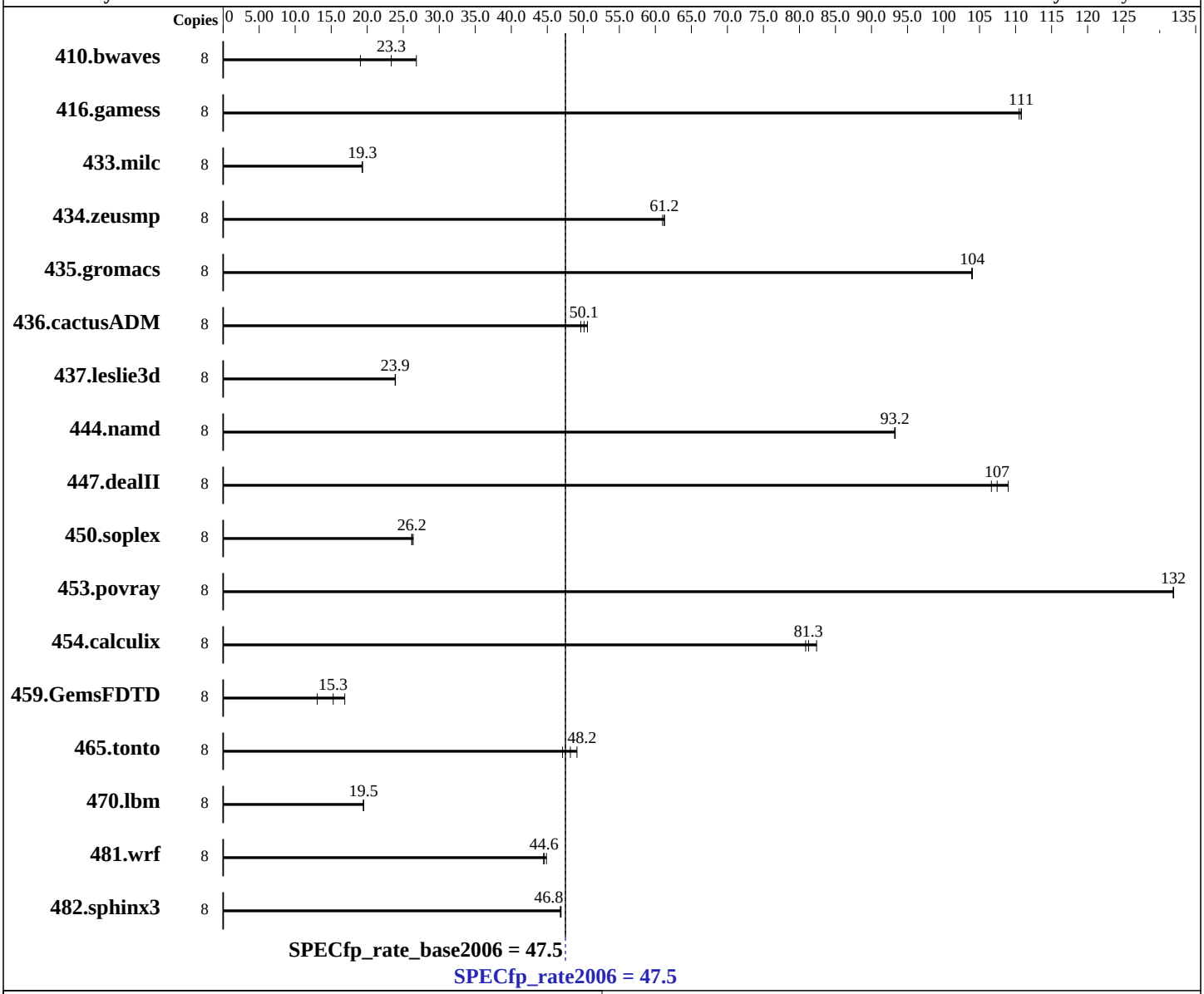
Servidor Itautec LX211 (Intel Xeon E5345)

SPECfp®_rate2006 = 47.5

SPECfp_rate_base2006 = 47.5

CPU2006 license: 9001
Test sponsor: Itautec
Tested by: Itautec

Test date: Feb-2007
Hardware Availability: Feb-2007
Software Availability: May-2006



Hardware

CPU Name:	Intel Xeon E5345
CPU Characteristics:	1333MHz system bus
CPU MHz:	2330
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1-2 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 + SP1 (32-bit)
Compiler:	Intel C++ Compiler for IA32 version 9.1 Package ID W_CC_C_9.1.025 Build no 20060519Z Intel Fortran Compiler for IA32 version 9.1 Package ID W_FC_C_9.1.025 Build no 20060519Z Microsoft Visual Studio .NET 2003 7.1.3088 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 6 GB (6x1GB DDR2-RAM PC2-5300F CAS 5-5-5)
Disk Subsystem: 120 GB SATA, 7200RPM
Other Hardware: None

System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: Microquill SmartHeap Library v.8.0 for SMP

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	4054	26.8	5707	19.0	**4659**	**23.3**	8	4054	26.8	5707	19.0	**4659**	**23.3**
416.gamess	8	1418	110	1414	111	**1414**	**111**	8	1418	110	1414	111	**1414**	**111**
433.milc	8	3809	19.3	3797	19.3	**3799**	**19.3**	8	3809	19.3	3797	19.3	**3799**	**19.3**
434.zeusmp	8	1188	61.3	**1189**	**61.2**	1193	61.0	8	1188	61.3	**1189**	**61.2**	1193	61.0
435.gromacs	8	**549**	**104**	549	104	550	104	8	**549**	**104**	549	104	550	104
436.cactusADM	8	**1908**	**50.1**	1926	49.6	1891	50.6	8	**1908**	**50.1**	1926	49.6	1891	50.6
437.leslie3d	8	**3147**	**23.9**	3149	23.9	3144	23.9	8	**3147**	**23.9**	3149	23.9	3144	23.9
444.namd	8	688	93.3	**688**	**93.2**	688	93.2	8	688	93.3	**688**	**93.2**	688	93.2
447.dealII	8	840	109	**852**	**107**	858	107	8	840	109	**852**	**107**	858	107
450.soplex	8	**2547**	**26.2**	2529	26.4	2548	26.2	8	**2547**	**26.2**	2529	26.4	2548	26.2
453.povray	8	323	132	**323**	**132**	323	132	8	323	132	**323**	**132**	323	132
454.calculix	8	**812**	**81.3**	801	82.4	816	80.9	8	**812**	**81.3**	801	82.4	816	80.9
459.GemsFDTD	8	**5557**	**15.3**	6498	13.1	5028	16.9	8	**5557**	**15.3**	6498	13.1	5028	16.9
465.tonto	8	1671	47.1	**1633**	**48.2**	1603	49.1	8	1671	47.1	**1633**	**48.2**	1603	49.1
470.lbm	8	**5641**	**19.5**	5640	19.5	5646	19.5	8	**5641**	**19.5**	5640	19.5	5646	19.5
481.wrf	8	2009	44.5	1991	44.9	**2006**	**44.6**	8	2009	44.5	1991	44.9	**2006**	**44.6**
482.sphinx3	8	**3328**	**46.8**	3324	46.9	3331	46.8	8	**3328**	**46.8**	3324	46.9	3331	46.8

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 shlSMPMt.lib -link /FORCE:MULTIPLE`

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

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

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

Peak Optimization Flags

C benchmarks:

433.milc: `basepeak = yes`

470.lbm: `basepeak = yes`

482.sphinx3: `basepeak = yes`

C++ benchmarks:

444.namd: `basepeak = yes`

447.dealII: `basepeak = yes`

450.soplex: `basepeak = yes`

453.povray: `basepeak = yes`

Fortran benchmarks:

Continued on next page

Peak Optimization Flags (Continued)

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Itautec-ic91-flags.20090714.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Itautec-ic91-flags.20090714.xml

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