SPEC® CFP2006 Result

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Itautec

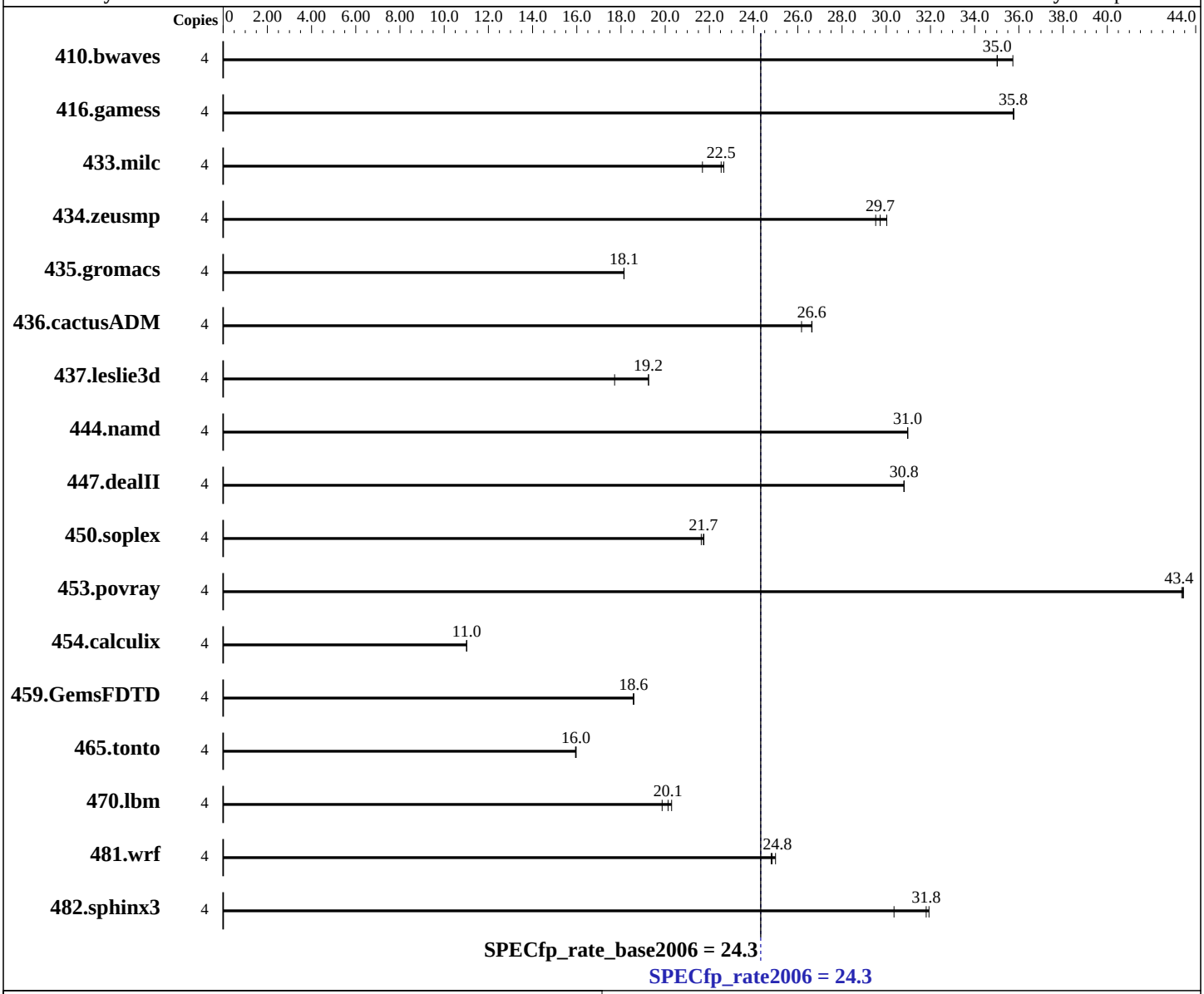
Servidor Itautec MR201 (AMD Opteron 2210)

SPECfp®_rate2006 = 24.3

SPECfp_rate_base2006 = 24.3

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

Test date: Aug-2007
Hardware Availability: Oct-2007
Software Availability: Sep-2006



Hardware

CPU Name:	AMD Opteron 2210
CPU Characteristics:	
CPU MHz:	1800
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	64 KB I + 64 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core

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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_9.1.032 Build no 20060927Z Intel Fortran Compiler for IA32 version 9.1 Package ID W_FC_C_9.1.032 Build no 20060927Z Microsoft Visual Studio .NET 7.1.3088 (for libraries)
Auto Parallel:	No
File System:	NTFS

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L3 Cache: None
Other Cache: None
Memory: 16 GB (16x1GB, DDR2-533 CL5 ECC Dual Rank)
Disk Subsystem: 80 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	4	1521	35.7	**1552**	**35.0**	1552	35.0	4	1521	35.7	**1552**	**35.0**	1552	35.0
416.gamess	4	2189	35.8	2191	35.8	**2190**	**35.8**	4	2189	35.8	2191	35.8	**2190**	**35.8**
433.milc	4	1693	21.7	**1630**	**22.5**	1621	22.7	4	1693	21.7	**1630**	**22.5**	1621	22.7
434.zeusmp	4	**1225**	**29.7**	1233	29.5	1212	30.0	4	**1225**	**29.7**	1233	29.5	1212	30.0
435.gromacs	4	1575	18.1	**1575**	**18.1**	1574	18.1	4	1575	18.1	**1575**	**18.1**	1574	18.1
436.cactusADM	4	1827	26.2	**1795**	**26.6**	1794	26.6	4	1827	26.2	**1795**	**26.6**	1794	26.6
437.leslie3d	4	2123	17.7	1953	19.2	**1954**	**19.2**	4	2123	17.7	1953	19.2	**1954**	**19.2**
444.namd	4	1036	31.0	**1036**	**31.0**	1036	31.0	4	1036	31.0	**1036**	**31.0**	1036	31.0
447.dealII	4	1486	30.8	1485	30.8	**1485**	**30.8**	4	1486	30.8	1485	30.8	**1485**	**30.8**
450.soplex	4	1534	21.8	1542	21.6	**1536**	**21.7**	4	1534	21.8	1542	21.6	**1536**	**21.7**
453.povray	4	490	43.4	491	43.4	**490**	**43.4**	4	490	43.4	491	43.4	**490**	**43.4**
454.calculix	4	2995	11.0	2995	11.0	**2995**	**11.0**	4	2995	11.0	2995	11.0	**2995**	**11.0**
459.GemsFDTD	4	**2286**	**18.6**	2284	18.6	2287	18.6	4	**2286**	**18.6**	2284	18.6	2287	18.6
465.tonto	4	2465	16.0	**2466**	**16.0**	2469	15.9	4	2465	16.0	**2466**	**16.0**	2469	15.9
470.lbm	4	**2730**	**20.1**	2767	19.9	2709	20.3	4	**2730**	**20.1**	2767	19.9	2709	20.3
481.wrf	4	**1799**	**24.8**	1802	24.8	1788	25.0	4	**1799**	**24.8**	1802	24.8	1788	25.0
482.sphinx3	4	**2451**	**31.8**	2441	31.9	2569	30.4	4	**2451**	**31.8**	2441	31.9	2569	30.4

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

Base Optimization Flags

C benchmarks:
`-arch:SSE2 -Qprec-div- -O3 -Qipo /F950000000 shlSMPMt.lib -link /FORCE:MULTIPLE`

C++ benchmarks:
`-arch:SSE2 -Qprec-div- -O3 -Qipo -Oi- -Qcxx_features /F950000000 shlSMPMt.lib -link /FORCE:MULTIPLE`

Fortran benchmarks:
`-arch:SSE2 -Qprec-div- -O3 -Qipo -Oi- /F950000000 -link /FORCE:MULTIPLE`

Benchmarks using both Fortran and C:
`-arch:SSE2 -Qprec-div- -O3 -Qipo -Oi- /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`

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Peak Optimization Flags (Continued)

Fortran benchmarks:

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.html

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

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