SPEC® CFP2006 Result

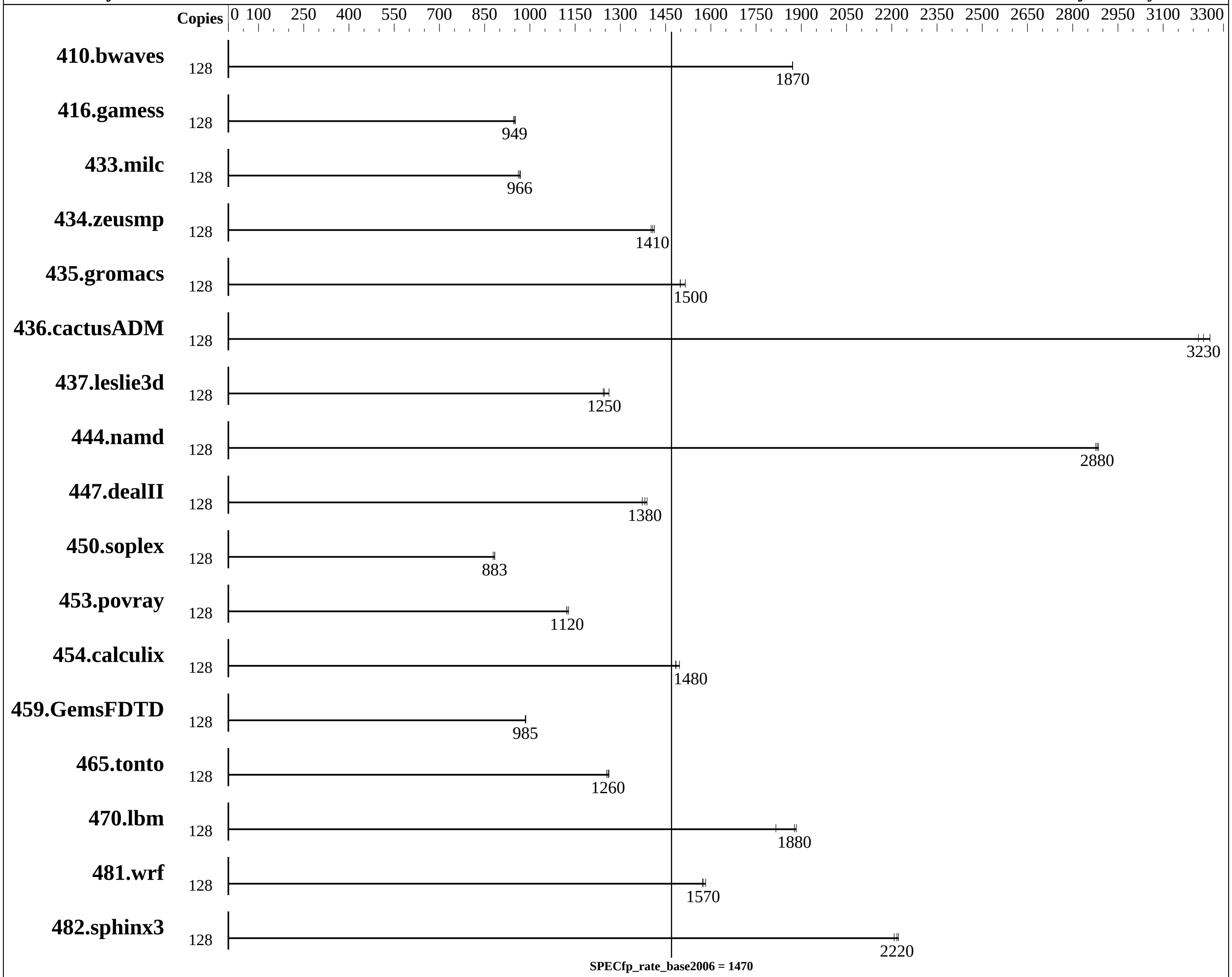
SGI

SPECfp®_rate2006 = --

SGI Altix 3700 Bx2 (1600MHz 9M L3, Itanium 2)

SPECfp_rate_base2006 = 1470

CPU2006 license: 4		**Test date:**	Jun-2006
Test sponsor:	SGI	**Hardware Availability:**	Nov-2004
Tested by:	SGI	**Software Availability:**	May-2006



Hardware

CPU Name:	Intel Itanium 2
CPU Characteristics:	400MHz FSB
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	128 cores, 128 chips, 1 core/chip
CPU(s) orderable:	16-256 cores
Primary Cache:	16 KB I + 16 KB D on chip per chip
Secondary Cache:	256 KB I+D on chip per chip

Continued on next page

Software

Operating System:	SGI ProPack v4.0 Service Pack 3
Compiler:	Intel Fortran Compiler for Linux 9.1 (Build 20060420) Intel C++ Compiler for Linux 9.1 (Build 20060420)
Auto Parallel:	No
File System:	xfs
System State:	Multi-user
Base Pointers:	64-bit

Continued on next page

SGI

SGI Altix 3700 Bx2 (1600MHz 9M L3, Itanium 2)

SPECfp_rate2006 = --

SPECfp_rate_base2006 = 1470

CPU2006 license: 4
Test sponsor: SGI
Tested by: SGI
Test date: Jun-2006
Hardware Availability: Nov-2004
Software Availability: May-2006

L3 Cache:	9 MB I+D on chip per chip
Other Cache:	None
Memory:	512 GB (8*1GB PC2700 DIMMS per 2 core module)
Disk Subsystem:	16 x 73 GB FibreChannel (Seagate Cheetah 15k rpm)
Other Hardware:	None
Peak Pointers:	Not Applicable
Other Software:	--

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	128	**930**	**1870**	929	1870	930	1870							
416.gamess	128	2633	952	**2640**	**949**	2650	946							
433.milc	128	**1216**	**966**	1213	969	1222	962							
434.zeusmp	128	831	1400	**828**	**1410**	824	1410							
435.gromacs	128	603	1520	**610**	**1500**	610	1500							
436.cactusADM	128	476	3220	**473**	**3230**	470	3260							
437.leslie3d	128	**965**	**1250**	968	1240	953	1260							
444.namd	128	356	2890	357	2880	**356**	**2880**							
447.dealII	128	1067	1370	**1060**	**1380**	1055	1390							
450.soplex	128	**1209**	**883**	1209	883	1215	878							
453.povray	128	607	1120	603	1130	**606**	**1120**							
454.calculix	128	706	1500	**711**	**1480**	712	1480							
459.GemsFDTD	128	1379	985	1377	987	**1379**	**985**							
465.tonto	128	1004	1250	998	1260	**1000**	**1260**							
470.lbm	128	969	1820	934	1880	**937**	**1880**							
481.wrf	128	**908**	**1570**	909	1570	903	1580							
482.sphinx3	128	1123	2220	1130	2210	**1125**	**2220**							

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

General Notes

```
Processes were bound to CPUs using dplace.
limit stacksize unlimited
```

Base Compiler Invocation

C benchmarks:
```
icc
```

C++ benchmarks:
```
icpc
```

Continued on next page

Base Compiler Invocation (Continued)

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icc ifort`

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LINUX -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LP64
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
`-fast -IPF_fp_relaxed`

C++ benchmarks:
`-fast -IPF_fp_relaxed -ansi-alias`

Fortran benchmarks:
`-fast -IPF_fp_relaxed`

Benchmarks using both Fortran and C:
`-fast -IPF_fp_relaxed`

Base Other Flags

C benchmarks:
`-w`

Continued on next page

Base Other Flags (Continued)

C++ benchmarks:
`-w`

Fortran benchmarks:
`-w`

Benchmarks using both Fortran and C:
`-w`

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

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v91.
Report generated on Tue Jul 22 09:57:04 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 August 2006.