SPEC® CFP2006 Result
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SGI

$SPECfp^®\_rate2006 =$ --

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

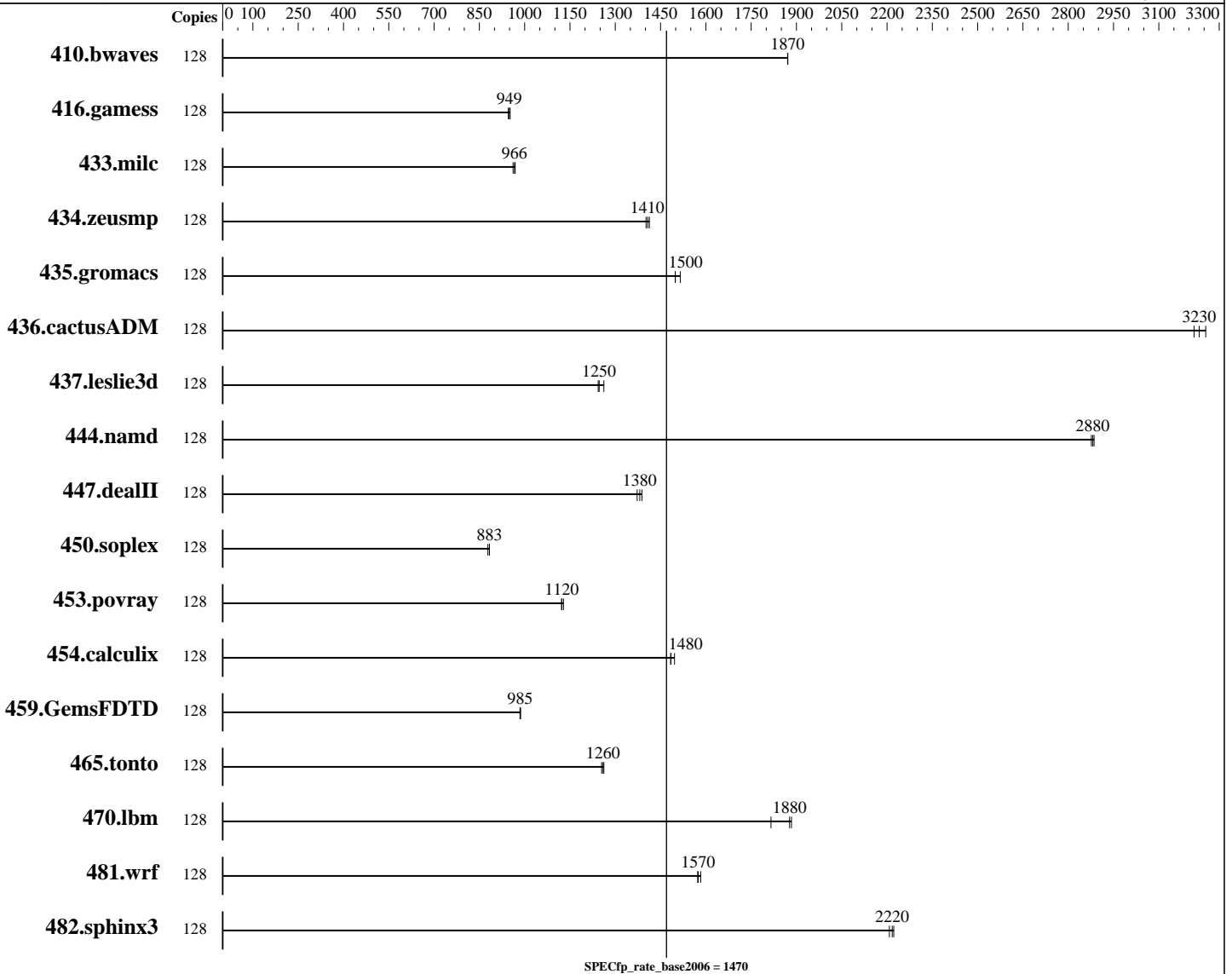$SPECfp\_rate\_base2006 =$ 1470

CPU2006 license: 4
Test sponsor: SGI
Tested by: SGI

Test date: Jun-2006
Hardware Availability: Nov-2004
Software Availability: May-2006

Benchmark	Copies	Result
410.bwaves	128	1870
416.gamess	128	949
433.milc	128	966
434.zeusmp	128	1410
435.gromacs	128	1500
436.cactusADM	128	3230
437.leslie3d	128	1250
444.namd	128	2880
447.dealII	128	1380
450.soplex	128	883
453.povray	128	1120
454.calculix	128	1480
459.GemsFDTD	128	985
465.tonto	128	1260
470.lbm	128	1880
481.wrf	128	1570
482.sphinx3	128	2220

SPECfp_rate_base2006 = 1470

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

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L3 Cache:	9 MB I+D on chip per chip	Peak Pointers:	Not Applicable
Other Cache:	None	Other Software:	--
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		

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

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Test sponsor: SGI		**Hardware Availability:**	Nov-2004
Tested by: SGI		**Software Availability:**	May-2006

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
```

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Hardware Availability: Nov-2004
Software Availability: May-2006

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

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