SPEC® CFP2006 Result
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Lenovo Group Limited
(Test Sponsor: Intel Corporation)

$SPECfp®\_rate2006 =$ Not Run

Lenovo ThinkPad T61(Intel Core 2 Duo T7700)

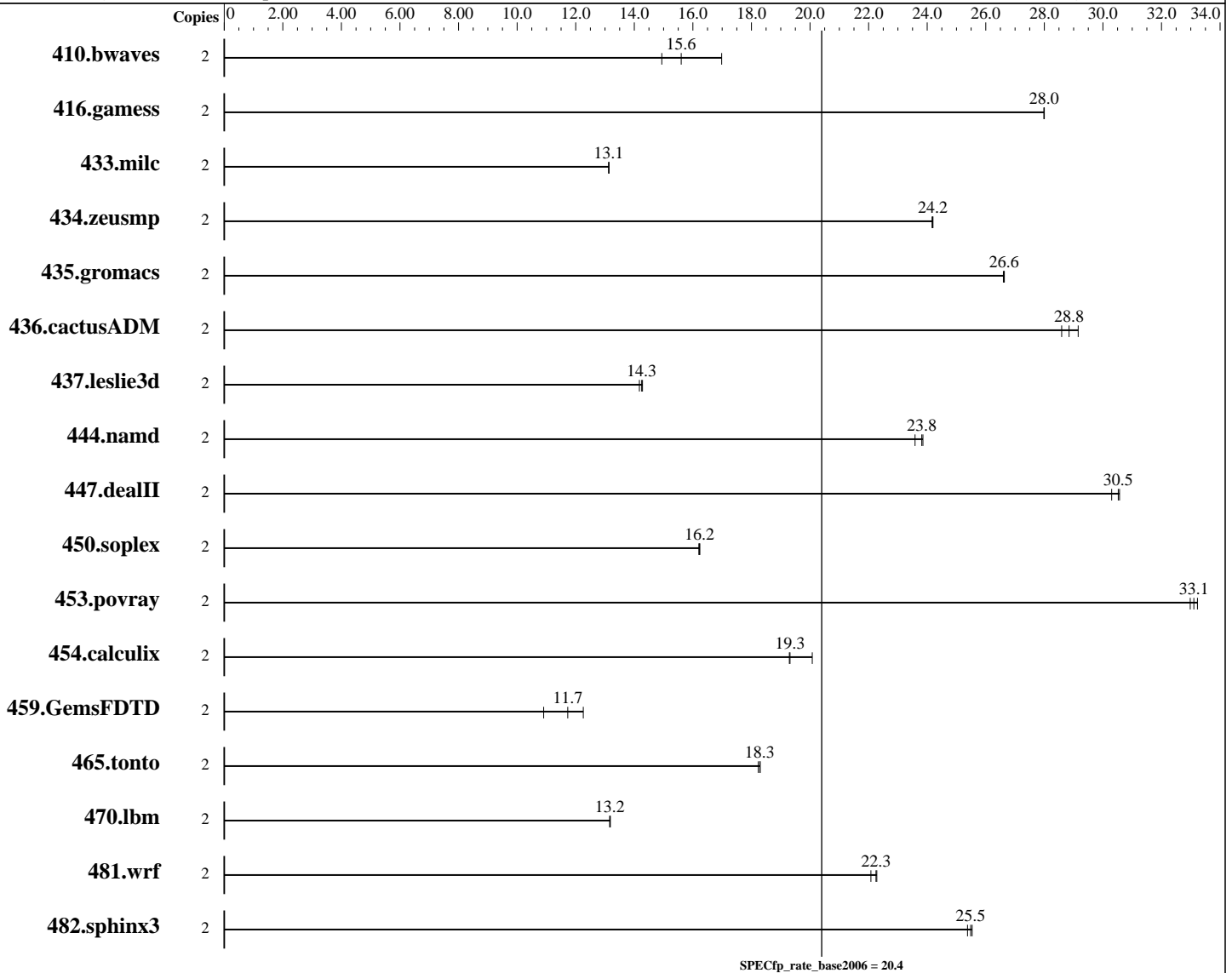$SPECfp\_rate\_base2006 =$ 20.4

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: Feb-2007

Benchmark	Copies	Result
410.bwaves	2	15.6
416.gamess	2	28.0
433.milc	2	13.1
434.zeusmp	2	24.2
435.gromacs	2	26.6
436.cactusADM	2	28.8
437.leslie3d	2	14.3
444.namd	2	23.8
447.dealII	2	30.5
450.soplex	2	16.2
453.povray	2	33.1
454.calculix	2	19.3
459.GemsFDTD	2	11.7
465.tonto	2	18.3
470.lbm	2	13.2
481.wrf	2	22.3
482.sphinx3	2	25.5

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Hardware
CPU Name: Intel Core 2 Duo T7700
CPU Characteristics: 2.40 GHz, 4MB L2, 800 MHz Bus
CPU MHz: 2400
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
CPU(s) orderable: 1 chip
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
Continued on next page

Software
Operating System: Windows Vista Business
Compiler: Intel C++ Compiler for IA32 version 9.1
Build no 20060816
Intel Fortran Compiler for IA32 version 9.1
Build no 20060816
Microsoft Visual Studio .Net 2003 (for libraries)
Auto Parallel: No
File System: NTFS
System State: Default
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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Qimonda* PC-5300 DDR2-667 5-5-5-12)
Disk Subsystem: Hitachi* HTS721010G9 SATA 100GB 7200RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: Not Applicable
Other Software: SmartHeap library V7.4 from Microquill

Results Table

Benchmark	Copies	Base Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1600	17.0	**1742**	**15.6**	1819	14.9							
416.gamess	2	1399	28.0	**1399**	**28.0**	1399	28.0							
433.milc	2	1398	13.1	1399	13.1	**1399**	**13.1**							
434.zeusmp	2	**752**	**24.2**	753	24.2	752	24.2							
435.gromacs	2	536	26.6	537	26.6	**536**	**26.6**							
436.cactusADM	2	**829**	**28.8**	836	28.6	820	29.2							
437.leslie3d	2	**1319**	**14.3**	1326	14.2	1317	14.3							
444.namd	2	**674**	**23.8**	680	23.6	672	23.9							
447.dealII	2	749	30.6	755	30.3	**750**	**30.5**							
450.soplex	2	1029	16.2	1027	16.2	**1028**	**16.2**							
453.povray	2	**321**	**33.1**	323	33.0	320	33.2							
454.calculix	2	**854**	**19.3**	855	19.3	822	20.1							
459.GemsFDTD	2	**1809**	**11.7**	1946	10.9	1731	12.3							
465.tonto	2	**1076**	**18.3**	1076	18.3	1079	18.2							
470.lbm	2	**2087**	**13.2**	2088	13.2	2085	13.2							
481.wrf	2	1012	22.1	**1004**	**22.3**	1003	22.3							
482.sphinx3	2	1536	25.4	1527	25.5	**1529**	**25.5**							

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

General Notes

    Binaries built on Windows XP Professional w/ SP2
    Vista Power Profile set to High Performance

Base Compiler Invocation

C benchmarks:
    icl -Qvc7.1 -Qc99

C++ benchmarks:
    icl -Qvc7.1

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CPU2006 license: 13		**Test date:**	Jun-2007
Test sponsor: Intel Corporation		**Hardware Availability:**	Jun-2007
Tested by: Intel Corporation		**Software Availability:**	Feb-2007

Base Compiler Invocation (Continued)

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
```

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.20090714.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic91-ia32-flags.20090714.00.xml

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Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:21:01 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 21 August 2007.