SPEC® CINT2006 Result
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Dell Inc.

Dell Precision M3800 (Intel(R) Core(R) i7-4702HQ, 2.20 GHz)

$SPECint®\_rate2006 =$ 155

$SPECint\_rate\_base2006 =$ 151

CPU2006 license: 55
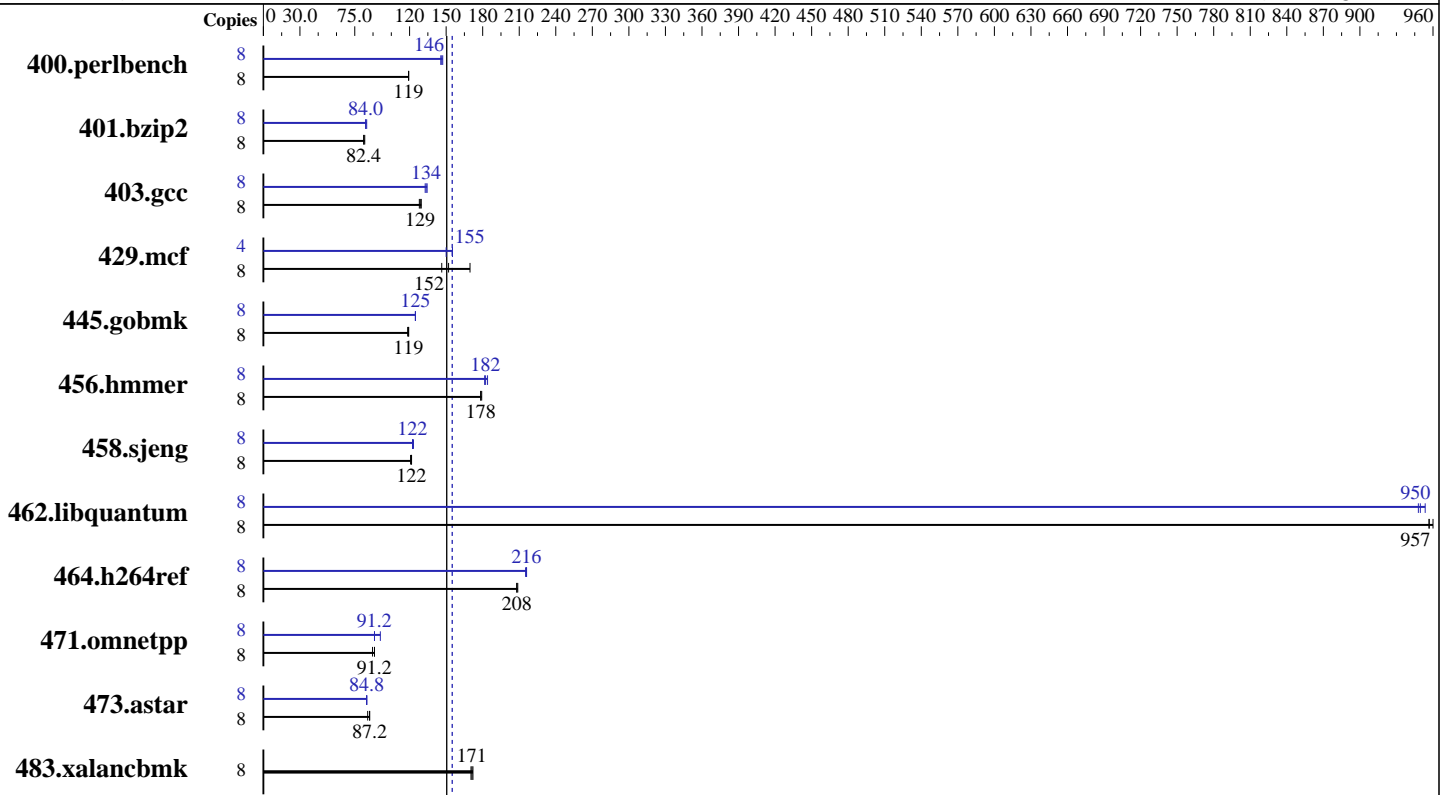
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Nov-2013

Hardware Availability: Nov-2013

Software Availability: Aug-2011

Copies 0 30.0 75.0 120 150 180 210 240 270 300 330 360 390 420 450 480 510 540 570 600 630 660 690 720 750 780 810 840 870 900 960

Benchmark	Copies	Value
400.perlbench	8 / 8	146 / 119
401.bzip2	8 / 8	84.0 / 82.4
403.gcc	8 / 8	134 / 129
429.mcf	4 / 8	155 / 152
445.gobmk	8 / 8	125 / 119
456.hmmer	8 / 8	182 / 178
458.sjeng	8 / 8	122 / 122
462.libquantum	8 / 8	950 / 957
464.h264ref	8 / 8	216 / 208
471.omnetpp	8 / 8	91.2 / 91.2
473.astar	8 / 8	84.8 / 87.2
483.xalancbmk	8	171

SPECint_rate_base2006 = 151

SPECint_rate2006 = 155

Hardware

CPU Name:	Intel Core i7-4702HQ
CPU Characteristics:	Intel Turbo Boost Technology up to 3.20 GHz
CPU MHz:	2200
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core
L3 Cache:	6 MB I+D on chip per chip
Other Cache:	None
Memory:	16 GB (2 x 8 GB 1Rx8 PC3L-12800U-11)
Disk Subsystem:	1 x 1 TB SATA III 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows 7 Professional (64-bit) SP1
Compiler:	C/C++: Version 12.1.0.233 of Intel C++ Studio XE for Windows C/C++: Version 2010 of Microsoft Visual Studio
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32-bit
Other Software:	MicroQuill SmartHeap Library 10.0

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Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	657	119	**655**	**119**	655	119	8	532	147	**535**	**146**	535	146
401.bzip2	8	**938**	**82.4**	939	82.4	931	83.2	8	909	84.8	**916**	**84.0**	921	84.0
403.gcc	8	497	130	502	128	**499**	**129**	8	480	134	485	133	**483**	**134**
429.mcf	8	430	170	499	146	**479**	**152**	4	235	155	**235**	**155**	243	150
445.gobmk	8	708	118	**705**	**119**	705	119	8	**674**	**125**	674	125	674	125
456.hmmer	8	419	178	416	179	**418**	**178**	8	406	184	412	182	**409**	**182**
458.sjeng	8	796	122	799	121	**798**	**122**	8	785	123	**791**	**122**	791	122
462.libquantum	8	**173**	**957**	173	960	173	957	8	175	948	174	954	**175**	**950**
464.h264ref	8	852	208	848	209	**850**	**208**	8	819	216	**820**	**216**	823	215
471.omnetpp	8	559	89.6	**549**	**91.2**	549	91.2	8	550	91.2	520	96.0	**549**	**91.2**
473.astar	8	645	87.2	653	85.6	**647**	**87.2**	8	662	84.8	659	84.8	**662**	**84.8**
483.xalancbmk	8	**322**	**171**	323	170	321	172	8	**322**	**171**	323	170	321	172

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

Submit Notes

The config file option 'submit' was used.

Operating System Notes

Set power configuration to High Performance and disabled monitor blanking and sleep timer

Platform Notes

```
Sysinfo program c:\cpu2006.v1.2/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #$ \8787f7622badcf24e01c368b1db4377c
running on M3800-SPEC-PC Tue Nov 19 04:31:57 2013

This section contains SUT (System Under Test) info as seen by
some common utilities.  To remove or add to this section, see:
  http://www.spec.org/cpu2006/Docs/config.html#sysinfo

Trying 'systeminfo'
OS Name        : Microsoft Windows 7 Professional
OS Version     : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: Dell Inc.
System Model   : Dell Precision M3800
Processor(s)   : 1 Processor(s) Installed.
    [01]: Intel64 Family 6 Model 60 Stepping 3 GenuineIntel ~2201 Mhz
BIOS Version   : Dell Inc. A00, 10/3/2013
Total Physical Memory: 16,287 MB

Trying 'wmic cpu get /value'
```
Continued on next page

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Platform Notes (Continued)

```
DeviceID        : CPU0
L2CacheSize     : 1024
L3CacheSize     : 6144
MaxClockSpeed   : 2201
Name            : Intel(R) Core(TM) i7-4702HQ CPU @ 2.20GHz
NumberOfCores   : 4
NumberOfLogicalProcessors: 8

(End of data from sysinfo program)
```

General Notes

Binaries were compiled on a Precision T1600 system with a single Xeon E3-1200 CPU and 16GB memory using Windows 7 Professional 64-bit

Base Compiler Invocation

C benchmarks:
    icl -Qvc10 -Qstd=c99

C++ benchmarks:
    icl -Qvc10

Base Portability Flags

        403.gcc: -DSPEC_CPU_WIN32
     464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
    483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:
    -QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

C++ benchmarks:
    -QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
    /F512000000 shlw32m.lib   -link /FORCE:MULTIPLE

Base Other Flags

C benchmarks:

        403.gcc: -Dalloca=_alloca

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Peak Compiler Invocation

C benchmarks:
```
icl -Qvc10 -Qstd=c99
```

C++ benchmarks:
```
icl -Qvc10
```

Peak Portability Flags

```
    403.gcc: -DSPEC_CPU_WIN32
 464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword
```

Peak Optimization Flags

C benchmarks:

```
 400.perlbench: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch /F512000000
                shlw32m.lib              -link /FORCE:MULTIPLE

     401.bzip2: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O3 -Qprec-div- -Qopt-prefetch -Qansi-alias /F512000000

       403.gcc: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O3 -Qprec-div- -Qopt-prefetch /F512000000

       429.mcf: -QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000

     445.gobmk: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O2 -Qprec-div- -Qansi-alias /F512000000

     456.hmmer: Same as 403.gcc

     458.sjeng: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O3 -Qprec-div- -Qunroll4 /F512000000

 462.libquantum: Same as 429.mcf

  464.h264ref: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O3 -Qprec-div- -Qunroll2 -Qansi-alias /F512000000
```

C++ benchmarks:

```
   471.omnetpp: -Qprof_gen(pass 1) -QxAVX(pass 2) -Qprof_use(pass 2) -Qipo
                -O3 -Qprec-div- -Qansi-alias
                -Qopt-ra-region-strategy=block /F512000000 shlw32m.lib
                        -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

473.astar: `-QxAVX -Qipo -O3 -Qprec-div- -Qopt-prefetch /F512000000`
`shlw32m.lib           -link /FORCE:MULTIPLE`

483.xalancbmk: `basepeak = yes`

Peak Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags files that were used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.html`
`http://www.spec.org/cpu2006/flags/Dell-platform-Precision.20131217.html`

You can also download the XML flags sources by saving the following links:
`http://www.spec.org/cpu2006/flags/Dell-ic12.1-Windows.xml`
`http://www.spec.org/cpu2006/flags/Dell-platform-Precision.20131217.xml`

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

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