SPEC® CINT2006 Result
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Fujitsu

PRIMERGY RX100 S7, Intel Xeon E3-1260L, 2.40 GHz

$SPECint®\_rate2006 = 128$

$SPECint\_rate\_base2006 = 122$

CPU2006 license: 19	**Test date:** May-2011
Test sponsor: Fujitsu	**Hardware Availability:** Jun-2011
Tested by: Fujitsu	**Software Availability:** Jan-2011

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403.gcc 8 / 109 ; 8 / 107
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445.gobmk 8 / 100 ; 8 / 98.4
456.hmmer 8 / 154
458.sjeng 8 / 99.3 ; 8 / 95.0
462.libquantum 8 / 625
464.h264ref 8 / 173 ; 8 / 170
471.omnetpp 8 / 88.5 ; 8 / 83.8
473.astar 8 / 75.4
483.xalancbmk 8 / 122

SPECint_rate_base2006 = 122

SPECint_rate2006 = 128

Hardware

CPU Name:	Intel Xeon E3-1260L
CPU Characteristics:	Intel Turbo Boost Technology up to 3.30 GHz
CPU MHz:	2400
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:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	8 GB (2 x 4 GB 2Rx8 PC3-10600E-9, ECC)
Disk Subsystem:	1 x SATA, 300 GB, 7200 RPM
Other Hardware:	--

Software

Operating System:	SUSE Linux Enterprise Server 11 (x86_64) with SP1, Kernel 2.6.32.12-0.7-default
Compiler:	Intel C++ Compiler XE for applications running on IA-32 Version 12.0.1.116 Build 20101116
Auto Parallel:	No
File System:	ext3
System State:	Run level 3 (multi-user)
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	Microquill SmartHeap V9.01

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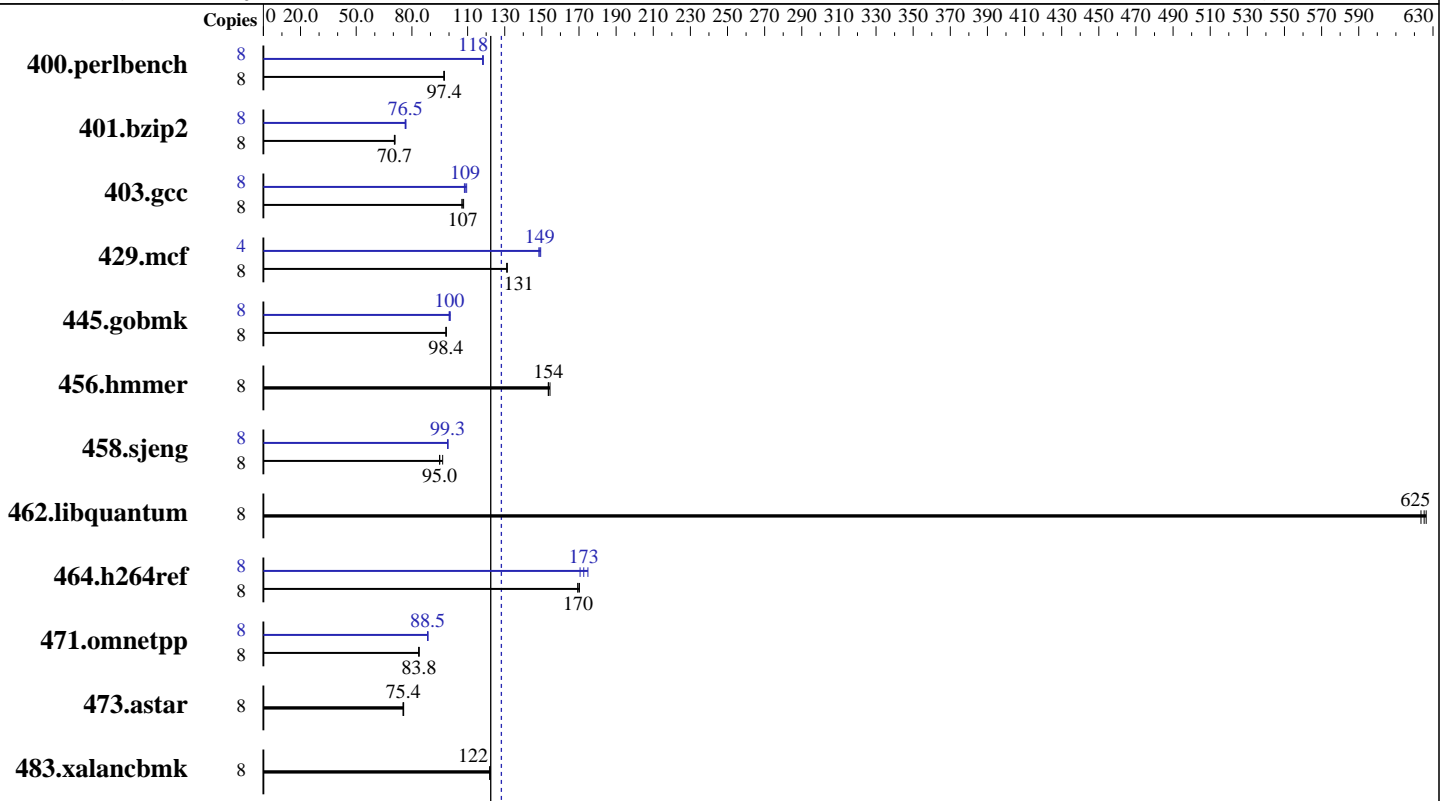
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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	802	97.5	804	97.2	**803**	**97.4**	8	662	118	**660**	**118**	660	118
401.bzip2	8	1089	70.9	**1091**	**70.7**	1094	70.6	8	1005	76.8	**1009**	**76.5**	1011	76.4
403.gcc	8	602	107	**600**	**107**	597	108	8	595	108	588	109	**592**	**109**
429.mcf	8	556	131	555	131	**556**	**131**	4	244	149	246	148	**245**	**149**
445.gobmk	8	852	98.5	**853**	**98.4**	853	98.3	8	839	100	**837**	**100**	834	101
456.hmmer	8	**486**	**154**	483	154	486	153	8	**486**	**154**	483	154	486	153
458.sjeng	8	**1019**	**95.0**	1020	94.9	1002	96.6	8	975	99.3	974	99.4	**974**	**99.3**
462.libquantum	8	266	624	**265**	**625**	265	626	8	266	624	**265**	**625**	265	626
464.h264ref	8	1046	169	1040	170	**1044**	**170**	8	1013	175	**1026**	**173**	1038	171
471.omnetpp	8	597	83.7	596	83.9	**597**	**83.8**	8	565	88.4	**565**	**88.5**	564	88.7
473.astar	8	743	75.6	**745**	**75.4**	746	75.3	8	743	75.6	**745**	**75.4**	746	75.3
483.xalancbmk	8	452	122	**452**	**122**	452	122	8	452	122	**452**	**122**	452	122

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.
     numactl was used to bind copies to the cores
```

Operating System Notes

```
     'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
      Large pages were not enabled for this run
```

General Notes

```
     For information about Fujitsu please visit: http://www.fujitsu.com
      Binaries were compiled on RHEL5.5 with binutils-2.17.50.0.6-14.el5
```

Base Compiler Invocation

C benchmarks:
```
     icc  -m32
```

C++ benchmarks:
```
     icpc -m32
```

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Base Portability Flags

```
    400.perlbench: -DSPEC_CPU_LINUX_IA32
   462.libquantum: -DSPEC_CPU_LINUX
   483.xalancbmk: -DSPEC_CPU_LINUX
```

Base Optimization Flags

C benchmarks:
```
    -xAVX -ipo -O3 -no-prec-div -opt-prefetch
    -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

C++ benchmarks:
```
    -xAVX -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
    -L/smartheap -lsmartheap
    -B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT
```

Base Other Flags

C benchmarks:

```
        403.gcc: -Dalloca=_alloca
```

Peak Compiler Invocation

C benchmarks (except as noted below):
```
    icc  -m32
```

```
    400.perlbench: icc -m64
```

```
       401.bzip2: icc -m64
```

```
       458.sjeng: icc -m64
```

C++ benchmarks:
```
    icpc -m32
```

Peak Portability Flags

```
    400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
       401.bzip2: -DSPEC_CPU_LP64
       458.sjeng: -DSPEC_CPU_LP64
   462.libquantum: -DSPEC_CPU_LINUX
```

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Peak Portability Flags (Continued)

483.xalancbmk: `-DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

400.perlbench: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
`-no-prec-div(pass 2) -prof-use(pass 2)`
`-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT`

401.bzip2: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
`-no-prec-div(pass 2) -prof-use(pass 2) -opt-prefetch`
`-auto-ilp32 -ansi-alias`
`-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT`

403.gcc: `-xAVX -ipo -O3 -no-prec-div`
`-B /usr/share/libhugetlbfs/ -Wl,-hugetlbfs-link=BDT`

429.mcf: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
`-no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias`
`-auto-ilp32`

445.gobmk: `-xAVX(pass 2) -prof-gen(pass 1) -prof-use(pass 2)`
`-ansi-alias -auto-ilp32`

456.hmmer: `basepeak = yes`

458.sjeng: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
`-no-prec-div(pass 2) -prof-use(pass 2) -unroll4`
`-auto-ilp32`
`-B /usr/share/libhugetlbfs/ -Wl,-melf_x86_64 -Wl,-hugetlbfs-link=BDT`

462.libquantum: `basepeak = yes`

464.h264ref: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
`-no-prec-div(pass 2) -prof-use(pass 2) -unroll2`
`-ansi-alias`

C++ benchmarks:

471.omnetpp: `-xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)`
`-no-prec-div(pass 2) -prof-use(pass 2) -ansi-alias`
`-opt-ra-region-strategy=block -Wl,-z,muldefs`
`-L/smartheap -lsmartheap`

473.astar: `basepeak = yes`

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Peak Optimization Flags (Continued)

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/Intel-ic12.0-linux64-revB.20110316.html
http://www.spec.org/cpu2006/flags/Fujitsu-Platform-Intel-Linux64.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.20110316.xml
http://www.spec.org/cpu2006/flags/Fujitsu-Platform-Intel-Linux64.xml

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