



# SPEC® CINT2006 Result

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Dell Inc.

**SPECint®\_rate2006 = Not Run**

PowerEdge T330 (Intel Xeon E3-1280 v6, 3.90 GHz)

**SPECint\_rate\_base2006 = 260**

CPU2006 license: 55

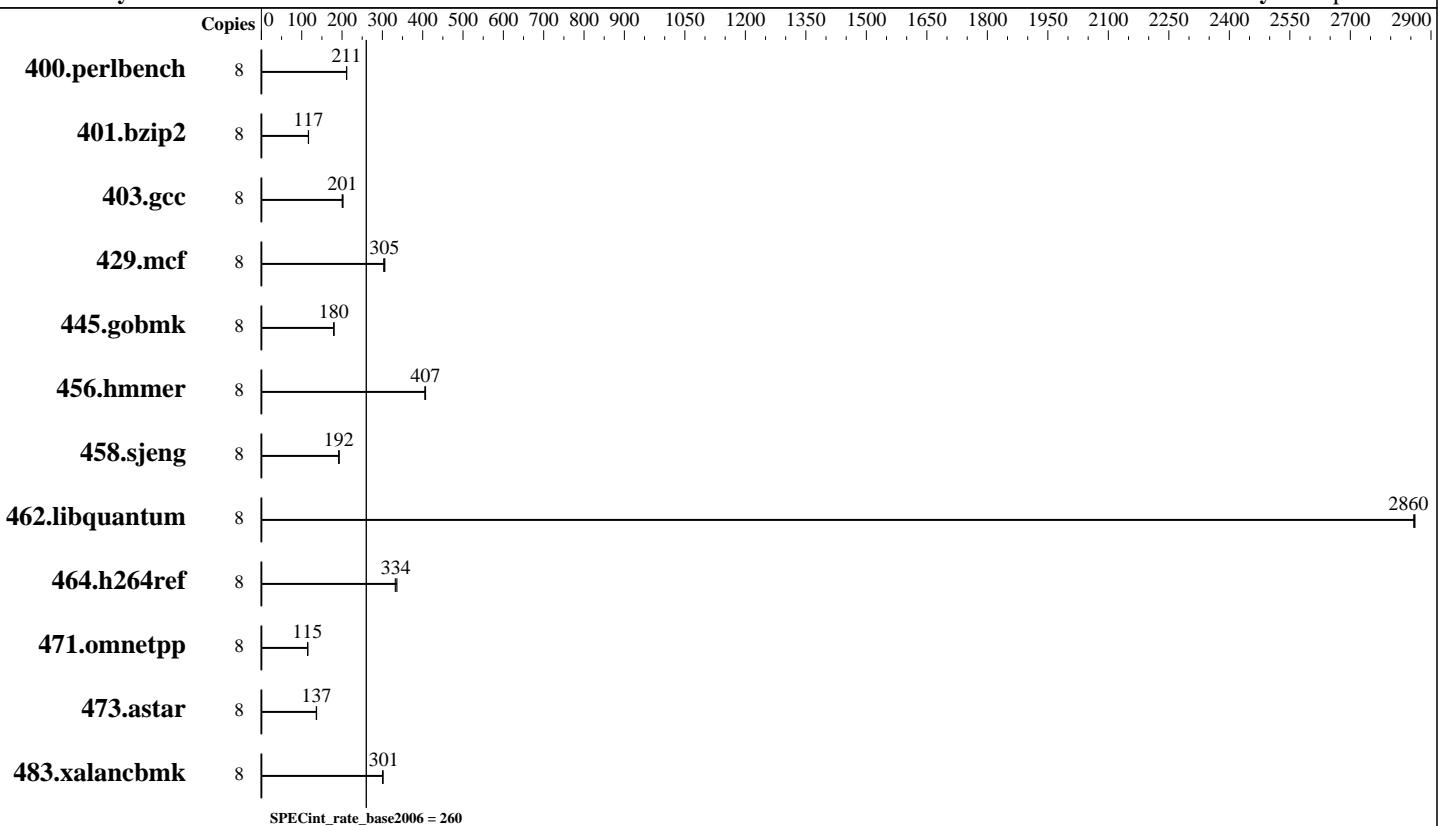
**Test date:** Apr-2017

Test sponsor: Dell Inc.

**Hardware Availability:** Apr-2017

Tested by: Dell Inc.

**Software Availability:** Sep-2016



## Hardware

CPU Name: Intel Xeon E3-1280 v6  
 CPU Characteristics: Intel Turbo Boost Technology up to 4.20 GHz  
 CPU MHz: 3900  
 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: 64 GB (4 x 16 GB 2Rx4 PC4-2400T-U)  
 Disk Subsystem: 500 GB SATA 7200 RPM  
 Other Hardware: None

## Software

Operating System: SUSE Linux Enterprise Server 12 SP2 4.10.8-4.geb4ae7d-default  
 Compiler: C/C++: Version 17.0.0.098 of Intel C/C++ Compiler for Linux  
 Auto Parallel: No  
 File System: xfs  
 System State: Run level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V10.2



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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	370	211	370	211	<b>370</b>	<b>211</b>							
401.bzip2	8	660	117	662	117	<b>662</b>	<b>117</b>							
403.gcc	8	318	203	321	200	<b>320</b>	<b>201</b>							
429.mcf	8	241	303	238	306	<b>239</b>	<b>305</b>							
445.gobmk	8	467	180	<b>467</b>	<b>180</b>	467	180							
456.hmmer	8	184	405	<b>183</b>	<b>407</b>	183	407							
458.sjeng	8	<b>504</b>	<b>192</b>	502	193	504	192							
462.libquantum	8	58.0	2860	58.0	2860	<b>58.0</b>	<b>2860</b>							
464.h264ref	8	527	336	<b>531</b>	<b>334</b>	534	332							
471.omnetpp	8	436	115	<b>436</b>	<b>115</b>	434	115							
473.astar	8	<b>411</b>	<b>137</b>	413	136	410	137							
483.xalancbmk	8	183	302	184	300	<b>183</b>	<b>301</b>							

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

## Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

## Platform Notes

BIOS settings:

Virtualization Technology disabled

System Profile set to Performance

Sysinfo program /root/cpu2006-1.2/config/sysinfo.rev6993

Revision 6993 of 2015-11-06 (b5e8d4b4eb51ed28d7f98696cbe290c1)

running on linux-r1zd Thu Apr 6 20:00:58 2017

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>

From /proc/cpuinfo

```
model name : Intel(R) Xeon(R) CPU E3-1280 v6 @ 3.90GHz
  1 "physical id"s (chips)
  8 "processors"
```

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with

Continued on next page



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## Platform Notes (Continued)

```
caution.)  
    cpu cores : 4  
    siblings   : 8  
    physical 0: cores 0 1 2 3  
    cache size : 6144 KB  
  
From /proc/meminfo  
MemTotal:       65803644 kB  
HugePages_Total:        0  
Hugepagesize:     2048 kB  
  
/usr/bin/lsb_release -d  
SUSE Linux Enterprise Server 12 SP2  
  
From /etc/*release* /etc/*version*  
SuSE-release:  
    SUSE Linux Enterprise Server 12 (x86_64)  
VERSION = 12  
PATCHLEVEL = 2  
# This file is deprecated and will be removed in a future service pack or  
release.  
# Please check /etc/os-release for details about this release.  
os-release:  
NAME="SLES"  
VERSION="12-SP2"  
VERSION_ID="12.2"  
PRETTY_NAME="SUSE Linux Enterprise Server 12 SP2"  
ID="sles"  
ANSI_COLOR="0;32"  
CPE_NAME="cpe:/o:suse:sles:12:sp2"  
  
uname -a:  
Linux linux-r1zd 4.10.8-4.geb4ae7d-default #1 SMP PREEMPT Tue Apr 4 10:46:31  
UTC 2017 (eb4ae7d) x86_64 x86_64 x86_64 GNU/Linux  
  
run-level 3 Apr 6 09:00  
  
SPEC is set to: /root/cpu2006-1.2  
Filesystem      Type  Size  Used  Avail Use% Mounted on  
 /dev/sda2        xfs   458G   13G  446G   3% /  
Additional information from dmidecode:  
  
Warning: Use caution when you interpret this section. The 'dmidecode' program  
reads system data which is "intended to allow hardware to be accurately  
determined", but the intent may not be met, as there are frequent changes to  
hardware, firmware, and the "DMTF SMBIOS" standard.  
  
BIOS Dell Inc. 2.0.8 01/12/2017  
Memory:  
4x 002C0000002C 18ASF2G72AZ-2G3B1 16 GB 2 rank 2400 MHz  
  
(End of data from sysinfo program)
```



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## General Notes

Environment variables set by runspec before the start of the run:

LD\_LIBRARY\_PATH = "/root/cpu2006-1.2/libs/32:/root/cpu2006-1.2/libs/64:/root/cpu2006-1.2/sh10.2"

Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM  
memory using Redhat Enterprise Linux 7.2  
Transparent Huge Pages enabled by default  
Filesystem page cache cleared with:  
echo 1> /proc/sys/vm/drop\_caches  
runspec command invoked through numactl i.e.:  
numactl --interleave=all runspec <etc>

## Base Compiler Invocation

C benchmarks:

```
icc -m32 -L/opt/intel/compilers_and_libraries_2017/linux/lib/ia32
```

C++ benchmarks:

```
icpc -m32 -L/opt/intel/compilers_and_libraries_2017/linux/lib/ia32
```

## Base Portability Flags

```
400.perlbench: -D_FILE_OFFSET_BITS=64 -DSPEC_CPU_LINUX_IA32
401.bzip2: -D_FILE_OFFSET_BITS=64
403.gcc: -D_FILE_OFFSET_BITS=64
429.mcf: -D_FILE_OFFSET_BITS=64
445.gobmk: -D_FILE_OFFSET_BITS=64
456.hammer: -D_FILE_OFFSET_BITS=64
458.sjeng: -D_FILE_OFFSET_BITS=64
462.libquantum: -D_FILE_OFFSET_BITS=64 -DSPEC_CPU_LINUX
464.h264ref: -D_FILE_OFFSET_BITS=64
471.omnetpp: -D_FILE_OFFSET_BITS=64
473.astar: -D_FILE_OFFSET_BITS=64
483.xalancbmk: -D_FILE_OFFSET_BITS=64 -DSPEC_CPU_LINUX
```

## Base Optimization Flags

C benchmarks:

```
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch
-qopt-mem-layout-trans=3
```

C++ benchmarks:

```
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch
-qopt-mem-layout-trans=3 -Wl,-z,muldefs -L/sh10.2 -lsmartheap
```



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## Base 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-ic17.0-official-linux64.html>

<http://www.spec.org/cpu2006/flags/Dell-Platform-Flags-PowerEdge13G-revE.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic17.0-official-linux64.xml>

<http://www.spec.org/cpu2006/flags/Dell-Platform-Flags-PowerEdge13G-revE.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.

Report generated on Tue May 2 14:05:05 2017 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 2 May 2017.