



# SPEC® CFP2006 Result

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## Hewlett-Packard Company

SPECfp®2006 = **110**

ProLiant DL360 Gen9  
(2.60 GHz, Intel Xeon E5-2660 v3)

SPECfp\_base2006 = **105**

CPU2006 license: 3

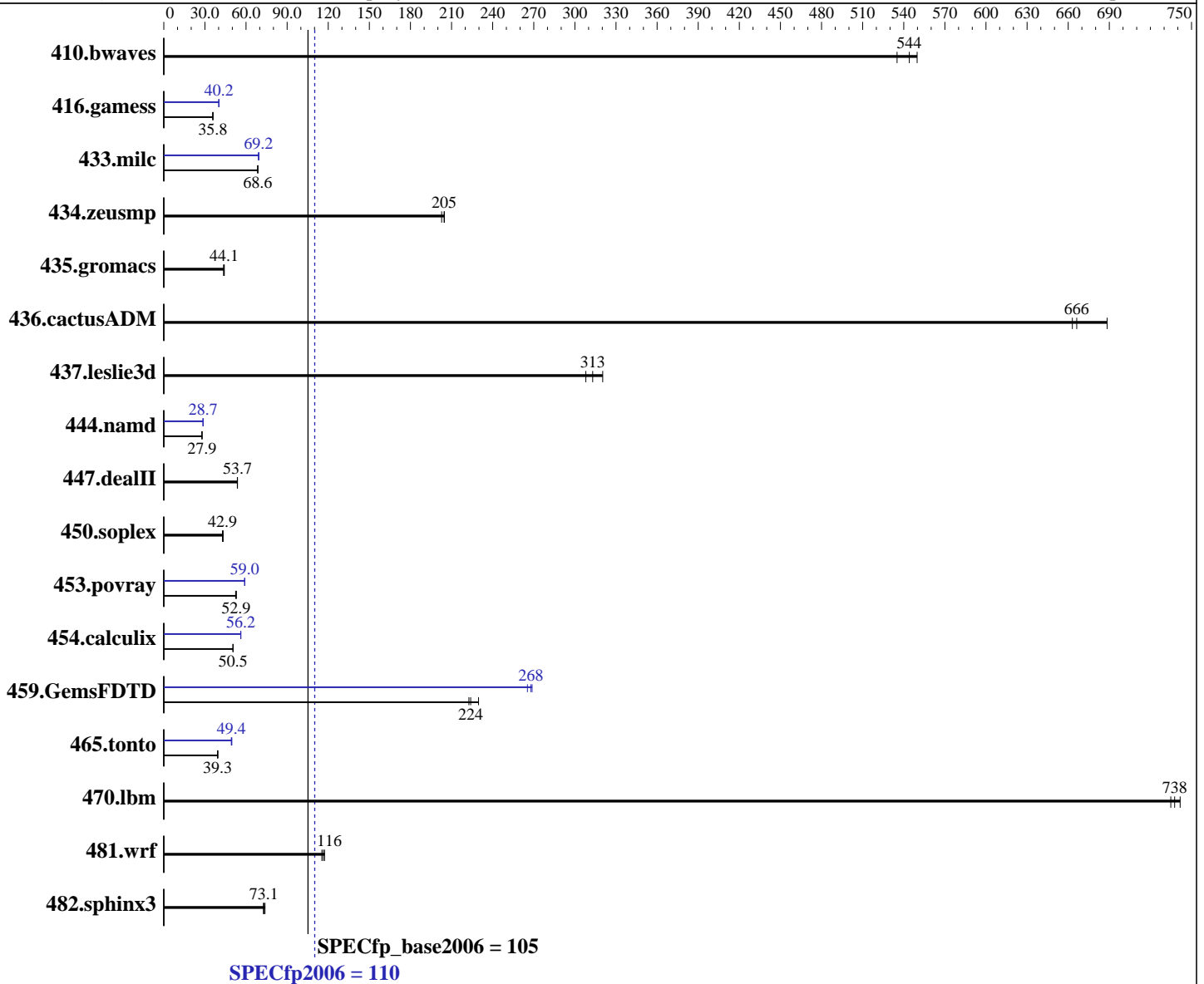
Test date: Oct-2014

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2014

Tested by: Hewlett-Packard Company

Software Availability: Sep-2014



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L3 Cache: 25 MB I+D on chip per chip	System State: Run level 3 (multi-user)
Other Cache: None	Base Pointers: 64-bit
Memory: 256 GB (16 x 16 GB 2Rx4 PC4-2133P-R)	Peak Pointers: 32/64-bit
Disk Subsystem: 1 x 400 GB SSD SAS, RAID 0	Other Software: None
Other Hardware: None	

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	25.4	535	<b><u>25.0</u></b>	<b><u>544</u></b>	24.7	550	25.4	535	<b><u>25.0</u></b>	<b><u>544</u></b>	24.7	550
416.gamess	<b><u>547</u></b>	<b><u>35.8</u></b>	545	35.9	549	35.7	488	40.1	487	40.2	<b><u>487</u></b>	<b><u>40.2</u></b>
433.milc	134	68.5	134	68.7	<b><u>134</u></b>	<b><u>68.6</u></b>	132	69.5	133	69.1	<b><u>133</u></b>	<b><u>69.2</u></b>
434.zeusmp	<b><u>44.5</u></b>	<b><u>205</u></b>	44.4	205	44.9	203	<b><u>44.5</u></b>	<b><u>205</u></b>	44.4	205	44.9	203
435.gromacs	164	43.6	<b><u>162</u></b>	<b><u>44.1</u></b>	162	44.1	164	43.6	<b><u>162</u></b>	<b><u>44.1</u></b>	162	44.1
436.cactusADM	17.4	688	<b><u>17.9</u></b>	<b><u>666</u></b>	18.0	663	17.4	688	<b><u>17.9</u></b>	<b><u>666</u></b>	18.0	663
437.leslie3d	<b><u>30.0</u></b>	<b><u>313</u></b>	29.3	320	30.5	308	<b><u>30.0</u></b>	<b><u>313</u></b>	29.3	320	30.5	308
444.namd	287	27.9	<b><u>288</u></b>	<b><u>27.9</u></b>	288	27.9	<b><u>280</u></b>	<b><u>28.7</u></b>	280	28.7	280	28.7
447.dealII	<b><u>213</u></b>	<b><u>53.7</u></b>	213	53.7	213	53.6	<b><u>213</u></b>	<b><u>53.7</u></b>	213	53.7	213	53.6
450.soplex	193	43.3	<b><u>194</u></b>	<b><u>42.9</u></b>	194	42.9	193	43.3	<b><u>194</u></b>	<b><u>42.9</u></b>	194	42.9
453.povray	<b><u>101</u></b>	<b><u>52.9</u></b>	101	52.9	102	52.4	90.1	59.0	<b><u>90.1</u></b>	<b><u>59.0</u></b>	90.0	59.1
454.calculix	163	50.5	<b><u>163</u></b>	<b><u>50.5</u></b>	163	50.5	147	56.2	<b><u>147</u></b>	<b><u>56.2</u></b>	147	56.2
459.GemsFDTD	<b><u>47.4</u></b>	<b><u>224</u></b>	47.7	223	46.2	230	<b><u>39.6</u></b>	<b><u>268</u></b>	39.5	269	40.0	265
465.tonto	249	39.5	<b><u>250</u></b>	<b><u>39.3</u></b>	251	39.2	199	49.3	198	49.7	<b><u>199</u></b>	<b><u>49.4</u></b>
470.lbm	<b><u>18.6</u></b>	<b><u>738</u></b>	18.7	735	18.5	742	<b><u>18.6</u></b>	<b><u>738</u></b>	18.7	735	18.5	742
481.wrf	95.2	117	<b><u>96.0</u></b>	<b><u>116</u></b>	96.9	115	95.2	117	<b><u>96.0</u></b>	<b><u>116</u></b>	96.9	115
482.sphinx3	264	73.9	268	72.7	<b><u>267</u></b>	<b><u>73.1</u></b>	264	73.9	268	72.7	<b><u>267</u></b>	<b><u>73.1</u></b>

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

## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"  
Transparent Huge Pages enabled with:  
echo always > /sys/kernel/mm/transparent\_hugepage/enabled

## Platform Notes

BIOS Configuration:  
HP Power Profile set to Custom  
HP Power Regulator to HP Static High Performance Mode  
Minimum Processor Idle Power Core State set to C6 State  
Minimum Processor Idle Power Package State set to No Package State  
QPI Snoop Configuration set to Home Snoop  
Thermal Configuration set to Maximum Cooling  
Collaborative Power Control set to Disabled

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### Platform Notes (Continued)

Processor Power and Utilization Monitoring set to Disabled  
Intel Hyperthreading Technology set to Disabled

Sysinfo program /home/cpu2006/config/sysinfo.rev6914  
\$Rev: 6914 \$ \$Date:: 2014-06-25 #\$ e3fbb8667b5a285932ceab81e28219e1  
running on DL360-G9 Sun Oct 19 04:37:28 2014

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 E5-2660 v3 @ 2.60GHz
 2 "physical id"s (chips)
 20 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
  cpu cores      : 10
  siblings       : 10
  physical 0:    cores 0 2 3 4 8 9 10 11 12
  physical 1:    cores 0 2 3 4 8 9 10 11 12
 cache size     : 25600 KB
```

From /proc/meminfo

```
MemTotal:      263846356 kB
HugePages_Total: 0
Hugepagesize:   2048 kB
```

From /etc/\*release\* /etc/\*version\*

```
os-release:
NAME="Red Hat Enterprise Linux Server"
VERSION="7.0 (Maipo)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="7.0"
PRETTY_NAME="Red Hat Enterprise Linux Server 7.0 (Maipo)"
ANSI_COLOR="0;31"
CPE_NAME="cpe:/o:redhat:enterprise_linux:7.0:GA:server"
redhat-release: Red Hat Enterprise Linux Server release 7.0 (Maipo)
system-release: Red Hat Enterprise Linux Server release 7.0 (Maipo)
system-release-cpe: cpe:/o:redhat:enterprise_linux:7.0:ga:server
```

uname -a:

```
Linux DL360-G9 3.10.0-123.el7.x86_64 #1 SMP Mon May 5 11:16:57 EDT 2014
x86_64 x86_64 x86_64 GNU/Linux
```

run-level 3 Oct 19 04:29

SPEC is set to: /home/cpu2006

```
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/mapper/rhel_dl360--g9-home_xfs 318G  77G  242G  25% /home
```

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## Platform Notes (Continued)

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 HP P89 07/11/2014

Memory:

16x HP NOT AVAILABLE 16 GB 2 rank 2133 MHz

8x UNKNOWN NOT AVAILABLE

(End of data from sysinfo program)

Regarding the sysinfo display about the memory installed, the correct amount of memory is 256 GB and the dmidecode description should have one line reading as:  
16x HP NOT AVAILABLE 16 GB 2 rank 2133 MHz

## General Notes

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

KMP\_AFFINITY = "granularity=fine,compact"

LD\_LIBRARY\_PATH = "/home/cpu2006/libs/32:/home/cpu2006/libs/64:/home/cpu2006/sh"

OMP\_NUM\_THREADS = "20"

Binaries compiled on a system with 1x Core i5-4670K CPU + 16GB memory using RedHat EL 7.0

## Base Compiler Invocation

C benchmarks:

icc -m64

C++ benchmarks:

icpc -m64

Fortran benchmarks:

ifort -m64

Benchmarks using both Fortran and C:

icc -m64 ifort -m64

## Base Portability Flags

410.bwaves: -DSPEC\_CPU\_LP64

416.gamess: -DSPEC\_CPU\_LP64

433.milc: -DSPEC\_CPU\_LP64

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## Base Portability Flags (Continued)

```

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.deallI: -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_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

```

## Base Optimization Flags

C benchmarks:

```

-xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch
-ansi-alias

```

C++ benchmarks:

```

-xCORE-AVX2 -ipo -O3 -no-prec-div -opt-prefetch -ansi-alias

```

Fortran benchmarks:

```

-xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch

```

Benchmarks using both Fortran and C:

```

-xCORE-AVX2 -ipo -O3 -no-prec-div -parallel -opt-prefetch
-ansi-alias

```

## Peak Compiler Invocation

C benchmarks:

```

icc -m64

```

C++ benchmarks:

```

icpc -m64

```

Fortran benchmarks:

```

ifort -m64

```

Benchmarks using both Fortran and C:

```

icc -m64 ifort -m64

```



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## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

433.milc: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-auto-ilp32 -ansi-alias

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

C++ benchmarks:

444.namd: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-fno-alias -auto-ilp32

447.dealIII: basepeak = yes

450.soplex: basepeak = yes

453.povray: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2) -unroll4  
-ansi-alias

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2) -unroll2  
-inline-level=0 -scalar-rep-

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2) -unroll2  
-inline-level=0 -opt-prefetch -parallel

465.tonto: -xCORE-AVX2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-inline-calloc -opt-malloc-options=3 -auto -unroll4

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## Peak Optimization Flags (Continued)

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: -xCORE-AVX2 -ipo -O3 -no-prec-div -auto-ilp32 -ansi-alias

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic15.0-official-linux64.html>

<http://www.spec.org/cpu2006/flags/HP-Platform-Flags-Intel-V1.2-HSW-revE.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic15.0-official-linux64.xml>

<http://www.spec.org/cpu2006/flags/HP-Platform-Flags-Intel-V1.2-HSW-revE.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.  
Report generated on Wed Dec 3 10:34:51 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 2 December 2014.