



# SPEC® CPU2017 Floating Point Speed Result

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## Lenovo Global Technology

ThinkSystem SN850  
(3.60 GHz, Intel Xeon Gold 5122)

**SPECSspeed2017\_fp\_base = 83.9**

**SPECSspeed2017\_fp\_peak = 85.4**

CPU2017 License: 9017

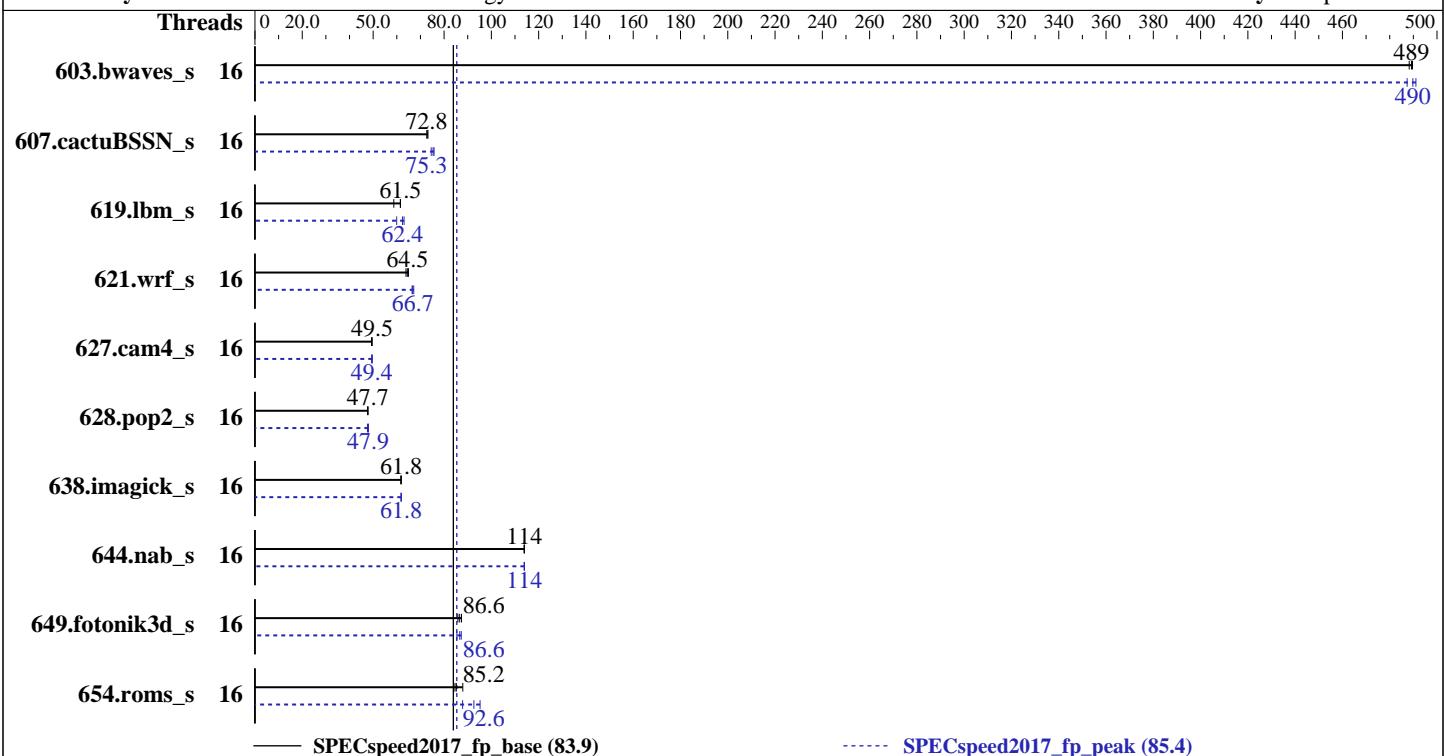
Test Date: Oct-2017

Test Sponsor: Lenovo Global Technology

Hardware Availability: Aug-2017

Tested by: Lenovo Global Technology

Software Availability: Sep-2017



— SPECSspeed2017\_fp\_base (83.9)

----- SPECSspeed2017\_fp\_peak (85.4)

### Hardware

CPU Name: Intel Xeon Gold 5122  
Max MHz.: 3700  
Nominal: 3600  
Enabled: 16 cores, 4 chips  
Orderable: 2,4 chips  
Cache L1: 32 KB I + 32 KB D on chip per core  
L2: 1 MB I+D on chip per core  
L3: 16.5 MB I+D on chip per chip  
Other: None  
Memory: 1536 GB (48 x 32 GB 2Rx4 PC4-2666V-R)  
Storage: 1 x 800 GB SAS SSD  
Other: None

### Software

OS: SUSE Linux Enterprise Server 12 SP2 (x86\_64)  
Kernel 4.4.21-69-default  
Compiler: C/C++: Version 18.0.0.128 of Intel C/C++ Compiler for Linux;  
Fortran: Version 18.0.0.128 of Intel Fortran Compiler for Linux  
Parallel: Yes  
Firmware: Lenovo BIOS Version IVE111I 1.01 released Aug-2017  
File System: xfs  
System State: Run level 3 (multi-user)  
Base Pointers: 64-bit  
Peak Pointers: 64-bit  
Other: None



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## Results Table

| Benchmark                           | Base    |            |             |             |             |            |             | Peak    |             |             |            |             |            |             |
|-------------------------------------|---------|------------|-------------|-------------|-------------|------------|-------------|---------|-------------|-------------|------------|-------------|------------|-------------|
|                                     | Threads | Seconds    | Ratio       | Seconds     | Ratio       | Seconds    | Ratio       | Threads | Seconds     | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       |
| 603.bwaves_s                        | 16      | 120        | 490         | <b>121</b>  | <b>489</b>  | 121        | 488         | 16      | 120         | 491         | <b>120</b> | <b>490</b>  | 121        | 487         |
| 607.cactuBSSN_s                     | 16      | 229        | 72.7        | <b>229</b>  | <b>72.8</b> | 228        | 73.2        | 16      | 220         | 75.8        | <b>221</b> | <b>75.3</b> | 224        | 74.5        |
| 619.lbm_s                           | 16      | 89.2       | 58.7        | <b>85.2</b> | <b>61.5</b> | 85.1       | 61.5        | 16      | <b>83.9</b> | <b>62.4</b> | 83.0       | 63.1        | 87.4       | 60.0        |
| 621.wrf_s                           | 16      | 204        | 64.9        | 207         | 63.9        | <b>205</b> | <b>64.5</b> | 16      | <b>198</b>  | <b>66.7</b> | 199        | 66.5        | 197        | 67.2        |
| 627.cam4_s                          | 16      | <b>179</b> | <b>49.5</b> | 180         | 49.3        | 179        | 49.5        | 16      | 179         | 49.4        | 179        | 49.6        | <b>179</b> | <b>49.4</b> |
| 628.pop2_s                          | 16      | 248        | 47.8        | <b>249</b>  | <b>47.7</b> | 249        | 47.7        | 16      | <b>248</b>  | <b>47.9</b> | 248        | 48.0        | <b>249</b> | 47.6        |
| 638.imagick_s                       | 16      | 233        | 61.9        | 234         | 61.7        | <b>234</b> | <b>61.8</b> | 16      | 233         | 61.8        | 233        | 61.9        | <b>233</b> | <b>61.8</b> |
| 644.nab_s                           | 16      | 153        | 114         | <b>153</b>  | <b>114</b>  | 153        | 114         | 16      | <b>153</b>  | <b>114</b>  | 153        | 114         | <b>153</b> | 114         |
| 649.fotonik3d_s                     | 16      | <b>105</b> | <b>86.6</b> | 106         | 85.8        | 104        | 87.4        | 16      | <b>105</b>  | <b>86.6</b> | 107        | 85.4        | 104        | 87.3        |
| 654.roms_s                          | 16      | 179        | 87.9        | 186         | 84.6        | <b>185</b> | <b>85.2</b> | 16      | 165         | 95.2        | 179        | 87.8        | <b>170</b> | <b>92.6</b> |
| <b>SPECSPEED2017_fp_base = 83.9</b> |         |            |             |             |             |            |             |         |             |             |            |             |            |             |
| <b>SPECSPEED2017_fp_peak = 85.4</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"

## General Notes

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

KMP\_AFFINITY = "granularity=fine,compact"

LD\_LIBRARY\_PATH = "/home/cpu2017.1.0.2.ic18.0/lib/ia32:/home/cpu2017.1.0.2.ic18.0/lib/intel64"

LD\_LIBRARY\_PATH = "\$LD\_LIBRARY\_PATH:/home/cpu2017.1.0.2.ic18.0/je5.0.1-32:/home/cpu2017.1.0.2.ic18.0/je5.0.1-64"

Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM

memory using Redhat Enterprise Linux 7.4

Transparent Huge Pages enabled by default

Prior to runcpu invocation

Filesystem page cache synced and cleared with:

sync; echo 3 > /proc/sys/vm/drop\_caches

## Platform Notes

BIOS configuration:

Choose Operating Mode set to Maximum Performance

Hyper-Threading set to Disable

DCU Streamer Prefetcher set to Disable

MONITORWAIT set to Enable

XPT Prefetcher set to Enable

DCA set to Enable

Stale AtoS set to Enable

LLC Deadline Alloc set to Disable

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## Platform Notes (Continued)

```
Sysinfo program /home/cpu2017.1.0.2.ic18.0/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
running on SN850-01 Fri Oct 27 13:38:43 2017
```

SUT (System Under Test) info as seen by some common utilities.

For more information on this section, see

<https://www.spec.org/cpu2017/Docs/config.html#sysinfo>

From /proc/cpuinfo

```
model name : Intel(R) Xeon(R) Gold 5122 CPU @ 3.60GHz
  4 "physical id"s (chips)
  16 "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 : 4
  siblings   : 4
  physical 0: cores 1 5 9 13
  physical 1: cores 2 3 4 10
  physical 2: cores 1 2 5 11
  physical 3: cores 1 10 11 12
```

From lscpu:

```
Architecture:           x86_64
CPU op-mode(s):        32-bit, 64-bit
Byte Order:            Little Endian
CPU(s):                16
On-line CPU(s) list:  0-15
Thread(s) per core:   1
Core(s) per socket:   4
Socket(s):             4
NUMA node(s):          4
Vendor ID:             GenuineIntel
CPU family:            6
Model:                 85
Model name:            Intel(R) Xeon(R) Gold 5122 CPU @ 3.60GHz
Stepping:               4
CPU MHz:               3591.573
BogoMIPS:              7183.14
Virtualization:        VT-x
L1d cache:             32K
L1i cache:             32K
L2 cache:               1024K
L3 cache:               16896K
NUMA node0 CPU(s):    0-3
NUMA node1 CPU(s):    4-7
NUMA node2 CPU(s):    8-11
NUMA node3 CPU(s):    12-15
```

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## Platform Notes (Continued)

```
fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp
lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc
aperfmpfperf eagerfpu pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
fma cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
xsave avx f16c rdrand lahf_lm abm 3dnowprefetch ida arat epb pln pts dtherm intel_pt
tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2
erms invpcid rtm cqm mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd
avx512bw avx512vl xsaveopt xsavec xgetbv1 cqmq_llc cqmq_occup_llc
```

```
/proc/cpuinfo cache data
cache size : 16896 KB
```

From numactl --hardware    WARNING: a numactl 'node' might or might not correspond to a physical chip.

```
available: 4 nodes (0-3)
node 0 cpus: 0 1 2 3
node 0 size: 386660 MB
node 0 free: 385538 MB
node 1 cpus: 4 5 6 7
node 1 size: 387057 MB
node 1 free: 385868 MB
node 2 cpus: 8 9 10 11
node 2 size: 387057 MB
node 2 free: 385921 MB
node 3 cpus: 12 13 14 15
node 3 size: 387054 MB
node 3 free: 385907 MB
node distances:
node   0   1   2   3
  0: 10 21 21 31
  1: 21 10 31 21
  2: 21 31 10 21
  3: 31 21 21 10
```

From /proc/meminfo

```
MemTotal:      1584976784 kB
HugePages_Total:      0
Hugepagesize:     2048 kB
```

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.
```

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## Platform Notes (Continued)

```
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 SN850-01 4.4.21-69-default #1 SMP Tue Oct 25 10:58:20 UTC 2016 (9464f67) x86_64  
x86_64 x86_64 GNU/Linux
```

run-level 3 Oct 27 08:21

```
SPEC is set to: /home/cpu2017.1.0.2.ic18.0  
Filesystem      Type  Size  Used Avail Use% Mounted on  
/dev/sda4        xfs   836G  306G  530G  37%  /home
```

Additional information from dmidecode follows. 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 Lenovo -[IVE111I-1.01]- 08/11/2017

Memory:

```
48x Samsung M393A4K40BB2-CTD 32 GB 2 rank 2666
```

(End of data from sysinfo program)

## Compiler Version Notes

```
=====  
CC 619.lbm_s(base) 638.imagick_s(base, peak) 644.nab_s(base, peak)  
-----  
icc (ICC) 18.0.0 20170811  
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.  
-----  
=====  
CC 619.lbm_s(peak)  
-----  
icc (ICC) 18.0.0 20170811  
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.  
-----  
=====
```

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## Compiler Version Notes (Continued)

FC 607.cactubSSN\_s(base)

```
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

FC 607.cactubSSN\_s(peak)

```
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

FC 603.bwaves\_s(base) 649.fotonik3d\_s(base) 654.roms\_s(base)

```
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

FC 603.bwaves\_s(peak) 649.fotonik3d\_s(peak) 654.roms\_s(peak)

```
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

CC 621.wrf\_s(base) 627.cam4\_s(base, peak) 628.pop2\_s(base)

```
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

CC 621.wrf\_s(peak) 628.pop2\_s(peak)

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```
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

---

## Base Compiler Invocation

C benchmarks:

icc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

ifort icc

Benchmarks using Fortran, C, and C++:

icpc icc ifort

## Base Portability Flags

```
603.bwaves_s: -DSPEC_LP64
607.cactuBSSN_s: -DSPEC_LP64
619.lbm_s: -DSPEC_LP64
621.wrf_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
627.cam4_s: -DSPEC_LP64 -DSPEC_CASE_FLAG
628.pop2_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
-assume byterecl
638.imagick_s: -DSPEC_LP64
644.nab_s: -DSPEC_LP64
649.fotonik3d_s: -DSPEC_LP64
654.roms_s: -DSPEC_LP64
```

## Base Optimization Flags

C benchmarks:

```
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
```

(Continued on next page)



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## Base Optimization Flags (Continued)

Fortran benchmarks:

```
-DSPEC_OPENMP -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch  
-ffinite-math-only -qopt-mem-layout-trans=3 -fopenmp  
-nostandard-realloc-lhs -align array32byte
```

Benchmarks using both Fortran and C:

```
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch  
-ffinite-math-only -qopt-mem-layout-trans=3 -fopenmp -DSPEC_OPENMP  
-nostandard-realloc-lhs -align array32byte
```

Benchmarks using Fortran, C, and C++:

```
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch  
-ffinite-math-only -qopt-mem-layout-trans=3 -fopenmp -DSPEC_OPENMP  
-nostandard-realloc-lhs -align array32byte
```

## Base Other Flags

C benchmarks:

```
-m64 -std=c11
```

Fortran benchmarks:

```
-m64
```

Benchmarks using both Fortran and C:

```
-m64 -std=c11
```

Benchmarks using Fortran, C, and C++:

```
-m64 -std=c11
```

## Peak Compiler Invocation

C benchmarks:

```
icc
```

Fortran benchmarks:

```
ifort
```

Benchmarks using both Fortran and C:

```
ifort icc
```

Benchmarks using Fortran, C, and C++:

```
icpc icc ifort
```



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## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

```
619.lbm_s: -prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX512
-qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div
-qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP
```

```
638.imagick_s: -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=3 -qopenmp
-DSPEC_OPENMP
```

644.nab\_s: Same as 638.imagick\_s

Fortran benchmarks:

```
-prof-gen(pass 1) -prof-use(pass 2) -DSPEC_SUPPRESS_OPENMP
-DSPEC_OPENMP -O2 -xCORE-AVX512 -qopt-prefetch -ipo -O3
-ffinite-math-only -no-prec-div -qopt-mem-layout-trans=3 -qopenmp
-nostandard-realloc-lhs -align array32byte
```

Benchmarks using both Fortran and C:

```
621.wrf_s: -prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX512
-qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div
-qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte
```

```
627.cam4_s: -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=3 -qopenmp
-DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte
```

628.pop2\_s: Same as 621.wrf\_s

Benchmarks using Fortran, C, and C++:

```
-prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX512 -qopt-prefetch
-ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=3
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP -nostandard-realloc-lhs
-align array32byte
```



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## Peak Other Flags

C benchmarks:

-m64 -std=c11

Fortran benchmarks:

-m64

Benchmarks using both Fortran and C:

-m64 -std=c11

Benchmarks using Fortran, C, and C++:

-m64 -std=c11

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

<http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.html>

<http://www.spec.org/cpu2017/flags/Lenovo-Platform-Flags-V1.2-SKL-F.html>

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

<http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.xml>

<http://www.spec.org/cpu2017/flags/Lenovo-Platform-Flags-V1.2-SKL-F.xml>

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