



SPEC CPU®2017 Floating Point Rate Result

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H3C

SPECrate®2017_fp_base = 76.0

H3C R4900 G2 (Intel Xeon E5-2620 v4, 2.10 GHz)

SPECrate®2017_fp_peak = 77.7

CPU2017 License: 9066

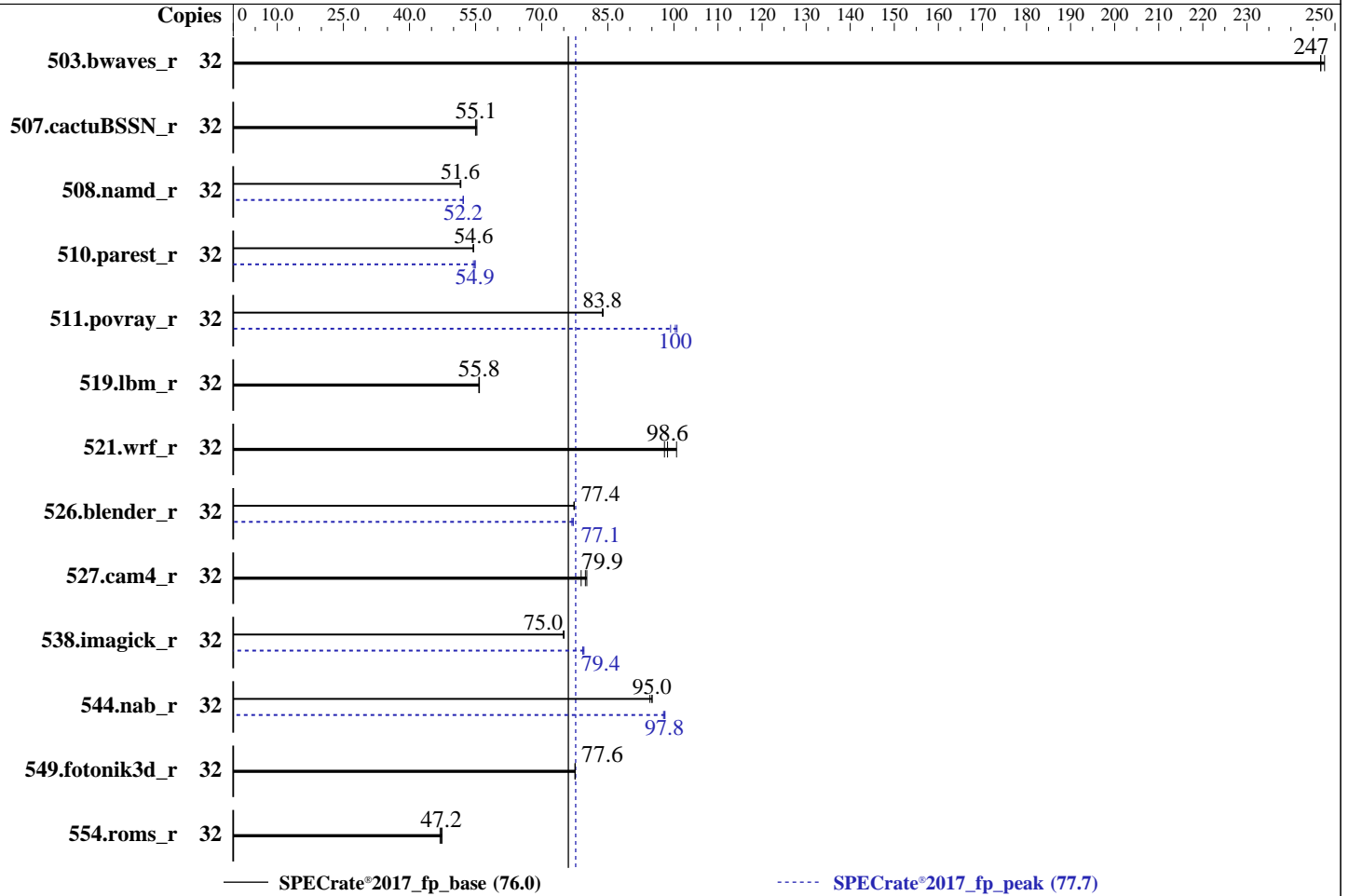
Test Sponsor: H3C

Tested by: H3C

Test Date: Feb-2017

Hardware Availability: Oct-2016

Software Availability: Oct-2016



Hardware

CPU Name: Intel Xeon E5-2620 v4
 Max MHz: 3000
 Nominal: 2100
 Enabled: 16 cores, 2 chips, 2 threads/core
 Orderable: 1,2 chip
 Cache L1: 32 KB I + 32 KB D on chip per core
 L2: 256 KB I+D on chip per core
 L3: 20 MB I+D on chip per chip
 Other: None
 Memory: 256 GB (16 x 16 GB 2Rx4 PC4-2400T-R, running at 2133)
 Storage: 500GB SATA 7200 RPM
 Other: None

Software

OS: SUSE Linux Enterprise Server 12 SP1
 SUSE Linux Enterprise Server 12 SP1 3.12.49-11-default
 Compiler: C/C++: Version 17.0.0.098 of Intel C++ Compiler Professional Build 20160721;
 Fortran: Version 17.0.0.098 of Intel Fortran Compiler Professional Build 20160721;
 Parallel: No
 Firmware: BIOS American Megatrends Inc. 1.00.15 10/17/2016
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 32/64-bit
 Peak Pointers: Not Applicable
 Other: None
 Power Management: --



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r	32	1301	247	1300	247	1296	248	32	1301	247	1300	247	1296	248
507.cactuBSSN_r	32	737	55.0	735	55.1	733	55.3	32	737	55.0	735	55.1	733	55.3
508.namd_r	32	588	51.7	589	51.6	590	51.5	32	582	52.2	582	52.2	583	52.2
510.parest_r	32	1535	54.6	1538	54.4	1535	54.6	32	1536	54.5	1526	54.9	1525	54.9
511.povray_r	32	892	83.8	892	83.7	890	83.9	32	753	99.2	742	101	745	100
519.lbm_r	32	604	55.8	604	55.9	605	55.8	32	604	55.8	604	55.9	605	55.8
521.wrf_r	32	727	98.6	733	97.9	713	101	32	727	98.6	733	97.9	713	101
526.blender_r	32	630	77.4	630	77.3	630	77.4	32	632	77.1	634	76.9	632	77.1
527.cam4_r	32	709	78.9	697	80.2	700	79.9	32	709	78.9	697	80.2	700	79.9
538.imagick_r	32	1061	75.0	1062	74.9	1061	75.0	32	1000	79.6	1003	79.3	1002	79.4
544.nab_r	32	567	95.1	567	95.0	570	94.6	32	550	97.8	552	97.6	550	98.0
549.fotonik3d_r	32	1607	77.6	1608	77.6	1608	77.6	32	1607	77.6	1608	77.6	1608	77.6
554.roms_r	32	1077	47.2	1074	47.4	1083	46.9	32	1077	47.2	1074	47.4	1083	46.9

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

Compiler Notes

SPEC has learned that this result, which used an evaluation compiler, was submitted contrary to the compiler license terms.
Intel has granted a one-time waiver for this result.

Operating System Notes

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

Platform Notes

BIOS Configuration:
Operation Mode set to Maximum Performance
COD set to Enable
Enable CPU HWPM set to HWPM OOB
Energy Performance BIAS Setting set to Performance
Sysinfo program /home/speccpu/Docs/sysinfo
Rev: r5007 of 2016-11-15 fc8dc82f217779bedfed4d694d580ba9
running on linux-n0i2 Tue Feb 28 19:34:36 2017

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

For more information on this section, see
<http://www.spec.org/cpu2017/Docs/config.html#sysinfo>

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Software Availability: Oct-2016

Platform Notes (Continued)

From /proc/cpuinfo

```

model name : Intel(R) Xeon(R) CPU E5-2620 v4 @ 2.10GHz
 2 "physical id"s (chips)
 32 "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 : 8
  siblings  : 16
  physical 0: cores 0 1 2 3 4 5 6 7
  physical 1: cores 0 1 2 3 4 5 6 7
 cache size : 20480 KB

```

The view from numactl --hardware follows. WARNING: a numactl 'node' might or might not correspond to a physical chip.

```

available: 2 nodes (0-1)
node 0 cpus: 0 1 2 3 4 5 6 7 16 17 18 19 20 21 22 23
node 0 size: 129009 MB
node 0 free: 128316 MB
node 1 cpus: 8 9 10 11 12 13 14 15 24 25 26 27 28 29 30 31
node 1 size: 129154 MB
node 1 free: 128456 MB
node distances:
node   0   1
  0:  10  21
  1:  21  10

```

From /proc/meminfo

```

MemTotal:      264359968 kB
HugePages_Total:       0
Hugepagesize:       2048 kB

```

/usr/bin/lsb_release -d

SUSE Linux Enterprise Server 12 SP1

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

```

SuSE-release:
SUSE Linux Enterprise Server 12 (x86_64)
VERSION = 12
PATCHLEVEL = 1
# 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-SP1"

```

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Platform Notes (Continued)

```
VERSION_ID="12.1"
PRETTY_NAME="SUSE Linux Enterprise Server 12 SP1"
ID="sles"
ANSI_COLOR="0;32"
CPE_NAME="/o:suse:sles:12:sp1"
```

```
uname -a:
Linux linux-n0i2 3.12.49-11-default #1 SMP Wed Nov 11 20:52:43 UTC 2015
(8d714a0) x86_64 x86_64 x86_64 GNU/Linux
```

```
run-level 3 Feb 28 19:27
```

```
SPEC is set to: /home/speccpu
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sda3       xfs   417G  26G  392G   7% /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 American Megatrends Inc. 1.00.15 10/20/2016
Memory:
16x Hynix Semiconductor HMA42GR7AFR4N-UH 16 GB 2 rank 2400 MHz, configured at
2133 MHz
8x NO DIMM NO DIMM
```

(End of data from sysinfo program)

Compiler Version Notes

```
=====  
C          | 519.lbm_r(base, peak) 538.imagick_r(base, peak)  
          | 544.nab_r(base, peak)  
=====
```

```
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,  
Version 17.0.0.098 Build 20160721  
Copyright (C) 1985-2016 Intel Corporation. All rights reserved.  
icc: NOTE: The evaluation period for this product ends on 11-mar-2017 UTC.  
=====
```

```
=====  
C++       | 508.namd_r(base, peak) 510.parest_r(base, peak)  
=====
```

```
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,  
Version 17.0.0.098 Build 20160721
```

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Test Date: Feb-2017
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Compiler Version Notes (Continued)

Copyright (C) 1985-2016 Intel Corporation. All rights reserved.
icpc: NOTE: The evaluation period for this product ends on 11-mar-2017 UTC.

```
=====  
C++, C      | 511.povray_r(base pass 0, base pass 0, peak pass 1, peak  
            | pass 1, peak pass 2, peak pass 2) 526.blender_r(base pass  
            | 0, base pass 0, peak pass 1, peak pass 1, peak pass 2, peak  
            | pass 2)  
-----
```

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 17.0.0.098 Build 20160721

Copyright (C) 1985-2016 Intel Corporation. All rights reserved.
icc: NOTE: The evaluation period for this product ends on 11-mar-2017 UTC.

```
=====  
C++, C      | 507.cactuBSSN_r(base pass 0, peak pass 0) 511.povray_r(base  
            | pass 0, base pass 0, peak pass 1, peak pass 1, peak pass 2,  
            | peak pass 2) 526.blender_r(base pass 0, base pass 0, peak  
            | pass 1, peak pass 1, peak pass 2, peak pass 2)  
-----
```

Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
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```
=====  
C++, C      | 511.povray_r(base pass 0, base pass 0, peak pass 1, peak  
            | pass 1, peak pass 2, peak pass 2) 526.blender_r(base pass  
            | 0, base pass 0, peak pass 1, peak pass 1, peak pass 2, peak  
            | pass 2)  
-----
```

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
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```
=====  
C++, C      | 507.cactuBSSN_r(base pass 0, peak pass 0) 511.povray_r(base  
            | pass 0, base pass 0, peak pass 1, peak pass 1, peak pass 2,  
            | peak pass 2) 526.blender_r(base pass 0, base pass 0, peak  
            | pass 1, peak pass 1, peak pass 2, peak pass 2)  
-----
```

Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,

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=====
 C++, C, Fortran | 507.cactuBSSN_r(base pass 0, peak pass 0)

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 Copyright (C) 1985-2016 Intel Corporation. All rights reserved.
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=====
 C++, C, Fortran | 507.cactuBSSN_r(base pass 0, peak pass 0)

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
 64, Version 17.0.0.098 Build 20160721
 Copyright (C) 1985-2016 Intel Corporation. All rights reserved.
 ifort: NOTE: The evaluation period for this product ends on 11-mar-2017 UTC.

=====
 C++, C, Fortran | 507.cactuBSSN_r(base pass 0, peak pass 0)

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
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=====
 C++, C, Fortran | 507.cactuBSSN_r(base pass 0, peak pass 0)

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 64, Version 17.0.0.098 Build 20160721
 Copyright (C) 1985-2016 Intel Corporation. All rights reserved.
 ifort: NOTE: The evaluation period for this product ends on 11-mar-2017 UTC.

=====
 Fortran | 503.bwaves_r(base, peak) 549.fotonik3d_r(base, peak)
554.roms_r(base, peak)

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
 64, Version 17.0.0.098 Build 20160721

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Compiler Version Notes (Continued)

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```
=====
Fortran, C | 521.wrf_r(base pass 0, base pass 0, peak pass 0, peak pass
           | 0) 527.cam4_r(base pass 0, base pass 0, peak pass 0, peak
           | pass 0)
=====
```

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
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Copyright (C) 1985-2016 Intel Corporation. All rights reserved.
icc: NOTE: The evaluation period for this product ends on 11-mar-2017 UTC.

```
=====
Fortran, C | 521.wrf_r(base pass 0, base pass 0, peak pass 0, peak pass
           | 0) 527.cam4_r(base pass 0, base pass 0, peak pass 0, peak
           | pass 0)
=====
```

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```
=====
Fortran, C | 521.wrf_r(base pass 0, base pass 0, peak pass 0, peak pass
           | 0) 527.cam4_r(base pass 0, base pass 0, peak pass 0, peak
           | pass 0)
=====
```

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```
=====
Fortran, C | 521.wrf_r(base pass 0, base pass 0, peak pass 0, peak pass
           | 0) 527.cam4_r(base pass 0, base pass 0, peak pass 0, peak
           | pass 0)
=====
```

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
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Base Compiler Invocation

C benchmarks:

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

C++ benchmarks:

```
icpc -m64
```

Fortran benchmarks:

```
ifort -m64
```

Benchmarks using both Fortran and C:

```
ifort -m64 icc -m64 -std=c11
```

Benchmarks using both C and C++:

```
icpc -m64 icc -m64 -std=c11
```

Benchmarks using Fortran, C, and C++:

```
icpc -m64 icc -m64 -std=c11 ifort -m64
```

Base Portability Flags

```
503.bwaves_r: -DSPEC_LP64
507.cactuBSSN_r: -DSPEC_LP64
508.namd_r: -DSPEC_LP64
510.parest_r: -DSPEC_LP64
511.povray_r: -DSPEC_LP64
519.lbm_r: -DSPEC_LP64
521.wrf_r: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
526.blender_r: -DSPEC_LP64 -DSPEC_LINUX -funsigned-char
527.cam4_r: -DSPEC_LP64 -DSPEC_CASE_FLAG
538.imagick_r: -DSPEC_LP64
544.nab_r: -DSPEC_LP64
549.fotonik3d_r: -DSPEC_LP64
554.roms_r: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:

```
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ansi-alias
-qopt-mem-layout-trans=3 -auto-p32
```

C++ benchmarks:

```
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ansi-alias
```

(Continued on next page)



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Base Optimization Flags (Continued)

C++ benchmarks (continued):

`-qopt-mem-layout-trans=3 -auto-p32`

Fortran benchmarks:

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

Benchmarks using both Fortran and C:

`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ansi-alias
-qopt-mem-layout-trans=3 -auto-p32 -heap-arrays`

Benchmarks using both C and C++:

`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ansi-alias
-qopt-mem-layout-trans=3 -auto-p32`

Benchmarks using Fortran, C, and C++:

`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ansi-alias
-qopt-mem-layout-trans=3 -auto-p32 -heap-arrays`

Peak Compiler Invocation

C benchmarks:

`icc -m64 -std=c11`

C++ benchmarks:

`icpc -m64`

Fortran benchmarks:

`ifort -m64`

Benchmarks using both Fortran and C:

`ifort -m64 icc -m64 -std=c11`

Benchmarks using both C and C++:

`icpc -m64 icc -m64 -std=c11`

Benchmarks using Fortran, C, and C++:

`icpc -m64 icc -m64 -std=c11 ifort -m64`



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Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

519.lbm_r: basepeak = yes

538.imagick_r: -xCORE-AVX2(pass 2) -prof-genthreadsafe(pass 1)
-ipo(pass 2) -O3(pass 2) -par-num-threads=1(pass 1)
-no-prec-div(pass 2) -prof-use(pass 2) -auto-ilp32
-ansi-alias

544.nab_r: Same as 538.imagick_r

C++ benchmarks:

-xCORE-AVX2(pass 2) -prof-genthreadsafe(pass 1) -ipo(pass 2)
-O3(pass 2) -par-num-threads=1(pass 1) -no-prec-div(pass 2)
-prof-use(pass 2) -ansi-alias

Fortran benchmarks:

503.bwaves_r: basepeak = yes

549.fotonik3d_r: basepeak = yes

554.roms_r: basepeak = yes

Benchmarks using both Fortran and C:

521.wrf_r: basepeak = yes

527.cam4_r: basepeak = yes

Benchmarks using both C and C++:

-xCORE-AVX2(pass 2) -prof-genthreadsafe(pass 1) -ipo(pass 2)
-O3(pass 2) -par-num-threads=1(pass 1) -no-prec-div(pass 2)
-prof-use(pass 2) -auto-ilp32 -ansi-alias

Benchmarks using Fortran, C, and C++:

507.cactuBSSN_r: basepeak = yes



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The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2017/flags/IC17.0-official-linux64.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2017/flags/IC17.0-official-linux64.xml>

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

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