



# SPEC CPU®2017 Floating Point Speed Result

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## ASUSTeK Computer Inc.

ASUS RS720-E11-RS12U  
(2.20 GHz, Intel Xeon Gold 6454S)

**SPECSpeed®2017\_fp\_base = 299**

**SPECSpeed®2017\_fp\_peak = 299**

CPU2017 License: 9016

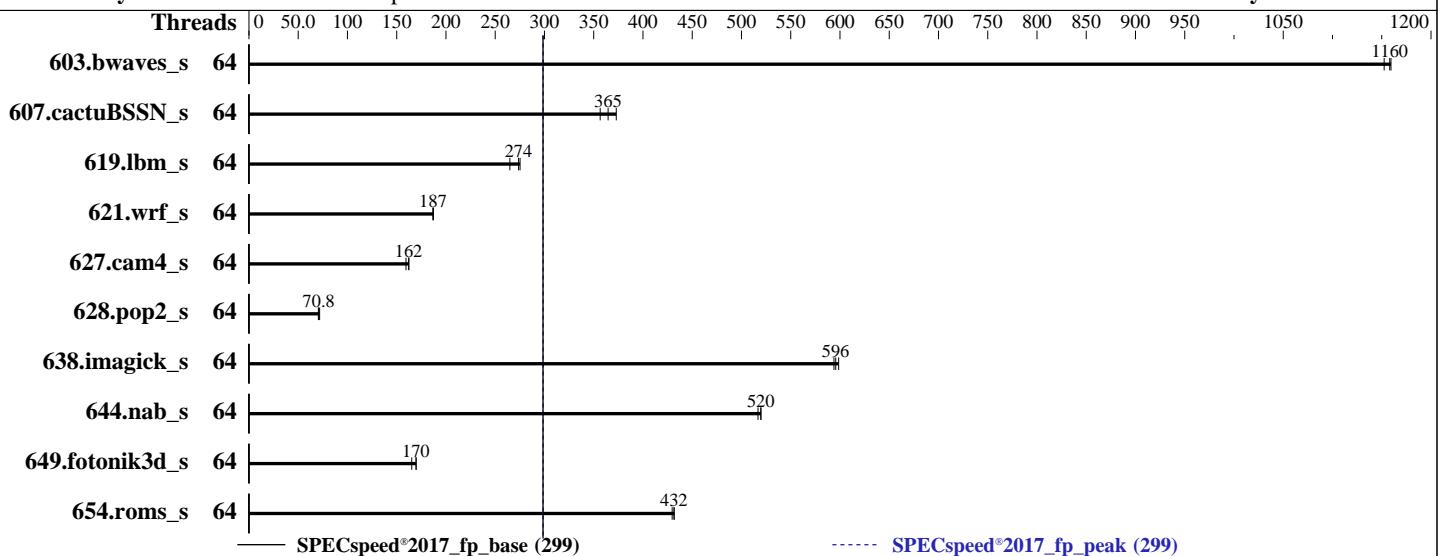
**Test Date:** May-2023

Test Sponsor: ASUSTeK Computer Inc.

**Hardware Availability:** Feb-2023

Tested by: ASUSTeK Computer Inc.

**Software Availability:** Dec-2022



### Hardware

CPU Name: Intel Xeon Gold 6454S  
Max MHz: 3400  
Nominal: 2200  
Enabled: 64 cores, 2 chips  
Orderable: 1, 2 chip(s)  
Cache L1: 32 KB I + 48 KB D on chip per core  
L2: 2 MB I+D on chip per core  
L3: 60 MB I+D on chip per chip  
Other: None  
Memory: 1 TB (16 x 64 GB 2Rx4 PC5-4800B-R)  
Storage: 1 x 1.6 TB PCIe NVMe SSD  
Other: None

### Software

OS: SUSE Linux Enterprise Server 15 SP4 (x86\_64)  
Compiler: Kernel 5.14.21-150400.22-default  
C/C++: Version 2023.0 of Intel oneAPI DPC++/C++ Compiler for Linux;  
Fortran: Version 2023.0 of Intel Fortran Compiler for Linux;  
Parallel: Yes  
Firmware: Version 0701 released May-2023  
File System: xfs  
System State: Run level 3 (multi-user)  
Base Pointers: 64-bit  
Peak Pointers: 64-bit  
Other: jemalloc memory allocator V5.0.1  
Power Management: BIOS and OS set to prefer performance at the cost of additional power usage.



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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	64	51.2	1150	50.9	1160	<b>50.9</b>	<b>1160</b>	64	51.2	1150	50.9	1160	<b>50.9</b>	<b>1160</b>
607.cactuBSSN_s	64	44.7	373	46.8	357	<b>45.7</b>	<b>365</b>	64	44.7	373	46.8	357	<b>45.7</b>	<b>365</b>
619.lbm_s	64	19.8	265	19.0	275	<b>19.1</b>	<b>274</b>	64	19.8	265	19.0	275	<b>19.1</b>	<b>274</b>
621.wrf_s	64	70.8	187	70.6	187	<b>70.7</b>	<b>187</b>	64	70.8	187	70.6	187	<b>70.7</b>	<b>187</b>
627.cam4_s	64	54.6	162	55.6	159	<b>54.7</b>	<b>162</b>	64	54.6	162	55.6	159	<b>54.7</b>	<b>162</b>
628.pop2_s	64	165	71.7	<b>168</b>	<b>70.8</b>	169	70.5	64	165	71.7	<b>168</b>	<b>70.8</b>	169	70.5
638.imagick_s	64	24.3	594	<b>24.2</b>	<b>596</b>	24.1	599	64	24.3	594	<b>24.2</b>	<b>596</b>	24.1	599
644.nab_s	64	<b>33.6</b>	<b>520</b>	33.6	520	33.8	517	64	<b>33.6</b>	<b>520</b>	33.6	520	33.8	517
649.fotonik3d_s	64	53.7	170	55.2	165	<b>53.7</b>	<b>170</b>	64	53.7	170	55.2	165	<b>53.7</b>	<b>170</b>
654.roms_s	64	<b>36.5</b>	<b>432</b>	36.6	430	36.5	432	64	<b>36.5</b>	<b>432</b>	36.6	430	36.5	432

**SPECSpeed®2017\_fp\_base = 299**

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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"  
OS set to performance mode via cpupower frequency-set -g performance

## Environment Variables Notes

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

KMP\_AFFINITY = "granularity=fine,compact"

LD\_LIBRARY\_PATH = "/cpul19/lib/intel64:/cpul19/je5.0.1-64"

MALLOC\_CONF = "retain:true"

OMP\_STACKSIZE = "192M"

## General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM  
memory using Redhat Enterprise Linux 8.0

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

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)  
is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1)  
is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2)  
is mitigated in the system as tested and documented.

jemalloc, a general purpose malloc implementation

built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

sources available from jemalloc.net or https://github.com/jemalloc/jemalloc/releases

## Platform Notes

BIOS Configuration:  
VT-d = Disabled

(Continued on next page)



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## Platform Notes (Continued)

Patrol Scrub = Disabled  
Hyper-Threading = Disable  
Engine Boost = Aggressive  
SR-IOV Support = Disabled  
BMC Configuration:  
Fan mode = Full speed mode

```
Sysinfo program /cpull9/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Wed May 24 11:36:38 2023
```

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

-----  
Table of contents

```
1. uname -a
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numactl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 249 (249.11+suse.124.g2bc0b2c447)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS
```

-----

```
1. uname -a
Linux localhost 5.14.21-150400.22-default #1 SMP PREEMPT_DYNAMIC Wed May 11 06:57:18 UTC 2022 (49db222)
x86_64 x86_64 x86_64 GNU/Linux
```

-----

```
2. w
11:36:38 up 1:00, 1 user, load average: 43.90, 55.45, 56.88
USER      TTY      FROM          LOGIN@    IDLE     JCPU    PCPU WHAT
root      tty1      -           10:36    59:50   0.95s  0.00s /bin/bash ./speed.sh
```

-----

```
3. Username
From environment variable $USER: root
```

-----

```
4. ulimit -a
core file size          (blocks, -c) unlimited
data seg size            (kbytes, -d) unlimited
scheduling priority      (-e) 0
```

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## Platform Notes (Continued)

```
file size          (blocks, -f) unlimited
pending signals   (-i) 4126922
max locked memory (kbytes, -l) 64
max memory size   (kbytes, -m) unlimited
open files         (-n) 1024
pipe size          (512 bytes, -p) 8
POSIX message queues (bytes, -q) 819200
real-time priority (-r) 0
stack size          (kbytes, -s) unlimited
cpu time            (seconds, -t) unlimited
max user processes (-u) 4126922
virtual memory      (kbytes, -v) unlimited
file locks          (-x) unlimited
```

```
-----  
5. sysinfo process ancestry  
/usr/lib/systemd/systemd --switched-root --system --deserialize 30  
login -- root  
-bash  
/bin/bash ./speed.sh  
/bin/bash ./speed.sh  
runcpu --nobuild --action validate --define default-platform-flags -c  
  ic2023.0-lin-core-avx512-speed-20221201.cfg --define cores=64 --tune base,peak -o all --define drop_caches  
  fpspeed  
runcpu --nobuild --action validate --define default-platform-flags --configfile  
  ic2023.0-lin-core-avx512-speed-20221201.cfg --define cores=64 --tune base,peak --output_format all  
  --define drop_caches --nopower --runmode speed --tune base:peak --size refspeed fpspeed --nopreenv  
  --note-preenv --logfile $SPEC/tmp/CPU2017.413/templogs/preenv.fpspeed.413.0.log --lognum 413.0  
  --from_runcpu 2  
specperl $SPEC/bin/sysinfo  
$SPEC = /cpul19
```

```
-----  
6. /proc/cpuinfo  
model name      : Intel(R) Xeon(R) Gold 6454S
vendor_id        : GenuineIntel
cpu family       : 6
model           : 143
stepping         : 8
microcode        : 0xb000461
bugs             : spectre_v1 spectre_v2 spec_store_bypass swapgs
cpu cores        : 32
siblings         : 32
2 physical ids (chips)
64 processors (hardware threads)
physical id 0: core ids 0-31
physical id 1: core ids 0-31
physical id 0: apicids
0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62
physical id 1: apicids
128,130,132,134,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,170,172,174,176,178,1
80,182,184,186,188,190
Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for
virtualized systems. Use the above data carefully.
```

```
-----  
7. lscpu
```

```
From lscpu from util-linux 2.37.2:
Architecture:          x86_64
```

(Continued on next page)



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## Platform Notes (Continued)

```

CPU op-mode(s):           32-bit, 64-bit
Address sizes:            46 bits physical, 57 bits virtual
Byte Order:               Little Endian
CPU(s):                  64
On-line CPU(s) list:     0-63
Vendor ID:                GenuineIntel
Model name:              Intel(R) Xeon(R) Gold 6454S
CPU family:               6
Model:                   143
Thread(s) per core:      1
Core(s) per socket:       32
Socket(s):                2
Stepping:                 8
CPU max MHz:              3400.0000
CPU min MHz:              800.0000
BogoMIPS:                 4400.00
Flags:                    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 cpuid aperf fm perf tsc_known_freq pni pclmulqdq dtes64 monitor
                           ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtrp pdcm pcid dca sse4_1
                           sse4_2 x2apic movebe popcnt tsc_deadline_timer aes xsave avx f16c rdrand
                          lahf_lm abm 3nowprefetch cpuid_fault epb cat_13 cat_12 cdp_13
                           invpcid_single intel_ppin cdp_12 ssbd mba ibrs ibpb stibp ibrs_enhanced
                           tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmil hle
                           avx2 smep bmil2 erms invpcid rtm cqm rdt_a avx512f avx512dq rdseed adx smap
                           avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl
                           xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total
                           cqm_mbm_local split_lock_detect avx_vnni avx512_bf16 wbnoinvd dtherm ida
                           arat pln pts hwp hwp_act_window hwp_epp hwp_pkg_req avx512vbmi umip pku
                           ospke waitpkg avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg
                           tme avx512_vpocndq la57 rdpid bus_lock_detect cldemote movdiri movdir64b
                           enqcmd fsrm md_clear serialize tsxlentrk pconfig arch_lbr avx512_fp16
                           amx_tile flush_lll arch_capabilities

Virtualization:          VT-x
L1d cache:                3 MiB (64 instances)
L1i cache:                2 MiB (64 instances)
L2 cache:                 128 MiB (64 instances)
L3 cache:                 120 MiB (2 instances)
NUMA node(s):              2
NUMA node0 CPU(s):        0-31
NUMA node1 CPU(s):        32-63
Vulnerability Itlb multihit: Not affected
Vulnerability Llft:        Not affected
Vulnerability Mds:         Not affected
Vulnerability Meltdown:    Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1:   Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2:   Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
Vulnerability Srbds:        Not affected
Vulnerability Tsx async abort: Not affected

```

```

From lscpu --cache:
  NAME ONE-SIZE ALL-SIZE WAYS TYPE      LEVEL    SETS PHY-LINE COHERENCY-SIZE
  L1d     48K      3M    12 Data        1      64      1          64
  L1i     32K      2M     8 Instruction  1      64      1          64
  L2      2M      128M   16 Unified      2    2048      1          64
  L3      60M     120M   15 Unified      3   65536      1          64
-----
```

(Continued on next page)



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## Platform Notes (Continued)

8. numactl --hardware

NOTE: a numactl 'node' might or might not correspond to a physical chip.  
available: 2 nodes (0-1)  
node 0 cpus: 0-31  
node 0 size: 515730 MB  
node 0 free: 514446 MB  
node 1 cpus: 32-63  
node 1 size: 516024 MB  
node 1 free: 514066 MB  
node distances:  
node 0 1  
0: 10 21  
1: 21 10

-----  
9. /proc/meminfo

MemTotal: 1056516736 kB

-----  
10. who -r  
run-level 3 May 24 10:36

-----  
11. Systemd service manager version: systemd 249 (249.11+suse.124.g2bc0b2c447)

Default Target Status  
multi-user running

-----  
12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager getty@ haveged irqbalance issue-generator kbdsettings klog lvm2-monitor nsqd nvmefc-boot-connections postfix purge-kernels rollback rsyslog smartd sshd wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime	systemd-remount-fs
disabled	autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed debug-shell ebttables exchange-bmc-os-info firewalld gpm grub2-once haveged-switch-root hwloc-dump-hwdata ipmi ipmievfd issue-add-ssh-keys kexec-load lummask man-db-create multipathd nfs nfs-blkmap nvmf-autoconnect rdisc rpcbind rpmconfigcheck rsyncd serial-getty@ smartd_generate_opts snmpd snmptrapd svnservice systemd-boot-check-no-failures systemd-network-generator systemd-sysext systemd-time-wait-sync systemd-timesyncd udisks2
indirect	wickedd

-----  
13. Linux kernel boot-time arguments, from /proc/cmdline

BOOT\_IMAGE=/boot/vmlinuz-5.14.21-150400.22-default  
root=UUID=1821a225-9785-4821-9a33-99bd3ded8cae  
splash=silent  
mitigations=auto  
quiet  
security=apparmor

-----  
14. cpupower frequency-info

analyzing CPU 0:  
current policy: frequency should be within 800 MHz and 3.40 GHz.  
The governor "performance" may decide which speed to use  
within this range.  
boost state support:

(Continued on next page)



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## Platform Notes (Continued)

Supported: yes

Active: yes

```
-----  
15. sysctl  
kernel.numa_balancing          1  
kernel.randomize_va_space      2  
vm.compaction_proactiveness   20  
vm.dirty_background_bytes     0  
vm.dirty_background_ratio     10  
vm.dirty_bytes                0  
vm.dirty_expire_centisecs    3000  
vm.dirty_ratio                20  
vm.dirty_writeback_centisecs  500  
vm.dirtytime_expire_seconds   43200  
vm.extfrag_threshold          500  
vm.min_unmapped_ratio         1  
vm.nr_hugepages               0  
vm.nr_hugepages_mempolicy     0  
vm.nr_overcommit_hugepages   0  
vm.swappiness                 60  
vm.watermark_boost_factor    15000  
vm.watermark_scale_factor     10  
vm.zone_reclaim_mode          0
```

```
-----  
16. /sys/kernel/mm/transparent_hugepage  
defrag           always defer defer+madvise [madvise] never  
enabled          [always] madvise never  
hpage_pmd_size  2097152  
shmem_enabled   always within_size advise [never] deny force
```

```
-----  
17. /sys/kernel/mm/transparent_hugepage/khugepaged  
alloc_sleep_millisecs  60000  
defrag                1  
max_ptes_none        511  
max_ptes_shared      256  
max_ptes_swap        64  
pages_to_scan        4096  
scan_sleep_millisecs 10000
```

```
-----  
18. OS release  
From /etc/*-release /etc/*-version  
os-release SUSE Linux Enterprise Server 15 SP4
```

```
-----  
19. Disk information  
SPEC is set to: /cpu119  
Filesystem  Type  Size  Used Avail Use% Mounted on  
/dev/nvme0n1p8  xfs   1.3T  23G  1.2T   2%  /
```

```
-----  
20. /sys/devices/virtual/dmi/id  
Vendor:      ASUSTeK COMPUTER INC.  
Product:     RS720-E11-RS12U  
Product Family: Server  
Serial:      R1S0MD000002
```

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## Platform Notes (Continued)

### 21. dmidecode

Additional information from dmidecode 3.2 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.

#### Memory:

16x Samsung M321R8GA0BB0-CQKVG 64 GB 2 rank 4800

### 22. BIOS

(This section combines info from /sys/devices and dmidecode.)

BIOS Vendor: American Megatrends Inc.  
BIOS Version: 0701  
BIOS Date: 05/02/2023  
BIOS Revision: 7.1

## Compiler Version Notes

=====

C | 619.lbm\_s(base, peak) 638.imagick\_s(base, peak) 644.nab\_s(base, peak)

=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.

=====

=====

C++, C, Fortran | 607.cactusBSSN\_s(base, peak)

=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201  
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Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201  
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=====

=====

Fortran | 603.bwaves\_s(base, peak) 649.fotonik3d\_s(base, peak) 654.roms\_s(base, peak)

=====

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.

=====

=====

Fortran, C | 621.wrf\_s(base, peak) 627.cam4\_s(base, peak) 628.pop2\_s(base, peak)

=====

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## Base Compiler Invocation

C benchmarks:

icx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

Benchmarks using Fortran, C, and C++:

icpx icx ifx

## 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:

-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -fno-math-errno  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fopenmp  
-DSPEC\_OPENMP -Wno-implicit-int -L/usr/local/jemalloc64-5.0.1/lib  
-ljemalloc

Fortran benchmarks:

-m64 -Wl,-z,muldefs -DSPEC\_OPENMP -xCORE-AVX512 -Ofast -ffast-math  
-fno-math-errno -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fopenmp  
-fno-standard-realloc-lhs -align array32byte -auto  
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using both Fortran and C:

-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -fno-math-errno

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# SPEC CPU®2017 Floating Point Speed Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

## ASUSTeK Computer Inc.

ASUS RS720-E11-RS12U  
(2.20 GHz, Intel Xeon Gold 6454S)

SPECspeed®2017\_fp\_base = 299

SPECspeed®2017\_fp\_peak = 299

CPU2017 License: 9016

Test Date: May-2023

Test Sponsor: ASUSTeK Computer Inc.

Hardware Availability: Feb-2023

Tested by: ASUSTeK Computer Inc.

Software Availability: Dec-2022

## Base Optimization Flags (Continued)

Benchmarks using both Fortran and C (continued):

```
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fopenmp
-DSPEC_OPENMP -Wno-implicit-int -nostandard-realloc-lhs
-align array32byte -auto -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Benchmarks using Fortran, C, and C++:

```
-m64 -std=c++14 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fopenmp -DSPEC_OPENMP -Wno-implicit-int
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

## Peak Compiler Invocation

C benchmarks:

icx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

Benchmarks using Fortran, C, and C++:

icpx icx ifx

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

619.lbm\_s: basepeak = yes

638.imagick\_s: basepeak = yes

644.nab\_s: basepeak = yes

(Continued on next page)



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## Peak Optimization Flags (Continued)

Fortran benchmarks:

603.bwaves\_s: basepeak = yes

649.fotonik3d\_s: basepeak = yes

654.roms\_s: basepeak = yes

Benchmarks using both Fortran and C:

621.wrf\_s: basepeak = yes

627.cam4\_s: basepeak = yes

628.pop2\_s: basepeak = yes

Benchmarks using Fortran, C, and C++:

607.cactuBSSN\_s: basepeak = yes

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

<http://www.spec.org/cpu2017/flags/ASUSTekPlatform-Settings-z13-V1.1.html>  
<http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.html>

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

<http://www.spec.org/cpu2017/flags/ASUSTekPlatform-Settings-z13-V1.1.xml>  
<http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.xml>

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Tested with SPEC CPU®2017 v1.1.9 on 2023-05-23 23:36:37-0400.

Report generated on 2023-07-19 19:48:18 by CPU2017 PDF formatter v6716.

Originally published on 2023-07-19.