



SPEC CPU®2017 Floating Point Speed Result

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Tyrone Systems

(Test Sponsor: Netweb Technologies India Ltd)

Tyrone Camarero SDI200A2N-224
(2.8 GHz, Intel Xeon Platinum 8562Y+)

SPECSpeed®2017_fp_base = 353

SPECSpeed®2017_fp_peak = 353

CPU2017 License: 006802

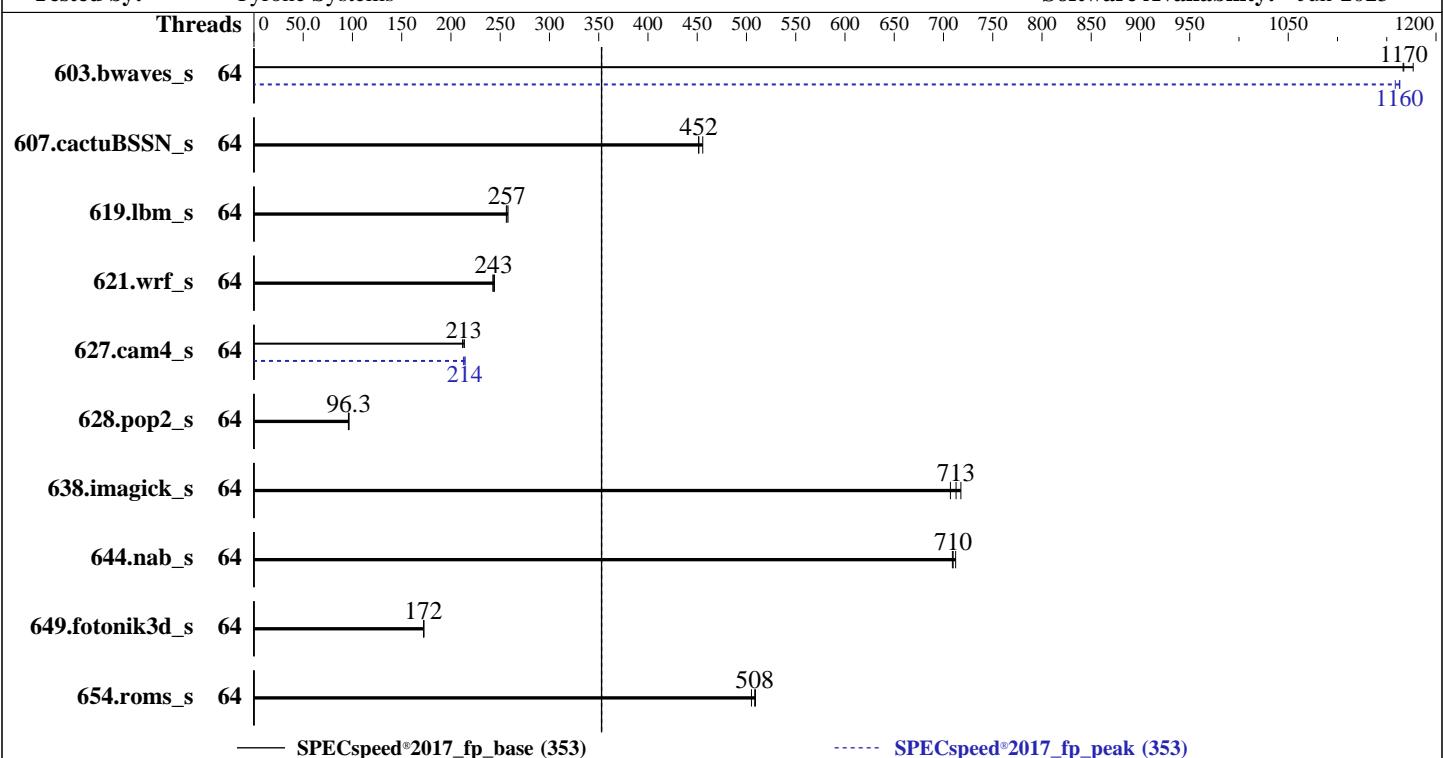
Test Date: Jul-2025

Test Sponsor: Netweb Technologies India Ltd

Hardware Availability: Jan-2024

Tested by: Tyrone Systems

Software Availability: Jun-2025



Hardware		Software	
CPU Name:	Intel Xeon Platinum 8562Y+	OS:	Ubuntu 22.04.1 LTS
Max MHz:	4100	Compiler:	5.15.0-143-generic
Nominal:	2800		C/C++: Version 2024.0.2 of Intel oneAPI DPC++/C++ Compiler for Linux;
Enabled:	64 cores, 2 chips, 2 threads/core		Fortran: Version 2024.0.2 of Intel Fortran Compiler for Linux;
Orderable:	1,2 chips	Parallel:	Yes
Cache L1:	32 KB I + 48 KB D on chip per core	Firmware:	Version 2.6 released May-2025
L2:	2 MB I+D on chip per core	File System:	ext4
L3:	60 MB I+D on chip per chip	System State:	Run level 3 (Multi-user)
Other:	None	Base Pointers:	64-bit
Memory:	1 TB (16 x 64 GB 2Rx4 PC5-5600B-R)	Peak Pointers:	64-bit
Storage:	1 x 480 GB NVMe	Other:	jemalloc memory allocator V5.0.1
Other:	CPU Cooling: Air	Power Management:	BIOS and set to prefer performance at cost of additional power.



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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	50.1	1180	50.5	1170	50.6	1170	64	50.7	1160	50.9	1160	50.7	1160
607.cactuBSSN_s	64	36.6	456	36.9	452	36.9	451	64	36.6	456	36.9	452	36.9	451
619.lbm_s	64	20.3	258	20.4	257	20.4	256	64	20.3	258	20.4	257	20.4	256
621.wrf_s	64	54.3	243	54.5	243	54.2	244	64	54.3	243	54.5	243	54.2	244
627.cam4_s	64	41.5	214	41.9	212	41.6	213	64	41.4	214	41.4	214	41.7	213
628.pop2_s	64	124	95.9	123	96.3	123	96.4	64	124	95.9	123	96.3	123	96.4
638.imagick_s	64	20.1	718	20.2	713	20.4	707	64	20.1	718	20.2	713	20.4	707
644.nab_s	64	24.6	710	24.6	709	24.5	712	64	24.6	710	24.6	709	24.5	712
649.fotonik3d_s	64	53.0	172	52.9	172	52.8	173	64	53.0	172	52.9	172	52.8	173
654.roms_s	64	31.0	508	30.9	509	31.2	505	64	31.0	508	30.9	509	31.2	505

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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"

Environment Variables Notes

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

```
KMP_AFFINITY = "granularity=fine,compact,1,0"
LD_LIBRARY_PATH = "/home/cpu2017/lib/intel64:/home/cpu2017/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 Red Hat Enterprise Linux 8.4

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
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
```

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.

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.

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

jemalloc, a general purpose malloc implementation

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General Notes (Continued)

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 Settings:

Power Technology = Custom
ENERGY_PERF_BIAS_CFG mode = Maximum Performance
KTI Prefetch = Enable
LLC Dead Line Alloc = Disable

```
Sysinfo program /home/cpu2017/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on intelbenchmark Fri Jul 18 13:40:18 2025
```

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 (249.11-0ubuntu3.16)
12. Failed units, from systemctl list-units --state=failed
13. Services, from systemctl list-unit-files
14. Linux kernel boot-time arguments, from /proc/cmdline
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 intelbenchmark 5.15.0-143-generic #153-Ubuntu SMP Fri Jun 13 19:10:45 UTC 2025 x86_64 x86_64 x86_64
GNU/Linux

2. w
13:40:18 up 3:34, 1 user, load average: 6.36, 6.70, 3.98
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
intel ttym1 - 10:12 3:27m 0.85s 0.00s -bash

3. Username
From environment variable \$USER: intel

(Continued on next page)



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Platform Notes (Continued)

```
-----  
4. ulimit -a  
time(seconds)          unlimited  
file(blocks)           unlimited  
data(kbytes)           unlimited  
stack(kbytes)          unlimited  
coredump(blocks)       0  
memory(kbytes)         unlimited  
locked memory(kbytes)  132062912  
process                4126513  
nofiles               1024  
vmmemory(kbytes)       unlimited  
locks                 unlimited  
rtprio                0
```

```
-----  
5. sysinfo process ancestry  
/sbin/init  
/bin/login -p --  
-bash  
su  
bash  
bash  
runcpu --nobuild --action validate --define default-platform-flags -c  
  ic2024.0.2-lin-sapphirerapids-speed-20231213.cfg --define cores=64 --tune base,peak -o all --define smt-on  
  --define drop_caches fpspeed  
runcpu --nobuild --action validate --define default-platform-flags --configfile  
  ic2024.0.2-lin-sapphirerapids-speed-20231213.cfg --define cores=64 --tune base,peak --output_format all  
  --define smt-on --define drop_caches --nopower --runmode speed --tune base:peak --size refspeed fpspeed  
  --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.002/templogs/preenv.fpspeed.002.0.log --lognum 002.0  
  --from_runcpu 2  
  specperf $SPEC/bin/sysinfo  
$SPEC = /home/cpu2017
```

```
-----  
6. /proc/cpuinfo  
model name      : INTEL(R) XEON(R) PLATINUM 8562Y+  
vendor_id       : GenuineIntel  
cpu family     : 6  
model          : 207  
stepping        : 2  
microcode       : 0x210002a9  
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrss_pbrss bhi  
cpu cores       : 32  
siblings        : 64  
2 physical ids (chips)  
128 processors (hardware threads)  
physical id 0: core ids 0-31  
physical id 1: core ids 0-31  
physical id 0: apicids 0-63  
physical id 1: apicids 128-191  
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  
CPU op-mode(s):       32-bit, 64-bit
```

(Continued on next page)



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Platform Notes (Continued)

Address sizes:	46 bits physical, 57 bits virtual
Byte Order:	Little Endian
CPU(s):	128
On-line CPU(s) list:	0-127
Vendor ID:	GenuineIntel
Model name:	INTEL(R) XEON(R) PLATINUM 8562Y+
CPU family:	6
Model:	207
Thread(s) per core:	2
Core(s) per socket:	32
Socket(s):	2
Stepping:	2
BogoMIPS:	5600.00
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 xtTopology nonstop_tsc cpuid aperfmpf perf tsc_known_freq pnpi pclmulqdq dtes64 monitor ds_cpl smx est tm2 ssse3 sdbg fma cx16 xtrpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_13 cat_12 cdp_13 invpcid_single intel_ppin cdp_12 ssbd mba ibrs ibpb stibp ibrs_enhanced fsgsbase tsc_adjust bmil avx2 smep bmi2 erms invpcid cqmq rdt_a avx512f avx512dq rdseed adx smap avx512fma clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqmq_llc cqmq_occup_llc cqmq_mbm_total cqmq_mbm_local split_lock_detect avx_vnni avx512_bf16 wbnoinvd dtherm ida_arat pln pts avx512vbmi umip pkus ospkw waitpkg avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpocntdq la57 rdpid bus_lock_detect cldemote movdir64b enqcmd fsrm md_clear serialize tsxldtrk pconfig arch_lbr amx_bf16 avx512_fp16 amx_tile amx_int8 flush_l1d arch_capabilities
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):	0-31,64-95
NUMA node1 CPU(s):	32-63,96-127
Vulnerability Gather data sampling:	Not affected
Vulnerability Itlb multihit:	Not affected
Vulnerability Llftf:	Not affected
Vulnerability Mds:	Not affected
Vulnerability Meltdown:	Not affected
Vulnerability Mmio stale data:	Not affected
Vulnerability Reg file data sampling:	Not affected
Vulnerability Retbleed:	Not affected
Vulnerability Spec rstack overflow:	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 / Automatic IBRS; IBPB conditional; RSB filling; PBRSB-eIBRS SW sequence; BHI BHI_DIS_S
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

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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: 0-31,64-95
node 0 size: 515716 MB
node 0 free: 506857 MB
node 1 cpus: 32-63,96-127
node 1 size: 516025 MB
node 1 free: 515476 MB
node distances:
node    0    1
 0:   10   21
 1:   21   10
```

```
9. /proc/meminfo
MemTotal:      1056503300 kB
```

```
10. who -r
run-level 3 Jul 18 10:08
```

```
11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.16)
Default Target  Status
multi-user      degraded
```

```
12. Failed units, from systemctl list-units --state=failed
UNIT                      LOAD ACTIVE SUB   DESCRIPTION
* fwupd-refresh.service    loaded failed  Refresh fwupd metadata and update motd
* systemd-networkd-wait-online.service loaded failed  Wait for Network to be Configured
```

```
13. Services, from systemctl list-unit-files
STATE          UNIT FILES
enabled        ModemManager apparmor blk-availability cloud-config cloud-final cloud-init
                cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ gpu-manager
                grub-common grub-initrd-fallback irqbalance keyboard-setup lvm2-monitor lxd-agent
                multipathd networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db
                setvtrgb snapd ssh systemd-networkd systemd-networkd-wait-online systemd-pstore
                systemd-resolved systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw
                unattended-upgrades vgaauth
enabled-runtime netplan-ovs-cleanupsystemd-fsck-root systemd-remount-fs
disabled       console-getty debug-shell ipmievd iscsid nftables rsync serial-getty@
                systemd-boot-check-no-failures systemd-network-generator systemd-sysext
                systemd-time-wait-sync upower
generated      apport openipmi
indirect       uidd
masked         cryptdisks cryptdisks-early hwclock lvm2 multipath-tools-boot rc rcS screen-cleanup sudo
                x11-common
```

```
14. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/vmlinuz-5.15.0-143-generic
root=UUID=9aebdeef-10e6-4d72-af3-0a1b298270ed
ro
```

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Platform Notes (Continued)

```
-----  
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 Ubuntu 22.04.1 LTS
```

```
-----  
19. Disk information  
SPEC is set to: /home/cpu2017  
Filesystem      Type  Size  Used  Avail Use% Mounted on  
/dev/nvme0n1p5  ext4  380G  102G  259G  29%  /home
```

```
-----  
20. /sys/devices/virtual/dmi/id  
Vendor:      Tyrone Systems  
Product:     SDI200A3N-212  
Product Family: Family  
Serial:      A495115X4412722
```

```
-----  
21. dmidecode  
Additional information from dmidecode 3.3 follows.  WARNING: Use caution when you interpret this section.
```

(Continued on next page)



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Platform Notes (Continued)

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 NO DIMM NO DIMM
16x Samsung M321R8GA0PB0-CWMCJ 64 GB 2 rank 5600

22. BIOS

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

BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 2.6
BIOS Date: 05/15/2025
BIOS Revision: 5.32

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 2024.0.2 Build 20231213
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=====

=====

C++, C, Fortran | 607.cactuBSSN_s(base, peak)

=====

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Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2024.0.2 Build 20231213
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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 2024.0.2 Build 20231213
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=====

=====

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

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Base Compiler Invocation (Continued)

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:

-w -std=c11 -m64 -Wl,-z,muldefs -xsapphirerapids -Ofast -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fopenmp
-DSPEC_OPENMP -Wno-implicit-int -mprefer-vector-width=512
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Fortran benchmarks:

-w -m64 -Wl,-z,muldefs -DSPEC_OPENMP -xsapphirerapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fopenmp -nostandard-realloc-lhs
-align array32byte -auto -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using both Fortran and C:

-w -m64 -std=c11 -Wl,-z,muldefs -xsapphirerapids -Ofast -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fopenmp

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SPEC CPU®2017 Floating Point Speed Result

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Tyrone Systems

(Test Sponsor: Netweb Technologies India Ltd)

Tyrone Camarero SDI200A2N-224
(2.8 GHz, Intel Xeon Platinum 8562Y+)

SPECspeed®2017_fp_base = 353

SPECspeed®2017_fp_peak = 353

CPU2017 License: 006802

Test Sponsor: Netweb Technologies India Ltd

Tested by: Tyrone Systems

Test Date: Jul-2025

Hardware Availability: Jan-2024

Software Availability: Jun-2025

Base Optimization Flags (Continued)

Benchmarks using both Fortran and C (continued):

```
-DSPEC_OPENMP -Wno-implicit-int -mprefer-vector-width=512
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Benchmarks using Fortran, C, and C++:

```
-w -std=c++14 -m64 -std=c11 -Wl,-z,muldefs -xsapphirerapids -Ofast
-ffast-math -fsto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fopenmp -DSPEC_OPENMP -Wno-implicit-int
-mprefer-vector-width=512 -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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Test Date: Jul-2025

Hardware Availability: Jan-2024

Software Availability: Jun-2025

Peak Optimization Flags (Continued)

Fortran benchmarks:

```
603.bwaves_s: -w -m64 -Wl,-z,muldefs -DSPEC_OPENMP -xsapphirerapids
-Ofast -ffast-math -futto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fiopenmp -nostandard-realloc-lhs
-align array32byte -auto -L/usr/local/jemalloc64-5.0.1/lib
-ljemalloc
```

```
649.fotonik3d_s: basepeak = yes
```

```
654.roms_s: basepeak = yes
```

Benchmarks using both Fortran and C:

```
621.wrf_s: basepeak = yes
```

```
627.cam4_s: -w -m64 -std=c11 -Wl,-z,muldefs -xsapphirerapids -Ofast
-ffast-math -futto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP
-Wno-implicit-int -mprefer-vector-width=512
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

```
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/Intel-ic2024-official-linux64.html>

<http://www.spec.org/cpu2017/flags/Tyrone-Platform-Settings-V1.2-SPR-revC.html>

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

<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.xml>

<http://www.spec.org/cpu2017/flags/Tyrone-Platform-Settings-V1.2-SPR-revC.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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