



SPECaccel[®]2023 Result

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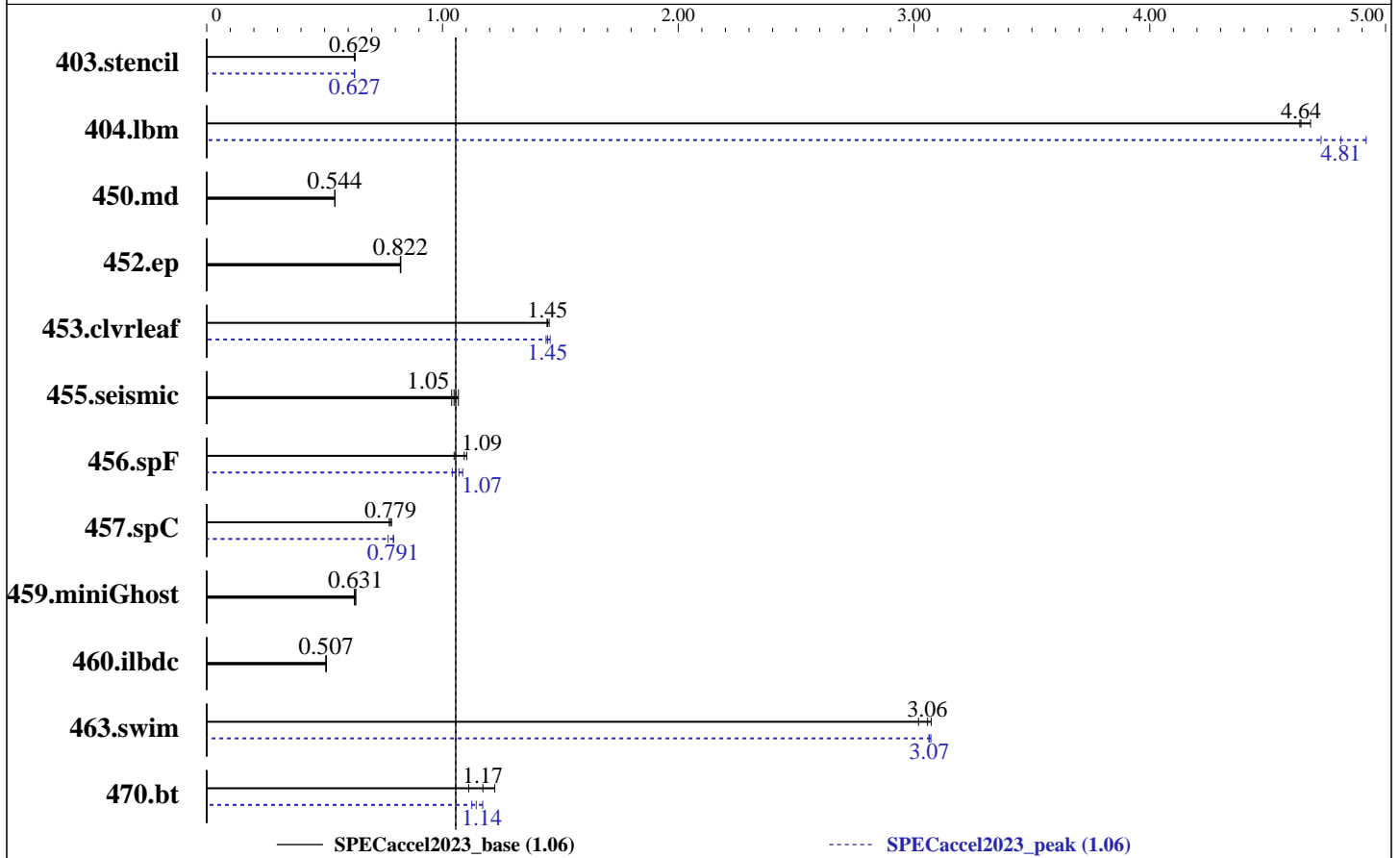
Supermicro
Intel Xeon Gold 5520+
GPU SuperServer SYS-741GE-TNRT

SPECaccel2023_base = 1.06

SPECaccel2023_peak = 1.06

accel2023 License: 6569
Test Sponsor: Supermicro
Tested by: Supermicro

Test Date: Feb-2024
Hardware Availability: Dec-2023
Software Availability: Nov-2023



Hardware

CPU Name: INTEL Xeon Gold 5520+
 Max MHz.: 4000
 Nominal: 2200
 Enabled: 56 cores, 2 chips, 2 threads/core
 Orderable: 1,2 chips
 Cache L1: 32 KB I + 48 KB D on chip per core
 L2: 2 MB I+D on chip per core
 L3: 52.5 MB I+D on chip per chip
 Other: None
 Memory: 1 TB (16 x 64 GB 2Rx4 PC5-5600B-R, running at 4800)
 Storage: 1 x 512 GB M.2 NVMe SSD
 Other: None
 Base Threads Run: 112
 Min. Peak Threads: 112
 Max. Peak Threads: 112

Accelerator

Accel Model Name: Intel Xeon Gold 5520+
 Accel Vendor: Intel
 Accel Name: Intel Xeon Gold 5520+
 Type of Accel: CPU
 Accel Connection: N/A
 Does Accel Use ECC: Yes
 Accel Description: 2 x Intel Xeon Gold 5520+
 Accel Driver: N/A



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Software

OS: SUSE Linux Enterprise Server 15 SP5
Kernel 5.14.21-150500.53-default
Compiler: C/C++/Fortran: Version 2024.0.0.20231017 of Intel oneAPI DPC++/C++
Firmware: Version 2.1 released Dec-2023
File System: xfs
System State: Run level 3 (multi-user)
Other: None
Base Parallel Model: LOP
Base Threads Run: 112
Peak Parallel Models: LOP
Max. Peak Threads: 112
Min. Peak Threads: 112

Results Table

| Benchmark | Base | | | | | | | | Peak | | | | | | | |
|---------------|-------|-------------|--------------|-------------|--------------|-------------|--------------|-------|------------|--------------|-------------|--------------|-------------|--------------|--|--|
| | Model | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Model | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | | |
| 403.stencil | LOP | 699 | 0.630 | 703 | 0.626 | 699 | 0.629 | LOP | 701 | 0.627 | 702 | 0.627 | 703 | 0.626 | | |
| 404.lbm | LOP | 98.0 | 4.64 | 97.2 | 4.68 | 98.1 | 4.64 | LOP | 96.3 | 4.73 | 92.5 | 4.92 | 94.6 | 4.81 | | |
| 450.md | LOP | 1102 | 0.544 | 1103 | 0.544 | 1105 | 0.543 | LOP | 1102 | 0.544 | 1103 | 0.544 | 1105 | 0.543 | | |
| 452.ep | LOP | 505 | 0.821 | 504 | 0.823 | 505 | 0.822 | LOP | 505 | 0.821 | 504 | 0.823 | 505 | 0.822 | | |
| 453.clvleaf | LOP | 693 | 1.44 | 688 | 1.45 | 692 | 1.45 | LOP | 695 | 1.44 | 692 | 1.45 | 687 | 1.46 | | |
| 455.seismic | LOP | 751 | 1.04 | 731 | 1.07 | 744 | 1.05 | LOP | 751 | 1.04 | 731 | 1.07 | 744 | 1.05 | | |
| 456.spF | LOP | 431 | 1.10 | 435 | 1.09 | 453 | 1.05 | LOP | 456 | 1.04 | 444 | 1.07 | 438 | 1.09 | | |
| 457.spC | LOP | 693 | 0.779 | 698 | 0.774 | 689 | 0.784 | LOP | 681 | 0.793 | 683 | 0.791 | 702 | 0.769 | | |
| 459.miniGhost | LOP | 935 | 0.631 | 933 | 0.632 | 942 | 0.626 | LOP | 935 | 0.631 | 933 | 0.632 | 942 | 0.626 | | |
| 460.ilbdc | LOP | 1098 | 0.505 | 1094 | 0.507 | 1096 | 0.507 | LOP | 1098 | 0.505 | 1094 | 0.507 | 1096 | 0.507 | | |
| 463.swim | LOP | 143 | 3.07 | 144 | 3.06 | 146 | 3.02 | LOP | 144 | 3.06 | 144 | 3.07 | 143 | 3.07 | | |
| 470.bt | LOP | 864 | 1.22 | 950 | 1.11 | 901 | 1.17 | LOP | 901 | 1.17 | 938 | 1.12 | 923 | 1.14 | | |

SPEC accel2023_base = **1.06**

SPEC accel2023_peak = **1.06**

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 runaccel before the start of the run:
FORT_BUFFERED = "true"
KMP_AFFINITY = "compact,0"
KMP_BLOCKTIME = "infinite"
KMP_HW_SUBSET = "2S,28C,2T"
KMP_LIBRARY = "turnaround"

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General Notes (Continued)

OMP_DYNAMIC = "FALSE"
OMP_NUM_THREADS = "56"
OMP_WAIT_POLICY = "active"

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, the 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.

Platform Notes

Sysinfo program /home/accel2023/bin/sysinfo
Rev: r6622 of 2021-04-07 bla7d5f8f71be5aff70a755cad7211a0
running on 135-172-248 Sat Feb 3 07:27:21 2024

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 5520+
2 "physical id"s (chips)
112 "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 : 28
siblings : 56
physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

From lscpu from util-linux 2.37.4:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 46 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 112
On-line CPU(s) list: 0-111
Vendor ID: GenuineIntel
Model name: INTEL(R) XEON(R) GOLD 5520+
CPU family: 6
Model: 207

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Platform Notes (Continued)

```

Thread(s) per core:          2
Core(s) per socket:         28
Socket(s):                   2
Stepping:                   2
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
pdpelgb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology
nonstop_tsc cpuid aperfmperf tsc_known_freq 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 cpuid_fault
epb cat_l3 cat_l2 cdp_l3 invpcid_single cdp_l2 ssbd mba ibrs ibpb stibp
ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1
hle avx2 smep bmi2 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 avx_vnni
avx512_bf16 wbnoinvd dtherm ida arat pln pts avx512vbmi umip pku ospke waitpkg
avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq
la57 rdpid bus_lock_detect cldemote movdiri movdir64b enqcmd fsrm md_clear serialize
tsxldtrk pconfig arch_lbr avx512_fp16 amx_tile flush_lld arch_capabilities
Virtualization:             VT-x
L1d cache:                  2.6 MiB (56 instances)
L1i cache:                  1.8 MiB (56 instances)
L2 cache:                   112 MiB (56 instances)
L3 cache:                   105 MiB (2 instances)
NUMA node(s):              4
NUMA node0 CPU(s):         0-13,56-69
NUMA node1 CPU(s):         14-27,70-83
NUMA node2 CPU(s):         28-41,84-97
NUMA node3 CPU(s):         42-55,98-111
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf:        Not affected
Vulnerability Mds:         Not affected
Vulnerability Meltdown:    Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Retbleed:    Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via
prctl and seccomp
Vulnerability Spectre v1:   Mitigation; usercopy/swaps barriers and __user
pointer sanitization
Vulnerability Spectre v2:   Mitigation; Enhanced IBRS, IBPB conditional, RSB
filling, PBRSE-eIBRS SW sequence
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

(Continued on next page)



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Platform Notes (Continued)

| | | | | | | | |
|-----|-------|------|---------------|---|-------|---|----|
| L1d | 48K | 2.6M | 12 Data | 1 | 64 | 1 | 64 |
| L1i | 32K | 1.8M | 8 Instruction | 1 | 64 | 1 | 64 |
| L2 | 2M | 112M | 16 Unified | 2 | 2048 | 1 | 64 |
| L3 | 52.5M | 105M | 15 Unified | 3 | 57344 | 1 | 64 |

/proc/cpuinfo cache data
cache size : 53760 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 4 5 6 7 8 9 10 11 12 13 56 57 58 59 60 61 62 63 64 65 66 67 68 69

node 0 size: 257678 MB

node 0 free: 256468 MB

node 1 cpus: 14 15 16 17 18 19 20 21 22 23 24 25 26 27 70 71 72 73 74 75 76 77 78 79 80
81 82 83

node 1 size: 258040 MB

node 1 free: 257360 MB

node 2 cpus: 28 29 30 31 32 33 34 35 36 37 38 39 40 41 84 85 86 87 88 89 90 91 92 93 94
95 96 97

node 2 size: 258040 MB

node 2 free: 257340 MB

node 3 cpus: 42 43 44 45 46 47 48 49 50 51 52 53 54 55 98 99 100 101 102 103 104 105
106 107 108 109 110 111

node 3 size: 257985 MB

node 3 free: 257448 MB

node distances:

node 0 1 2 3

0: 10 12 21 21

1: 12 10 21 21

2: 21 21 10 12

3: 21 21 12 10

From /proc/meminfo

MemTotal: 1056507444 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

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

os-release:

NAME="SLES"

VERSION="15-SP5"

VERSION_ID="15.5"

PRETTY_NAME="SUSE Linux Enterprise Server 15 SP5"

ID="sles"

ID_LIKE="suse"

ANSI_COLOR="0;32"

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Platform Notes (Continued)

CPE_NAME="cpe:/o:suse:sles:15:sp5"

uname -a:

Linux 135-172-248 5.14.21-150500.53-default #1 SMP PREEMPT_DYNAMIC Wed May 10 07:56:26 UTC 2023 (b630043) x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:

| | |
|--|---|
| CVE-2018-12207 (iTLB Multihit): | Not affected |
| CVE-2018-3620 (L1 Terminal Fault): | Not affected |
| Microarchitectural Data Sampling: | Not affected |
| CVE-2017-5754 (Meltdown): | Not affected |
| mmio_stale_data: | Not affected |
| retbleed: | Not affected |
| CVE-2018-3639 (Speculative Store Bypass): | Mitigation: Speculative Store Bypass disabled via prctl and seccomp |
| CVE-2017-5753 (Spectre variant 1): | Mitigation: usercopy/swappgs barriers and __user pointer sanitization |
| CVE-2017-5715 (Spectre variant 2): | Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling, PBRSE-eIBRS: SW sequence |
| CVE-2020-0543 (Special Register Buffer Data Sampling): | Not affected |
| CVE-2019-11135 (TSX Asynchronous Abort): | Not affected |

run-level 3 Feb 2 17:33

SPEC is set to: /home/accel2023

| Filesystem | Type | Size | Used | Avail | Use% | Mounted on |
|----------------|------|------|------|-------|------|------------|
| /dev/nvme0nlp2 | xfs | 475G | 55G | 420G | 12% | / |

From /sys/devices/virtual/dmi/id

| | |
|-----------------|------------|
| Vendor: | Supermicro |
| Product: | X13DEG-QT |
| Product Family: | Family |
| Serial: | 1234567890 |

Additional information from dmidecode 3.4 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:

| | | | |
|-----------------------------|-------|--------|--------------------------|
| 14x SK Hynix HMC94AGBRA181N | 64 GB | 2 rank | 5600, configured at 4800 |
| 2x SK Hynix HMC94AGBRA184N | 64 GB | 2 rank | 5600, configured at 4800 |

BIOS:

(Continued on next page)



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Platform Notes (Continued)

BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 2.1
BIOS Date: 12/12/2023
BIOS Revision: 5.32

(End of data from sysinfo program)

Compiler Version Notes

```
=====  
C | 403.stencil(base, peak) 404.lbm(base, peak) 452.ep(base, peak)  
 | 457.spC(base, peak) 470.bt(base, peak)  
=====
```

```
Intel(R) oneAPI DPC++/C++ Compiler 2024.0.0 (2024.0.0.20231017)  
Target: x86_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/intel/oneapi/compiler/2024.0/bin/compiler  
Configuration file: /opt/intel/oneapi/compiler/2024.0/bin/compiler/./icx.cfg  
=====
```

```
=====  
Fortran | 450.md(base, peak) 455.seismic(base, peak) 456.spF(base, peak)  
 | 460.ilbdc(base, peak) 463.swim(base, peak)  
=====
```

```
ifx (IFX) 2024.0.0 20231017  
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.  
=====
```

```
=====  
Fortran, C | 453.clvrleaf(base, peak) 459.miniGhost(base, peak)  
=====
```

```
ifx (IFX) 2024.0.0 20231017  
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.  
Intel(R) oneAPI DPC++/C++ Compiler 2024.0.0 (2024.0.0.20231017)  
Target: x86_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/intel/oneapi/compiler/2024.0/bin/compiler  
Configuration file: /opt/intel/oneapi/compiler/2024.0/bin/compiler/./icx.cfg  
=====
```

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

Base Portability Flags

450.md: -80
457.spC: -Wl,--no-relax(icx)(*) -mmodel=medium -shared-intel
-Wl,--no-relax(icx)
459.miniGhost: -nofor-main

(*) Indicates a portability flag that was found in a non-portability variable.

Base Optimization Flags

C benchmarks:
-Ofast -O3 -xsapphirerapids -mprefer-vector-width=512
-qopt-multiple-gather-scatter-by-shuffles -flto -ffast-math -fiopenmp
-qopt-dynamic-align -fvec-peel-loops -qopt-streaming-stores always
-Xclang -fopenmp-declare-target-scalar-defaultmap-firstprivate
-fimf-precision=low

Fortran benchmarks:
-Ofast -O3 -xsapphirerapids -mprefer-vector-width=512
-qopt-multiple-gather-scatter-by-shuffles -flto -ffast-math -fiopenmp
-qopt-dynamic-align -fvec-peel-loops -qopt-streaming-stores always
-nostandard-realloc-lhs -align array32byte -auto
-fimf-accuracy-bits-sqrt=14 -fimf-precision=low

Benchmarks using both Fortran and C:
-Ofast -O3 -xsapphirerapids -mprefer-vector-width=512
-qopt-multiple-gather-scatter-by-shuffles -flto -ffast-math -fiopenmp
-qopt-dynamic-align -fvec-peel-loops -qopt-streaming-stores always
-Xclang -fopenmp-declare-target-scalar-defaultmap-firstprivate
-fimf-precision=low -nostandard-realloc-lhs -align array32byte -auto
-fimf-accuracy-bits-sqrt=14



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Peak Compiler Invocation

C benchmarks:

icx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

Peak Portability Flags

450.md: -80
457.spC: -Wl,--no-relax(icx)(*) -mmodel=medium -shared-intel
-Wl,--no-relax(icx)
459.miniGhost: -nofor-main

(*) Indicates a portability flag that was found in a non-portability variable.

Peak Optimization Flags

C benchmarks:

403.stencil: -Ofast -O3 -xsapphirerapids -mprefer-vector-width=512
-qopt-multiple-gather-scatter-by-shuffles -flto -ffast-math
-fopenmp -qopt-dynamic-align -fvec-peel-loops
-qopt-streaming-stores always -Xclang
-fopenmp-declare-target-scalar-defaultmap-firstprivate
-fimf-precision=low

404.lbm: Same as 403.stencil

452.ep: basepeak = yes

457.spC: Same as 403.stencil

470.bt: Same as 403.stencil

Fortran benchmarks:

450.md: basepeak = yes

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Peak Optimization Flags (Continued)

455.seismic: basepeak = yes

456.spF: -Ofast -O3 -xsapphirerapids -mprefer-vector-width=512
-qopt-multiple-gather-scatter-by-shuffles -flto -ffast-math
-fiopenmp -qopt-dynamic-align -fvec-peel-loops
-qopt-streaming-stores always -nostandard-realloc-lhs
-align array32byte -auto -fimf-accuracy-bits-sqrt=14
-fimf-precision=low

460.ilbdc: basepeak = yes

463.swim: Same as 456.spF

Benchmarks using both Fortran and C:

453.cvrleaf: -Ofast -O3 -xsapphirerapids -mprefer-vector-width=512
-qopt-multiple-gather-scatter-by-shuffles -flto -ffast-math
-fiopenmp -qopt-dynamic-align -fvec-peel-loops
-qopt-streaming-stores always -Xclang
-fopenmp-declare-target-scalar-defaultmap-firstprivate
-fimf-precision=low -nostandard-realloc-lhs
-align array32byte -auto -fimf-accuracy-bits-sqrt=14

459.miniGhost: basepeak = yes

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

http://www.spec.org/accel2023/flags/Intel_compiler_flags.2024-03-06.html
<http://www.spec.org/accel2023/flags/Supermicro-Platform-Settings-V1.2-SPR-revG.html>

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

http://www.spec.org/accel2023/flags/Intel_compiler_flags.2024-03-06.xml
<http://www.spec.org/accel2023/flags/Supermicro-Platform-Settings-V1.2-SPR-revG.xml>

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

Tested with SPECaccel2023 v2.0.17 on 2024-02-02 18:27:21-0500.
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