



SPECaccel[®]2023 Result

Copyright 2023-2024 Standard Performance Evaluation Corporation

Supermicro
Intel Xeon Platinum 8592+
GPU SuperServer SYS-741GE-TNRT

SPECaccel2023_base = 1.41
SPECaccel2023_peak = 1.41

accel2023 License: 6569

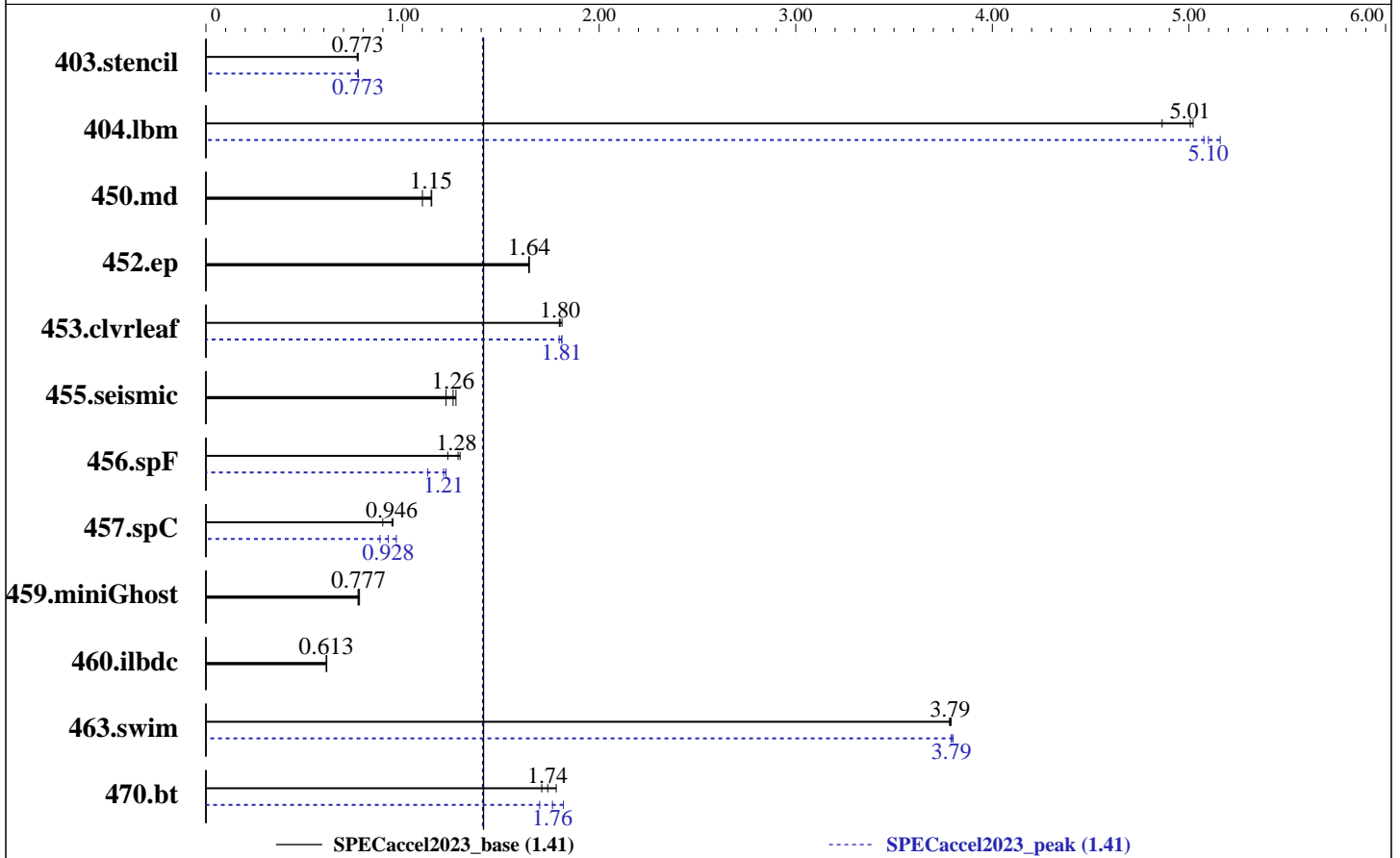
Test Sponsor: Supermicro

Tested by: Supermicro

Test Date: Feb-2024

Hardware Availability: Dec-2023

Software Availability: Nov-2023



Hardware

CPU Name: INTEL Xeon Platinum 8592+
 Max MHz.: 3900
 Nominal: 1900
 Enabled: 128 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: 320 MB I+D on chip per chip
 Other: None
 Memory: 1 TB (16 x 64 GB 2Rx4 PC5-5600B-R)
 Storage: 1 x 512 GB M.2 NVMe SSD
 Other: None
 Base Threads Run: 256
 Min. Peak Threads: 256
 Max. Peak Threads: 256

Accelerator

Accel Model Name: Intel Xeon Platinum 8592+
 Accel Vendor: Intel
 Accel Name: Intel Xeon Platinum 8592+
 Type of Accel: CPU
 Accel Connection: N/A
 Does Accel Use ECC: Yes
 Accel Description: 2 x Intel Xeon Platinum 8592+
 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: 256
Peak Parallel Models: LOP
Max. Peak Threads: 256
Min. Peak Threads: 256

Results Table

Benchmark	Base							Peak						
	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
403.stencil	LOP	569	0.774	572	0.769	569	0.773	LOP	567	0.776	570	0.772	569	0.773
404.lbm	LOP	93.6	4.86	90.9	5.01	90.6	5.02	LOP	89.2	5.10	89.6	5.08	88.2	5.16
450.md	LOP	524	1.15	522	1.15	545	1.10	LOP	524	1.15	522	1.15	545	1.10
452.ep	LOP	252	1.64	253	1.64	252	1.64	LOP	252	1.64	253	1.64	252	1.64
453.clvrlleaf	LOP	552	1.81	556	1.80	555	1.80	LOP	553	1.81	557	1.80	552	1.81
455.seismic	LOP	639	1.22	620	1.26	613	1.27	LOP	639	1.22	620	1.26	613	1.27
456.spF	LOP	386	1.23	367	1.29	370	1.28	LOP	393	1.21	421	1.13	389	1.22
457.spC	LOP	600	0.900	568	0.951	571	0.946	LOP	610	0.885	558	0.969	582	0.928
459.miniGhost	LOP	760	0.777	755	0.781	763	0.774	LOP	760	0.777	755	0.781	763	0.774
460.ilbdc	LOP	905	0.613	903	0.615	907	0.612	LOP	905	0.613	903	0.615	907	0.612
463.swim	LOP	116	3.79	116	3.78	116	3.79	LOP	116	3.79	116	3.80	116	3.79
470.bt	LOP	592	1.78	618	1.71	607	1.74	LOP	580	1.82	622	1.70	599	1.76

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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"

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,64C,2T"
KMP_LIBRARY = "turnaround"

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General Notes (Continued)

OMP_DYNAMIC = "FALSE"
OMP_NUM_THREADS = "128"
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 Fri Feb 9 02:56:27 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) PLATINUM 8592+
2 "physical id"s (chips)
256 "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 : 64
siblings : 128
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 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
53 54 55 56 57 58 59 60 61 62 63
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 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
53 54 55 56 57 58 59 60 61 62 63

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): 256
On-line CPU(s) list: 0-255
Vendor ID: GenuineIntel
Model name: INTEL(R) XEON(R) PLATINUM 8592+

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Platform Notes (Continued)

```

CPU family:                6
Model:                     207
Thread(s) per core:       2
Core(s) per socket:       64
Socket(s):                 2
Stepping:                 2
BogoMIPS:                 3800.00
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 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
xsaves 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:                6 MiB (128 instances)
L1i cache:                4 MiB (128 instances)
L2 cache:                 256 MiB (128 instances)
L3 cache:                 640 MiB (2 instances)
NUMA node(s):             4
NUMA node0 CPU(s):        0-31,128-159
NUMA node1 CPU(s):        32-63,160-191
NUMA node2 CPU(s):        64-95,192-223
NUMA node3 CPU(s):        96-127,224-255
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/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2:  Mitigation; Enhanced IBRS, IBPB conditional, RSB filling, PBR SB-eIBRS SW sequence
Vulnerability Srbds:      Not affected
Vulnerability Tsx async abort: Not affected

```

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Platform Notes (Continued)

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	6M	12	Data	1	64	1	64
L1i	32K	4M	8	Instruction	1	64	1	64
L2	2M	256M	16	Unified	2	2048	1	64
L3	320M	640M	20	Unified	3	262144	1	64

/proc/cpuinfo cache data
cache size : 327680 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 14 15 16 17 18 19 20 21 22 23 24 25 26 27
28 29 30 31 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146
147 148 149 150 151 152 153 154 155 156 157 158 159

node 0 size: 257669 MB

node 0 free: 256517 MB

node 1 cpus: 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56
57 58 59 60 61 62 63 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175
176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191

node 1 size: 258031 MB

node 1 free: 256275 MB

node 2 cpus: 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88
89 90 91 92 93 94 95 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207
208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223

node 2 size: 258031 MB

node 2 free: 257228 MB

node 3 cpus: 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114
115 116 117 118 119 120 121 122 123 124 125 126 127 224 225 226 227 228 229 230 231 232
233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254
255

node 3 size: 257922 MB

node 3 free: 257289 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: 1056415792 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

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

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Platform Notes (Continued)

```
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"
  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/swaps 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 8 16:23
```

```
SPEC is set to: /home/accel2023
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p2 xfs 475G 55G 420G 12% /
```

```
From /sys/devices/virtual/dmi/id
Vendor: Supermicro
Product: SYS-741GE-TNRT
Product Family: Family
Serial: 1234567890
```

Additional information from dmidecode 3.4 follows. WARNING: Use caution when you

(Continued on next page)



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Platform Notes (Continued)

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
2x SK Hynix HMC94AGBRA184N 64 GB 2 rank 5600

BIOS:

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  
-----
```

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Compiler Version Notes (Continued)

Base Compiler Invocation

C benchmarks:

icx

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

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C (continued):

```
-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
```

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)(*) -mcmmodel=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  
-fiopenmp -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

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Peak Optimization Flags (Continued)

452.ep: basepeak = yes

457.spC: Same as 403.stencil

470.bt: Same as 403.stencil

Fortran benchmarks:

450.md: basepeak = yes

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

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

<http://www.spec.org/accel2023/flags/Supermicro-Platform-Settings-V1.2-SPR-revG.xml>
http://www.spec.org/accel2023/flags/Intel_compiler_flags.2024-03-06.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 2024-02-08 13:56:27-0500.
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