



SPECaccel[®]2023 Result

Copyright 2023-2025 Standard Performance Evaluation Corporation

Lenovo
Intel Xeon 6788P
SR860 V4(4x Xeon 6788P)

SPECaccel2023_base = 2.11

SPECaccel2023_peak = 2.11

accel2023 License: 9017

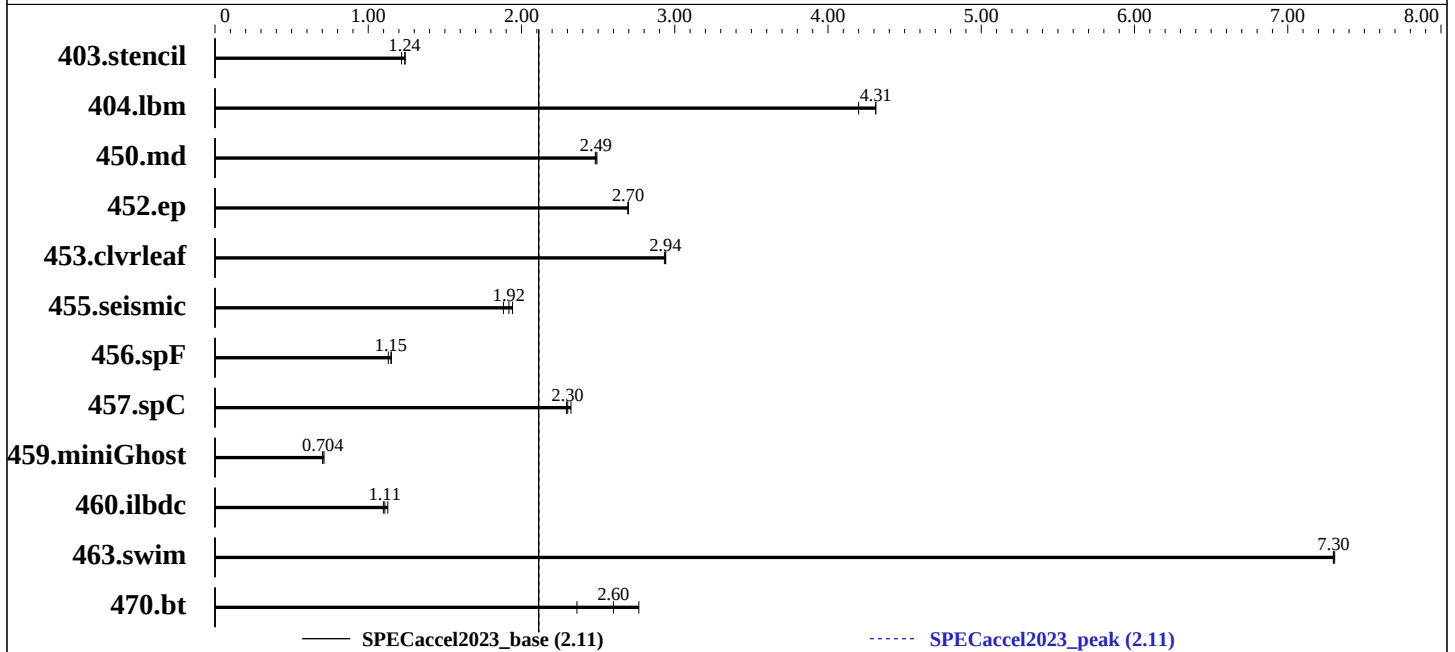
Test Sponsor: Lenovo

Tested by: Lenovo

Test Date: Sep-2025

Hardware Availability: Sep-2025

Software Availability: Jun-2025



Hardware

CPU Name: Intel Xeon 6788P
Max MHz.: 3800
Nominal: 2000
Enabled: 344 cores, 4 chips
Orderable: 4 chips
Cache L1: 64 KB I + 48 KB D on chip per core
L2: 2 MB I+D on chip per core
L3: 336 MB I+D on chip per chip
Other: None
Memory: 1 TB (16 x 64 GB 2Rx4 PC5-6400B-R)
Storage: 1.92 TB
Other: None
Base Threads Run: 344
Min. Peak Threads: 344
Max. Peak Threads: 344

Accelerator

Accel Model Name: Intel Xeon 6788P
Accel Vendor: Lenovo
Accel Name: Intel Xeon 6788P
Type of Accel: CPU
Accel Connection: UPI
Does Accel Use ECC: yes
Accel Description: Intel Xeon 6788P
SMT OFF, Turbo ON
Accel Driver: None

Software

OS: Ubuntu 24.04.2 LTS
6.8.0-79-generic
Compiler: Intel oneAPI Compiler 2025.2.1
Firmware: RVE103X-1.10
File System: ext4
System State: Run level 5
Other: None
Base Parallel Model: SMD
Base Threads Run: 344
Peak Parallel Models: SMD

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Software (Continued)

Max. Peak Threads: 344
Min. Peak Threads: 344

Results Table

Benchmark	Base								Peak							
	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
403.stencil	SMD	<u>355</u>	<u>1.24</u>	361	1.22	355	1.24	SMD	<u>355</u>	<u>1.24</u>	361	1.22	355	1.24	361	1.24
404.lbm	SMD	<u>106</u>	<u>4.31</u>	106	4.31	108	4.20	SMD	<u>106</u>	<u>4.31</u>	106	4.31	108	4.20	108	4.20
450.md	SMD	241	2.49	242	2.48	<u>241</u>	<u>2.49</u>	SMD	241	2.49	242	2.48	<u>241</u>	<u>2.49</u>	<u>241</u>	<u>2.49</u>
452.ep	SMD	<u>154</u>	<u>2.70</u>	154	2.69	154	2.70	SMD	<u>154</u>	<u>2.70</u>	154	2.69	154	2.70	154	2.70
453.clvleaf	SMD	<u>340</u>	<u>2.94</u>	341	2.93	340	2.94	SMD	<u>340</u>	<u>2.94</u>	341	2.93	340	2.94	340	2.94
455.seismic	SMD	414	1.88	<u>407</u>	<u>1.92</u>	402	1.94	SMD	414	1.88	<u>407</u>	<u>1.92</u>	402	1.94	402	1.94
456.spF	SMD	413	1.15	<u>414</u>	<u>1.15</u>	420	1.13	SMD	413	1.15	<u>414</u>	<u>1.15</u>	420	1.13	420	1.13
457.spC	SMD	<u>235</u>	<u>2.30</u>	236	2.29	232	2.32	SMD	<u>235</u>	<u>2.30</u>	236	2.29	232	2.32	232	2.32
459.miniGhost	SMD	829	0.712	841	0.701	<u>838</u>	<u>0.704</u>	SMD	829	0.712	841	0.701	<u>838</u>	<u>0.704</u>	<u>838</u>	<u>0.704</u>
460.ilbdc	SMD	505	1.10	<u>501</u>	<u>1.11</u>	492	1.13	SMD	505	1.10	<u>501</u>	<u>1.11</u>	492	1.13	492	1.13
463.swim	SMD	<u>60.3</u>	<u>7.30</u>	60.2	7.31	60.3	7.30	SMD	<u>60.3</u>	<u>7.30</u>	60.2	7.31	60.3	7.30	60.3	7.30
470.bt	SMD	381	2.77	447	2.36	<u>406</u>	<u>2.60</u>	SMD	381	2.77	447	2.36	<u>406</u>	<u>2.60</u>	<u>406</u>	<u>2.60</u>

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

General Notes

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

FORT_BUFFERED = "true"
KMP_AFFINITY = "compact,0,granularity=thread"
KMP_BLOCKTIME = "infinite"
KMP_HW_SUBSET = "4S,86C,1T"
KMP_LIBRARY = "turnaround"
KMP_STACKSIZE = "8M"
OMP_DYNAMIC = "FALSE"
OMP_WAIT_POLICY = "active"

Platform Notes

Sysinfo program /root/ACCEL2018/bin/sysinfo
Rev: r6622 of 2021-04-07 b1a7d5f8f71be5aff70a755cad7211a0
running on androsnet1 Tue Sep 30 17:26:46 2025

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>

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Platform Notes (Continued)

From /proc/cpuinfo

model name : Intel(R) Xeon(R) 6788P

4 "physical id"s (chips)

344 "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 : 86

siblings : 86

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 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 96 97 98 99 100
101 102 103 104 105 106

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 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 96 97 98 99 100
101 102 103 104 105 106

physical 2: 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 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 96 97 98 99 100
101 102 103 104 105 106

physical 3: 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 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 96 97 98 99 100
101 102 103 104 105 106

From lscpu from util-linux 2.39.3:

Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 52 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 344
On-line CPU(s) list: 0-343
Vendor ID: GenuineIntel
BIOS Vendor ID: Intel(R) Corporation
Model name: Intel(R) Xeon(R) 6788P
BIOS Model name: Intel(R) Xeon(R) 6788P UNKNOWN CPU @ 2.0GHz
BIOS CPU family: 179
CPU family: 6
Model: 173
Thread(s) per core: 1
Core(s) per socket: 86
Socket(s): 4
Stepping: 1
BogoMIPS: 4000.00
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

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Platform Notes (Continued)

nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl 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 intel_ppin cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced
fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid 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 user_shstk 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 amx_bf16
avx512_fp16 amx_tile amx_int8 flush_l1d arch_capabilities

L1d cache: 16.1 MiB (344 instances)

L1i cache: 21.5 MiB (344 instances)

L2 cache: 688 MiB (344 instances)

L3 cache: 1.3 GiB (4 instances)

NUMA node(s): 4

NUMA node0 CPU(s): 0-85

NUMA node1 CPU(s): 86-171

NUMA node2 CPU(s): 172-257

NUMA node3 CPU(s): 258-343

Vulnerability Gather data sampling: Not affected

Vulnerability Itlb multihit: Not affected

Vulnerability L1tf: 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

Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization

Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling; PBRSE-eIBRS Not affected; 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	16.1M	12	Data	1	64	1	64
L1i	64K	21.5M	16	Instruction	1	64	1	64
L2	2M	688M	16	Unified	2	2048	1	64
L3	336M	1.3G	16	Unified	3	344064	1	64

/proc/cpuinfo cache data

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Platform Notes (Continued)

cache size : 344064 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 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 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85

node 0 size: 257511 MB

node 0 free: 254568 MB

node 1 cpus: 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107
108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129
130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151
152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171

node 1 size: 258018 MB

node 1 free: 255566 MB

node 2 cpus: 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189
190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211
212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233
234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255
256 257

node 2 size: 258018 MB

node 2 free: 255295 MB

node 3 cpus: 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275
276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297
298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319
320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341
342 343

node 3 size: 257998 MB

node 3 free: 256122 MB

node distances:

node	0	1	2	3
0:	10	21	21	21
1:	21	10	21	21
2:	21	21	10	21
3:	21	21	21	10

From /proc/meminfo

MemTotal: 1056304904 kB

HugePages_Total: 1024

Hugepagesize: 2048 kB

/sbin/tuned-adm active

Current active profile: throughput-performance

/usr/bin/lsb_release -d

Ubuntu 24.04.2 LTS

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Platform Notes (Continued)

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

debian_version: trixie/sid

os-release:

PRETTY_NAME="Ubuntu 24.04.2 LTS"

NAME="Ubuntu"

VERSION_ID="24.04"

VERSION="24.04.2 LTS (Noble Numbat)"

VERSION_CODENAME=noble

ID=ubuntu

ID_LIKE=debian

HOME_URL="https://www.ubuntu.com/"

uname -a:

Linux androsnet1 6.8.0-79-generic #79-Ubuntu SMP PREEMPT_DYNAMIC Tue Aug 12 14:42:46
UTC 2025 x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:

gather_data_sampling:

Not affected

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

reg_file_data_sampling:

Not affected

retbleed:

Not affected

spec_rstack_overflow:

Not affected

CVE-2018-3639 (Speculative Store Bypass):

Mitigation: Speculative Store
Bypass disabled via prctl

CVE-2017-5753 (Spectre variant 1):

Mitigation: usercopy/swapgs
barriers and __user pointer
sanitization

CVE-2017-5715 (Spectre variant 2):

Mitigation: Enhanced / Automatic
IBRS; IBPB: conditional; RSB
filling; PBRSE-eIBRS: Not
affected; BHI: BHI_DIS_S

CVE-2020-0543 (Special Register Buffer Data Sampling):

Not affected

CVE-2019-11135 (TSX Asynchronous Abort):

Not affected

run-level 5 Sep 17 06:19

SPEC is set to: /root/ACCEL2018

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/ubuntu--vg-ubuntu--lv	ext4	98G	35G	59G	38%	/

From /sys/devices/virtual/dmi/id

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Platform Notes (Continued)

Vendor: Lenovo
Product: ThinkSystem SR850/SR860 V4
Product Family: ThinkSystem
Serial: 1234567890

Additional information from dmidecode 3.5 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:

11x SK Hynix HMC88AHB8A284N 32 GB 2 rank 6400
2x SK Hynix HMC88AHB8A286N 32 GB 2 rank 6400
6x SK Hynix HMC88AHB8A290N 32 GB 2 rank 6400
13x SK Hynix HMC88AHB8A292N 32 GB 2 rank 6400

BIOS:

BIOS Vendor: Lenovo
BIOS Version: RVE101R-0.10
BIOS Date: 03/27/2025
BIOS Revision: 0.10
Firmware Revision: 1.16

(End of data from sysinfo program)

Compiler Version Notes

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

```
Intel(R) oneAPI DPC++/C++ Compiler 2025.2.1 (2025.2.0.20250806)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/intel/oneapi/compiler/2025.2/bin/compiler
Configuration file: /opt/intel/oneapi/compiler/2025.2/bin/compiler/./icx.cfg
-----
```

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

```
ifx (IFX) 2025.2.1 20250806
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.
-----
=====
```

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Compiler Version Notes (Continued)

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

ifx (IFX) 2025.2.1 20250806
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.
Intel(R) oneAPI DPC++/C++ Compiler 2025.2.1 (2025.2.0.20250806)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/intel/oneapi/compiler/2025.2/bin/compiler
Configuration file: /opt/intel/oneapi/compiler/2025.2/bin/compiler/./icx.cfg

Base Compiler Invocation

C benchmarks:
icx

Fortran benchmarks:
ifx

Benchmarks using both Fortran and C:
ifx icx

Base Portability Flags

450.md: -80
459.miniGhost: -nofor-main

Base Optimization Flags

C benchmarks:
-Ofast -O3 -xCORE-AVX512 -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 -mcmodel=medium

Fortran benchmarks:
-Ofast -O3 -xCORE-AVX512 -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

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Base Optimization Flags (Continued)

Fortran benchmarks (continued):

-fimf-accuracy-bits-sqrt=14 -fimf-precision=low

Benchmarks using both Fortran and C:

-Ofast -O3 -xCORE-AVX512 -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 -mcmmodel=medium -nostandard-realloc-lhs
-align array32byte -auto -fimf-accuracy-bits-sqrt=14

Peak Optimization Flags

C benchmarks:

403.stencil: basepeak = yes

404.lbm: basepeak = yes

452.ep: basepeak = yes

457.spC: basepeak = yes

470.bt: basepeak = yes

Fortran benchmarks:

450.md: basepeak = yes

455.seismic: basepeak = yes

456.spF: basepeak = yes

460.ilbdc: basepeak = yes

463.swim: basepeak = yes

Benchmarks using both Fortran and C:

453.clvleaf: basepeak = yes

459.miniGhost: basepeak = yes



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The flags file that was used to format this result can be browsed at
http://www.spec.org/accel2023/flags/Intel_compiler_flags.2024-02-14.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/accel2023/flags/Intel_compiler_flags.2024-02-14.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 v2.0.18 on 2025-09-30 13:26:46-0400.
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