



SPECaccel[®]2023 Result

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3SCORE

(Test Sponsor: Telecommunications Technology Association)

NVIDIA H100 NVL 94GB

FrightPro SR800 S4

SPECaccel2023_base = 4.77

SPECaccel2023_peak = Not Run

accel2023 License: 068A

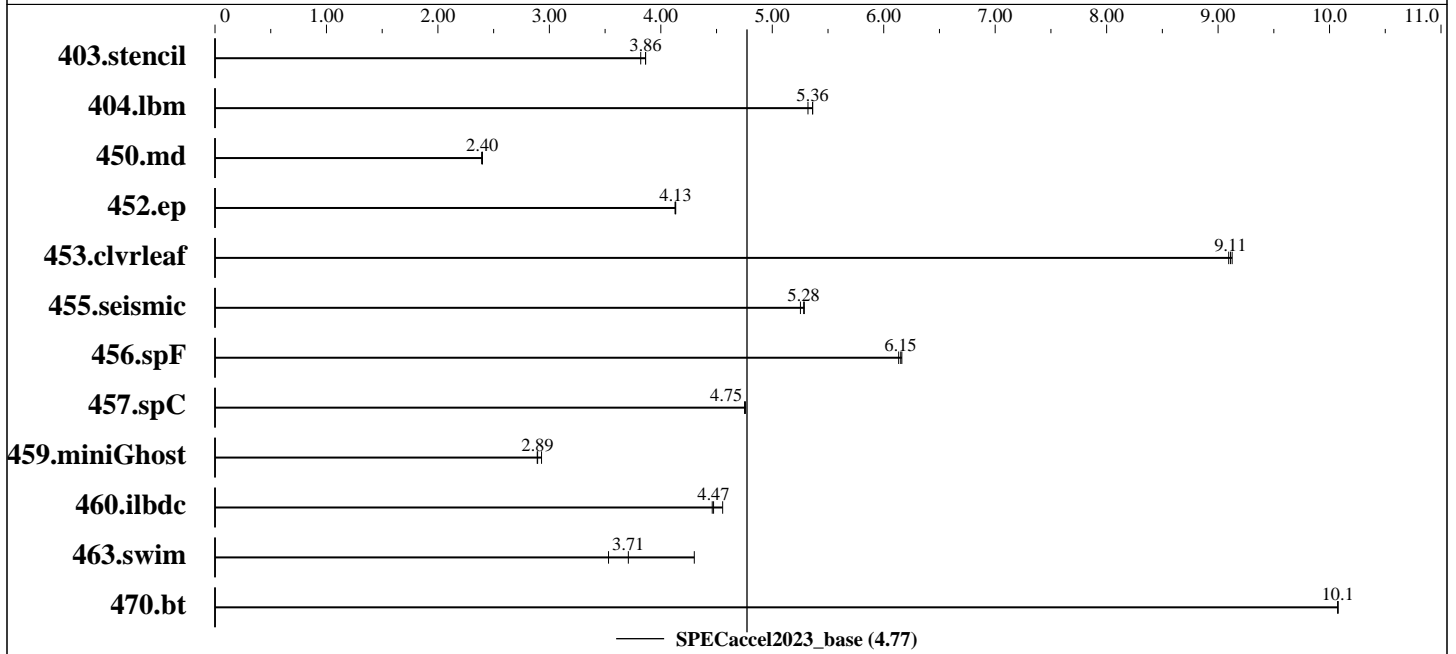
Test Sponsor: Telecommunications Technology Association

Tested by: Telecommunications Technology Association

Test Date: Sep-2025

Hardware Availability: Sep-2025

Software Availability: Sep-2025



Hardware

CPU Name: INTEL XEON PLATINUM 8558
 Max MHz.: 4000
 Nominal: 2100
 Enabled: 96 cores, 2 chips, 2 threads/core
 Orderable: 2 chips
 Cache L1: 32 KB I + 48 KB D on chip per core
 L2: 2 MB I+D on chip per core
 L3: 260 MB I+D on chip per chip
 Other: None
 Memory: 1024 GB (16 x 64 GB DDR5, 4800 MT/s, ECC)
 Storage: 1.92TB NVMe SSD
 Other: None
 Base Threads Run: 1
 Min. Peak Threads: --
 Max. Peak Threads: --

Accelerator

Accel Model Name: H100 NVL 94GB
 Accel Vendor: NVIDIA Corporation
 Accel Name: NVIDIA H100 NVL 94GB
 Type of Accel: GPU
 Accel Connection: PCIe Gen5
 Does Accel Use ECC: Yes
 Accel Description: NVIDIA H100 NVL 94GB HBM3 device memory
 Accel Driver: 580.82.07

Software

OS: Rocky Linux release 9.6 (Blue Onyx)
 5.14.0-570.17.1.el9_6.x86_64
 Compiler: C/Fortran: Version 25.7 NVHPC SDK
 Firmware: American Megatrends Inc. 2803 04/08/2025
 File System: xfs
 System State: Run level 3 (multi-user)
 Other: None
 Base Parallel Model: ACC
 Base Threads Run: 1
 Peak Parallel Models: Not Run

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Software (Continued)

Max. Peak Threads: --

Min. Peak Threads: --

Results Table

Benchmark	Base								Peak							
	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
403.stencil	ACC	115	3.82	114	3.86	<u>114</u>	<u>3.86</u>									
404.lbm	ACC	85.5	5.32	<u>84.9</u>	<u>5.36</u>	84.9	5.36									
450.md	ACC	250	2.40	<u>250</u>	<u>2.40</u>	251	2.39									
452.ep	ACC	101	4.13	<u>100</u>	<u>4.13</u>	100	4.13									
453.clvrlf	ACC	110	9.13	110	9.10	<u>110</u>	<u>9.11</u>									
455.seismic	ACC	148	5.25	148	5.29	<u>148</u>	<u>5.28</u>									
456.spF	ACC	77.1	6.16	77.4	6.13	<u>77.2</u>	<u>6.15</u>									
457.spC	ACC	<u>114</u>	<u>4.75</u>	114	4.75	113	4.76									
459.miniGhost	ACC	201	2.93	204	2.89	<u>204</u>	<u>2.89</u>									
460.ilbdc	ACC	122	4.55	124	4.46	<u>124</u>	<u>4.47</u>									
463.swim	ACC	<u>119</u>	<u>3.71</u>	125	3.53	102	4.30									
470.bt	ACC	105	10.1	105	10.1	<u>105</u>	<u>10.1</u>									

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

Platform Notes

```

Sysinfo program /home/spec/accel2023/bin/sysinfo
Rev: r6622 of 2021-04-07 bla7d5f8f71be5aff70a755cad7211a0
running on Client-1 Fri Sep 19 17:05:38 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>

```

From /proc/cpuinfo
model name : INTEL(R) XEON(R) PLATINUM 8558
 2 "physical id"s (chips)
192 "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 : 48
siblings : 96
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
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

```

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Platform Notes (Continued)

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):                       192
On-line CPU(s) list:         0-191
Vendor ID:                    GenuineIntel
Model name:                   INTEL(R) XEON(R) PLATINUM 8558
CPU family:                   6
Model:                        207
Thread(s) per core:          2
Core(s) per socket:          48
Socket(s):                    2
Stepping:                     2
CPU(s) scaling MHz:          25%
CPU max MHz:                  4000.0000
CPU min MHz:                  800.0000
BogoMIPS:                     4200.00
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 intel_ppin cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced
tpr_shadow flexpriority ept vpid ept_ad 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 avx_vnni avx512_bf16
wbnoinvd dtherm ida arat pln pts hwp hwp_act_window hwp_epp hwp_pkg_req vnmi
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 ibt amx_bf16
avx512_fp16 amx_tile amx_int8 flush_l1d arch_capabilities
Virtualization:               VT-x
L1d cache:                    4.5 MiB (96 instances)
L1i cache:                    3 MiB (96 instances)
L2 cache:                     192 MiB (96 instances)
L3 cache:                     520 MiB (2 instances)
NUMA node(s):                 4
NUMA node0 CPU(s):           0-23,96-119
NUMA node1 CPU(s):           24-47,120-143
NUMA node2 CPU(s):           48-71,144-167
NUMA node3 CPU(s):           72-95,168-191
Vulnerability Gather data sampling: Not affected

```

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Platform Notes (Continued)

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 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	4.5M	12	Data	1	64	1	64
L1i	32K	3M	8	Instruction	1	64	1	64
L2	2M	192M	16	Unified	2	2048	1	64
L3	260M	520M	20	Unified	3	212992	1	64

/proc/cpuinfo cache data
cache size : 266240 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 96 97 98 99
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119

node 0 size: 257156 MB

node 0 free: 253926 MB

node 1 cpus: 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141
142 143

node 1 size: 258035 MB

node 1 free: 255879 MB

node 2 cpus: 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71
144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165
166 167

node 2 size: 258035 MB

node 2 free: 254200 MB

node 3 cpus: 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95
168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189
190 191

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Platform Notes (Continued)

```

node 3 size: 257974 MB
node 3 free: 240794 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:      1055951048 kB
HugePages_Total:      0
Hugepagesize:      2048 kB

```

/sys/devices/system/cpu/cpu*/cpufreq/scaling_governor has performance

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

```

os-release:
NAME="Rocky Linux"
VERSION="9.6 (Blue Onyx)"
ID="rocky"
ID_LIKE="rhel centos fedora"
VERSION_ID="9.6"
PLATFORM_ID="platform:el9"
PRETTY_NAME="Rocky Linux 9.6 (Blue Onyx)"
ANSI_COLOR="0;32"
redhat-release: Rocky Linux release 9.6 (Blue Onyx)
rocky-release: Rocky Linux release 9.6 (Blue Onyx)
rocky-release-upstream: Derived from Red Hat Enterprise Linux 9.6
system-release: Rocky Linux release 9.6 (Blue Onyx)
system-release-cpe: cpe:/o:rocky:rocky:9::baseos

```

uname -a:

```

Linux Client-1 5.14.0-570.17.1.el9_6.x86_64 #1 SMP PREEMPT_DYNAMIC Fri May 23 22:47:01
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

```

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Platform Notes (Continued)

```

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/swaps
barriers and __user pointer
sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Enhanced / Automatic
IBRS; IBPB: conditional; RSB
filling; PBR SB-eIBRS: SW sequence;
BHI: BHI_DIS_S
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

```

run-level 3 Sep 12 13:20

SPEC is set to: /home/spec/accel2023

```

Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/mapper/rl-home xfs   1.7T   19G  1.7T   2% /home

```

From /sys/devices/virtual/dmi/id

```

Vendor:      ASUSTeK COMPUTER INC.
Product:     ESC8000-E11
Product Family: Server

```

```

Cannot run dmidecode; consider saying (as root)
chmod +s /usr/sbin/dmidecode

```

BIOS:

```

BIOS Vendor:   American Megatrends Inc.
BIOS Version:  2803
BIOS Date:     04/08/2025

```

(End of data from sysinfo program)

Compiler Version Notes

```

=====
C | 457.spC(base)
=====

```

```

/usr/bin/ld: /usr/lib64/crt1.o: in function `_start':
(.text+0x1b): undefined reference to `main'
pgacclnk: child process exit status 1: /usr/bin/ld
nvc 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
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=====

```

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Compiler Version Notes (Continued)

=====
C | 403.stencil(base) 404.lbm(base) 452.ep(base) 470.bt(base)
=====

nvc 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
NVIDIA Compilers and Tools
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=====

=====
C | 457.spC(base)
=====

/usr/bin/ld: /usr/lib64/crt1.o: in function `_start':
(.text+0x1b): undefined reference to `main'
pgacclnk: child process exit status 1: /usr/bin/ld
nvc 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
NVIDIA Compilers and Tools
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=====

=====
C | 403.stencil(base) 404.lbm(base) 452.ep(base) 470.bt(base)
=====

nvc 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
NVIDIA Compilers and Tools
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=====

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

nvfortran 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
NVIDIA Compilers and Tools
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=====

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

nvfortran 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
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nvc 25.7-0 64-bit target on x86-64 Linux -tp sapphirerapids
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=====



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Base Compiler Invocation

C benchmarks:

nvc

Fortran benchmarks:

nvfortran

Benchmarks using both Fortran and C:

nvfortran nvc

Base Portability Flags

457.spC: -mcmmodel=medium -Wl,--no-relax

Base Optimization Flags

C benchmarks:

-O3 -acc -Mfprelaxed -Mstack_arrays

Fortran benchmarks:

-O3 -acc -Mfprelaxed -Mstack_arrays

Benchmarks using both Fortran and C:

453.clvleaf: -O3 -acc -Mfprelaxed -Mstack_arrays

459.miniGhost: -Mnomain -O3 -acc -Mfprelaxed -Mstack_arrays

The flags file that was used to format this result can be browsed at

http://www.spec.org/accel2023/flags/nv2021_flags_v1.0.3.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/accel2023/flags/nv2021_flags_v1.0.3.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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