



SPECaccel[®]2023 Result

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(Test Sponsor: Telecommunications Technology Association)

NVIDIA H100 NVL 94GB

CoreRidge KR587S4

SPECaccel2023_base = 5.20

SPECaccel2023_peak = Not Run

accel2023 License: 068A

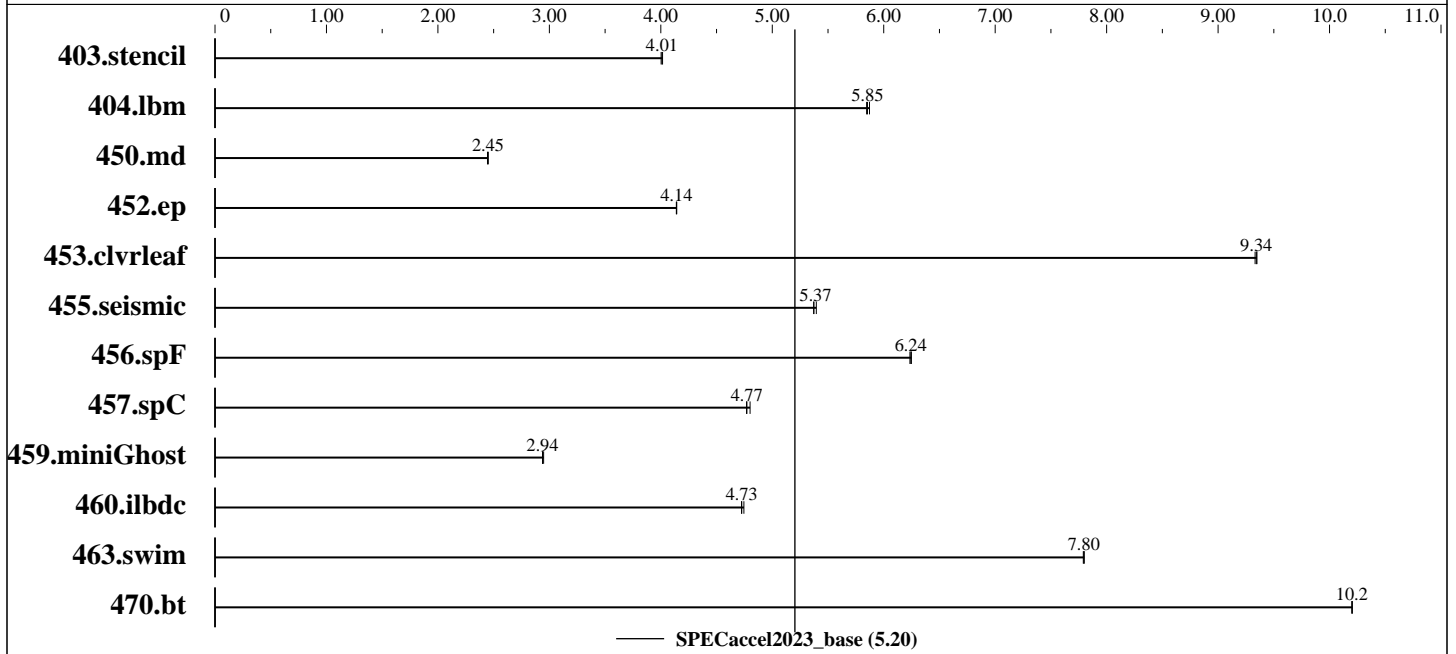
Test Sponsor: Telecommunications Technology Association

Tested by: Telecommunications Technology Association

Test Date: Apr-2026

Hardware Availability: Mar-2026

Software Availability: Apr-2026



Hardware

CPU Name: Intel Xeon 6787P
 Max MHz.: 3800
 Nominal: 2000
 Enabled: 172 cores, 2 chips, 2 threads/core
 Orderable: 2 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 DDR5, 6400 MT/s, ECC)
 Storage: 1.7 TB
 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 x16
 Does Accel Use ECC: Yes
 Accel Description: NVIDIA H100 NVL 94GB
 Accel Driver: 595.58.03

Software

OS: Rocky Linux release 9.7 (Blue Onyx)
 5.14.0-611.47.1.el9_7.x86_64
 Compiler: C/Fortran: Version 25.9 NVHPC SDK
 Firmware: American Megatrends International, LLC.
 KMT610-015 03/26/2026
 File System: xfs
 System State: Run level 5 (multi-user)
 Other: None
 Base Parallel Model: ACC
 Base Threads Run: 1

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Software (Continued)

Peak Parallel Models: Not Run

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	110	4.02	110	4.00	<u>110</u>	<u>4.01</u>									
404.lbm	ACC	77.8	5.85	77.5	5.87	<u>77.7</u>	<u>5.85</u>									
450.md	ACC	245	2.44	245	2.45	<u>245</u>	<u>2.45</u>									
452.ep	ACC	100	4.14	100	4.14	<u>100</u>	<u>4.14</u>									
453.clvleaf	ACC	<u>107</u>	<u>9.34</u>	107	9.35	107	9.33									
455.seismic	ACC	145	5.37	145	5.40	<u>145</u>	<u>5.37</u>									
456.spF	ACC	76.0	6.25	<u>76.1</u>	<u>6.24</u>	76.2	6.23									
457.spC	ACC	112	4.80	<u>113</u>	<u>4.77</u>	113	4.77									
459.miniGhost	ACC	200	2.95	<u>201</u>	<u>2.94</u>	201	2.94									
460.ilbdc	ACC	117	4.75	117	4.72	<u>117</u>	<u>4.73</u>									
463.swim	ACC	56.4	7.80	56.5	7.79	<u>56.4</u>	<u>7.80</u>									
470.bt	ACC	103	10.2	103	10.2	<u>103</u>	<u>10.2</u>									

SPEC accel2023_base = 5.20

SPEC accel2023_peak = Not Run

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

Submit Notes

The config file option 'submit' was used.

Platform Notes

```
sysinfo program /home/spec/accel2023/bin/sysinfo
Rev: r6622 of 2021-04-07 bla7d5f8f71be5aff70a755cad7211a0
running on localhost.localdomain Thu Apr 23 09:53:54 2026
```

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) 6787P
```

```
2 "physical id"s (chips)
```

```
172 "processors"
```

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

(Continued on next page)



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Platform Notes (Continued)

```

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

```

From lscpu from util-linux 2.37.4:

```

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:         0-171
Off-line CPU(s) list:        172-343
Vendor ID:                    GenuineIntel
Model name:                   Intel(R) Xeon(R) 6787P
CPU family:                   6
Model:                        173
Thread(s) per core:          1
Core(s) per socket:          86
Socket(s):                    2
Stepping:                     1
CPU(s) scaling MHz:          24%
CPU max MHz:                  3800.0000
CPU min MHz:                  0.0000
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
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 user_shstk avx_vnni
avx512_bf16 wbnoinvd dtherm ida arat pln pts hwp hwp_act_window hwp_epp hwp_pkg_req
vnni 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_lld arch_capabilities

```

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Platform Notes (Continued)

```

Virtualization: VT-x
L1d cache: 8.1 MiB (172 instances)
L1i cache: 10.8 MiB (172 instances)
L2 cache: 344 MiB (172 instances)
L3 cache: 672 MiB (2 instances)
NUMA node(s): 4
NUMA node0 CPU(s): 0-42
NUMA node1 CPU(s): 43-85
NUMA node2 CPU(s): 86-128
NUMA node3 CPU(s): 129-171
Vulnerability Gather data sampling: Not affected
Vulnerability Indirect target selection: 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; PBRSE-eIBRS Not affected; BHI BHI_DIS_S
Vulnerability Srbds: Not affected
Vulnerability Tsa: Not affected
Vulnerability Tsx async abort: Not affected
Vulnerability Vmscape: Mitigation; IBPB before exit to userspace

```

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	8.1M	12	Data	1	64	1	64
L1i	64K	10.8M	16	Instruction	1	64	1	64
L2	2M	344M	16	Unified	2	2048	1	64
L3	336M	672M	16	Unified	3	344064	1	64

/proc/cpuinfo cache data
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

node 0 size: 257022 MB

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Platform Notes (Continued)

```

node 0 free: 253887 MB
node 1 cpus: 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 1 size: 257980 MB
node 1 free: 255814 MB
node 2 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
node 2 size: 258026 MB
node 2 free: 255846 MB
node 3 cpus: 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 3 size: 257999 MB
node 3 free: 254966 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:      1055773824 kB
HugePages_Total:      0
Hugepagesize:    2048 kB

```

```

/sbin/tuned-adm active
  Current active profile: accelerator-performance

```

```

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

```

```

From /etc/*release* /etc/*version*
os-release:
  NAME="Rocky Linux"
  VERSION="9.7 (Blue Onyx)"
  ID="rocky"
  ID_LIKE="rhel centos fedora"
  VERSION_ID="9.7"
  PLATFORM_ID="platform:el9"
  PRETTY_NAME="Rocky Linux 9.7 (Blue Onyx)"
  ANSI_COLOR="0;32"
redhat-release: Rocky Linux release 9.7 (Blue Onyx)
rocky-release: Rocky Linux release 9.7 (Blue Onyx)
rocky-release-upstream: Derived from Red Hat Enterprise Linux 9.7
system-release: Rocky Linux release 9.7 (Blue Onyx)
system-release-cpe: cpe:/o:rocky:rocky:9::baseos

```

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Platform Notes (Continued)

uname -a:

```
Linux localhost.localdomain 5.14.0-611.47.1.el9_7.x86_64 #1 SMP PREEMPT_DYNAMIC Wed
Apr 8 12:18:23 UTC 2026 x86_64 x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

gather_data_sampling:	Not affected
indirect_target_selection:	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; PBRSE-eIBRS: Not affected; BHI: BHI_DIS_S
CVE-2020-0543 (Special Register Buffer Data Sampling):	Not affected
tss:	Not affected
CVE-2019-11135 (TSX Asynchronous Abort):	Not affected
vmescape:	Mitigation: IBPB before exit to userspace

run-level 5 Apr 20 14:51

SPEC is set to: /home/spec/accel2023

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/rl-home	xfs	1.7T	24G	1.7T	2%	/home

```
From /sys/devices/virtual/dmi/id
Vendor:      KTNF Co., Ltd.
Product:    KM-T610
Product Family: BirchStream
```

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

BIOS:

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Platform Notes (Continued)

BIOS Vendor: American Megatrends International, LLC.
BIOS Version: KMT610-015
BIOS Date: 03/26/2026

(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 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
NVIDIA Compilers and Tools
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=====
C | 403.stencil(base) 404.lbm(base) 452.ep(base) 470.bt(base)
=====

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

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Compiler Version Notes (Continued)

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

nvfortran 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
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=====
Fortran | 463.swim(base)

nvfortran-Warning-The option -Mipa has been deprecated and is ignored.
nvfortran-Warning- The -gpu=pinned option is deprecated; please use
-gpu=mem:separate:pinnedalloc instead
nvfortran 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
NVIDIA Compilers and Tools
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=====
Fortran | 450.md(base) 455.seismic(base) 456.spF(base) 460.ilbdc(base)

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=====
Fortran | 463.swim(base)

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

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Compiler Version Notes (Continued)

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

nvfortran-Warning-The option -Mipa has been deprecated and is ignored.
nvfortran-Warning- The -gpu=pinned option is deprecated; please use
-gpu=mem:separate:pinnedalloc instead
nvfortran 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
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nvc-Warning-The option -Mipa has been deprecated and is ignored.
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=====
Fortran, C | 453.clvrleaf(base)
=====

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

nvfortran-Warning-The option -Mipa has been deprecated and is ignored.
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nvc-Warning-The option -Mipa has been deprecated and is ignored.
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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:

-fast -acc -Mfprelaxed -Mstack_arrays

Fortran benchmarks:

450.md: -O3 -acc -Mfprelaxed -Mstack_arrays

455.seismic: -fast -acc -Mfprelaxed -Mstack_arrays

456.spF: Same as 455.seismic

460.ilbdc: Same as 455.seismic

463.swim: -O4 -gpu=cc90 -gpu=ptx -gpu=nordc -gpu=pinned
-gpu=fastmath -acc -Mfprelaxed -Mstack_arrays -Mlre=assoc
-Mipa=fast,inline

Benchmarks using both Fortran and C:

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

459.miniGhost: -Mnomain -O4 -gpu=cc90 -gpu=ptx -gpu=nordc -gpu=pinned
-gpu=fastmath -acc -Mfprelaxed -Mstack_arrays -Mlre=assoc
-Mipa=fast,inline



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

http://www.spec.org/accel2023/flags/nv2023_flags_v2.html

http://www.spec.org/accel2023/flags/nv2021_flags_v1.0.3.2026-05-14.html

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

http://www.spec.org/accel2023/flags/nv2023_flags_v2.xml

http://www.spec.org/accel2023/flags/nv2021_flags_v1.0.3.2026-05-14.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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