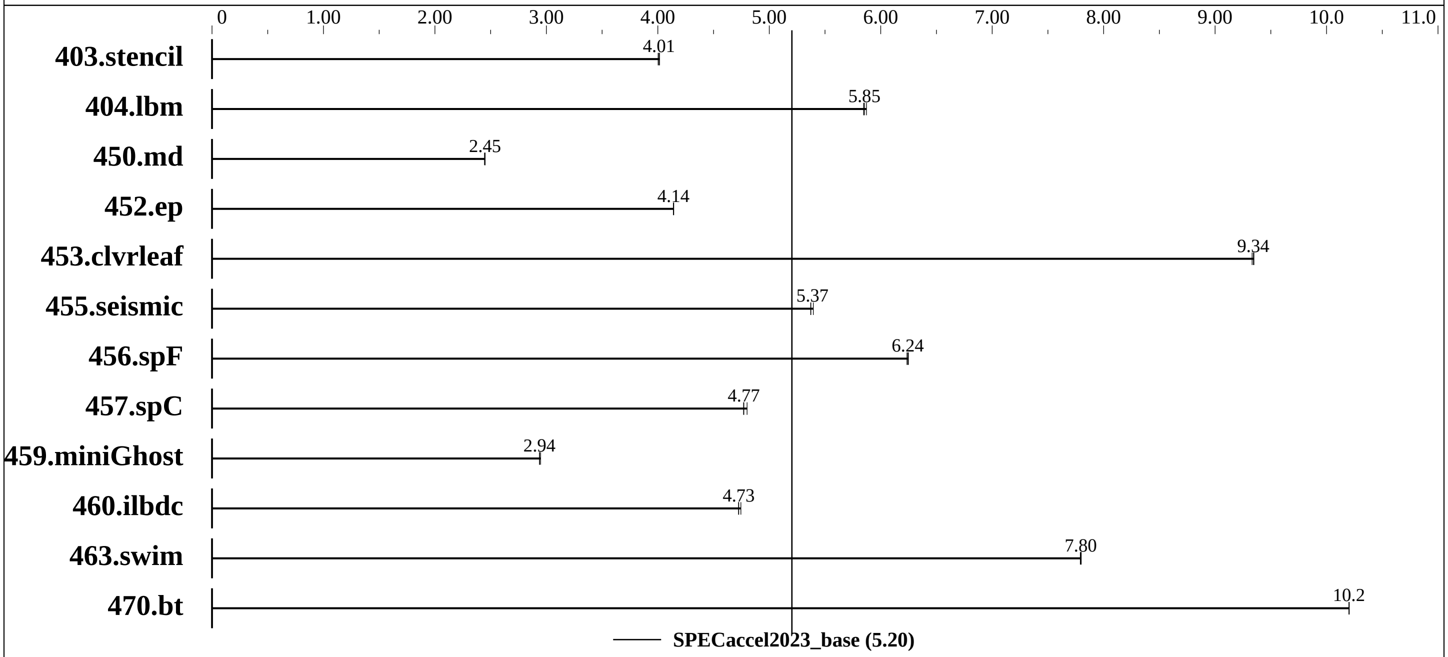
SPECaccel®2023 Result

KTNF
(Test Sponsor: Telecommunications Technology Association)
NVIDIA H100 NVL 94GB
CoreRidge KR587S4

SPECaccel2023_base = 5.20

SPECaccel2023_peak = Not Run

accel2023 License:	068A	**Test Date:**	Apr-2026
Test Sponsor:	Telecommunications Technology Association	**Hardware Availability:**	Mar-2026
Tested by:	Telecommunications Technology Association	**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 Availability: Apr-2026

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

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 b1a7d5f8f71be5aff70a755cad7211a0
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)

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
   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
```

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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; PBRSB-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;
                                                           PBRSB-eIBRS: Not affected; BHI:
                                                           BHI_DIS_S
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
tsa:                                                       Not affected
CVE-2019-11135 (TSX Asynchronous Abort):                   Not affected
vmscape:                                                   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
Copyright (c) 2025, NVIDIA CORPORATION & AFFILIATES.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C          | 403.stencil(base) 404.lbm(base) 452.ep(base) 470.bt(base)
------------------------------------------------------------------------------
nvc 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
NVIDIA Compilers and Tools
Copyright (c) 2025, NVIDIA CORPORATION & AFFILIATES.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
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
Copyright (c) 2025, NVIDIA CORPORATION & AFFILIATES.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C          | 403.stencil(base) 404.lbm(base) 452.ep(base) 470.bt(base)
------------------------------------------------------------------------------
nvc 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
NVIDIA Compilers and Tools
Copyright (c) 2025, NVIDIA CORPORATION & AFFILIATES.  All rights reserved.
------------------------------------------------------------------------------
```

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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
NVIDIA Compilers and Tools
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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)
------------------------------------------------------------------------------
nvfortran 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
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------------------------------------------------------------------------------

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

==============================================================================
Fortran, C | 453.clvrleaf(base)
------------------------------------------------------------------------------
nvfortran 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
NVIDIA Compilers and Tools
Copyright (c) 2025, NVIDIA CORPORATION & AFFILIATES.  All rights reserved.
nvc 25.9-0 64-bit target on x86-64 Linux -tp graniterapids
NVIDIA Compilers and Tools
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```

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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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Copyright (c) 2025, NVIDIA CORPORATION & AFFILIATES.  All rights reserved.
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)
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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: -mcmodel=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.clvrleaf: -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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SPECaccel 2023_peak = Not Run

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Test Sponsor:	Telecommunications Technology Association	**Hardware Availability:**	Mar-2026
Tested by:	Telecommunications Technology Association	**Software Availability:**	Apr-2026

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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