

SPECaccel[®]2023 Result

Copyright 2023 Standard Performance Evaluation Corporation

NVIDIA Corporation
Tesla A100-SXM-80GB
DGX-A100

SPECaccel2023_base = 2.76

SPECaccel2023_peak = 2.76

accel2023 License: 9045

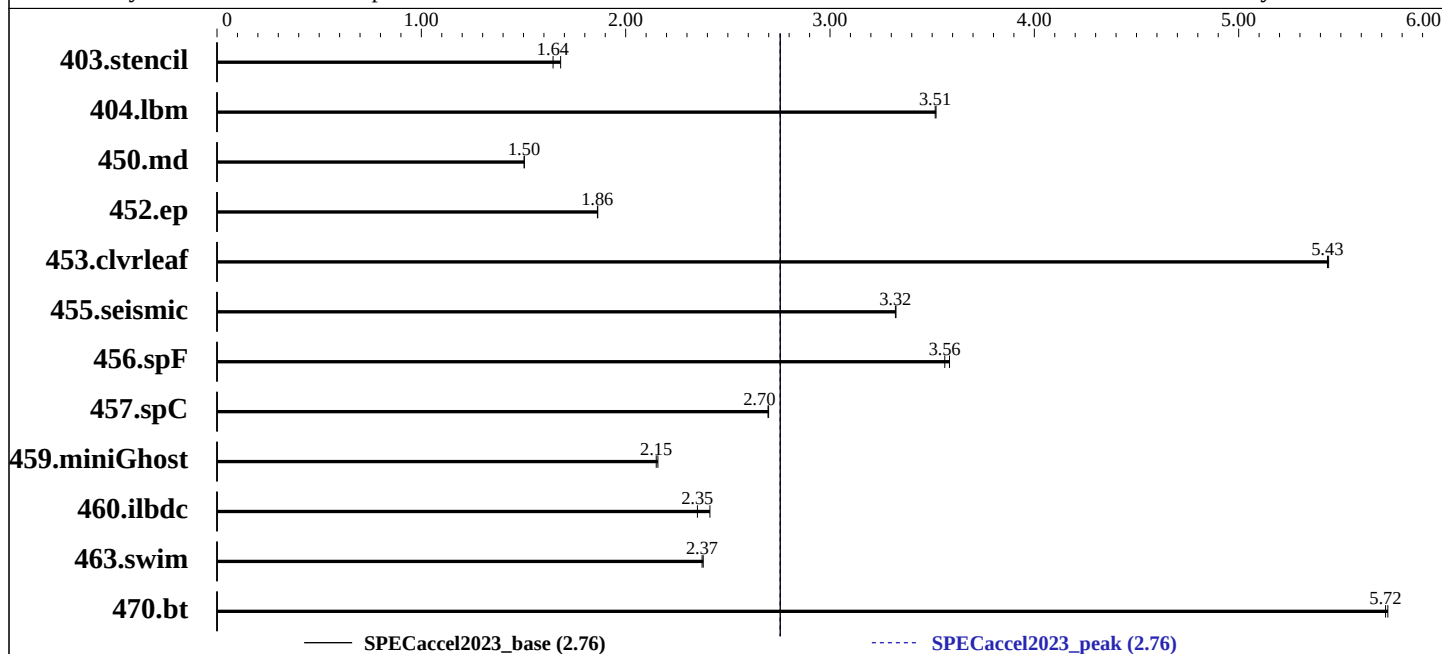
Test Sponsor: NVIDIA Corporation

Tested by: NVIDIA Corporation

Test Date: Oct-2023

Hardware Availability: Jul-2020

Software Availability: Nov-2023



Hardware

CPU Name: AMD EPYC 7742
Max MHz.: 3400
Nominal: 2250
Enabled: 128 cores, 2 chips, 2 threads/core
Orderable: 2 chips
Cache L1: 32 KB I + 32 KB D on chip per core
L2: 512 KB I+D on chip per core
L3: 256 MB I+D on chip per chip 16 MB shared / 4 cores
Other: None
Memory: 2 TB (32 x 64 GB 2Rx8 PC4-3200AA-R)
Storage: OS: 2TB U.2 NVMe SSD drive
Internal Storage: 30TB (8x 3.84TB U.2 NVMe SSD drives)
Other: None
Base Threads Run: 1
Min. Peak Threads: 1
Max. Peak Threads: 1

Accelerator

Accel Model Name: A100-SXM-80GB
Accel Vendor: NVIDIA Corporation
Accel Name: Tesla A100-SXM-80GB
Type of Accel: GPU
Accel Connection: NVLINK 3.0, NVSWITCH 2.0 600GB/s
Does Accel Use ECC: Yes
Accel Description: See Notes
Accel Driver: NVIDIA UNIX x86_64 Kernel Module 535.54.03

Software

OS: Ubuntu 22.04.3 LTS
5.15.0-1031-nvidia
Compiler: C/Fortran: Version 23.11 of the NVHPC SDK
Firmware: American Megatrends 1.21
File System: ext4
System State: Run level 5 (multi-user)
Other: None
Base Parallel Model: ACC

(Continued on next page)

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Software (Continued)

Base Threads Run: 1
Peak Parallel Models: ACC
Max. Peak Threads: 1
Min. Peak Threads: 1

Results Table

Benchmark	Base							Peak						
	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Model	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
403.stencil	ACC	262	1.68	268	1.64			ACC	262	1.68	268	1.64		
404.lbm	ACC	129	3.51	129	3.52			ACC	129	3.51	129	3.52		
450.md	ACC	399	1.50	399	1.50			ACC	399	1.50	399	1.50		
452.ep	ACC	223	1.86	223	1.86			ACC	223	1.86	223	1.86		
453.clvleaf	ACC	184	5.44	184	5.43			ACC	184	5.44	184	5.43		
455.seismic	ACC	235	3.32	235	3.32			ACC	235	3.32	235	3.32		
456.spF	ACC	132	3.58	133	3.56			ACC	132	3.58	133	3.56		
457.spC	ACC	200	2.70	200	2.70			ACC	200	2.70	200	2.70		
459.miniGhost	ACC	273	2.16	274	2.15			ACC	273	2.16	274	2.15		
460.ilbdc	ACC	236	2.35	230	2.41			ACC	236	2.35	230	2.41		
463.swim	ACC	185	2.38	185	2.37			ACC	185	2.38	185	2.37		
470.bt	ACC	184	5.73	184	5.72			ACC	184	5.73	184	5.72		

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

Operating System Notes

Shell stacksize set to unlimited via "limit stacksize unlimited"

General Notes

Submitted_by: Mathew Colgrove <mcolgrove@nvidia.com>

Submitted: Wed Nov 8 11:59:12 EST 2023

Submission: accel2023-20231027-00004.sub

Platform Notes

Information from nvaccelinfo

CUDA Driver Version: 12020

NVRM version: NVIDIA UNIX x86_64 Kernel Module 535.54.03 Tue Jun 6 22:20:39 UTC 2023

Device Number: 0

Device Name: NVIDIA A100-SXM4-80GB

Device Revision Number: 8.0

Global Memory Size: 84987740160

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Platform Notes (Continued)

Number of Multiprocessors: 108
Concurrent Copy and Execution: Yes
Total Constant Memory: 65536
Total Shared Memory per Block: 49152
Registers per Block: 65536
Warp Size: 32
Maximum Threads per Block: 1024
Maximum Block Dimensions: 1024, 1024, 64
Maximum Grid Dimensions: 2147483647 x 65535 x 65535
Maximum Memory Pitch: 2147483647B
Texture Alignment: 512B
Clock Rate: 1410 MHz
Execution Timeout: No
Integrated Device: No
Can Map Host Memory: Yes
Compute Mode: default
Concurrent Kernels: Yes
ECC Enabled: Yes
Memory Clock Rate: 1593 MHz
Memory Bus Width: 5120 bits
L2 Cache Size: 41943040 bytes
Max Threads Per SMP: 2048
Async Engines: 3
Unified Addressing: Yes
Managed Memory: Yes
Concurrent Managed Memory: Yes
Preemption Supported: Yes
Cooperative Launch: Yes
Default Target: cc80

Sysinfo program /local/home/mcolgrove/ACCELV2/bin/sysinfo
Rev: r6622 of 2021-04-07 b1a7d5f8f71be5aff70a755cad7211a0
running on luna Wed Oct 25 13:10:36 2023

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 : AMD EPYC 7742 64-Core Processor
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

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Platform Notes (Continued)

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 2.37.2:

Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 43 bits physical, 48 bits virtual
Byte Order: Little Endian
CPU(s): 256
On-line CPU(s) list: 0-255
Vendor ID: AuthenticAMD
Model name: AMD EPYC 7742 64-Core Processor
CPU family: 23
Model: 49
Thread(s) per core: 2
Core(s) per socket: 64
Socket(s): 2
Stepping: 0
Frequency boost: enabled
CPU max MHz: 2250.0000
CPU min MHz: 1500.0000
BogoMIPS: 4491.45
Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr
pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt
pdpe1gb rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid
aperfmpperf rapl pni pclmulqdq monitor ssse3 fma cx16 sse4_1 sse4_2 x2apic movbe
popcnt aes xsave avx f16c rdrand lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a
misalignsse 3dnowprefetch osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb
bpext perfctr_llc mwaitx cpb cat_l3 cdp_l3 hw_pstate ssbd mba ibrs ibpb stibp
vmmcall fsgsbase bmi1 avx2 smep bmi2 cqm rdt_a rdseed adx smap clflushopt clwb
sha_ni xsaveopt xsavec xgetbv1 cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local
clzero irperf xsaveerptr rdpru wbnoinvd amd_ppin arat npt lbrv svm_lock nrip_save
tsc_scale vmcb_clean flushbyasid decodeassists pausefilter pfthreshold avic
v_vmsave_vmload vgif v_spec_ctrl umip rdpid overflow_recov succor smca sme sev
sev_es
Virtualization: AMD-V
L1d cache: 4 MiB (128 instances)
L1i cache: 4 MiB (128 instances)
L2 cache: 64 MiB (128 instances)
L3 cache: 512 MiB (32 instances)
NUMA node(s): 8
NUMA node0 CPU(s): 0-15,128-143
NUMA node1 CPU(s): 16-31,144-159
NUMA node2 CPU(s): 32-47,160-175

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Platform Notes (Continued)

NUMA node3 CPU(s): 48-63,176-191
NUMA node4 CPU(s): 64-79,192-207
NUMA node5 CPU(s): 80-95,208-223
NUMA node6 CPU(s): 96-111,224-239
NUMA node7 CPU(s): 112-127,240-255
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 Retbleed: Vulnerable
Vulnerability Spec store bypass: Vulnerable
Vulnerability Spectre v1: Vulnerable: __user pointer sanitization and
usercopy barriers only; no swaps barriers
Vulnerability Spectre v2: Vulnerable, IBPB: disabled, STIBP: disabled,
PBRSE-eIBRS: Not affected
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	32K	4M	8	Data	1	64	1	64
L1i	32K	4M	8	Instruction	1	64	1	64
L2	512K	64M	8	Unified	2	1024	1	64
L3	16M	512M	16	Unified	3	16384	1	64

/proc/cpuinfo cache data
cache size : 512 KB

From numactl --hardware

WARNING: a numactl 'node' might or might not correspond to a physical chip.

available: 8 nodes (0-7)

node 0 cpus: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 128 129 130 131 132 133 134 135 136
137 138 139 140 141 142 143

node 0 size: 257831 MB

node 0 free: 111239 MB

node 1 cpus: 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 144 145 146 147 148 149
150 151 152 153 154 155 156 157 158 159

node 1 size: 257991 MB

node 1 free: 214758 MB

node 2 cpus: 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 160 161 162 163 164 165
166 167 168 169 170 171 172 173 174 175

node 2 size: 258039 MB

node 2 free: 214505 MB

node 3 cpus: 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 176 177 178 179 180 181
182 183 184 185 186 187 188 189 190 191

(Continued on next page)

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Platform Notes (Continued)

```
node 3 size: 258027 MB
node 3 free: 218294 MB
node 4 cpus: 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 192 193 194 195 196 197
198 199 200 201 202 203 204 205 206 207
node 4 size: 258039 MB
node 4 free: 125853 MB
node 5 cpus: 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 208 209 210 211 212 213
214 215 216 217 218 219 220 221 222 223
node 5 size: 258039 MB
node 5 free: 213890 MB
node 6 cpus: 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 224 225 226
227 228 229 230 231 232 233 234 235 236 237 238 239
node 6 size: 258039 MB
node 6 free: 193939 MB
node 7 cpus: 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 240 241
242 243 244 245 246 247 248 249 250 251 252 253 254 255
node 7 size: 258027 MB
node 7 free: 154403 MB
node distances:
node  0  1  2  3  4  5  6  7
0:  10  12  12  12  32  32  32  32
1:  12  10  12  12  32  32  32  32
2:  12  12  10  12  32  32  32  32
3:  12  12  12  10  32  32  32  32
4:  32  32  32  32  10  12  12  12
5:  32  32  32  32  12  10  12  12
6:  32  32  32  32  12  12  10  12
7:  32  32  32  32  12  12  12  10
```

From /proc/meminfo

MemTotal: 2113571332 kB

HugePages_Total: 0

Hugepagesize: 2048 kB

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

/usr/bin/lsb_release -d
Ubuntu 22.04.3 LTS

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

debian_version: bookworm/sid

dgx-release:

DGX_NAME="DGX Server"

DGX_PRETTY_NAME="NVIDIA DGX Server"

DGX_SWBUILD_DATE="2020-10-26-11-53-11"

DGX_SWBUILD_VERSION="5.0.0"

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Platform Notes (Continued)

DGX_COMMIT_ID="7501dfff"
DGX_PLATFORM="DGX Server for DGX A100"
DGX_SERIAL_NUMBER="1663521001239"

ec2_version: Ubuntu 20.04.1 LTS (Focal Fossa)

os-release:

PRETTY_NAME="Ubuntu 22.04.3 LTS"
NAME="Ubuntu"
VERSION_ID="22.04"
VERSION="22.04.3 LTS (Jammy Jellyfish)"
VERSION_CODENAME=jammy
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"

uname -a:

Linux luna 5.15.0-1031-nvidia #31-Ubuntu SMP Tue Aug 15 23:56:08 UTC 2023 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
retbleed:	Vulnerable
CVE-2018-3639 (Speculative Store Bypass):	Vulnerable
CVE-2017-5753 (Spectre variant 1):	Vulnerable: __user pointer sanitization and usercopy barriers only; no swpags barriers
CVE-2017-5715 (Spectre variant 2):	Vulnerable, IBPB: disabled, STIBP: disabled, PBRSE-eIBRS: Not affected
CVE-2020-0543 (Special Register Buffer Data Sampling):	Not affected
CVE-2019-11135 (TSX Asynchronous Abort):	Not affected

run-level 5 Sep 8 09:26

SPEC is set to: /local/home/mcolgrove/ACCELV2

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/md0	ext4	1.8T	1.1T	598G	65%	/

From /sys/devices/virtual/dmi/id

Vendor: NVIDIA
Product: DGXA100 920-23687-2530-000

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Platform Notes (Continued)

Product Family: DGX

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

BIOS:

BIOS Vendor: American Megatrends Inc.

BIOS Version: 1.21

BIOS Date: 03/09/2023

(End of data from sysinfo program)

Compiler Version Notes

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

/usr/bin/ld: /usr/lib/x86_64-linux-gnu/crt1.o: in function `_start':
(.text+0x1b): undefined reference to `main'
pgacclnk: child process exit status 1: /usr/bin/ld
nvc 23.11-0 64-bit target on x86-64 Linux -tp znver2
NVIDIA Compilers and Tools
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=====
C | 403.stencil(base) 404.lbm(base) 452.ep(base) 470.bt(base)

nvc 23.11-0 64-bit target on x86-64 Linux -tp znver2
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=====
C | 457.spC(base)

/usr/bin/ld: /usr/lib/x86_64-linux-gnu/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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=====
Fortran | 450.md(base) 455.seismic(base) 456.spF(base) 460.ilbdc(base)
463.swim(base)

nvfortran 23.11-0 64-bit target on x86-64 Linux -tp znver2
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=====
Fortran, C | 453.clvrleaf(base) 459.miniGhost(base)

nvfortran 23.11-0 64-bit target on x86-64 Linux -tp znver2
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nvc 23.11-0 64-bit target on x86-64 Linux -tp znver2
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Base Compiler Invocation

C benchmarks:
nvc

Fortran benchmarks:
nvfortran

Benchmarks using both Fortran and C:
nvfortran nvc

Base Portability Flags

403.stencil: No flags used
404.lbm: No flags used
450.md: No flags used
452.ep: No flags used

(Continued on next page)

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Base Portability Flags (Continued)

453.clvleaf: No flags used
455.seismic: No flags used
456.spF: No flags used
457.spC: -mcmodel=medium -wl, --no-relax
459.miniGhost: No flags used
460.ilbdc: No flags used
463.swim: No flags used
470.bt: No flags used

Base Optimization Flags

C benchmarks:

-Ofast -acc -Mfprelaxed -Mstack_arrays -static-nvidia

Fortran benchmarks:

-Ofast -acc -Mfprelaxed -Mstack_arrays -static-nvidia

Benchmarks using both Fortran and C:

453.clvleaf: -Ofast -acc -Mfprelaxed -Mstack_arrays -static-nvidia

459.miniGhost: -Mnomain -Ofast -acc -Mfprelaxed -Mstack_arrays
-static-nvidia

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

(Continued on next page)

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Peak Optimization Flags (Continued)

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

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

https://pro.spec.org/private/hpg/submit/accel2023/flags/nv2023_flags_v2.2023-10-27.html

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

https://pro.spec.org/private/hpg/submit/accel2023/flags/nv2023_flags_v2.2023-10-27.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 2023-10-25 16:10:35-0400.

Report generated on 2023-11-08 13:07:25 by accel2023 PDF formatter v112.

Originally published on 2023-11-08.