



SPEC

SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

NVIDIA

(Test Sponsor: Arm)

NVIDIA DGX Spark (3.9 GHz NVIDIA GB10 CPU)

SPECrate®2026_int_base = 5.97

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9044

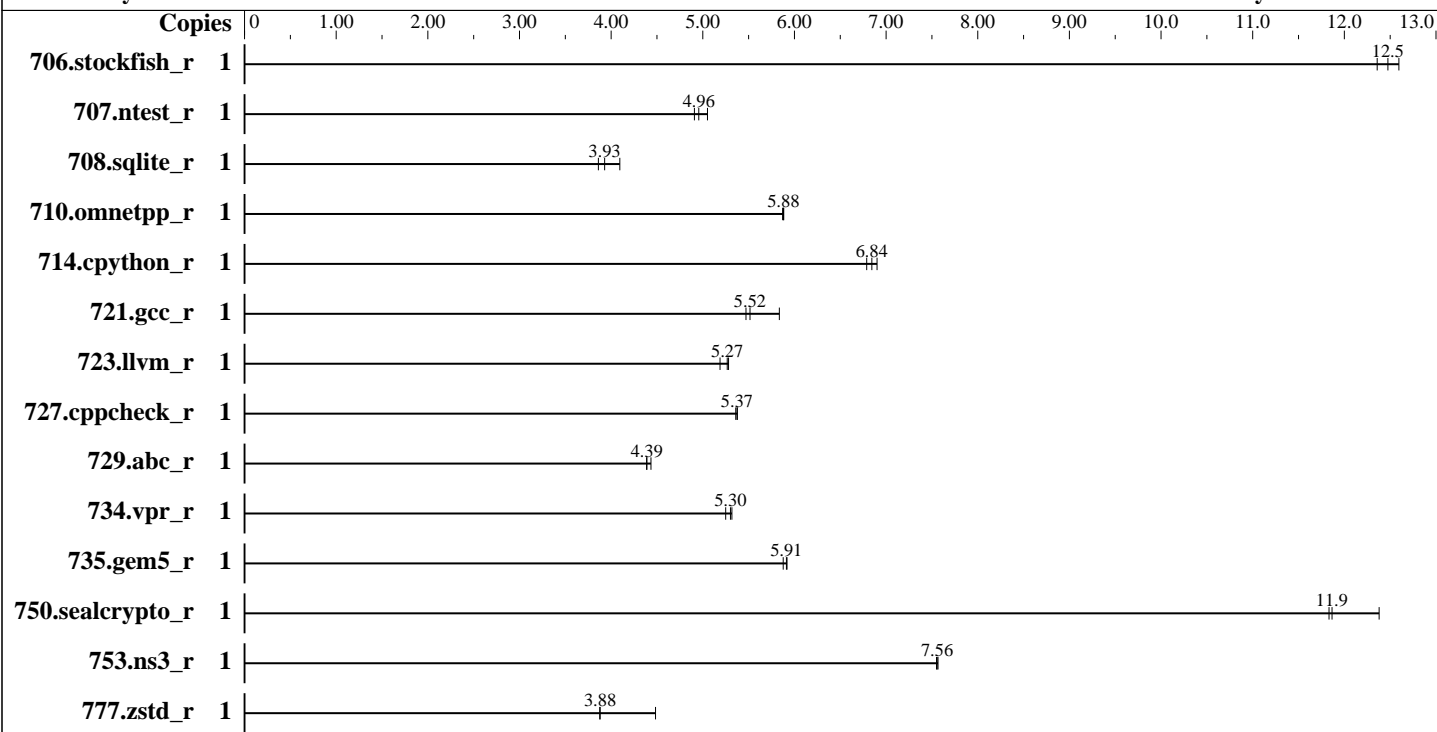
Test Sponsor: Arm

Tested by: Arm

Test Date: Feb-2026

Hardware Availability: Oct-2025

Software Availability: Feb-2026



Hardware

CPU Name: NVIDIA GB10
 Max MHz: 4004
 Nominal: 3900
 Enabled: 20 (10x Cortex-X925, 10x Cortex-A725) cores, 1 chip
 Orderable: 1 chips
 Cache L1: 64 KB I + 64 KB D on chip per core
 L2: 2 MB I+D on chip per core; 512 KB I+D on chip per core
 L3: 16 MB I+D on chip per 10 core cluster (Cluster 1); 8 MB I+D on chip per 10 core cluster (Cluster 0)
 Other: None
 Memory: 128 GB (LPDDR5X-8533 MT/s)
 Storage: 1 x 3.7 TB NVMe SSD
 Cooling: Air
 Other: None

Software

OS: Ubuntu 24.04.3 LTS
 6.14.0-1013-nvidia
 Compiler: C/C++/Fortran: Version 22.1.0 of LLVM
 Compiler Category: Community
 Firmware: Version 5.36_0ACUM018 released Aug-2025
 File System: ext4
 System State: Run level 5 (graphical multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other: None
 Power Management: OS set to prefer performance at the cost of additional power usage



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	1	100	12.6	101	12.5	102	12.4							
707.ntest_r	1	121	4.91	117	5.05	119	4.96							
708.sqlite_r	1	134	3.93	137	3.86	129	4.09							
710.omnetpp_r	1	82.6	5.88	82.6	5.88	82.8	5.87							
714.cpython_r	1	70.0	6.84	70.6	6.79	69.4	6.90							
721.gcc_r	1	124	5.52	125	5.47	118	5.84							
723.llvm_r	1	96.0	5.28	97.7	5.19	96.3	5.27							
727.cppcheck_r	1	66.8	5.38	66.8	5.37	67.0	5.36							
729.abc_r	1	105	4.39	104	4.43	105	4.39							
734.vpr_r	1	87.0	5.30	86.7	5.32	87.8	5.25							
735.gem5_r	1	82.4	5.91	82.9	5.88	82.3	5.92							
750.sealcrypto_r	1	45.3	11.8	43.3	12.4	45.2	11.9							
753.ns3_r	1	81.1	7.56	81.0	7.57	81.2	7.55							
777.zstd_r	1	166	3.88	166	3.88	144	4.48							

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

Compiler Notes

The compiler used was release candidate 2 of llvm 22.1.0, downloaded from github.com/llvm/llvm-project/releases/download/llvmorg-22.1.0-rc2 built locally with GCC14 with default flags and clang, flang and lld projects following the instructions detailed here: <https://llvm.org/docs/CMake.html>

Operating System Notes

'ulimit -s unlimited' was used to set environment stack size limit
THP was enabled by running \$echo always | sudo tee /sys/kernel/mm/transparent_hugepage/enabled

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH =
"/opt/llvm/llvm-22.1.0-rc2/lib64/:/opt/llvm/llvm-22.1.0-rc2/lib/:/lib64"

General Notes

CPU consists of 2 heterogeneous clusters: with L3 of 8MB and 16MB respectively. Each CPU cluster is made up of 5 e-cores and 5 p-cores



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Platform Notes

sysinfo program /opt/builds/spec2026/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on spark-ca5f Fri Feb 6 10:24:39 2026

SUT (System Under Test) info as seen by some common utilities.

Table of contents

1. uname -srvm
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numactl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 255 (255.4-lubuntu8.11)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

```
1. uname -srvm
Linux 6.14.0-1013-nvidia #13-Ubuntu SMP PREEMPT_DYNAMIC Wed Oct 29 06:01:19 UTC 2025 aarch64
```

```
2. w
10:24:39 up 2 days, 1:59, 2 users, load average: 0.94, 0.99, 1.00
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
fralov01  -        10.34.125.5   08:02      1:18m      0.00s      0.03s      sshd: fralov01 [priv]
gdm       tty1    -             Wed08      2days     1:28      0.04s      /usr/bin/gjs -m
/usr/share/gnome-shell/org.gnome.ScreenSaver
```

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Platform Notes (Continued)

3. Username

From environment variable \$USER: root
From the command 'logname': fralov01

4. ulimit -a

```
time(seconds)          unlimited
file(blocks)           unlimited
data(kbytes)           unlimited
stack(kbytes)          unlimited
coredump(blocks)      0
memory(kbytes)         unlimited
locked memory(kbytes) 15688996
process                511872
nofiles                1024
vmemory(kbytes)       unlimited
locks                  unlimited
rtprio                 0
```

5. sysinfo process ancestry

```
/sbin/init splash
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: fralov01 [priv]
sshd: fralov01@pts/0
-bash
sudo bash
sudo bash
bash
runcpu --config=llvm-rc-linux-aarch64-dgx-spark.cfg --action=run fprate intrate --iterations=4 --reportable
runcpu --configfile llvm-rc-linux-aarch64-dgx-spark.cfg --action run --iterations 4 --reportable --nopower
--runmode rate --tune base --size refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.intrate.001.1.log --lognum 001.1 --from_runcpu 2
specperl $SPEC/bin/sysinfo -f
$SPEC = /opt/builds/spec2026
```

6. /proc/cpuinfo

```
CPU implementer : 0x41
CPU architecture: 8
CPU variant : 0x0
CPU part : 0xd85
CPU part : 0xd87
CPU revision : 1
Features : fp asimd evtstrm aes pmull sha1 sha2 crc32 atomics fphp asimdhp cpuid asimdrdm jscvt
fcma lrcpc dcpop sha3 sm3 sm4 asimddp sha512 sve asimdfhm dit uscat ilrcpc flagm sb
paca pacg dcpodp sve2 sveaes svepmull svebitperm svesha3 svesm4 flagm2 frint svei8mm
```

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Platform Notes (Continued)

svebf16 i8mm bf16 dgh bti ecv afp wfxt

WARNING: the number of "processors" from /proc/cpuinfo does not seem to match the number of hardware threads as reported by lscpu. Please verify counts independently.

7. lscpu

From lscpu from util-linux 2.39.3:

```

Architecture:          aarch64
CPU op-mode(s):        64-bit
Byte Order:            Little Endian
CPU(s):                20
On-line CPU(s) list:   0-19
Vendor ID:             ARM
BIOS Vendor ID:       NVIDIA
Model name:            Cortex-X925
BIOS Model name:      GB10 Spark CPU @ 3.9GHz
BIOS CPU family:      258
Model:                1
Thread(s) per core:   1
Core(s) per socket:   10
Socket(s):            1
Stepping:              r0p1
CPU(s) scaling MHz:   116%
CPU max MHz:          4004.0000
CPU min MHz:          1378.0000
BogoMIPS:              2000.00

```

```

Flags:                  fp asimd evtstrm aes pmull sha1 sha2 crc32 atomics fphp asimdhp
                        cpuid asimdrdm jscvt fcma lrcpc dcpop sha3 sm3 sm4 asimddp sha512
                        sve asimdfhm dit uscat ilrcpc flagm sb paca pacg dcpodp sve2
                        sveaes svepmull svebitperm svesha3 svesm4 flagm2 frint svei8mm
                        svebf16 i8mm bf16 dgh bti ecv afp wfxt

```

```

Model name:            Cortex-A725
BIOS Model name:      GB10 Spark CPU @ 3.9GHz
BIOS CPU family:      258
Model:                1
Thread(s) per core:   1
Core(s) per socket:   10
Socket(s):            1
Stepping:              r0p1
CPU(s) scaling MHz:   83%
CPU max MHz:          2860.0000
CPU min MHz:          338.0000
BogoMIPS:              2000.00

```

```

Flags:                  fp asimd evtstrm aes pmull sha1 sha2 crc32 atomics fphp asimdhp
                        cpuid asimdrdm jscvt fcma lrcpc dcpop sha3 sm3 sm4 asimddp sha512
                        sve asimdfhm dit uscat ilrcpc flagm sb paca pacg dcpodp sve2

```

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Platform Notes (Continued)

```

sveaes svepmull svebitperm svesha3 svesm4 flagm2 frint svei8mm
svebf16 i8mm bf16 dgh bti ecv afp wfxt
Lld cache: 1.3 MiB (20 instances)
Lli cache: 1.3 MiB (20 instances)
L2 cache: 25 MiB (20 instances)
L3 cache: 24 MiB (2 instances)
NUMA node(s): 1
NUMA node0 CPU(s): 0-19
Vulnerability Gather data sampling: Not affected
Vulnerability Ghostwrite: Not affected
Vulnerability Indirect target selection: Not affected
Vulnerability Itlb multihit: Not affected
Vulnerability Lltf: 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; __user pointer sanitization
Vulnerability Spectre v2: Mitigation; CSV2, BHB
Vulnerability Srbds: Not affected
Vulnerability Tsa: Not affected
Vulnerability Tsx async abort: Not affected
Vulnerability Vmscape: Not affected

```

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
Lld	64K	1.3M	4	Data	1	256		64
Lli	64K	1.3M	4	Instruction	1	256		64
L2	512K	25M	8	Unified	2	1024		64
L3	8M	24M	16	Unified	3	8192		64

8. numactl --hardware

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

```

available: 1 nodes (0)
node 0 cpus: 0-19
node 0 size: 122570 MB
node 0 free: 42736 MB
node distances:
node 0
0: 10

```

9. /proc/meminfo

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Platform Notes (Continued)

MemTotal: 125511968 kB

10. who -r
run-level 5 Feb 4 08:25

11. Systemd service manager version: systemd 255 (255.4-lubuntu8.11)
Default Target Status
graphical running

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	ModemManager NetworkManager NetworkManager-dispatcher accounts-daemon anacron apparmor apport avahi-daemon blk-availability bluetooth cfg-iommu cloud-config cloud-final cloud-init cloud-init-local console-setup containerd cron cups cups-browsed dgx-dashboard dgx-dashboard-admin dgx-release dgxstation-desktop dmesg docker e2scrub_reap finalrd getty@ gnome-remote-desktop grub-common grub-initrd-fallback kdump-tools keyboard-setup lvm2-monitor multipathd networkd-dispatcher nv-cpu-governor nv-docker-gpus nvidia-cdi-refresh nvidia-conf-xconfig nvidia-console-settings nvidia-disable-aqc-nic nvidia-disable-init-on-alloc nvidia-disable-numa-balancing nvidia-earlycon nvidia-enable-power-meter-cap nvidia-grubserial nvidia-hibernate nvidia-nvme-interrupt-coalescing nvidia-pci-realloc nvidia-persistenced nvidia-raid-config nvidia-redfish-config nvidia-resume nvidia-spark-run-apt-upgrade-once nvidia-suspend nvme-fc-boot-connections nvme-autoconnect open-iscsi open-vm-tools openvpn pollinate ras-mc-ctl rasdaemon restart-resolved rsyslog samba-ad-dc secureboot-db setvtrgb smartmontools snapd srp_daemon ssl-cert switcheroo-control sysstat systemd-pstore systemd-resolved systemd-timesyncd ua-reboot-cmds ubuntu-advantage udisks2 ufw vgauth wpa_supplicant
enabled-runtime	netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled	NetworkManager-wait-online brlty console-getty debug-shell dgx-oobe dgx-oobe-admin dgx-oobe-hostname dgx-oobe-hotspot dgx-oobe-hotspot-watchdog dgx-oobe-ubuntu-pro-activate dnsmasq dnsmasq@ iperf3 ipmievd iscsid nftables nmbd nvidia-desktop-default-snaps nvidia-dgx-sol nvidia-dgx-telemetry nvidia-remove-gnome-software-once nvidia-spark-mlx-firmware-manager nvidia-spark-remove-once nvidia-suspend-then-hibernate openvpn-client@ openvpn-server@ openvpn@ quota quotarpc rpcbind rsync rtkit-daemon setup-oem-config-override smbd speech-dispatcherd srp_daemon_port@ ssh systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-networkd systemd-networkd-wait-online systemd-networkd-wait-online@ systemd-pcrlock-file-system systemd-pcrlock-firmware-code systemd-pcrlock-firmware-config systemd-pcrlock-machine-id systemd-pcrlock-make-policy systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysextd systemd-time-wait-sync upower wpa_supplicant-nl80211@ wpa_supplicant-wired@ wpa_supplicant@
generated	speech-dispatcher
indirect	saned@ serial-getty@ spice-vdagentd systemd-sysupdate systemd-sysupdate-reboot uuid
masked	alsa-utils cryptdisks cryptdisks-early hwclock multipath-tools-boot nfs-common nvsm

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Platform Notes (Continued)

```
nvsm-api-gateway nvsm-core nvsm-exporter nvsm-mqqt nvsm-notifier saned screen-cleanup sudo
x11-common
```

13. Linux kernel boot-time arguments, from /proc/cmdline

```
BOOT_IMAGE=/boot/vmlinuz-6.14.0-1013-nvidia
root=UUID=d27bfd26-ff30-400e-9eca-9cdf73de9406
ro
init_on_alloc=0
console=tty0
plymouth.ignore-serial-console
plymouth.use-simplydrm
earlycon=uart,mmio32,0x16A00000
console=tty0
console=ttyS0,921600
crashkernel=1G-:0M
quiet
splash
pci=pcie_bus_safe
vt.handoff=7
```

14. cpupower frequency-info

```
analyzing CPU 19:
  current policy: frequency should be within 1.38 GHz and 4.00 GHz.
                  The governor "performance" may decide which speed to use
                  within this range.
```

15. sysctl

```
kernel.numa_balancing          0
kernel.randomize_va_space      2
vm.compaction_proactiveness    20
vm.dirty_background_bytes      0
vm.dirty_background_ratio      10
vm.dirty_bytes                  0
vm.dirty_expire_centisecs      3000
vm.dirty_ratio                  20
vm.dirty_writeback_centisecs   500
vm.dirtytime_expire_seconds    43200
vm.extfrag_threshold           500
vm.min_unmapped_ratio          1
vm.nr_hugepages                 0
vm.nr_hugepages_mempolicy      0
vm.nr_overcommit_hugepages     0
vm.swappiness                    60
vm.watermark_boost_factor      15000
```

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Platform Notes (Continued)

```
vm.watermark_scale_factor      10
vm.zone_reclaim_mode          0
```

```
-----
16. /sys/kernel/mm/transparent_hugepage
defrag          always defer defer+madvise [madvise] never
enabled         [always] madvise never
hpage_pmd_size 2097152
shmem_enabled   always within_size advise [never] deny force
```

```
-----
17. /sys/kernel/mm/transparent_hugepage/khugepaged
alloc_sleep_millisecs  60000
defrag                  1
max_ptes_none          511
max_ptes_shared        256
max_ptes_swap          64
pages_to_scan          4096
scan_sleep_millisecs   10000
```

```
-----
18. OS release
From /etc/*-release /etc/*-version
os-release  Ubuntu 24.04.3 LTS
dgx-release DGX_NAME="DGX Spark"
```

```
-----
19. Disk information
SPEC is set to: /opt/builds/spec2026
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p2 ext4  3.7T  493G  3.0T  14% /
```

```
-----
20. /sys/devices/virtual/dmi/id
Vendor:          NVIDIA
Product:         NVIDIA_DGX_Spark
Product Family: DGX Spark
Serial:          1984025007657
```

```
-----
21. dmidecode
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:
  1x SK Hynix None 128 GB 8533
```

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Platform Notes (Continued)

22. BIOS

(This section combines info from /sys/devices and dmidecode.)

BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 5.36_0ACUM018
BIOS Date: 08/06/2025
BIOS Revision: 5.36

Compiler Version Notes

=====
C | 708.sqlite_r(base) 714.cpython_r(base) 777.zstd_r(base)
=====

clang version 22.1.0-rc2
Target: aarch64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/llvm/llvm-22.1.0-rc2/bin
=====

=====
C++ | 706.stockfish_r(base) 707.ntest_r(base) 727.cppcheck_r(base)
| 753.ns3_r(base)
=====

clang version 22.1.0-rc2
Target: aarch64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/llvm/llvm-22.1.0-rc2/bin
=====

=====
C++, C | 710.omnetpp_r(base) 721.gcc_r(base) 723.llvm_r(base) 729.abc_r(base)
| 734.vpr_r(base) 735.gem5_r(base) 750.sealcrypto_r(base)
=====

clang version 22.1.0-rc2
Target: aarch64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/llvm/llvm-22.1.0-rc2/bin
=====

Base Compiler Invocation

C benchmarks:
clang

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Base Compiler Invocation (Continued)

C++ benchmarks:

clang++

Benchmarks using both C and C++:

clang++ clang

Base Portability Flags

```

706.stockfish_r: -DSPEC_LP64
707.ntest_r: -DSPEC_LP64
708.sqlite_r: -DSPEC_LP64
710.omnetpp_r: -fno-finite-math-only -DSPEC_LP64
714.cpython_r: -DSPEC_LP64
721.gcc_r: -DSPEC_LP64
723.llvm_r: -DSPEC_LP64
727.cppcheck_r: -DSPEC_LP64
729.abc_r: -DSPEC_LP64
734.vpr_r: -fno-finite-math-only -DSPEC_LP64
735.gem5_r: -fno-finite-math-only -DSPEC_LP64
750.sealcrypto_r: -DSPEC_LP64
753.ns3_r: -fno-finite-math-only -DSPEC_LP64
777.zstd_r: -DSPEC_LP64

```

Base Optimization Flags

C benchmarks:

```

-fuse-ld=lld -std=c18 -g -O3 -mcpu=native -ffast-math -flto=thin
-fomit-frame-pointer

```

C++ benchmarks:

```

706.stockfish_r: -fuse-ld=lld -std=c++17 -g -O3 -mcpu=native
-ffast-math -flto=thin -fomit-frame-pointer -pthread

707.ntest_r: -fuse-ld=lld -std=c++17 -g -O3 -mcpu=native
-ffast-math -flto=thin -fomit-frame-pointer

727.cppcheck_r: Same as 707.ntest_r

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

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NVIDIA

(Test Sponsor: Arm)

NVIDIA DGX Spark
(3.9 GHz NVIDIA GB10 CPU)

SPECrate®2026_int_base = 5.97

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9044

Test Sponsor: Arm

Tested by: Arm

Test Date: Feb-2026

Hardware Availability: Oct-2025

Software Availability: Feb-2026

Base Optimization Flags (Continued)

753.ns3_r: Same as 707.ntest_r

Benchmarks using both C and C++:

710.omnetpp_r: -fuse-ld=lld -std=c++17 -std=c18 -g -O3 -mcpu=native
-ffast-math -flto=thin -fomit-frame-pointer

721.gcc_r: Same as 710.omnetpp_r

723.llvm_r: -fuse-ld=lld -std=c++17 -std=c18 -g -O3 -mcpu=native
-ffast-math -flto=thin -fomit-frame-pointer -pthread

729.abc_r: Same as 710.omnetpp_r

734.vpr_r: Same as 710.omnetpp_r

735.gem5_r: Same as 723.llvm_r

750.sealcrypto_r: Same as 710.omnetpp_r

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

<http://www.spec.org/cpu2026/results/flags/llvm-rev-A2.html>

<http://www.spec.org/cpu2026/results/flags/Nvidia-Platform-Settings.html>

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

<http://www.spec.org/cpu2026/results/flags/llvm-rev-A2.xml>

<http://www.spec.org/cpu2026/results/flags/Nvidia-Platform-Settings.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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