



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

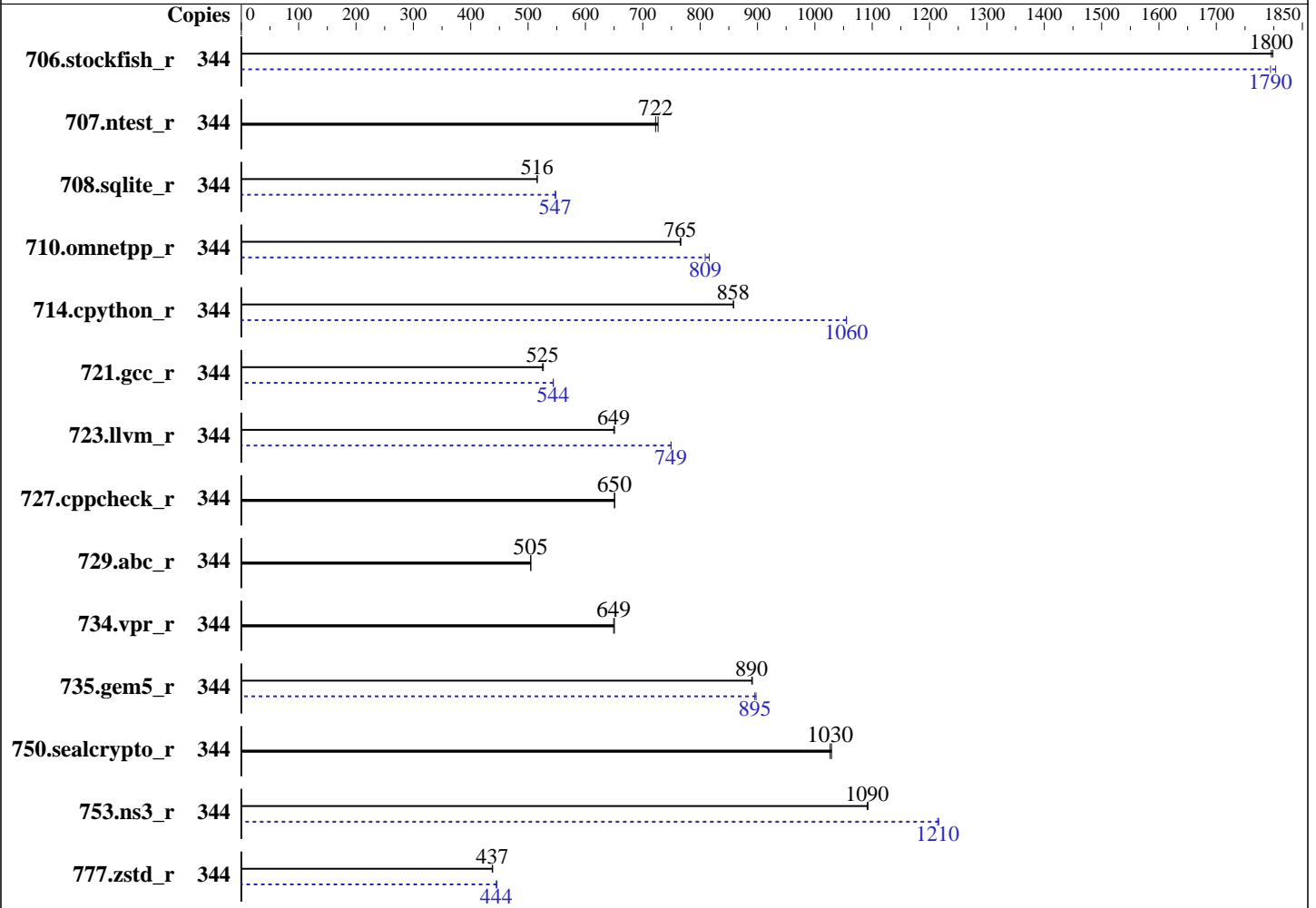
Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026



Hardware

CPU Name: Intel Xeon 6787P
 Max MHz: 3800
 Nominal: 2000
 Enabled: 172 cores, 2 chips, 2 threads/core
 Orderable: 1,2 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 2Rx4 PC5-88/64B-H, running at 8000)
 Storage: 1 x 1 TB NVME SSD
 Cooling: Air
 Other: None

Software

OS: SUSE Linux Enterprise Server 15.7
 6.4.0-150700.51-default
 Compiler: C/C++: Version 2026.0 of Intel oneAPI DPC++/C++
 Compiler for Linux;
 Fortran: Version 2026.0 of Intel Fortran
 Compiler for Linux
 Compiler Category: Vendor
 Firmware: Version 04.01.00 released Dec-2025
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other: None
 Power Management: BIOS and OS set to prefer performance at the cost of additional power usage.



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Date: May-2026

Test Sponsor: IEIT Systems Co., Ltd.

Hardware Availability: Apr-2025

Tested by: IEIT Systems Co., Ltd.

Software Availability: Mar-2026

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	344	241	1800	<u>241</u>	<u>1800</u>			344	240	1800	<u>242</u>	<u>1790</u>		
707.nctest_r	344	<u>282</u>	<u>722</u>	280	727			344	<u>282</u>	<u>722</u>	280	727		
708.sqlite_r	344	<u>352</u>	<u>516</u>	352	516			344	<u>332</u>	<u>547</u>	331	548		
710.omnetpp_r	344	<u>218</u>	<u>765</u>	218	766			344	205	816	<u>207</u>	<u>809</u>		
714.cpython_r	344	<u>192</u>	<u>858</u>	192	858			344	156	1060	<u>156</u>	<u>1060</u>		
721.gcc_r	344	<u>449</u>	<u>525</u>	448	527			344	434	544	<u>434</u>	<u>544</u>		
723.llvm_r	344	<u>269</u>	<u>649</u>	268	651			344	<u>233</u>	<u>749</u>	233	749		
727.cppcheck_r	344	190	651	<u>190</u>	<u>650</u>			344	190	651	<u>190</u>	<u>650</u>		
729.abc_r	344	313	505	<u>313</u>	<u>505</u>			344	313	505	<u>313</u>	<u>505</u>		
734.vpr_r	344	244	650	<u>244</u>	<u>649</u>			344	244	650	<u>244</u>	<u>649</u>		
735.gem5_r	344	<u>188</u>	<u>890</u>	188	891			344	<u>187</u>	<u>895</u>	187	897		
750.sealcrypto_r	344	<u>180</u>	<u>1030</u>	179	1030			344	<u>180</u>	<u>1030</u>	179	1030		
753.ns3_r	344	193	1090	<u>193</u>	<u>1090</u>			344	<u>174</u>	<u>1210</u>	173	1220		
777.zstd_r	344	505	438	<u>506</u>	<u>437</u>			344	497	446	<u>499</u>	<u>444</u>		

SPECrate®2026_int_base = 737

SPECrate®2026_int_peak = 771

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

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/cpu2026/lib"
MALLOC_CONF = "retain:true"

General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using CentOS Stream 9.
Transparent Huge Pages enabled by default
Prior to runcpu invocation

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

General Notes (Continued)

Filesystem page cache synced and cleared with:
sync; echo 3> /proc/sys/vm/drop_caches
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

Platform Notes

BIOS configuration:

ENERGY_PERF_BIAS_CFG mode set to Performance

SNC set to Enabled

VT Support set to Disable

Hardware P-states set to Disable

OS configuration:

Tuned-adm was set to throughput-performance using `~tuned-adm profile throughput-performance`

Sysinfo program /home/cpu2026/bin/sysinfo

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Thu May 21 00:00:44 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 254 (254.24+suse.148.g83b9060b6e)`
12. Services, from `systemctl list-unit-files`
13. Linux kernel boot-time arguments, from `/proc/cmdline`
14. `cpupower frequency-info`

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Platform Notes (Continued)

- 15. tuned-adm active
- 16. sysctl
- 17. /sys/kernel/mm/transparent_hugepage
- 18. /sys/kernel/mm/transparent_hugepage/khugepaged
- 19. OS release
- 20. Disk information
- 21. /sys/devices/virtual/dmi/id
- 22. dmidecode
- 23. BIOS

```
1. uname -srvm
Linux 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611) x86_64
```

```
2. w
00:00:44 up 2:06, 1 user, load average: 0.30, 0.10, 10.79
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
root      tty1    -             06May25 12.00s  1.41s  0.01s sh
reportable-ic2026.0-lin-sapphirerapids-rate-smt-on-20260429.sh
```

```
3. Username
From environment variable $USER: root
```

```
4. ulimit -a
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size                (blocks, -f) unlimited
pending signals         (-i) 4123784
max locked memory       (kbytes, -l) 8192
max memory size         (kbytes, -m) unlimited
open files              (-n) 1024
pipe size                (512 bytes, -p) 8
POSIX message queues    (bytes, -q) 819200
real-time priority      (-r) 0
stack size               (kbytes, -s) unlimited
cpu time                 (seconds, -t) unlimited
max user processes      (-u) 4123784
virtual memory          (kbytes, -v) unlimited
file locks               (-x) unlimited
```

```
5. sysinfo process ancestry
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Platform Notes (Continued)

```

/usr/lib/systemd/systemd --switched-root --system --deserialize=31
login -- root
-bash
sh reportable-ic2026.0-lin-sapphirerapids-rate-smt-on-20260429.sh
runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 344 -c
  ic2026.0-sapphirerapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=172 --define
  physicalfirst --define invoke_with_interleave --define drop_caches --tune base,peak -o all intrate
runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 344 --configfile
  ic2026.0-sapphirerapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=172 --define
  physicalfirst --define invoke_with_interleave --define drop_caches --tune base,peak --output_format all
  --nopower --runmode rate --tune base:peak --size refrate intrate --nopreenv --note-preenv --logfile
  $SPEC/tmp/CPU2026.002/templogs/preenv.intrate.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026

```

6. /proc/cpuinfo

```

model name      : Intel(R) Xeon(R) 6787P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x10003d0
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores      : 86
siblings       : 172
2 physical ids (chips)
344 processors (hardware threads)
physical id 0: core ids 0-42,64-106
physical id 1: core ids 0-42,64-106
physical id 0: apicids 0-85,128-213
physical id 1: apicids 256-341,384-469

```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

From lscpu from util-linux 2.40.4:

```

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:   0-343
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) 6787P

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Platform Notes (Continued)

```

CPU family:                6
Model:                     173
Thread(s) per core:       2
Core(s) per socket:      86
Socket(s):                2
Stepping:                 1
Frequency boost:          enabled
CPU(s) scaling MHz:      102%
CPU max MHz:              2001.0000
CPU min MHz:              800.0000
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 ds_cpl 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 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 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
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):        0-42,172-214
NUMA node1 CPU(s):        43-85,215-257
NUMA node2 CPU(s):        86-128,258-300
NUMA node3 CPU(s):        129-171,301-343
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 Reg file data sampling: Not affected
Vulnerability Retbleed:        Not affected
Vulnerability Spec rstack overflow: Not affected

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Date: May-2026

Test Sponsor: IEIT Systems Co., Ltd.

Hardware Availability: Apr-2025

Tested by: IEIT Systems Co., Ltd.

Software Availability: Mar-2026

Platform Notes (Continued)

Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
 Vulnerability Spectre v1: Mitigation; usercopy/swaps barriers and __user pointer sanitization
 Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling;
 PBRSE-eIBRS Not affected; 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	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

8. numactl --hardware

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

```
available: 4 nodes (0-3)
node 0 cpus: 0-42,172-214
node 0 size: 257398 MB
node 0 free: 247334 MB
node 1 cpus: 43-85,215-257
node 1 size: 258025 MB
node 1 free: 248371 MB
node 2 cpus: 86-128,258-300
node 2 size: 257986 MB
node 2 free: 248148 MB
node 3 cpus: 129-171,301-343
node 3 size: 257562 MB
node 3 free: 247871 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
```

9. /proc/meminfo

MemTotal: 1055715876 kB

10. who -r

run-level 3 May 6 13:57

11. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Platform Notes (Continued)

Default Target	Status
multi-user	running

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	apparmor auditd cron getty@ irqbalance issue-generator kbdsettings kdump kdump-early kdump-notify nvme-fc-boot-connections nvme-f-autoconnect postfix purge-kernels rollback systemd-pstore wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime	systemd-remount-fs
disabled	boot-sysctl ca-certificates chrony-wait chronyd console-getty debug-shell exchange-bmc-os-info fsidd grub2-once haveged ipmiev-d issue-add-ssh-keys kexec-load lunmask nfs nfs-blkmap rpcbind rpmconfigcheck serial-getty@ systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-sysex-t systemd-time-wait-sync systemd-timesyncd tuned
indirect	systemd-userdbd wickedd

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

```

BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.51-default
root=UUID=abf2f043-1a11-4e74-925a-2d92d4c037b3
splash=silent
mitigations=auto
quiet
security=apparmor
crashkernel=382M,high
crashkernel=72M,low

```

14. cpupower frequency-info

```

analyzing CPU 222:
  current policy: frequency should be within 800 MHz and 2.00 GHz.
                  The governor "performance" may decide which speed to use
                  within this range.

boost state support:
  Supported: yes
  Active: yes

```

15. tuned-adm active

Current active profile: throughput-performance

16. sysctl

kernel.numa_balancing	1
kernel.randomize_va_space	2
vm.compaction_proactiveness	20

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Platform Notes (Continued)

```

vm.dirty_background_bytes      0
vm.dirty_background_ratio     10
vm.dirty_bytes                 0
vm.dirty_expire_centisecs     3000
vm.dirty_ratio                 40
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                  10
vm.watermark_boost_factor     15000
vm.watermark_scale_factor     10
vm.zone_reclaim_mode          0

```

```

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

```

```

-----
18. /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

```

```

-----
19. OS release
From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP7

```

```

-----
20. Disk information
SPEC is set to: /home/cpu2026
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p2 xfs   931G  77G  855G   9% /

```

```

-----
21. /sys/devices/virtual/dmi/id

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Platform Notes (Continued)

Vendor: IEIT SYSTEMS
 Product: NF5280-M8-A0-R0-00
 Product Family: Not specified
 Serial: 000000000

22. dmidecode

Additional information from dmidecode 3.6 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:

4x Hynix HMCG94BDJHA380N 64 GB 1 rank 12800, configured at 8000
 4x Hynix HMCG94BDJHA383N 64 GB 1 rank 12800, configured at 8000
 5x Hynix HMCG94BDJHA462N 64 GB 1 rank 12800, configured at 8000
 3x Hynix HMCG94BDJHA464N 64 GB 1 rank 12800, configured at 8000

23. BIOS

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

BIOS Vendor: American Megatrends International, LLC.
 BIOS Version: 04.01.00
 BIOS Date: 12/17/2025

Compiler Version Notes

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

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
 Version 2026.0.0 Build 20260331
 Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

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

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
 Version 2026.0.0 Build 20260331
 Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Compiler Version Notes (Continued)

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

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xsapphirerapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fno-strict-aliasing -L/opt/intel/oneapi/compiler/2026.0/lib -lqkmallo
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xsapphirerapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmallo
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500 -xsapphirerapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -fno-strict-aliasing
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmallo
```



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

Peak Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-fprofile-generate(pass 1) -fprofile-use=default.profdata(pass 2)
-xHost(pass 1) -ffp-model=fast -xsapphirerapids(pass 2) -flto
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3 -mfpmath=sse
-funroll-loops -fno-strict-aliasing
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmalloc
```

C++ benchmarks:

```
706.stockfish_r: -m64 -std=c++17 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xHost(pass 1)
-ffp-model=fast -xsapphirerapids(pass 2) -flto
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3
-mfpmath=sse -funroll-loops
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmalloc
```

707.ntest_r: basepeak = yes

727.cppcheck_r: basepeak = yes

753.ns3_r: Same as 706.stockfish_r

Benchmarks using both C and C++:

```
710.omnetpp_r: -m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xHost(pass 1)
-ffp-model=fast -xsapphirerapids(pass 2) -flto
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

IEIT Systems Co., Ltd.

SPECrate®2026_int_base = 737

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026_int_peak = 771

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: May-2026

Hardware Availability: Apr-2025

Software Availability: Mar-2026

Peak Optimization Flags (Continued)

710.omnetpp_r (continued):

```
-mfpmath=sse -funroll-loops -fno-strict-aliasing
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmalloc
```

721.gcc_r: -m64 -std=c++17 -std=c18 -Wl,-z,muldefs

```
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xHost(pass 1)
-ffp-model=fast -xsaphirerapids(pass 2) -flto
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3
-mfpmath=sse -funroll-loops -fno-strict-aliasing
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmalloc
```

723.llvm_r: Same as 721.gcc_r

729.abc_r: basepeak = yes

734.vpr_r: basepeak = yes

735.gem5_r: Same as 710.omnetpp_r

750.sealcrypto_r: basepeak = yes

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

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.html>

<http://www.spec.org/cpu2026/results/flags/IEIT-Platform-Settings-intel-V2.0.html>

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

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.xml>

<http://www.spec.org/cpu2026/results/flags/IEIT-Platform-Settings-intel-V2.0.xml>

SPEC CPU and SPECrate are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU®2026 v1.0.1 on 2026-05-21 00:00:44-0400.

Report generated on 2026-06-16 17:19:21 by CPU2026 PDF formatter (unknown).

Originally published on 2026-06-16.