



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Fsas Technologies Inc.

(Test Sponsor: Fujitsu)

PRIMERGY RX2540 M8, Intel Xeon 6787P,
2.00GHz

SPECrate®2026_int_base = 722

SPECrate®2026_int_peak = Not Run

CPU2026 License: 19

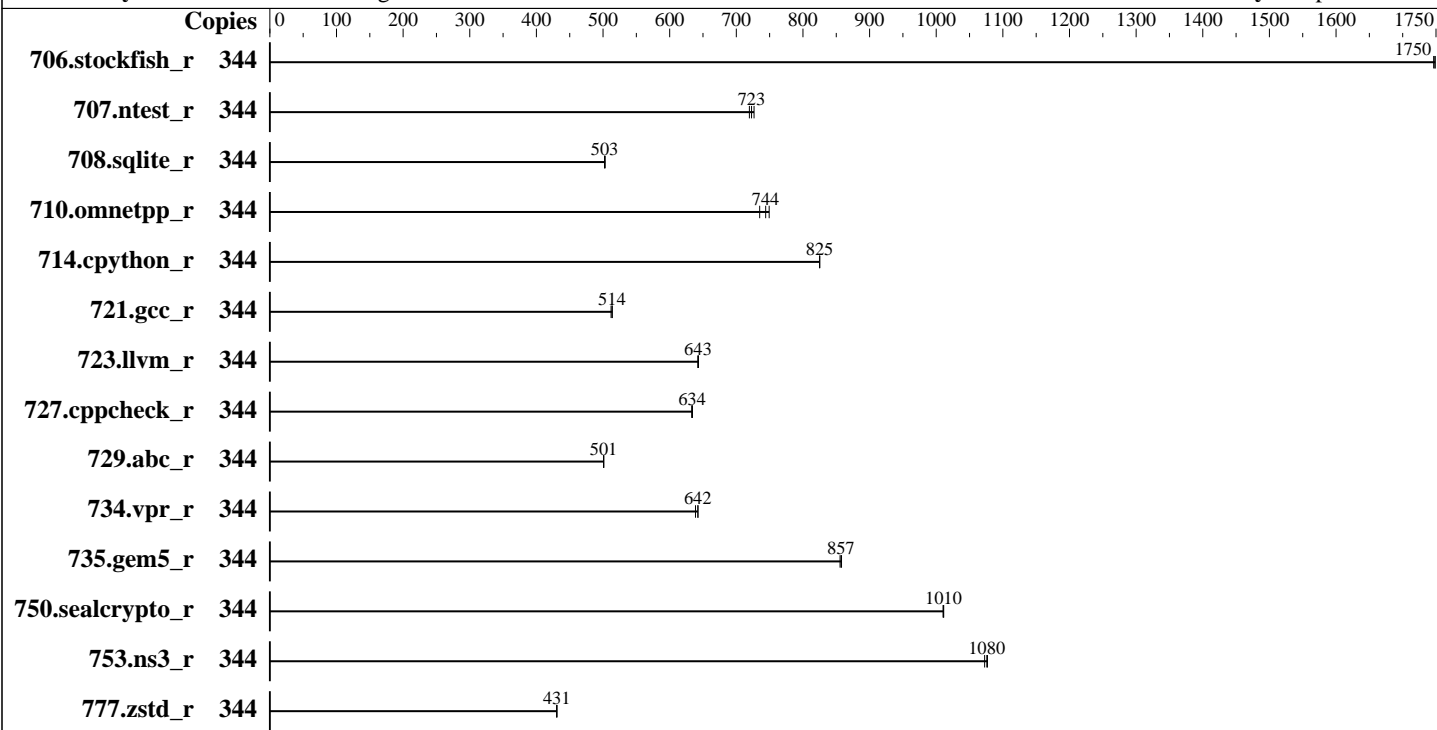
Test Sponsor: Fujitsu

Tested by: Fsas Technologies Inc.

Test Date: May-2026

Hardware Availability: Oct-2025

Software Availability: Apr-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 PC5-88/56B-M,
 running at 8000)
 Storage: 1 x PCIe SSD, 1.92TB
 Cooling: Air
 Other: None

Software

OS: SUSE Linux Enterprise Server 15 SP7
 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: Fsas Technologies Inc. BIOS Version V1.0.0.0
 R1.5.0 for D4135-A1x. Released Apr-2026
 File System: btrfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other: None
 Power Management: BIOS 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	344	248	1750	248	1750	248	1750							
707.ntest_r	344	280	727	283	720	282	723							
708.sqlite_r	344	362	502	361	503	361	503							
710.omnetpp_r	344	227	735	223	749	225	744							
714.cpython_r	344	200	825	200	825	200	825							
721.gcc_r	344	461	512	459	514	459	514							
723.llvm_r	344	271	643	271	643	272	642							
727.cppcheck_r	344	195	633	195	634	195	634							
729.abc_r	344	315	501	315	501	315	501							
734.vpr_r	344	247	642	247	642	248	639							
735.gem5_r	344	195	857	196	856	195	858							
750.sealcrypto_r	344	182	1010	183	1010	182	1010							
753.ns3_r	344	196	1080	196	1080	197	1070							
777.zstd_r	344	514	431	515	430	514	431							

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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/Benchmark/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)



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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>

Platform Notes

BIOS Settings:

Fan Control = Full

SNC (Sub NUMA) = Enabled

CPU Performance Boost = Aggressive

DCU Streamer Prefetcher = Disabled

UPI Link Frequency Select = 16.0GT/s

XPT Prefetch = Disabled

APS rocketing = Enabled

Sysinfo program /home/Benchmark/cpu2026/bin/sysinfo

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Thu May 14 01:45:01 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
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

(Continued on next page)



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Platform Notes (Continued)

22. 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`

```
01:45:01 up 7:09, 1 user, load average: 56.42, 236.34, 294.63
USER      TTY      FROM          LOGIN@      IDLE        JCPU        PCPU WHAT
root      tty1     -             21:00      4:43m     1.64s     0.10s -bash
```

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) 4126001
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) 4126001
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited
```

5. `sysinfo process ancestry`

```
/usr/lib/systemd/systemd --switched-root --system --deserialize=42
login -- root
-bash
-bash
runcpu --nobuild --action validate --define default-platform-flags --copies 344 -c
ic2026.0-graniterapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=172 --define
physicalfirst --define invoke_with_interleave --define drop_caches --tune base -o all -n 3 intrate
runcpu --nobuild --action validate --define default-platform-flags --copies 344 --configfile
ic2026.0-graniterapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=172 --define
```

(Continued on next page)



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Platform Notes (Continued)

```

physicalfirst --define invoke_with_interleave --define drop_caches --tune base --output_format all
--iterations 3 --nopower --runmode rate --tune base --size refrate intrate --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.001/templogs/preenv.intrate.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/Benchmark/cpu2026

```

6. /proc/cpuinfo

```

model name      : Intel(R) Xeon(R) 6787P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x1000405
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
CPU family:             6
Model:                  173
Thread(s) per core:    2
Core(s) per socket:    86
Socket(s):              2
Stepping:               1
CPU(s) scaling MHz:    21%
CPU max MHz:           3800.0000
CPU min MHz:           800.0000

```

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Platform Notes (Continued)

```

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 aperfperf 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
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):                        0-42,172-214
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
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; RSB filling;
                                           PBRSE-eIBRS Not affected; BHI BHI_DIS_S
Vulnerability Srbds:                       Not affected
Vulnerability Tsx async abort:              Not affected

```

(Continued on next page)



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Platform Notes (Continued)

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: 257568 MB
node 0 free: 256095 MB
node 1 cpus: 43-85,215-257
node 1 size: 258025 MB
node 1 free: 257074 MB
node 2 cpus: 86-128,258-300
node 2 size: 258025 MB
node 2 free: 257093 MB
node 3 cpus: 129-171,301-343
node 3 size: 257908 MB
node 3 free: 256927 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: 1056283928 kB

10. `who -r`

run-level 3 May 13 18:37

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

Default Target	Status
multi-user	running

12. Services, from `systemctl list-unit-files`

STATE	UNIT FILES
enabled	YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager getty@ irqbalance

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Platform Notes (Continued)

```

issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections
nvme-fc-autoconnect postfix purge-kernels rollback rsyslog sep5 smartd sshd systemd-pstore
wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime systemd-remount-fs
disabled autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait
chronyd console-getty cups cups-browsed debug-shell ebttables exchange-bmc-os-info
firewalld fsidd gpm grub2-once haveged ipmi ipmievd issue-add-ssh-keys kexec-load lunmask
man-db-create multipathd nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd serial-getty@
smartd_generate_opts snmpd snmptrapd sysstat systemd-boot-check-no-failures
systemd-confext systemd-network-generator systemd-sysext systemd-time-wait-sync
systemd-timesyncd vncserver@
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=6490486a-f020-45c4-b83e-03e98fc56a3b
splash=silent
mitigations=auto
quiet
security=apparmor

```

14. cpupower frequency-info

```

analyzing CPU 180:
  current policy: frequency should be within 800 MHz and 3.80 GHz.
                  The governor "powersave" may decide which speed to use
                  within this range.

  boost state support:
    Supported: yes
    Active: yes

```

15. sysctl

```

kernel.numa_balancing          1
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

```

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Platform Notes (Continued)

```

vm.nr_hugepages_mempolicy          0
vm.nr_overcommit_hugepages         0
vm.swappiness                       60
vm.watermark_boost_factor           15000
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 SUSE Linux Enterprise Server 15 SP7

```

19. Disk information

SPEC is set to: /home/Benchmark/cpu2026

```

Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p2 btrfs 1.9T 155G 1.8T 9% /home

```

20. /sys/devices/virtual/dmi/id

```

Vendor:      Fsas Technologies
Product:     PRIMERGY RX2540 M8
Product Family: SERVER
Serial:      xxxxxxxxxxxx

```

21. 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

(Continued on next page)



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Platform Notes (Continued)

"DMTF SMBIOS" standard.

Memory:

16x Samsung M327R8GA0EB0-CLVXB 64 GB 2 rank 8800, configured at 8000

22. BIOS

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

BIOS Vendor: Fsas Technologies
BIOS Version: V1.0.0.0 R1.5.0 for D4135-A1x
BIOS Date: 03/06/2026
BIOS Revision: 1.5
Firmware Revision: 3.12

Compiler Version Notes

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

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) 707.ntest_r(base) 727.cppcheck_r(base)
| 753.ns3_r(base)
=====

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++, 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)
=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
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=====



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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
-xgraniterapids -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 -lqkmalloc
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xgraniterapids -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 -lqkmalloc
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500 -xgraniterapids
-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 -lqkmalloc
```

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

<http://www.spec.org/cpu2026/results/flags/Intel-ic2025-official-linux64.html>

<http://www.spec.org/cpu2026/results/flags/Fsas-Platform-Settings-V1.0-GNR-RevB.html>

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

<http://www.spec.org/cpu2026/results/flags/Intel-ic2025-official-linux64.xml>

<http://www.spec.org/cpu2026/results/flags/Fsas-Platform-Settings-V1.0-GNR-RevB.xml>



SPEC CPU®2026 Integer Rate Result

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(Test Sponsor: Fujitsu)

PRIMERGY RX2540 M8, Intel Xeon 6787P,
2.00GHz

SPECrate®2026_int_base = 722

SPECrate®2026_int_peak = Not Run

CPU2026 License: 19

Test Sponsor: Fujitsu

Tested by: Fsas Technologies Inc.

Test Date: May-2026

Hardware Availability: Oct-2025

Software Availability: Apr-2026

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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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