



SPEC

# SPEC CPU®2026 Integer Rate Result

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**Fsas Technologies Inc.**

(Test Sponsor: Fujitsu)

**PRIMERGY RX1330 M6,  
Intel Xeon 6369P, 3.3 GHz**

**SPECrate®2026\_int\_base = 43.1**

**SPECrate®2026\_int\_peak = Not Run**

**CPU2026 License:** 19

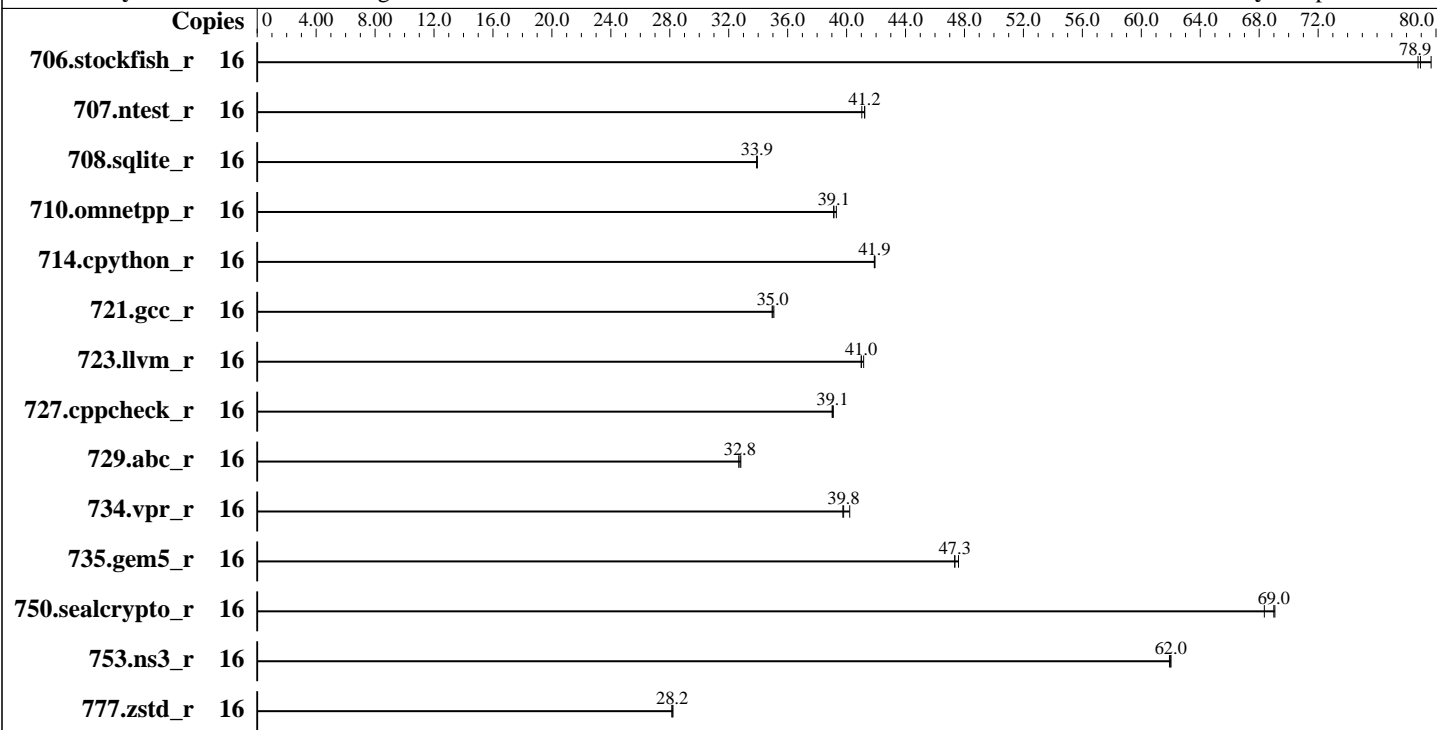
**Test Sponsor:** Fujitsu

**Tested by:** Fsas Technologies Inc.

**Test Date:** May-2026

**Hardware Availability:** Apr-2025

**Software Availability:** Apr-2026



## Hardware

CPU Name: Xeon 6369P  
 Max MHz: 5700  
 Nominal: 3300  
 Enabled: 8 cores, 1 chip, 2 threads/core  
 Orderable: 1 chip  
 Cache L1: 32 KB I + 48 KB D on chip per core  
 L2: 2 MB I+D on chip per core  
 L3: 24 MB I+D on chip per chip  
 Other: None  
 Memory: 64 GB (2 x 32 GB 2Rx8 PC5-4800B-E, running at 4400)  
 Storage: 1 x SATA M.2 SSD, 960 GB  
 Cooling: Air  
 Other: None

## Software

OS: SUSE Linux Enterprise Server 15 SP6 6.4.0-150600.21-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: Fujitsu BIOS Version V5.0.0.32 R2.6.0 for D4133-A1x. Released Jun-2026  
 File System: xfs  
 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	16	253	79.7	256	78.8	<b>255</b>	<b>78.9</b>							
707.ntest_r	16	230	41.2	231	41.0	<b>230</b>	<b>41.2</b>							
708.sqlite_r	16	249	33.9	249	33.9	<b>249</b>	<b>33.9</b>							
710.omnetpp_r	16	<b>199</b>	<b>39.1</b>	198	39.3	199	39.1							
714.cpython_r	16	183	41.9	<b>183</b>	<b>41.9</b>	183	41.9							
721.gcc_r	16	314	34.9	313	35.1	<b>314</b>	<b>35.0</b>							
723.llvm_r	16	<b>198</b>	<b>41.0</b>	198	41.0	197	41.2							
727.cppcheck_r	16	147	39.1	<b>147</b>	<b>39.1</b>	147	39.0							
729.abc_r	16	224	32.8	<b>224</b>	<b>32.8</b>	225	32.7							
734.vpr_r	16	183	40.2	186	39.7	<b>185</b>	<b>39.8</b>							
735.gem5_r	16	164	47.6	<b>165</b>	<b>47.3</b>	165	47.3							
750.sealcrypto_r	16	124	69.1	<b>124</b>	<b>69.0</b>	125	68.4							
753.ns3_r	16	<b>158</b>	<b>62.0</b>	158	62.0	158	61.9							
777.zstd_r	16	365	28.2	<b>366</b>	<b>28.2</b>	366	28.1							

SPECrate®2026\_int\_base = 43.1

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

## Submit Notes

The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset 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"  
MALLOCONF = "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

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## General Notes (Continued)

Prior to runcpu invocation  
Filesystem page cache synced and cleared with:  
sync; echo 3> /proc/sys/vm/drop\_caches

## Platform Notes

BIOS Settings:  
Fan Control = Full  
Total Memory Encryption = Disabled

Sysinfo program /home/benchmark/cpu2026/bin/sysinfo  
Rev: 779ab21020787073335a329f3a45e2cd  
running on localhost Thu May 28 18:27:26 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 (254.10+suse.84.ge8d77af424)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
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  
-----

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## Platform Notes (Continued)

Linux 6.4.0-150600.21-default #1 SMP PREEMPT\_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86\_64

2. w

```

18:27:26 up 5:36, 2 users, load average: 4.09, 12.06, 14.50
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU WHAT
root      tty1     -             12:52      5:13m      1.19s     0.12s -bash
root      tty2     -             17:44      43:18      0.02s     0.02s -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) 254378
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) 254378
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 16 -c
ic2026.0-core-avx2-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=8 --define
physicallogical --define no-numa --tune base -o all --define drop_caches -n 3 intrate
runcpu --nobuild --action validate --define default-platform-flags --copies 16 --configfile
ic2026.0-core-avx2-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=8 --define
physicallogical --define no-numa --tune base --output_format all --define drop_caches --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

```

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## Platform Notes (Continued)

\$SPEC = /home/benchmark/cpu2026

### 6. /proc/cpuinfo

```

model name      : Intel(R) Xeon(R) 6369P
vendor_id       : GenuineIntel
cpu family      : 6
model           : 183
stepping        : 1
microcode       : 0x133
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb bhi
cpu cores       : 8
siblings        : 16
1 physical ids (chips)
16 processors (hardware threads)
physical id 0: core ids 0-7
physical id 0: apicids 0-15

```

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 2.39.3:

```

Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         46 bits physical, 48 bits virtual
Byte Order:            Little Endian
CPU(s):                16
On-line CPU(s) list:   0-15
Vendor ID:             GenuineIntel
BIOS Vendor ID:       Intel(R) Corporation
Model name:            Intel(R) Xeon(R) 6369P
BIOS Model name:       Intel(R) Xeon(R) 6369P   CPU @ 5.2GHz
BIOS CPU family:       179
CPU family:            6
Model:                 183
Thread(s) per core:    2
Core(s) per socket:    8
Socket(s):             1
Stepping:              1
CPU(s) scaling MHz:    22%
CPU max MHz:           5700.0000
CPU min MHz:           800.0000
BogoMIPS:              6604.80

```

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

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## Platform Notes (Continued)

```

pdpelgb 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 sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb ssbd
ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad
fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdseed adx smap
clflushopt clwb intel_pt sha_ni xsaveopt xsavec xgetbv1 xsaves
split_lock_detect user_shstk avx_vnni dtherm ida arat pln pts hwp
hwp_notify hwp_act_window hwp_epp hwp_pkg_req hfi vmmi umip pku ospke
waitpkg gfni vaes vpclmulqdq tme rdpid movdiri movdir64b fsrm
md_clear serialize pconfig arch_lbr ibt flush_l1d arch_capabilities

```

```

Virtualization: VT-x
L1d cache: 384 KiB (8 instances)
L1i cache: 256 KiB (8 instances)
L2 cache: 16 MiB (8 instances)
L3 cache: 24 MiB (1 instance)
NUMA node(s): 1
NUMA node0 CPU(s): 0-15
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/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling;
PBR SB-eIBRS SW sequence; 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	384K	12	Data	1	64	1	64
L1i	32K	256K	8	Instruction	1	64	1	64
L2	2M	16M	16	Unified	2	2048	1	64
L3	24M	24M	12	Unified	3	32768	1	64

8. `numactl --hardware`

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

```

available: 1 nodes (0)
node 0 cpus: 0-15

```

(Continued on next page)



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## Platform Notes (Continued)

```
node 0 size: 63620 MB
node 0 free: 62778 MB
node distances:
node 0
0: 10
```

```
-----
9. /proc/meminfo
   MemTotal:          65147468 kB
```

```
-----
10. who -r
    run-level 3 May 28 12:51
```

```
-----
11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
    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 lvm2-monitor postfix
                    purge-kernels rollback sep5 sshd systemd-pstore tuned wicked wickedd-auto4 wickedd-dhcp4
                    wickedd-dhcp6 wickedd-nanny
    enabled-runtime systemd-remount-fs
    disabled        YaST2-Firstboot YaST2-Second-Stage autofs autoyast-initscripts blk-availability
                    boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed
                    debug-shell display-manager ebttables exchange-bmc-os-info firewalld fsidd gpm grub2-once
                    haveged ipmi ipmievd issue-add-ssh-keys kdump kdump-early kdump-notify kexec-load klog
                    lunmask man-db-create multipathd nfs nfs-blkmap nscd rpcbind rpmconfigcheck rsyncd rsyslog
                    serial-getty@ smartd smartd_generate_opts snmpd snmptrapd systemd-boot-check-no-failures
                    systemd-confext systemd-network-generator systemd-sysexit systemd-time-wait-sync
                    systemd-timesyncd vncserver@
    indirect        systemd-userdbd wickedd
```

```
-----
13. Linux kernel boot-time arguments, from /proc/cmdline
    BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default
    root=UUID=69cd5337-d082-4cee-8e02-ec4054c30a5a
    splash=silent
    resume=/dev/disk/by-uuid/a5855c9d-a4a0-4b74-baec-bd075bde416b
    quiet
    security=apparmor
    crashkernel=347M,high
    crashkernel=72M,low
    mitigations=auto
```

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## Platform Notes (Continued)

-----  
14. cpupower frequency-info

analyzing CPU 6:

current policy: frequency should be within 800 MHz and 5.50 GHz.

The governor "powersave" may decide which speed to use within this range.

boost state support:

Supported: yes

Active: yes

-----  
15. tuned-adm active

Current active profile: balanced

-----  
16. 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
vm.watermark_scale_factor	10
vm.zone_reclaim_mode	0

-----  
17. /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

-----  
18. /sys/kernel/mm/transparent\_hugepage/khugepaged

alloc\_sleep\_millisecs 60000

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## Platform Notes (Continued)

```

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 SP6

```

### 20. Disk information

```

SPEC is set to: /home/benchmark/cpu2026
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sda5       xfs   751G  71G  681G  10% /home

```

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

```

Vendor:          FUJITSU
Product:         PRIMERGY RX1330 M6
Product Family: SERVER
Serial:          xxxxxxxxxxxx

```

### 22. dmidecode

Additional information from dmidecode 3.4 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:

2x Samsung M324R4GA3BB0-CQKOL 32 GB 2 rank 4800, configured at 4400

### 23. BIOS

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

```

BIOS Vendor:      FUJITSU // American Megatrends International, LLC.
BIOS Version:     V5.0.0.32 R2.6.0 for D4133-A1x
BIOS Date:        04/23/2026
BIOS Revision:    2.6

```



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## 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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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  
-xCORE-AVX2 -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

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## Base Optimization Flags (Continued)

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xCORE-AVX2 -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 -xCORE-AVX2 -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/Fujitsu-Platform-Settings-V1.0-RPL-R-RevA.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/Fujitsu-Platform-Settings-V1.0-RPL-R-RevA.xml>

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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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