



# SPEC CPU®2026 Integer Rate Result

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Fsas Technologies Inc.

(Test Sponsor: Fujitsu)

PRIMERGY RX1330 M6,  
Intel Xeon 6333P, 3.1 GHz

SPECrate®2026\_int\_base = 30.1

SPECrate®2026\_int\_peak = Not Run

CPU2026 License: 19

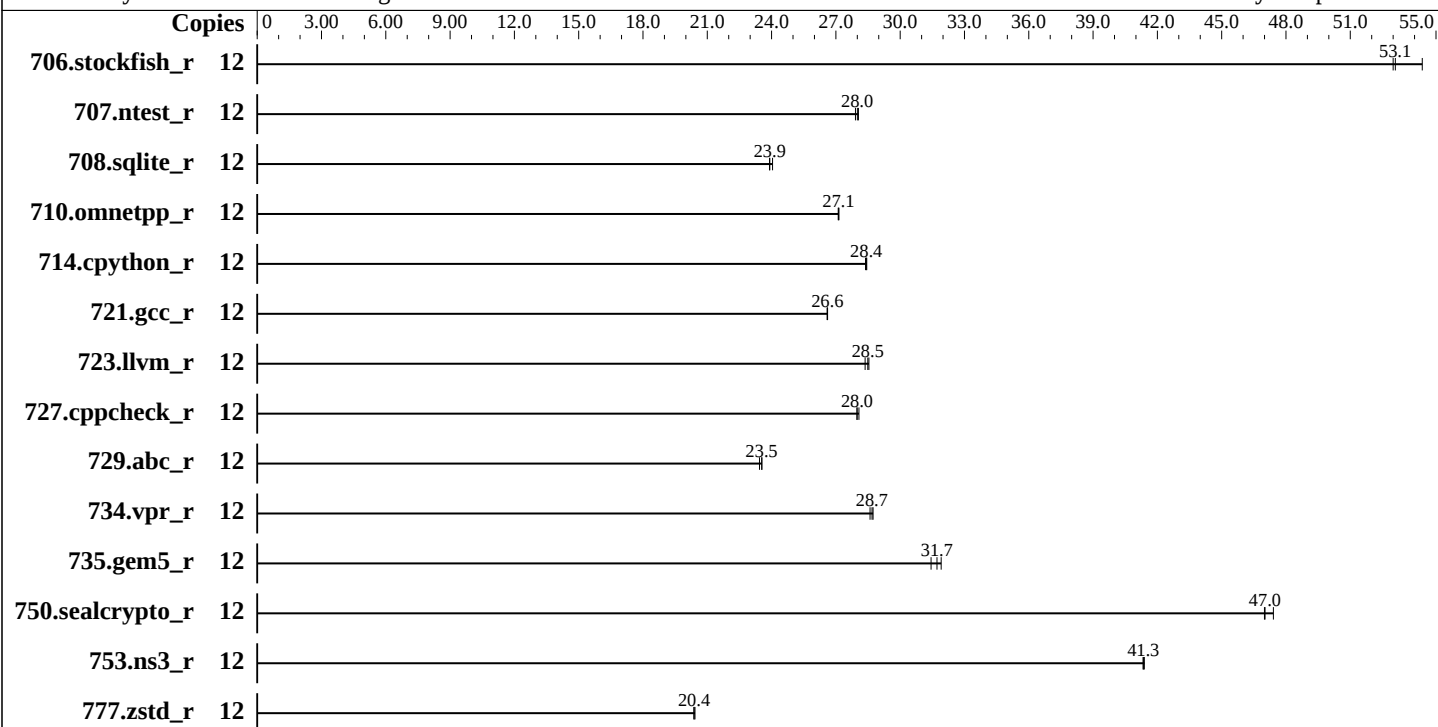
Test Sponsor: Fujitsu

Tested by: Fsas Technologies Inc.

Test Date: Jun-2026

Hardware Availability: Apr-2025

Software Availability: Apr-2026



## Hardware

CPU Name: Xeon 6333P  
Max MHz: 4700  
Nominal: 3100  
Enabled: 6 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: 18 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  | 12     | 278        | 54.4        | <b>285</b> | <b>53.1</b> | 285        | 53.0        |        |         |       |         |       |         |       |
| 707.ntest_r      | 12     | 255        | 27.9        | <b>254</b> | <b>28.0</b> | 253        | 28.1        |        |         |       |         |       |         |       |
| 708.sqlite_r     | 12     | <b>265</b> | <b>23.9</b> | 264        | 24.0        | 265        | 23.9        |        |         |       |         |       |         |       |
| 710.omnetpp_r    | 12     | 215        | 27.1        | <b>215</b> | <b>27.1</b> | 215        | 27.1        |        |         |       |         |       |         |       |
| 714.cpython_r    | 12     | <b>202</b> | <b>28.4</b> | 202        | 28.4        | 203        | 28.4        |        |         |       |         |       |         |       |
| 721.gcc_r        | 12     | <b>309</b> | <b>26.6</b> | 310        | 26.6        | 309        | 26.6        |        |         |       |         |       |         |       |
| 723.llvm_r       | 12     | 213        | 28.5        | <b>214</b> | <b>28.5</b> | 214        | 28.4        |        |         |       |         |       |         |       |
| 727.cppcheck_r   | 12     | 154        | 28.0        | 153        | 28.1        | <b>154</b> | <b>28.0</b> |        |         |       |         |       |         |       |
| 729.abc_r        | 12     | <b>234</b> | <b>23.5</b> | 235        | 23.4        | 234        | 23.5        |        |         |       |         |       |         |       |
| 734.vpr_r        | 12     | <b>193</b> | <b>28.7</b> | 193        | 28.7        | 193        | 28.6        |        |         |       |         |       |         |       |
| 735.gem5_r       | 12     | <b>184</b> | <b>31.7</b> | 186        | 31.4        | 183        | 31.9        |        |         |       |         |       |         |       |
| 750.sealcrypto_r | 12     | 137        | 47.0        | 136        | 47.4        | <b>137</b> | <b>47.0</b> |        |         |       |         |       |         |       |
| 753.ns3_r        | 12     | <b>178</b> | <b>41.3</b> | 178        | 41.4        | 178        | 41.3        |        |         |       |         |       |         |       |
| 777.zstd_r       | 12     | 378        | 20.4        | 379        | 20.4        | <b>379</b> | <b>20.4</b> |        |         |       |         |       |         |       |

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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"  
tuned-adm was set to balanced using "tuned-adm profile balanced"

## 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.

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## General Notes (Continued)

Transparent Huge Pages enabled by default  
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 Tue Jun 9 09:45:52 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
- -----

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## Platform Notes (Continued)

### 1. uname -srvnm

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

### 2. w

```
09:45:52 up 4 min,  1 user,  load average: 0.02, 0.10, 0.06
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
root      tty1      -               09:42    8.00s  0.95s  0.03s -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) 254382
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) 254382
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 12 -c
ic2026.0-core-avx2-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=6 --define
physicallogical --define no-numa --tune base -o all --define drop_caches -n 3 intrate
runcpu --nobuild --action validate --define default-platform-flags --copies 12 --configfile
ic2026.0-core-avx2-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=6 --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/templots/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) 6333P
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       : 6
siblings        : 12
1 physical ids (chips)
12 processors (hardware threads)
physical id 0: core ids 0-5
physical id 0: apicids 0-11
```

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):            12
On-line CPU(s) list: 0-11
Vendor ID:          GenuineIntel
BIOS Vendor ID:     Intel(R) Corporation
Model name:         Intel(R) Xeon(R) 6333P
BIOS Model name:    Intel(R) Xeon(R) 6333P   CPU @ 4.5GHz
BIOS CPU family:    179
CPU family:         6
Model:              183
Thread(s) per core: 2
Core(s) per socket: 6
Socket(s):          1
Stepping:           1
CPU(s) scaling MHz: 29%
CPU max MHz:        5200.0000
CPU min MHz:        800.0000
BogoMIPS:           6220.80
```

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)

pdpe1gb 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 vnmi 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:

288 KiB (6 instances)

L1i cache:

192 KiB (6 instances)

L2 cache:

12 MiB (6 instances)

L3 cache:

18 MiB (1 instance)

NUMA node(s):

1

NUMA node0 CPU(s):

0-11

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;

PBRSB-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      | 288K     | 12   | Data        | 1     | 64    | 1        | 64             |
| L1i  | 32K      | 192K     | 8    | Instruction | 1     | 64    | 1        | 64             |
| L2   | 2M       | 12M      | 16   | Unified     | 2     | 2048  | 1        | 64             |
| L3   | 18M      | 18M      | 9    | 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: 0-11

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## Platform Notes (Continued)

node 0 size: 63621 MB

node 0 free: 62964 MB

node distances:

node 0

0: 10

-----  
9. /proc/meminfo

MemTotal: 65148548 kB

-----  
10. who -r

run-level 3 Jun 9 09:42

-----  
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 ipmievdd issue-add-ssh-keys kdump kdump-early kdump-notify kexec-load klog  
lunmask man-db-create multipathd nfs nfs-blkmap nsd rpcbind rpmconfigcheck rsyncd rsyslog  
serial-getty@ smartd smartd\_generate\_opts snmpd snmptrapd systemd-boot-check-no-failures  
systemd-confext systemd-network-generator systemd-sysextd 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 4:

current policy: frequency should be within 800 MHz and 5.20 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+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

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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: xxxxxxxxxx

### 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-CQK0L 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,  
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  
-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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# SPEC CPU®2026 Integer Rate Result

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**Fsas Technologies Inc.**

(Test Sponsor: Fujitsu)

PRIMERGY RX1330 M6,  
Intel Xeon 6333P, 3.1 GHz

SPECrate®2026\_int\_base = 30.1

SPECrate®2026\_int\_peak = Not Run

**CPU2026 License:** 19

**Test Sponsor:** Fujitsu

**Tested by:** Fsas Technologies Inc.

**Test Date:** Jun-2026

**Hardware Availability:** Apr-2025

**Software Availability:** Apr-2026

## 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-ic2026-official-linux64-v1.1.html>

<http://www.spec.org/cpu2026/results/flags/Fsas-Platform-Settings-V1.0-RPL-R-RevB.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/Fsas-Platform-Settings-V1.0-RPL-R-RevB.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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