



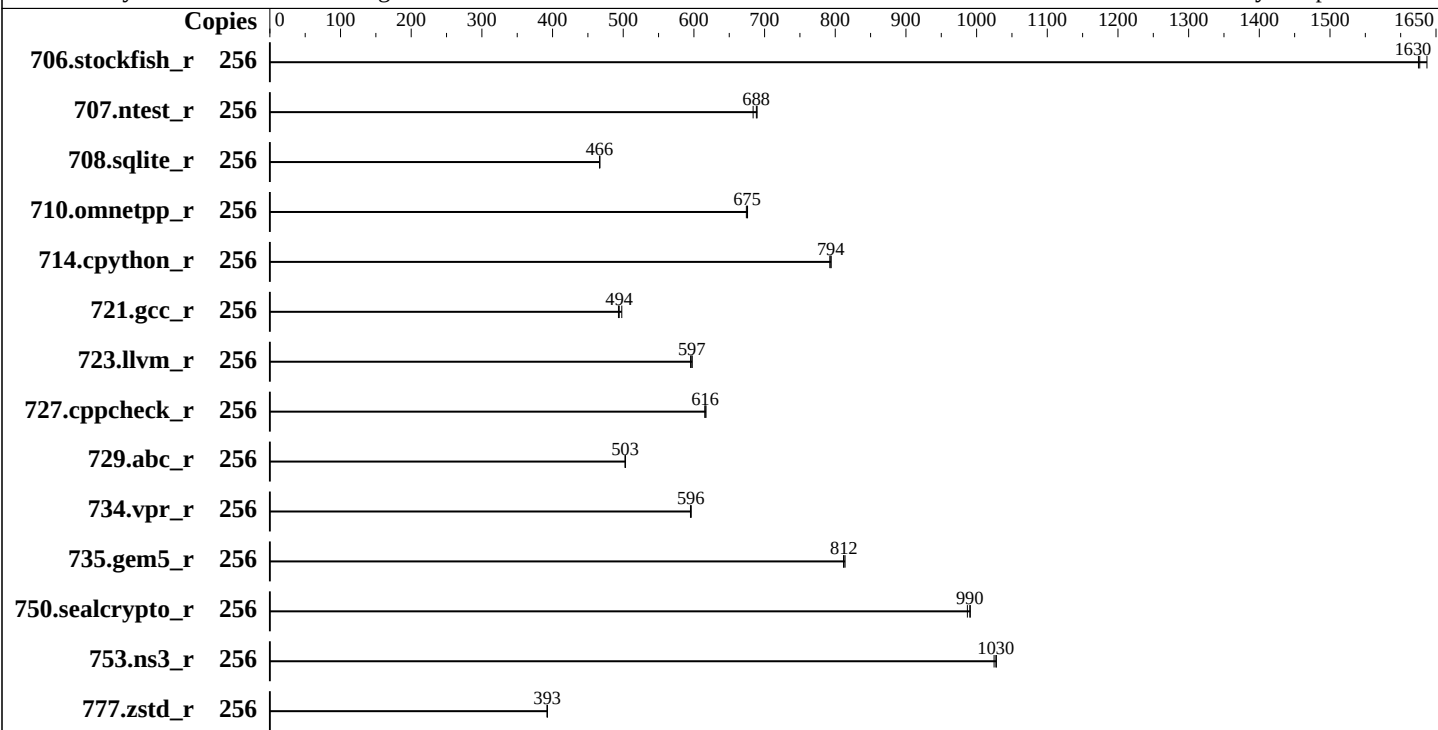
SPEC

SPEC CPU®2026 Integer Rate Result

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Fsas Technologies Inc.

(Test Sponsor: Fujitsu)

**PRIMERGY RX4770 M8, Intel Xeon 6738P,
2.90GHz****SPECrate®2026_int_base = 684****SPECrate®2026_int_peak = Not Run****CPU2026 License:** 19**Test Sponsor:** Fujitsu**Tested by:** Fsas Technologies Inc.**Test Date:** Jun-2026**Hardware Availability:** Dec-2025**Software Availability:** Apr-2026

Hardware

CPU Name: Intel Xeon 6738P
Max MHz: 4200
Nominal: 2900
Enabled: 128 cores, 4 chips, 2 threads/core
Orderable: 2,4 chips
Cache L1: 64 KB I + 48 KB D on chip per core
L2: 2 MB I+D on chip per core
L3: 144 MB I+D on chip per chip
Other: None
Memory: 2 TB (32 x 64 GB 2Rx4 PC5-6400B-R)
Storage: 1 x PCIe SSD, 1.92 TB
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
R1.3.0 for D4136-A1x. Released Apr-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	256	197	1640	198	1630	<u>198</u>	<u>1630</u>							
707.ntest_r	256	220	689	<u>220</u>	<u>688</u>	222	684							
708.sqlite_r	256	<u>290</u>	<u>466</u>	290	466	289	467							
710.omnetpp_r	256	184	676	185	674	<u>184</u>	<u>675</u>							
714.cpython_r	256	<u>154</u>	<u>794</u>	155	792	154	794							
721.gcc_r	256	353	498	<u>355</u>	<u>494</u>	356	493							
723.llvm_r	256	218	595	217	597	<u>217</u>	<u>597</u>							
727.cppcheck_r	256	149	615	<u>149</u>	<u>616</u>	149	617							
729.abc_r	256	234	503	234	503	<u>234</u>	<u>503</u>							
734.vpr_r	256	198	595	<u>198</u>	<u>596</u>	198	596							
735.gem5_r	256	<u>153</u>	<u>812</u>	154	812	153	814							
750.sealcrypto_r	256	<u>139</u>	<u>990</u>	139	987	138	991							
753.ns3_r	256	153	1020	153	1030	<u>153</u>	<u>1030</u>							
777.zstd_r	256	420	392	420	393	<u>420</u>	<u>393</u>							

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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

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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

CPU Performance Boost = Aggressive

UPI Link Frequency Select = 16.0GT/s

BIOS Date reported by dmidecode represents the internal BIOS build date.

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

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Sat Jun 27 07:27:55 2026

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

----- Table of contents -----

1. uname -srv
 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
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Platform Notes (Continued)

1. `uname -srv`

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

2. `w`

```
07:27:55 up 5:38, 1 user, load average: 16.18, 143.93, 204.77
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU   WHAT
root      tty1      -               01:51    5:35m  2.43s  0.93s  -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) 8255111
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) 8255111
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 256 -c
ic2026.0-graniterapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=128 --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 256 --configfile
ic2026.0-graniterapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=128 --define
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
```

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Platform Notes (Continued)

```
--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) 6738P
vendor_id       : GenuineIntel
cpu family      : 6
model           : 173
stepping        : 1
microcode       : 0x1000405
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores       : 32
siblings        : 64
4 physical ids (chips)
256 processors (hardware threads)
physical id 0:  core ids 0-31
physical id 1:  core ids 0-31
physical id 2:  core ids 0-31
physical id 3:  core ids 0-31
physical id 0:  apicids 0-63
physical id 1:  apicids 128-191
physical id 2:  apicids 256-319
physical id 3:  apicids 384-447
```

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):                 256
On-line CPU(s) list:    0-255
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) 6738P
CPU family:             6
Model:                  173
Thread(s) per core:     2
Core(s) per socket:     32
Socket(s):              4
Stepping:               1
CPU(s) scaling MHz:     20%
```

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Platform Notes (Continued)

CPU max MHz: 4200.0000

CPU min MHz: 800.0000

BogoMIPS: 5800.00

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 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 vnmi 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_l1d

arch_capabilities

Virtualization: VT-x

L1d cache: 6 MiB (128 instances)

L1i cache: 8 MiB (128 instances)

L2 cache: 256 MiB (128 instances)

L3 cache: 576 MiB (4 instances)

NUMA node(s): 4

NUMA node0 CPU(s): 0-31,128-159

NUMA node1 CPU(s): 32-63,160-191

NUMA node2 CPU(s): 64-95,192-223

NUMA node3 CPU(s): 96-127,224-255

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;
PBRSE-eIBRS Not affected; BHI BHI_DIS_S

Vulnerability Srbds: Not affected

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Platform Notes (Continued)

Vulnerability Tsx async abort: Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	6M	12	Data	1	64	1	64
L1i	64K	8M	16	Instruction	1	64	1	64
L2	2M	256M	16	Unified	2	2048	1	64
L3	144M	576M	16	Unified	3	147456	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: 0-31,128-159
node 0 size: 515683 MB
node 0 free: 513685 MB
node 1 cpus: 32-63,160-191
node 1 size: 516040 MB
node 1 free: 514292 MB
node 2 cpus: 64-95,192-223
node 2 size: 516078 MB
node 2 free: 514223 MB
node 3 cpus: 96-127,224-255
node 3 size: 516001 MB
node 3 free: 514085 MB
node distances:
node  0  1  2  3
 0:  10  21  21  21
 1:  21  10  21  21
 2:  21  21  10  21
 3:  21  21  21  10
```

9. /proc/meminfo

MemTotal: 2113336028 kB

10. who -r

run-level 3 Jun 27 01:50

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

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Platform Notes (Continued)

STATE	UNIT FILES
enabled	YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager getty@ irqbalance issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections nvmf-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 ipmievdev 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=2066019a-dbc1-4a27-addf-ad53fb60bbb7  
splash=silent  
quiet  
security=apparmor  
mitigations=auto
```

14. cpupower frequency-info

```
analyzing CPU 112:  
  current policy: frequency should be within 800 MHz and 4.20 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

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Platform Notes (Continued)

```
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
```

16. /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
```

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/nvme0n1p3 xfs   852G   72G   780G   9% /home
```

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

```
Vendor:      Fsas Technologies
Product:     PRIMERGY RX4770 M8
Product Family: SERVER
Serial:      xxxxxxxxxx
```

21. dmidecode

Additional information from dmidecode 3.6 follows. WARNING: Use caution when you interpret this section.

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Platform Notes (Continued)

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:

32x Micron MTC40F2046S1RC64BD2 MWFF 64 GB 2 rank 6400

22. BIOS

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

BIOS Vendor: Fsas Technologies

BIOS Version: V1.0.0.0 R1.3.0 for D4136-A1x

BIOS Date: 03/13/2026

BIOS Revision: 1.3

Firmware Revision: 3.13

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

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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 -lqkmallo

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 -lqkmallo

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 -lqkmallo

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-GNR-RevC.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-GNR-RevC.xml>



SPEC CPU®2026 Integer Rate Result

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(Test Sponsor: Fujitsu)

PRIMERGY RX4770 M8, Intel Xeon 6738P,
2.90GHz

SPECrate®2026_int_base = 684

SPECrate®2026_int_peak = Not Run

CPU2026 License: 19

Test Sponsor: Fujitsu

Tested by: Fsas Technologies Inc.

Test Date: Jun-2026

Hardware Availability: Dec-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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