



# SPEC CPU®2017 Integer Rate Result

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**Fsas Technologies Inc.**

(Test Sponsor: Fujitsu)

**SPECrate®2017\_int\_base = 595**

**PRIMERGY RX2530 M8, Intel Xeon 6527P, 3.00GHz**

**SPECrate®2017\_int\_peak = Not Run**

**CPU2017 License:** 19

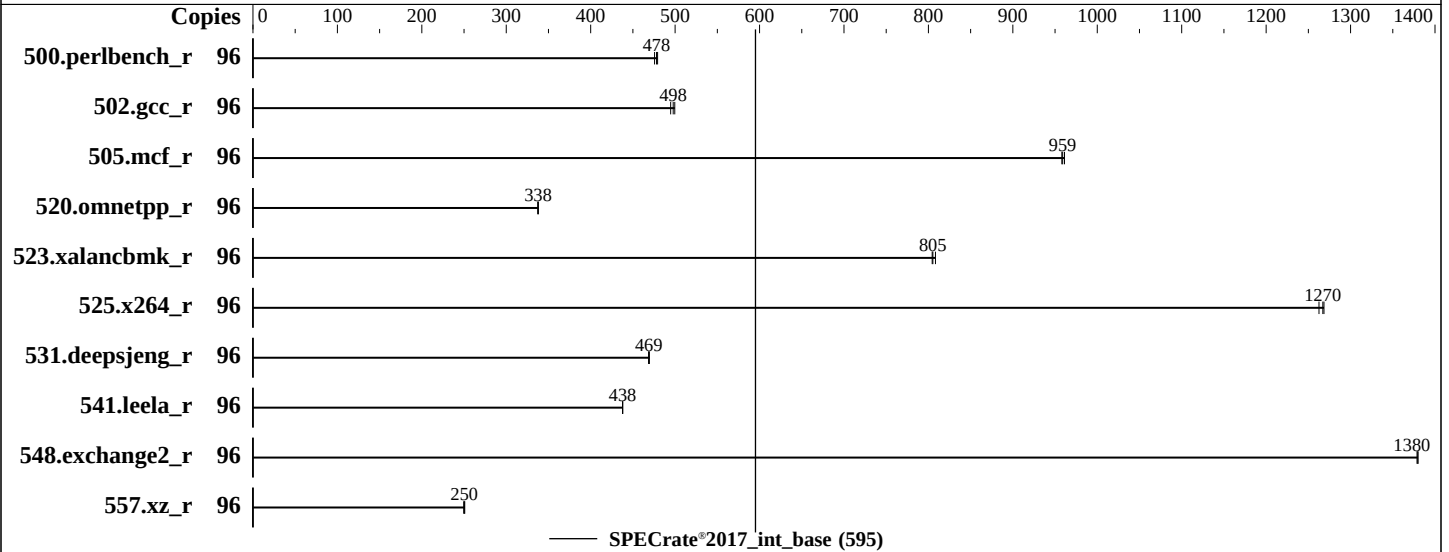
**Test Sponsor:** Fujitsu

**Tested by:** Fsas Technologies Inc.

**Test Date:** Oct-2025

**Hardware Availability:** Oct-2025

**Software Availability:** Jun-2025



## Hardware

CPU Name: Intel Xeon 6527P  
Max MHz: 4200  
Nominal: 3000  
Enabled: 48 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: 144 MB I+D on chip per chip  
Other: None  
Memory: 512 GB (16 x 32 GB 2Rx8 PC5-6400B-R)  
Storage: 1 x SSD PCIe M.2, 960GB  
Other: CPU Cooling: Air

## Software

OS: SUSE Linux Enterprise Server 15 SP7  
6.4.0-150700.51-default  
Compiler: C/C++: Version 2024.1 of Intel oneAPI DPC++/C++  
Compiler for Linux;  
Fortran: Version 2024.1 of Intel Fortran  
Compiler for Linux;  
Parallel: No  
Firmware: Fsas Technologies Inc. BIOS Version V1.0.0.0  
R1.1.0 for D4134-A1x. Released Oct-2025  
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 |
| 500.perlbench_r | 96     | 321        | 476         | <b>320</b> | <b>478</b> | 319        | 479        |        |         |       |         |       |         |       |
| 502.gcc_r       | 96     | <b>273</b> | <b>498</b>  | 272        | 500        | 275        | 495        |        |         |       |         |       |         |       |
| 505.mcf_r       | 96     | 161        | 961         | 162        | 958        | <b>162</b> | <b>959</b> |        |         |       |         |       |         |       |
| 520.omnetpp_r   | 96     | 373        | 337         | <b>373</b> | <b>338</b> | 373        | 338        |        |         |       |         |       |         |       |
| 523.xalancbmk_r | 96     | 125        | 808         | <b>126</b> | <b>805</b> | 126        | 804        |        |         |       |         |       |         |       |
| 525.x264_r      | 96     | <b>133</b> | <b>1270</b> | 133        | 1260       | 133        | 1270       |        |         |       |         |       |         |       |
| 531.deepsjeng_r | 96     | 234        | 469         | <b>235</b> | <b>469</b> | 235        | 469        |        |         |       |         |       |         |       |
| 541.leela_r     | 96     | 363        | 438         | 363        | 438        | <b>363</b> | <b>438</b> |        |         |       |         |       |         |       |
| 548.exchange2_r | 96     | <b>182</b> | <b>1380</b> | 182        | 1380       | 182        | 1380       |        |         |       |         |       |         |       |
| 557.xz_r        | 96     | <b>414</b> | <b>250</b>  | 413        | 251        | 415        | 250        |        |         |       |         |       |         |       |

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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/speccpu-24.1/lib/intel64:/home/Benchmark/speccpu-24.1/lib/ia32:/home/Benchmark/speccp

u-24.1/je5.0.1-32"

MALLOC\_CONF = "retain:true"

## General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM

memory using Red Hat Enterprise Linux 8.4

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

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.

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## General Notes (Continued)

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:

Fan Control = Full

CPU Performance Boost = Aggressive

UPI Link Frequency Select = 16.0GT/s

APS rocketing = Enabled

Sysinfo program /home/Benchmark/speccpu-24.1/bin/sysinfo

Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197

running on localhost Sun Oct 5 18:15:50 2025

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

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

1. uname -a
  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
  22. BIOS
- 

-----  
1. uname -a  
Linux localhost 6.4.0-150700.51-default #1 SMP PREEMPT\_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611)  
x86\_64 x86\_64 x86\_64 GNU/Linux  
-----

-----  
2. w  
18:15:50 up 3 min, 1 user, load average: 0.11, 0.18, 0.08  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
root tty1 - 18:15 14.00s 1.18s 0.14s -bash  
-----

-----  
3. Username  
From environment variable \$USER: root  
-----

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## Platform Notes (Continued)

### 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) 2062363
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) 2062363
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 --define numcopies=96 -c
ic2024.1-lin-sapphirerapids-rate-20240308.cfg --define smt-on --define cores=48 --define physicalfirst
--define invoke_with_interleave --define drop_caches --tune base -o all intrate
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=96 --configfile
ic2024.1-lin-sapphirerapids-rate-20240308.cfg --define smt-on --define cores=48 --define physicalfirst
--define invoke_with_interleave --define drop_caches --tune base --output_format all --nopower --runmode
rate --tune base --size refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2017.002/temlogs/preenv.intrate.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/Benchmark/speccpu-24.1
```

### 6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) 6527P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x10003c2
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores      : 24
siblings       : 48
2 physical ids (chips)
96 processors (hardware threads)
physical id 0: core ids 0-23
physical id 1: core ids 0-23
physical id 0: apicids 0-47
physical id 1: apicids 128-175
```

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:

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## Platform Notes (Continued)

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): 96  
On-line CPU(s) list: 0-95  
Vendor ID: GenuineIntel  
Model name: Intel(R) Xeon(R) 6527P  
CPU family: 6  
Model: 173  
Thread(s) per core: 2  
Core(s) per socket: 24  
Socket(s): 2  
Stepping: 1  
CPU(s) scaling MHz: 21%  
CPU max MHz: 4200.0000  
CPU min MHz: 800.0000  
BogoMIPS: 6000.00  
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: 2.3 MiB (48 instances)  
L1i cache: 3 MiB (48 instances)  
L2 cache: 96 MiB (48 instances)  
L3 cache: 288 MiB (2 instances)  
NUMA node(s): 2  
NUMA node0 CPU(s): 0-23,48-71  
NUMA node1 CPU(s): 24-47,72-95  
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-IBRS 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      | 2.3M     | 12   | Data        | 1     | 64     | 1        | 64             |
| L1i  | 64K      | 3M       | 16   | Instruction | 1     | 64     | 1        | 64             |
| L2   | 2M       | 96M      | 16   | Unified     | 2     | 2048   | 1        | 64             |
| L3   | 144M     | 288M     | 16   | Unified     | 3     | 147456 | 1        | 64             |

8. numactl --hardware

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

```
available: 2 nodes (0-1)
node 0 cpus: 0-23,48-71
node 0 size: 257604 MB
node 0 free: 256812 MB
node 1 cpus: 24-47,72-95
node 1 size: 258013 MB
node 1 free: 257198 MB
node distances:
node  0  1
 0:  10  21
 1:  21  10
```

9. /proc/meminfo

MemTotal: 527992652 kB

10. who -r

run-level 3 Oct 5 18:13

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 issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections nvmmf-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 firewallld 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 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-6.4.0-150700.51-default
root=UUID=2066019a-dbc1-4a27-addf-ad53fb60bbb7
splash=silent
quiet
```

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## Platform Notes (Continued)

security=apparmor  
mitigations=auto

### 14. cpupower frequency-info

analyzing CPU 86:

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   |
| 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+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/speccpu-24.1

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## Platform Notes (Continued)

| Filesystem     | Type | Size | Used | Avail | Use% | Mounted on |
|----------------|------|------|------|-------|------|------------|
| /dev/nvme0n1p3 | xfs  | 852G | 60G  | 792G  | 8%   | /home      |

-----  
20. /sys/devices/virtual/dmi/id  
Vendor: Fsas Technologies  
Product: PRIMERGY RX2530 M8  
Product Family: SERVER  
Serial: xxxxxxxxxx  
-----

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 "DMTF SMBIOS" standard.  
Memory:  
16x Micron MTC20F2085S1RC64BD2 MWFF 32 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 R1.1.0 for D4134-A1x  
BIOS Date: 09/05/2025  
BIOS Revision: 1.1  
Firmware Revision: 3.1  
-----

## Compiler Version Notes

=====

|   |  |                       |                 |                 |                  |                |
|---|--|-----------------------|-----------------|-----------------|------------------|----------------|
| C |  | 500.perlbench_r(base) | 502.gcc_r(base) | 505.mcf_r(base) | 525.x264_r(base) | 557.xz_r(base) |
|---|--|-----------------------|-----------------|-----------------|------------------|----------------|

-----

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2024.1.0 Build 20240308  
Copyright (C) 1985-2024 Intel Corporation. All rights reserved.  
-----

=====

|     |  |                     |                       |                       |                   |
|-----|--|---------------------|-----------------------|-----------------------|-------------------|
| C++ |  | 520.omnetpp_r(base) | 523.xalancbmk_r(base) | 531.deepsjeng_r(base) | 541.leela_r(base) |
|-----|--|---------------------|-----------------------|-----------------------|-------------------|

-----

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2024.1.0 Build 20240308  
Copyright (C) 1985-2024 Intel Corporation. All rights reserved.  
-----

=====

|         |  |                       |
|---------|--|-----------------------|
| Fortran |  | 548.exchange2_r(base) |
|---------|--|-----------------------|

-----

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2024.1.0 Build 20240308  
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-----

## Base Compiler Invocation

C benchmarks:  
icx

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Software Availability: Jun-2025

## Base Compiler Invocation (Continued)

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

## Base Portability Flags

500.perlbench\_r: -DSPEC\_LP64 -DSPEC\_LINUX\_X64  
502.gcc\_r: -DSPEC\_LP64  
505.mcf\_r: -DSPEC\_LP64  
520.omnetpp\_r: -DSPEC\_LP64  
523.xalancbmk\_r: -DSPEC\_LP64 -DSPEC\_LINUX  
525.x264\_r: -DSPEC\_LP64  
531.deepsjeng\_r: -DSPEC\_LP64  
541.leela\_r: -DSPEC\_LP64  
548.exchange2\_r: -DSPEC\_LP64  
557.xz\_r: -DSPEC\_LP64

## Base Optimization Flags

C benchmarks:

-w -std=c11 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math  
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-L/opt/intel/oneapi/compiler/2024.1/lib -lqkmalloc

C++ benchmarks:

-w -std=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math  
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-L/opt/intel/oneapi/compiler/2024.1/lib -lqkmalloc

Fortran benchmarks:

-w -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math -flto  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-nostandard-realloc-lhs -align array32byte -auto  
-L/opt/intel/oneapi/compiler/2024.1/lib -lqkmalloc



# SPEC CPU®2017 Integer Rate Result

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**Fsas Technologies Inc.**

(Test Sponsor: Fujitsu)

**SPECrate®2017\_int\_base = 595**

**PRIMERGY RX2530 M8, Intel Xeon 6527P, 3.00GHz**

**SPECrate®2017\_int\_peak = Not Run**

**CPU2017 License:** 19

**Test Sponsor:** Fujitsu

**Tested by:** Fsas Technologies Inc.

**Test Date:** Oct-2025

**Hardware Availability:** Oct-2025

**Software Availability:** Jun-2025

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

<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.html>

<http://www.spec.org/cpu2017/flags/Fsas-Platform-Settings-V1.0-GNR-RevA.html>

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

<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.xml>

<http://www.spec.org/cpu2017/flags/Fsas-Platform-Settings-V1.0-GNR-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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