---

**Fujitsu**

PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

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<tr>
<th>Copies</th>
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<th>SPECrate&lt;sup&gt;®&lt;/sup&gt;2017_int_peak</th>
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<td></td>
</tr>
<tr>
<td>64</td>
<td>160</td>
<td></td>
</tr>
</tbody>
</table>

**Hardware**

- **CPU Name:** Intel Xeon Gold 6526Y
- **Max MHz:** 3900
- **Nominal:** 2800
- **Enabled:** 32 cores, 2 chips, 2 threads/core
- **Orderable:** 1.2 chips
- **Cache L1:** 32 KB I + 48 KB D on chip per core
- **L2:** 2 MB I+D on chip per core
- **L3:** 37.5 MB I+D on chip per chip
- **Other:** None
- **Memory:** 1 TB (16 x 64 GB 2Rx4 PC5-5600B-R, running at 5200)
- **Storage:** 1 x SATA M.2, 960GB
- **Other:** CPU Cooling: Air

**Software**

- **OS:** SUSE Linux Enterprise Server 15 SP5 5.14.21-150500.53-default
- **Compiler:** C/C++: Version 2023.2.3 of Intel oneAPI DPC++/C++ Compiler for Linux;
  Fortran: Version 2023.2.3 of Intel Fortran Compiler for Linux;
- **Parallel:** No
- **Firmware:** Fujitsu BIOS Version V1.0.0.0 R2.4.0 for D3983-A1x. Released Apr-2024 tested as V1.0.0.0 R2.1.2 for D3983-A1x Dec-2023
- **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
---
SPEC CPU®2017 Integer Rate Result

Fujitsu
PRIMERGY RX2540 M7, Intel Xeon Gold 6256Y, 2.80GHz

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu
Test Date: May-2024
Hardware Availability: Apr-2024
Software Availability: Dec-2023

Results Table

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<td>433</td>
<td>160</td>
<td>431</td>
<td>160</td>
</tr>
</tbody>
</table>

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-23.2/lib/intel64:/home/benchmark/speccpu-23.2/lib/ia32:/home/benchmark/speccpu-23.2/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.

(Continued on next page)
# SPEC CPU®2017 Integer Rate Result

**Fujitsu**

PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

<table>
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<th>SPECrate®2017_int_base =</th>
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<tr>
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**CPU2017 License:** 19  
**Test Sponsor:** Fujitsu  
**Tested by:** Fujitsu  
**Test Date:** May-2024  
**Hardware Availability:** Apr-2024  
**Software Availability:** Dec-2023

---

## 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:**
- DCU Streamer Prefetcher = Disabled
- UPI Link Frequency Select = 14.4GT/s
- CPU Performance Boost = Aggressive
- SNC (Sub NUMA) = Enable SNC2
- Fan Control = Full
- HWPM Support = Disabled

SysInfo program /home/benchmark/speccpu-23.2/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b76d5c36ae2c92cc097bec197  
runtime on localhost Tue May 7 10:13:53 2024

**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`
11. `Systemd service manager version: systemd 249 (249.16+stable.71.gdad0071f15)`
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/phys`  
18. `OS release`
19. `Disk information`
20. `/sys/devices/virtual/dmi/id`
21. `dmidecode`
22. `BIOS`

---

1. `uname -a`  
   Linux localhost 5.14.21-150500.53-default #1 SMP PREEMPT_DYNAMIC Wed May 10 07:56:26 UTC 2023 (b630043)  
x86_64 x86_64 x86_64 GNU/Linux

---

2. `w`  
   10:13:53 up 2 min, 1 user, load average: 0.03, 0.05, 0.01  
   USER   TTY   FROM  LOGIN@  IDLE  JCPU  PCPU WHAT  
   root    tty1   -   10:11  9.00s  1.51s  0.14s -bash

---

3. `Username`  

(Continued on next page)

---

Page 3
Platform Notes (Continued)

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 (L) 4125071
   max locked memory (kbytes, -l) 64
   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) 4125071
   virtual memory (kbytes, -v) unlimited
   file locks (-x) unlimited

5. sysinfo process ancestry
   /usr/lib/systemd/systemd --switched-root --system --deserialize 30
   login -- root
   -bash
   -bash
   runcpu --nobuild --action validate --define default-platform-flags --define numcopies=64 -c ic2023.2.3-lin-sapphirerapids-rate-20231121.cfg --define smt-on --define cores=32 --define physicalfirst
   --define invoke_with_interleave --define drop_caches --tune base -o all intrate
   runcpu --nobuild --action validate --define default-platform-flags --define numcopies=64 --configfile ic2023.2.3-lin-sapphirerapids-rate-20231121.cfg --define smt-on --define cores=32 --define physicalfirst
   --define invoke_with_interleave --define drop_caches --tune base --output_format all --nopower --runmode
   rate --tune base --size rate intrate --nopreenv --note-prenv --logfile
   $SPEC/tmp/CPU2017.001/templogs/preenv.intrate.001.0.log --lognum 001.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
   $SPEC = /home/benchmark/speccpu-23.2

6. /proc/cpuinfo
   model name : INTEL(R) XEON(R) GOLD 6526Y
   vendor_id : GenuineIntel
   cpu family : 6
   model : 207
   stepping : 2
   microcode : 0x210001a0
   bugs : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb
   cpu cores : 16
   siblings : 32
   2 physical ids (chips)
   64 processors (hardware threads)
   physical id 0: core ids 0-15
   physical id 1: core ids 0-15
   physical id 0: apicids 0-31
   physical id 1: apicids 128-159
   Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

(Continued on next page)
Fujitsu
PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu

SPECrate®2017_int_base = 338
SPECrate®2017_int_peak = Not Run

Platform Notes (Continued)

From lscpu from util-linux 2.37.4:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 46 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 64
On-line CPU(s) list: 0-63
Vendor ID: GenuineIntel
Model name: INTEL(R) XEON(R) GOLD 6526Y
CPU family: 6
Model: 207
Thread(s) per core: 2
Core(s) per socket: 16
Socket(s): 2
Stepping: 2
Frequency boost: enabled
CPU max MHz: 2801.000
CPU min MHz: 800.000
BogoMIPS: 5600.00
Flags: fpu vme de 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 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 3nowprefetch cpuid_fault ebpx cat_13 cat_12 cdp_13 invpcid_single cdp_12 ssbd mba ibrs ibpb ibrs enhanced tpr_shadow virtual flexpriority ept vpid ept_ad fastraise tsc_adjust bni hle avx2 smep bmi2 rni invpcid rdmsk rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology
Virtualization: VT-x
L1d cache: 1.5 MiB (32 instances)
L1i cache: 1 MiB (32 instances)
L2 cache: 64 MiB (32 instances)
L3 cache: 75 MiB (2 instances)
NUMA node(s): 4
NUMA node0 CPU(s): 0-7,32-39
NUMA node1 CPU(s): 8-15,40-47
NUMA node2 CPU(s): 16-23,48-55
NUMA node3 CPU(s): 24-31,56-63
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mdse: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swappgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling, PBRSB-efIBRS SW sequence
Vulnerability Srbd: Not affected
Vulnerability Tsx async abort: Not affected

(Continued on next page)
SPEC CPU®2017 Integer Rate Result

Fujitsu
PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu

SPECrate®2017_int_base = 338
SPECrate®2017_int_peak = Not Run

Test Date: May-2024
Hardware Availability: Apr-2024
Software Availability: Dec-2023

Platform Notes (Continued)

From lscpu --cache:

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<td>37.5M</td>
<td>75M</td>
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<td>3</td>
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</tr>
</tbody>
</table>

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

available: 4 nodes (0-3)

node 0 cpus: 0-7,32-39
node 0 size: 257588 MB
node 0 free: 255990 MB
node 1 cpus: 8-15,40-47
node 1 size: 258043 MB
node 1 free: 257593 MB
node 2 cpus: 16-23,48-55
node 2 size: 258043 MB
node 2 free: 257583 MB
node 3 cpus: 24-31,56-63
node 3 size: 257621 MB
node 3 free: 257134 MB

default Target Status
multi-user running

9. /proc/meminfo

MemTotal: 1056048992 kB

10. who -r
run-level 3 May 7 10:11

11. Systemd service manager version: systemd 249 (249.16+suse.171.gdad0071f15)

12. Services, from systemctl list-unit-files

STATE UNIT FILES
enabled YaST2-Firstboot YaST2-Second-Stage apparmor appstream-sync-cache auditd bluetooth cron
display-manager getty@ irqbalance issue-generator kbdsettings kdump kdump-early klog
lvm2-monitor nscd postfix purge-kernels rollback rsyslog seps smartd sshd systemd-pstore
wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny

disabled-runtime systemctl-remount-fs

disabled accounts-daemon autofs autoyast- initscripts blk-availability bluetooth-mesh boot-sysctl
certificates chrony-wait chronyd console-getty cups cups-browsed debug-shell ebtables
echange-bmc-os-info firewalld gpm grub2-once havedeg haviged-switch-root ipmi ipmiwatch
issue-add-ssh-keys kexec-load lvmmask man-db create multipathd nfs nfs-blkmap nm
ostree-remount rpcbind rpmconfigcheck rsyncd rtkit-daemon serial-getty
smartd_generate_opts smb snmpd snmptrapd speech-dispatcher systemd-boot-check-no-failures
systemd-network-generator systemd-systime systemd-time-sync systemd-timesyncd udisks2

indirect update-system-flatpaks upower vncserver@
wickedd

(Continued on next page)
Platform Notes (Continued)

13. Linux kernel boot-time arguments, from /proc/cmdline
   root=UUID=d177d129-775e-44ff-bf2a-8f0e7a7a7b1b
   splash=silent
   quiet
   security=apparmor
   crashkernel=401M,high
   crashkernel=72M,low
   mitigations=auto

14. cpupower frequency-info
   analyzing CPU 0:
   current policy: frequency should be within 800 MHz and 2.80 GHz.
   The governor "ondemand" 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.mnr_hugepages                  0
   vm.mnr_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

(Continued on next page)
Fujitsu
PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

**SPECrate®2017_int_base = 338**

**SPECrate®2017_int_peak = Not Run**

**Platform Notes (Continued)**

18. OS release
   From /etc/*-release /etc/*-version
   os-release SUSE Linux Enterprise Server 15 SP5

19. Disk information
   SPEC is set to: /home/benchmark/speccpu-23.2
   Filesystem Type Size Used Avail Use% Mounted on
   /dev/sda2 btrfs 892G 68G 824G 8% /home

20. /sys/devices/virtual/dmi/id
   Vendor: FUJITSU
   Product: PRIMERGY RX2540 M7
   Product Family: SERVER
   Serial: EWCEXXXXXX

21. 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:
   16x Hynix HMCG94AGBRA181N 64 GB 2 rank 5600, configured at 5200

22. BIOS
   (This section combines info from /sys/devices and dmidecode.)
   BIOS Vendor: FUJITSU
   BIOS Version: V1.0.0.0 R2.1.2 for D3983-A1x
   BIOS Date: 12/21/2023
   BIOS Revision: 2.1
   Firmware Revision: 2.36

**Compiler Version Notes**

<table>
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<tr>
<th>C</th>
<th>500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)</th>
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<td>Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x Copyright (C) 1985-2023 Intel Corporation. All rights reserved.</td>
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Fujitsu
PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

SPECraten®2017_int_base = 338
SPECraten®2017_int_peak = Not Run

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu

Compiler Version Notes (Continued)

Base Compiler Invocation

C benchmarks:
icx

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.zx_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/home/specdev/new_compilers/ic2023.2.3/compiler/lib/intel64_lin
-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/home/specdev/new_compilers/ic2023.2.3/compiler/lib/intel64_lin
-lqkmalloc

Fortran benchmarks:
-w -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math -flto

(Continued on next page)
SPEC CPU®2017 Integer Rate Result

Fujitsu
PRIMERGY RX2540 M7, Intel Xeon Gold 6526Y, 2.80GHz

| SPECrate®2017_int_base = 338 |
| SPECrate®2017_int_peak = Not Run |

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu
Test Date: May-2024
Hardware Availability: Apr-2024
Software Availability: Dec-2023

Base Optimization Flags (Continued)

Fortran benchmarks (continued):
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-L/home/specdev/new_compilers/ic2023.2.3/compiler/lib/intel64_lin
-lqkmalloc

The flags files that were used to format this result can be browsed at:
http://www.spec.org/cpu2017/flags/Intel-ic2023p2-official-linux64.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-EMR-RevD.xml
http://www.spec.org/cpu2017/flags/Intel-ic2023p2-official-linux64.xml

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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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