## SPEC CPU®2017 Integer Rate Result

### FusionServer 1288H V7 (Intel Xeon Gold 6442Y)

<table>
<thead>
<tr>
<th>SPECrate®2017_int_base =</th>
<th>513</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECrate®2017_int_peak =</td>
<td>Not Run</td>
</tr>
</tbody>
</table>

#### CPU2017 License: 6488
- **Test Sponsor:**xFusion
- **Tested by:**xFusion

<table>
<thead>
<tr>
<th>CPU Name:</th>
<th>Intel Xeon Gold 6442Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max MHz:</td>
<td>4000</td>
</tr>
<tr>
<td>Nominal:</td>
<td>2600</td>
</tr>
<tr>
<td>Enabled:</td>
<td>48 cores, 2 chips, 2 threads/core</td>
</tr>
<tr>
<td>Orderable:</td>
<td>1.2 chips</td>
</tr>
</tbody>
</table>

| Cache L1: | 32 KB I + 48 KB D on chip per core |
| Cache L2: | 2 MB I+D on chip per core |
| Cache L3: | 60 MB I+D on chip per chip |
| Other:    | None |

| Memory: | 512 GB (16 x 32 GB 2Rx8 PC5-4800B-R) |
| Storage:| 1 x 1920 GB SATA SSD |
| Other:  | None |

#### Software
- **OS:** Red Hat Enterprise Linux release 9.0 (Plow) 5.14.0-70.13.1.el9_0.x86_64
- **Compiler:** C/C++: Version 2023.0 of Intel oneAPI DPC++/C++ Compiler for Linux; Fortran: Version 2023.0 of Intel Fortran Compiler for Linux;
- **Firmware:** Version 2.00.55 Released Mar-2023
- **File System:** xfs
- **System State:** Run level 5 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** Not Applicable
- **Power Management:** BIOS and OS set to prefer performance at the cost of additional power usage

#### Hardware

<table>
<thead>
<tr>
<th>Copies</th>
<th>SPECrate®2017_int_base (513)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500.perlbench_r</td>
<td>96</td>
</tr>
<tr>
<td>502.gcc_r</td>
<td>96</td>
</tr>
<tr>
<td>505.mcf_r</td>
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<td>96</td>
</tr>
<tr>
<td>525.x264_r</td>
<td>96</td>
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<td>96</td>
</tr>
<tr>
<td>541.leela_r</td>
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<td>96</td>
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<tr>
<td>557.xz_r</td>
<td>96</td>
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| Test Date: | Jun-2023 |
| Hardware Availability: | Jan-2023 |
| Software Availability: | Dec-2022 |
**SPEC CPU®2017 Integer Rate Result**

**xFusion**

**FusionServer 1288H V7 (Intel Xeon Gold 6442Y)**

**CPU2017 License:** 6488  
**Test Sponsor:** xFusion  
**Tested by:** xFusion  
**Test Date:** Jun-2023  
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### Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
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<tr>
<td>505.mcf_r</td>
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<tr>
<td>520.omnetpp_r</td>
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**SPECrate®2017_int_base = 513**  
**SPECrate®2017_int_peak = Not Run**

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

### Compiler Notes

SPEC has ruled that the compiler used for this result was performing a compilation that specifically improves the performance of the 523.xalancbmk_r / 623.xalancbmk_s benchmarks using a priori knowledge of the SPEC code and dataset to perform a transformation that has narrow applicability.

In order to encourage optimizations that have wide applicability (see rule 1.4 https://www.spec.org/cpu2017/Docs/runrules.html#rule_1.4), SPEC will no longer publish results using this optimization.

This result is left in the SPEC results database for historical reference.

### 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 = ""`  
- `MALLOC_CONF = "retain:true"`
xFusion

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Copyright 2017-2024 Standard Performance Evaluation Corporation

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Test Sponsor: xFusion
 Tested by: xFusion

Test Date: Jun-2023
Hardware Availability: Jan-2023
Software Availability: Dec-2022

General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using Red Hat Enterprise Linux 8.4
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.
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:
Performance Profile Set to Performance
SNC Set to Enable SNC2 (2-clusters)

Sysinfo program /spec2017-icc2023.0/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Mon Jun 26 13:47:02 2023

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

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1. uname -a
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numacl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 250 (250-6.el9_0)
12. Failed units, from systemctl list-units --state=failed
13. Services, from systemctl list-unit-files
14. Linux kernel boot-time arguments, from /proc/cmdline
15. cpupower frequency-info
16. sysctl
17. /sys/kernel/mm/transparent_hugepage
18. /sys/kernel/mm/transparent_hugepage/klhugepaged
19. OS release
20. Disk information
21. /sys/devices/virtual/dmi/id
22. dmidecode
23. BIOS

1. uname -a
Linux localhost.localdomain 5.14.0-70.13.1.el9_0.x86_64 #1 SMP PREEMPT Thu Apr 14 12:42:38 EDT 2022 x86_64
x86_64 x86_64 GNU/Linux

2. w
13:47:02 up 1 min, 1 user, load average: 0.11, 0.09, 0.03
USER  TTY LOGIN@ IDLE JCPU PCPU WHAT
root tty2 13:46 14.00s 1.15s 0.04s -bash

(Continued on next page)
Platform Notes (Continued)

3. Username
   From environment variable $USER: root

4. ulimit -a
   real-time non-blocking time (microseconds, -R) unlimited
   core file size (blocks, -c) 0
   data seg size (kbytes, -d) unlimited
   scheduling priority (-e) 0
   file size (blocks, -f) unlimited
   pending signals (-i) 2060130
   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) 2060130
   virtual memory (kbytes, -v) unlimited
   file locks (-x) unlimited

5. sysinfo process ancestry
   /usr/lib/systemd/systemd rhgb --switched-root --system --deserialize 31
   login -- root
   -bash
   runcpu --define default-platform-flags --copies 96 --configfile
   ic2023.0-lin-sapphirerapids-rate-20221201.cfg --define smt-on --define cores=48 --define physicalfirst --define invoke_with_interleave --define drop_caches
   --tune base --iterations 3 -o all intrate
   runcpu --define default-platform-flags --copies 96 --configfile
   ic2023.0-lin-sapphirerapids-rate-20221201.cfg --define smt-on --define cores=48 --define physicalfirst
   --define invoke_with_interleave --define drop_caches --tune base --iterations 3 --output_format all
   --nopower --runmode rate --tune base --size refrate intrate --nopreenv --note-preenv --logfile
   $SPEC/tmp/CPU2017.041/templogs/preenv.intrate.041.0.log --lognum 041.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
   $SPEC = /spec2017-icc2023.0

6. /proc/cpuinfo
   model name : Intel(R) Xeon(R) Gold 6442Y
   vendor_id : GenuineIntel
   cpu family : 6
   model : 143
   stepping : 7
   microcode : 0x2b000111
   bugs : spectre_v1 spectre_v2 spec_store_bypass swaps
   cpu cores : 24
   siblings : 48
   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

(Continued on next page)
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</tr>
<tr>
<td><strong>SPECrate®2017_int_base</strong></td>
<td>513</td>
</tr>
<tr>
<td><strong>SPECrate®2017_int_peak</strong></td>
<td>Not Run</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Jun-2023</td>
</tr>
<tr>
<td>Hardware Availability:</td>
<td>Jan-2023</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Dec-2022</td>
</tr>
</tbody>
</table>

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**Platform Notes (Continued)**

Virtualized systems. Use the above data carefully.

(Continued on next page)
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FusionServer 1288H V7 (Intel Xeon Gold 6442Y)

SPECratenetion = Not Run
SPECratenetionBaseline = 513

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Test Date: Jun-2023
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Platform Notes (Continued)

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    32K       1.5M     8 instruction 1  64      1      64
L2     2M        96M      16 unified 2 2048    1      64
L3     60M       120M     15 unified 3 65536   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: 0-11,48-59
node 0 size: 128060 MB
node 0 free: 127586 MB
node 1 cpus: 12-23,60-71
node 1 size: 129018 MB
node 1 free: 128587 MB
node 2 cpus: 24-35,72-83
node 2 size: 129018 MB
node 2 free: 127815 MB
node 3 cpus: 36-47,84-95
node 3 size: 128971 MB
node 3 free: 128397 MB
node distances:
node   0   1   2   3
0: 10 12 21 21
1: 12 10 21 21
2: 21 21 10 12
3: 21 21 12 10

9. /proc/meminfo
MemTotal: 527452056 kB

10. who -r
run-level 5 Jun 26 13:45

11. systemctl service manager version: systemd 250 (250-6.el9_0)
Default Target Status
graphical degraded

12. systemctl list-units --state=failed
UNIT     LOAD ACTIVE SUB   DESCRIPTION
* sep5.service loaded failed failed failed systemd script to load sep5 driver at boot time

13. systemctl list-unit-files
STATE     UNIT FILES
enabled   systemd-network-generator
enabled   udisks2
enabled   upower
enabled   vgauthd
enabled   vmtoolsd

(Continued on next page)
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Platform Notes (Continued)

canberra-system-shutdown-reboot chrony-wait cni-dhcp console-getty cpupower cups-browsed
dbus-daemon debug-shell dnsmasq firewallld idpdump iprinti iprintupdate iscsid iscsiuiu kpatch
kvm_stat ledmon man-db-restart-cache-update nftables nvmf-autoconnect podman
podman-auto-update podman-restart psacct ras-mc-ctl rasdaemon rdisc rhcd rhsm rhm-facts
rpmdb-rebuild serial-getty@ speech-dispatcherd sshd-keygen@ systemd-boot-check-no-failures
systemd-pstore systemd-sysext wpa_supplicant
indirect
spice-vdagentd sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-sah sssd-sudo

14. Linux kernel boot-time arguments, from /proc/cmdline
   BOOT_IMAGE=(hd0,gpt3)/boot/vmlinuz-5.14.0-70.13.1.el9_0.x86_64
   root=UUID=cc4bab05-907e-44ef-b818-2b2874390234
   ro
   crashkernel=1G-4G:192M,4G-64G:256M,64G-:512M
   resume=UUID=5ba347ca-8beb-4f6e-9c11-de63dc4ddf5f
   rhgb
   quiet

15. cpupower frequency-info
   analyzing CPU 0:
     Unable to determine current policy
     boost state support:
       Supported: yes
       Active: yes

16. sysctl
   kernel.numa_balancing               1
   kernel.randomize_va_space           2
   vm.compaction_proactive_bytes       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                    2000
   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/klugepaged
   alloc_sleep_millisecs  60000
   defrag 1
   max_ptes_none 511

(Continued on next page)
XFusion

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Platform Notes (Continued)

max_ptes_shared 256
max_ptes_swap 64
pages_to_scan 4096
scan_sleep_milliseconds 10000

19. OS release
From /etc/*-release /etc/*-version
os-release Red Hat Enterprise Linux 9.0 (Plow)
redhat-release Red Hat Enterprise Linux release 9.0 (Plow)
system-release Red Hat Enterprise Linux release 9.0 (Plow)

20. Disk information
SPEC is set to: /spec2017-icc2023.0

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Type</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
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<tbody>
<tr>
<td>/dev/sda3</td>
<td>xfs</td>
<td>420G</td>
<td>98G</td>
<td>322G</td>
<td>24%</td>
<td>/</td>
</tr>
</tbody>
</table>

21. /sys/devices/virtual/dmi/id
Vendor: XFUSION
Product: 1288H V7
Product Family: Eagle Stream
Serial: serial

22. dmidecode
Additional information from dmidecode 3.3 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 Samsung M321R4GA3BB6-CQKDG 32 GB 2 rank 4800

23. BIOS
(This section combines info from /sys/devices and dmidecode.)
BIOS Vendor: XFUSION
BIOS Version: 2.00.55
BIOS Date: 03/07/2023
BIOS Revision: 0.55

Compiler Version Notes

<table>
<thead>
<tr>
<th>C</th>
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<td>Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201 Copyright (C) 1985-2022 Intel Corporation. All rights reserved.</td>
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(Continued on next page)
Compiler Version Notes (Continued)

Fortran | 548.exchange2_r(base)
------------------------------------------------------------------------------------------------------------
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------------------------------------

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.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-w -std=c11 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-fflatlto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc

C++ benchmarks:
-w -std=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-fflatlto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin

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### Base Optimization Flags (Continued)

C++ benchmarks (continued):
- -lqkmalloc

Fortran benchmarks:
- `-w -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math -flto`
- `-mfpmath=sse -funroll-loops -gopt-mem-layout-trans=4`
- `-nostandard-realloc-lhs -align array32byte -auto`
- `-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin`
- `-lqkmalloc`

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

You can also download the XML flags sources by saving the following links:
- http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.xml

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