



SPEC CPU®2017 Floating Point Rate Result

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xFusion

FusionServer XH321 V6 (Intel Xeon Platinum 8368)

SPECrate®2017_fp_base = 486

SPECrate®2017_fp_peak = Not Run

CPU2017 License: 6488

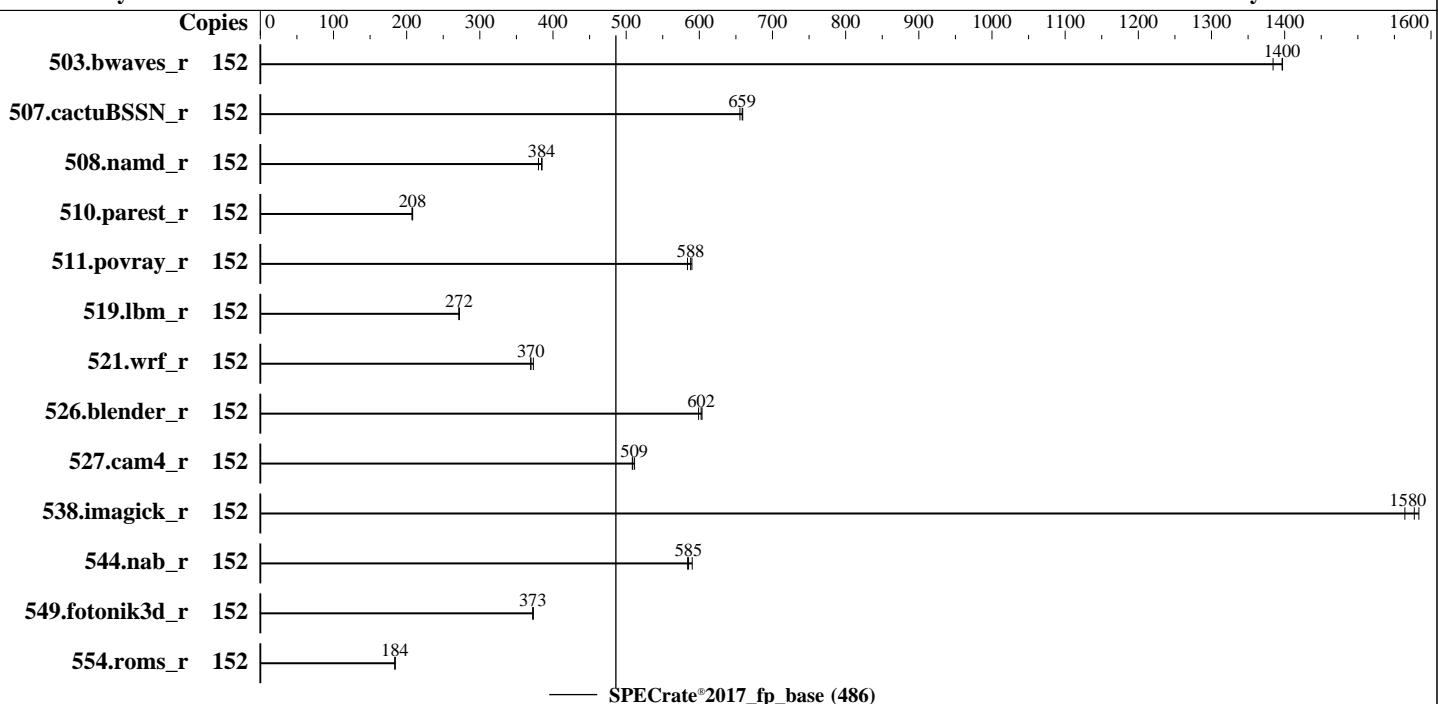
Test Sponsor: xFusion

Tested by: xFusion

Test Date: Apr-2024

Hardware Availability: Apr-2021

Software Availability: Dec-2023



Hardware

CPU Name: Intel Xeon Platinum 8368
 Max MHz: 3400
 Nominal: 2400
 Enabled: 76 cores, 2 chips, 2 threads/core
 Orderable: 1,2 chips
 Cache L1: 32 KB I + 48 KB D on chip per core
 L2: 1.25 MB I+D on chip per core
 L3: 57 MB I+D on chip per chip
 Other: None
 Memory: 512 GB (16 x 32 GB 2Rx4 PC4-3200AA-R)
 Storage: 1 x 1920 GB SATA SSD
 Other: CPU Cooling: Air

Software

OS: Red Hat Enterprise Linux 8.4 (Ootpa) 4.18.0-305.el8.x86_64
 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: Version 1.68 Released Mar-2024
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other: jemalloc memory allocator V5.0.1
 Power Management: BIOS and OS 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	Seconds	Ratio
503.bwaves_r	152	1101	1380	1092	1400	1091	1400									
507.cactusBSSN_r	152	294	656	292	659	292	659									
508.namd_r	152	380	380	375	385	376	384									
510.parest_r	152	1918	207	1910	208	1912	208									
511.povray_r	152	608	584	602	590	603	588									
519.lbm_r	152	590	272	590	272	589	272									
521.wrf_r	152	921	370	921	370	912	373									
526.blender_r	152	386	599	383	604	384	602									
527.cam4_r	152	522	509	520	512	523	508									
538.imagick_r	152	242	1560	239	1580	240	1580									
544.nab_r	152	438	584	433	590	437	585									
549.fotonik3d_r	152	1588	373	1590	373	1590	373									
554.roms_r	152	1314	184	1312	184	1311	184									

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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/speccpu/lib/intel64:/home/speccpu/je5.0.1-64"
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.

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General Notes (Continued)

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.

jemalloc, a general purpose malloc implementation built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5 sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

Platform Notes

BIOS configuration:

Performance Profile Set to Performance
SNC Set to Enabled SNC2 (2-clusters)

Sysinfo program /home/speccpu/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Mon Apr 22 02:30:06 2024

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

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 10. who -r
 11. Systemd service manager version: systemd 239 (239-45.el8)
 12. Services, from systemctl list-unit-files
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 21. /sys/devices/virtual/dmi/id
 22. dmidecode
 23. BIOS
-

1. uname -a
Linux localhost.localdomain 4.18.0-305.el8.x86_64 #1 SMP Thu Apr 29 08:54:30 EDT 2021 x86_64 x86_64 x86_64
GNU/Linux

2. w
02:30:06 up 4:08, 3 users, load average: 99.57, 139.17, 146.58
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root tty1 - 22:27 4:02m 1.31s 0.06s -bash
root pts/0 70.167.0.2 22:25 2:23m 0.01s 0.01s -bash

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Platform Notes (Continued)

```
root      pts/1      70.167.0.2      22:31      3:51m  0.03s  0.03s -bash
```

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

```
-----  
4. ulimit -a  
core file size          (blocks, -c) 0  
data seg size           (kbytes, -d) unlimited  
scheduling priority     (-e) 0  
file size               (blocks, -f) unlimited  
pending signals          (-i) 2060957  
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) 2060957  
virtual memory           (kbytes, -v) unlimited  
file locks               (-x) unlimited
```

```
-----  
5. sysinfo process ancestry  
/usr/lib/systemd/systemd --switched-root --system --deserialize 18  
login -- root  
-bash  
-bash  
runcpu --define default-platform-flags --copies 152 -c ic2023.2.3-lin-core-avx512-rate-20231121.cfg --define  
smt-on --define cores=76 --define physicalfirst --define invoke_with_interleave --define drop_caches  
--tune base -o all fprate  
runcpu --define default-platform-flags --copies 152 --configfile  
ic2023.2.3-lin-core-avx512-rate-20231121.cfg --define smt-on --define cores=76 --define physicalfirst  
--define invoke_with_interleave --define drop_caches --tune base --output_format all --nopower --runmode  
rate --tune base --size refrate fprate --nopreenv --note-preenv --logfile  
$SPEC/tmp/CPU2017.029/templogs/preenv.fprate.029.0.log --lognum 029.0 --from_runcpu 2  
specperl $SPEC/bin/sysinfo  
$SPEC = /home/speccpu
```

```
-----  
6. /proc/cpuinfo  
model name          : Intel(R) Xeon(R) Platinum 8368 CPU @ 2.40GHz  
vendor_id           : GenuineIntel  
cpu family          : 6  
model               : 106  
stepping             : 6  
microcode           : 0xd0003b9  
bugs                : spectre_v1 spectre_v2 spec_store_bypass swapgs  
cpu cores            : 38  
siblings             : 76  
2 physical ids (chips)  
152 processors (hardware threads)  
physical id 0: core ids 0-37  
physical id 1: core ids 0-37  
physical id 0: apicids 0-75  
physical id 1: apicids 128-203
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for

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Platform Notes (Continued)

virtualized systems. Use the above data carefully.

7. lscpu

```
From lscpu from util-linux 2.32.1:
Architecture:           x86_64
CPU op-mode(s):         32-bit, 64-bit
Byte Order:              Little Endian
CPU(s):                 152
On-line CPU(s) list:   0-151
Thread(s) per core:    2
Core(s) per socket:    38
Socket(s):              2
NUMA node(s):           2
Vendor ID:              GenuineIntel
BIOS Vendor ID:        Intel(R) Corporation
CPU family:             6
Model:                  106
Model name:             Intel(R) Xeon(R) Platinum 8368 CPU @ 2.40GHz
BIOS Model name:        Intel(R) Xeon(R) Platinum 8368 CPU @ 2.40GHz
Stepping:               6
CPU MHz:                3197.793
BogoMIPS:               4800.00
Virtualization:         VT-x
L1d cache:              48K
L1i cache:              32K
L2 cache:                1280K
L3 cache:                58368K
NUMA node0 CPU(s):      0-37,76-113
NUMA node1 CPU(s):      38-75,114-151
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 xtstopology nonstop_tsc cpuid aperfmpfperf pn
                       pclmulqdq dtes64 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_13 invpcid_single ssbd mba ibrs ibpb stibp
                       ibrs_enhanced tpr_shadow vnmi flexpriority ept_vpid ept_ad fsgsbase tsc_adjust bmi1
                       hle avx2 smep bmi2 erms invpcid cqmmrdt_a avx512f avx512dq rdseed adx smap avx512ifma
                       clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1
                       xsaves cqmmllc cqmmoccup_llc cqmmmbm_total cqmmmbm_local split_lock_detect wbnoinvd
                       dtherm ida arat pln pts hwp_epp avx512vbmi umip pku ospke avx512_vbmi2 gfni vaes
                       vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq la57 rdpid fsrm md_clear
                       pconfig flush_lld arch_capabilities
```

8. numactl --hardware

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

available: 2 nodes (0-1)

node 0 cpus: 0-37,76-113

node 0 size: 257251 MB

node 0 free: 240125 MB

node 1 cpus: 38-75,114-151

node 1 size: 258027 MB

node 1 free: 242875 MB

node distances:

node 0 1

0: 10 20

1: 20 10

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Platform Notes (Continued)

```
-----  
9. /proc/meminfo  
MemTotal:      527645132 kB  
  
-----  
10. who -r  
run-level 3 Apr 21 22:22  
  
-----  
11. Systemd service manager version: systemd 239 (239-45.el8)  
Default Target  Status  
multi-user      running  
  
-----  
12. Services, from systemctl list-unit-files  
STATE      UNIT FILES  
enabled    NetworkManager NetworkManager-dispatcher NetworkManager-wait-online auditd autovt@ chronyd crond  
           firewalld getty@ import-state kdump loadmodules lvm2-monitor mdmonitor microcode nis-domainname  
           rhsmcertd rsyslog selinux-autorelabel-mark sshd sssd syslog timedatectl udisks2  
disabled   blk-availability chrony-wait console-getty cpupower debug-shell ebttables iprdump iprinit  
           ipruleupdate kvm_stat nftables rdisc rhcd rhsm rhsm-facts serial-getty@ sshd-keygen@  
           systemd-resolved tcsd  
generated  SystemTap compile-server gcc-toolset-10-stap-server gcc-toolset-10-systemtap  
           gcc-toolset-9-stap-server gcc-toolset-9-systemtap scripts startup  
indirect   sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo  
masked     systemd-timedated  
  
-----  
13. Linux kernel boot-time arguments, from /proc/cmdline  
BOOT_IMAGE=(hd0,gpt2)/vmlinuz-4.18.0-305.el8.x86_64  
root=/dev/mapper/rhel-root  
ro  
crashkernel=auto  
resume=/dev/mapper/rhel-swap  
rd.lvm.lv=rhel/root  
rd.lvm.lv=rhel/swap  
rhgb  
quiet  
  
-----  
14. cpupower frequency-info  
analyzing CPU 0:  
  Unable to determine current policy  
  boost state support:  
    Supported: yes  
    Active: yes  
  
-----  
15. sysctl  
kernel.numa_balancing          1  
kernel.randomize_va_space       2  
vm.compaction_proactiveness    0  
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+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_swap            64
pages_to_scan            4096
scan_sleep_millisecs     10000
```

```
-----18. OS release
From /etc/*-release /etc/*-version
os-release   Red Hat Enterprise Linux 8.4 (Ootpa)
redhat-release Red Hat Enterprise Linux release 8.4 (Ootpa)
system-release Red Hat Enterprise Linux release 8.4 (Ootpa)
```

```
-----19. Kernel self-reported vulnerability status, from /sys/devices/system/cpu/vulnerabilities
itlb_multihit  Not affected
l1tf          Not affected
mds           Not affected
meltdown     Not affected
spec_store_bypass Mitigation: Speculative Store Bypass disabled via prctl and seccomp
spectre_v1    Mitigation: usercopy/swapgs barriers and __user pointer sanitization
spectre_v2    Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling
srbds         Not affected
tsx_async_abort Not affected
```

For more information, see the Linux documentation on hardware vulnerabilities, for example
<https://www.kernel.org/doc/html/latest/admin-guide/hw-vuln/index.html>

```
-----20. Disk information
SPEC is set to: /home/speccpu
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs  372G  101G  271G  28% /home
```

```
-----21. /sys/devices/virtual/dmi/id
Vendor:        XFUSION
Product:       XH321 V6
Product Family: Whitley
```

```
-----22. dmidecode
```

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Platform Notes (Continued)

Additional information from dmidecode 3.2 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 M393A4K40DB3-CWE 32 GB 2 rank 3200

23. BIOS

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

BIOS Vendor: XFUSION

BIOS Version: 1.68

BIOS Date: 03/14/2024

BIOS Revision: 1.68

Compiler Version Notes

=====

C | 519.lbm_r(base) 538.imagick_r(base) 544.nab_r(base)

=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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=====

=====

C++ | 508.namd_r(base) 510.parest_r(base)

=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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=====

=====

C++, C | 511.povray_r(base) 526.blender_r(base)

=====

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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=====

=====

C++, C, Fortran | 507.cactubssn_r(base)

=====

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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=====

=====

Fortran | 503.bwaves_r(base) 549.fotonik3d_r(base) 554.roms_r(base)

=====

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Compiler Version Notes (Continued)

=====
Fortran, C | 521.wrf_r(base) 527.cam4_r(base)

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

Benchmarks using both C and C++:

icpx icx

Benchmarks using Fortran, C, and C++:

icpx icx ifx

Base Portability Flags

503.bwaves_r: -DSPEC_LP64
507.cactuBSSN_r: -DSPEC_LP64
508.namd_r: -DSPEC_LP64
510.parest_r: -DSPEC_LP64
511.povray_r: -DSPEC_LP64
519.lbm_r: -DSPEC_LP64
521.wrf_r: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
526.blender_r: -DSPEC_LP64 -DSPEC_LINUX -funsigned-char
527.cam4_r: -DSPEC_LP64 -DSPEC_CASE_FLAG
538.imagick_r: -DSPEC_LP64
544.nab_r: -DSPEC_LP64
549.fotonik3d_r: -DSPEC_LP64
554.roms_r: -DSPEC_LP64



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Base Optimization Flags

C benchmarks:

```
-w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math  
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-Wno-implicit-int -ljemalloc -L/usr/local/jemalloc64-5.0.1/lib
```

C++ benchmarks:

```
-w -std=c++14 -m64 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math  
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -ljemalloc  
-L/usr/local/jemalloc64-5.0.1/lib
```

Fortran benchmarks:

```
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -flto  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-nostandard-realloc-lhs -align array32byte -auto -ljemalloc  
-L/usr/local/jemalloc64-5.0.1/lib
```

Benchmarks using both Fortran and C:

```
-w -m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math  
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-Wno-implicit-int -nostandard-realloc-lhs -align array32byte -auto  
-ljemalloc -L/usr/local/jemalloc64-5.0.1/lib
```

Benchmarks using both C and C++:

```
-w -std=c++14 -m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast  
-ffast-math -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -Wno-implicit-int -ljemalloc  
-L/usr/local/jemalloc64-5.0.1/lib
```

Benchmarks using Fortran, C, and C++:

```
-w -std=c++14 -m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast  
-ffast-math -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -Wno-implicit-int -nostandard-realloc-lhs  
-align array32byte -auto -ljemalloc -L/usr/local/jemalloc64-5.0.1/lib
```

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>

<http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-ICX-V1.2.html>

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

<http://www.spec.org/cpu2017/flags/Intel-ic2023p2-official-linux64.xml>

<http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-ICX-V1.2.xml>



SPEC CPU®2017 Floating Point Rate Result

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xFusion

FusionServer XH321 V6 (Intel Xeon Platinum 8368)

SPECrate®2017_fp_base = 486

SPECrate®2017_fp_peak = Not Run

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

Test Date: Apr-2024

Hardware Availability: Apr-2021

Software Availability: Dec-2023

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