



# SPEC CPU®2017 Integer Speed Result

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**xFusion**

**SPECSpeed®2017\_int\_base = 14.2**

**SPECSpeed®2017\_int\_peak = 14.4**

CPU2017 License: 6488

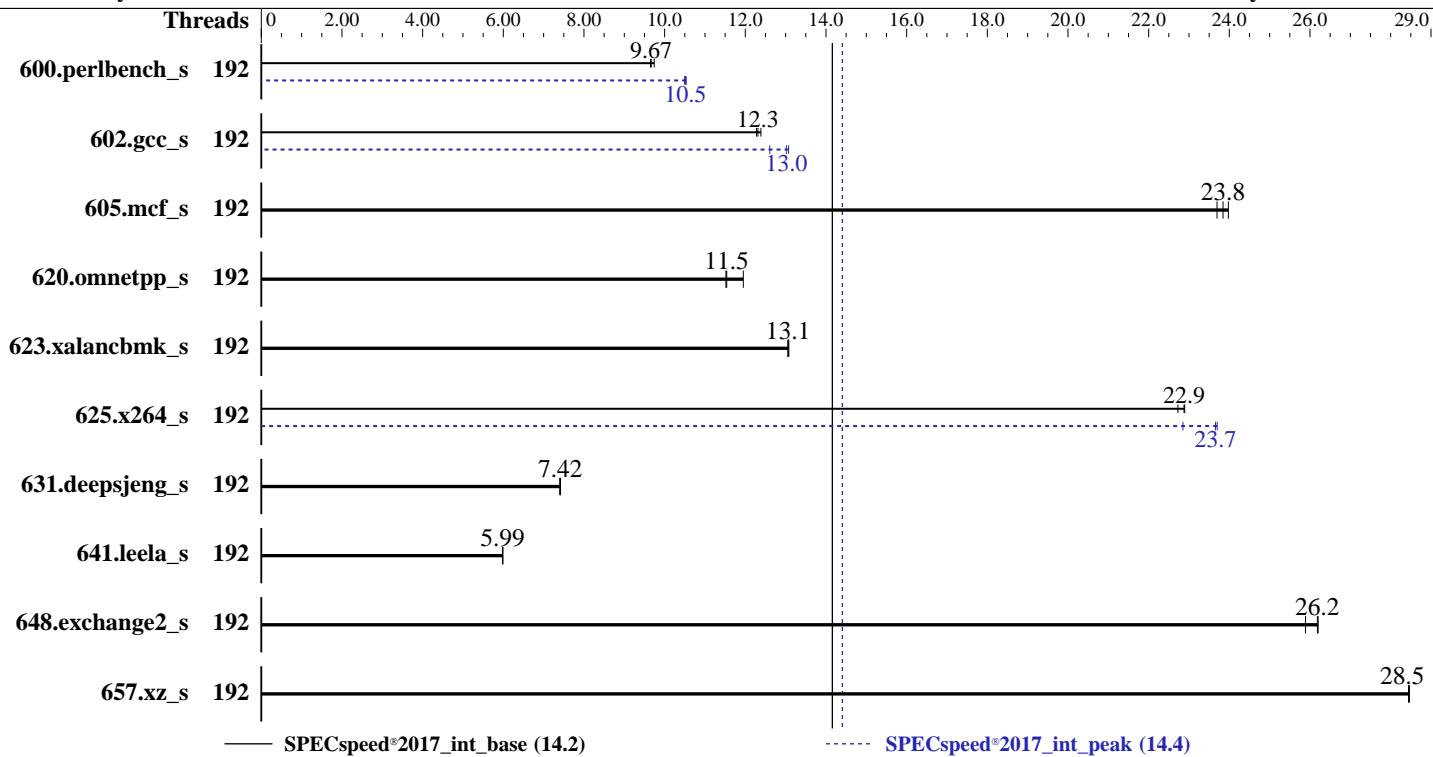
Test Date: Apr-2025

Test Sponsor: xFusion

Hardware Availability: Apr-2025

Tested by: xFusion

Software Availability: Jun-2024



— SPECSpeed®2017\_int\_base (14.2)

····· SPECSpeed®2017\_int\_peak (14.4)

## Hardware

CPU Name: Intel Xeon 6972P  
 Max MHz: 3900  
 Nominal: 2400  
 Enabled: 192 cores, 2 chips  
 Orderable: 2 chips  
 Cache L1: 64 KB I + 48 KB D on chip per core  
 L2: 2 MB I+D on chip per core  
 L3: 480 MB I+D on chip per chip  
 Other: None  
 Memory: 768 GB (24 x 32 GB 2Rx8 PC5-88/44B-M)  
 Storage: 1 x 7.68 TB NVMe SSD  
 Other: CPU Cooling: Air

## Software

OS: SUSE Linux Enterprise Server 15 SP6 6.4.0-150600.21-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: Yes  
 Firmware: Version 01.01.06.05 Released Feb-2025  
 File System: btrfs  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other: jemalloc memory allocator V5.0.1  
 Power Management: BIOS set to prefer performance at the cost of additional power usage



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## Results Table

Benchmark	Base								Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	192	<b><u>184</u></b>	<b><u>9.67</u></b>	182	9.74	184	9.65	192	<b><u>169</u></b>	10.5	<b><u>169</u></b>	<b><u>10.5</u></b>	169	10.5		
602.gcc_s	192	324	12.3	<b><u>323</u></b>	<b><u>12.3</u></b>	321	12.4	192	316	12.6	305	13.1	<b><u>306</u></b>	<b><u>13.0</u></b>		
605.mcf_s	192	<b><u>198</u></b>	<b><u>23.8</u></b>	199	23.7	197	24.0	192	<b><u>198</u></b>	<b><u>23.8</u></b>	199	23.7	197	24.0		
620.omnetpp_s	192	136	12.0	142	11.5	<b><u>141</u></b>	<b><u>11.5</u></b>	192	136	12.0	142	11.5	<b><u>141</u></b>	<b><u>11.5</u></b>		
623.xalancbmk_s	192	108	13.1	109	13.1	<b><u>108</u></b>	<b><u>13.1</u></b>	192	108	13.1	109	13.1	<b><u>108</u></b>	<b><u>13.1</u></b>		
625.x264_s	192	77.1	22.9	77.6	22.7	<b><u>77.1</u></b>	<b><u>22.9</u></b>	192	74.4	23.7	<b><u>74.6</u></b>	<b><u>23.7</u></b>	77.2	22.9		
631.deepsjeng_s	192	<b><u>193</u></b>	<b><u>7.42</u></b>	194	7.40	193	7.42	192	<b><u>193</u></b>	<b><u>7.42</u></b>	194	7.40	193	7.42		
641.leela_s	192	285	5.99	<b><u>285</u></b>	<b><u>5.99</u></b>	285	5.98	192	285	5.99	<b><u>285</u></b>	<b><u>5.99</u></b>	285	5.98		
648.exchange2_s	192	<b><u>112</u></b>	<b><u>26.2</u></b>	112	26.2	114	25.9	192	<b><u>112</u></b>	<b><u>26.2</u></b>	112	26.2	114	25.9		
657.xz_s	192	<b><u>217</u></b>	<b><u>28.5</u></b>	217	28.4	217	28.5	192	<b><u>217</u></b>	<b><u>28.5</u></b>	217	28.4	217	28.5		

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

## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Kernel Boot Parameter set with : nohz\_full=1-191

## Environment Variables Notes

Environment variables set by runcpu before the start of the run:

KMP\_AFFINITY = "granularity=fine,scatter"

LD\_LIBRARY\_PATH = "/root/speccpu/lib/intel64:/root/speccpu/je5.0.1-64"

MALLOC\_CONF = "retain:true"

OMP\_STACKSIZE = "192M"

## General Notes

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

memory using Redhat Enterprise Linux 8.0

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

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.

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>



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FusionServer 2288H V8 (Intel Xeon 6972P)

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## Platform Notes

BIOS configuration:

Performance Profile Set to Load Balance

Enable LP [Global] Set to Single LP

SNC Set to Enabled

```
Sysinfo program /root/speccpu/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Wed Apr  9 19:52:27 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 (254.10+suse.84.ge8d77af424)
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/khugepaged
19. OS release
20. Disk information
21. /sys/devices/virtual/dmi/id
22. dmidecode
23. BIOS

-----

1. uname -a  
Linux localhost 6.4.0-150600.21-default #1 SMP PREEMPT\_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09)  
x86\_64 x86\_64 x86\_64 GNU/Linux

-----

2. w  
19:52:27 up 23:14, 1 user, load average: 1.87, 4.18, 2.92  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
root tty2 - Tue20 3:18m 1.99s 0.01s -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

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## Platform Notes (Continued)

```
pending signals          (-i) 3092436
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) 3092436
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  
-bash  
runcpu --nobuild --action validate --define default-platform-flags -c  
  ic2024.1-lin-sapphirerapids-speed-20240308.cfg --define cores=192 --tune base,peak -o all --define  
  intspeedaffinity --define drop_caches intspeed  
runcpu --nobuild --action validate --define default-platform-flags --configfile  
  ic2024.1-lin-sapphirerapids-speed-20240308.cfg --define cores=192 --tune base,peak --output_format all  
  --define intspeedaffinity --define drop_caches --nopower --runmode speed --tune base:peak --size refspeed  
  intspeed --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.002/templogs/preenv.intspeed.002.0.log  
  --lognum 002.0 --from_runcpu 2  
specperl $SPEC/bin/sysinfo  
$SPEC = /root/speccpu
```

```
-----  
6. /proc/cpuinfo  
model name      : Intel(R) Xeon(R) 6972P  
vendor_id       : GenuineIntel  
cpu family     : 6  
model          : 173  
stepping        : 1  
microcode       : 0x10000380  
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi  
cpu cores      : 96  
siblings        : 96  
2 physical ids (chips)  
192 processors (hardware threads)  
physical id 0: core ids 0-31,64-95,128-159  
physical id 1: core ids 0-31,64-95,128-159  
physical id 0: apicids  
0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,128,130,132,13  
4,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,170,172,174,176,178,180,182,184,186  
,188,190,256,258,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290,292,294,296,298,300,302,  
304,306,308,310,312,314,316,318  
physical id 1: apicids  
512,514,516,518,520,522,524,526,528,530,532,534,536,538,540,542,544,546,548,550,552,554,556,558,560,562,5  
64,566,568,570,572,574,640,642,644,646,648,650,652,654,656,658,660,662,664,666,668,670,672,674,676,678,68  
0,682,684,686,688,690,692,694,696,698,700,702,768,770,772,774,776,778,780,782,784,786,788,790,792,794,796  
,798,800,802,804,806,808,810,812,814,816,818,820,822,824,826,828,830  
Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for  
virtualized systems. Use the above data carefully.
```

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### FusionServer 2288H V8 (Intel Xeon 6972P)

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CPU2017 License: 6488

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Test Sponsor: xFusion

Hardware Availability: Apr-2025

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## Platform Notes (Continued)

7. lscpu

From lscpu from util-linux 2.39.3:

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):	192
On-line CPU(s) list:	0-191
Vendor ID:	GenuineIntel
BIOS Vendor ID:	Intel(R) Corporation
Model name:	Intel(R) Xeon(R) 6972P
BIOS Model name:	Intel(R) Xeon(R) 6972P CPU @ 2.4GHz
BIOS CPU family:	179
CPU family:	6
Model:	173
Thread(s) per core:	1
Core(s) per socket:	96
Socket(s):	2
Stepping:	1
CPU(s) scaling MHz:	21%
CPU max MHz:	3900.0000
CPU min MHz:	800.0000
BogoMIPS:	4800.00
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 pdpelgb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfmpf 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_13 cat_12 cdp_13 intel_ppin cdp_12 ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cqmq rdta avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqmq_llc cqmq_occup_llc cqmq_mbm_total cqmq_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 hfi vnmi avx512vbmi umip pku ospke waitpkg avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq la57 rdpid bus_lock_detect cldemote movdir64b enqcmd fsrm md_clear serialize tsxldtrk pconfig arch_lbr ibt amx_bf16 avx512_fp16 amx_tile amx_int8 flush_lld arch_capabilities
Virtualization:	VT-x
L1d cache:	9 MiB (192 instances)
L1i cache:	12 MiB (192 instances)
L2 cache:	384 MiB (192 instances)
L3 cache:	960 MiB (2 instances)
NUMA node(s):	6
NUMA node0 CPU(s):	0-31
NUMA node1 CPU(s):	32-63
NUMA node2 CPU(s):	64-95
NUMA node3 CPU(s):	96-127
NUMA node4 CPU(s):	128-159
NUMA node5 CPU(s):	160-191
Vulnerability Gather data sampling:	Not affected
Vulnerability Itlb multihit:	Not affected
Vulnerability Lltf:	Not affected
Vulnerability Mds:	Not affected

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## Platform Notes (Continued)

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; PBRSB-eIBRS Not affected; BHI BHI_DIS_S
Vulnerability Srbds:	Not affected
Vulnerability Tsx async abort:	Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	9M	12	Data	1	64	1	64
L1i	64K	12M	16	Instruction	1	64	1	64
L2	2M	384M	16	Unified	2	2048	1	64
L3	480M	960M	16	Unified	3	491520	1	64

-----  
8. numactl --hardware

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

available: 6 nodes (0-5)

node 0 cpus: 0-31

node 0 size: 128504 MB

node 0 free: 126391 MB

node 1 cpus: 32-63

node 1 size: 128976 MB

node 1 free: 128385 MB

node 2 cpus: 64-95

node 2 size: 129015 MB

node 2 free: 127535 MB

node 3 cpus: 96-127

node 3 size: 129015 MB

node 3 free: 128334 MB

node 4 cpus: 128-159

node 4 size: 129015 MB

node 4 free: 128083 MB

node 5 cpus: 160-191

node 5 size: 128610 MB

node 5 free: 128083 MB

node distances:

node	0	1	2	3	4	5
0:	10	12	12	21	21	21
1:	12	10	12	21	21	21
2:	12	12	10	21	21	21
3:	21	21	21	10	12	12
4:	21	21	21	12	10	12
5:	21	21	21	12	12	10

-----  
9. /proc/meminfo

MemTotal: 791693672 kB

-----  
10. who -r

run-level 3 Apr 8 20:39 last=5

-----  
11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)

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## Platform Notes (Continued)

Default Target Status  
graphical degraded

-----  
12. Failed units, from systemctl list-units --state=failed  
UNIT LOAD ACTIVE SUB DESCRIPTION  
\* sep5.service loaded failed failed systemd script to load sep5 driver at boot time  
\* udisks2.service loaded failed failed Disk Manager

-----  
13. 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@ issue-generator kbdsettings kdump kdump-early kdump-notify klog  
lvm2-monitor nscd nvmefc-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 accounts-daemon autofs autoyast-initscripts blk-availability bluetooth-mesh 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 ipmievfd irqbalance  
issue-add-ssh-keys kexec-load lummask man-db-create multipathd nfs nfs-blkmap nmb  
ostree-remount rpcbind rpmconfigcheck rsyncd rtkit-daemon serial-getty@  
smartd\_generate\_opts smb snmpd snmptrapd speech-dispatcherd systemd-boot-check-no-failures  
systemd-confext systemd-network-generator systemd-sysext systemd-time-wait-sync  
systemd-timesyncd udisks2 update-system-flatpaks upower vncserver@  
indirect systemd-userdbd wickedd

-----  
14. Linux kernel boot-time arguments, from /proc/cmdline  
BOOT\_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default  
root=UUID=6e3dc6a0-eb5c-4adf-9eb8-8aef9c14cf2c  
nohz\_full=1-191  
splash=silent  
mitigations=auto  
quiet  
security=apparmor  
crashkernel=365M,high  
crashkernel=72M,low

-----  
15. cpupower frequency-info  
analyzing CPU 185:  
current policy: frequency should be within 800 MHz and 3.90 GHz.  
The governor "powersave" may decide which speed to use  
within this range.  
boost state support:  
Supported: yes  
Active: yes

-----  
16. 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

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## Platform Notes (Continued)

```
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
```

```
-----  
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/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
```

```
-----  
19. OS release  
From /etc/*-release /etc/*-version  
os-release SUSE Linux Enterprise Server 15 SP6
```

```
-----  
20. Disk information  
SPEC is set to: /root/speccpu  
Filesystem      Type  Size  Used Avail Use% Mounted on  
/dev/nvme0n1p3  btrfs  1.5T  333G  1.2T  23% /root
```

```
-----  
21. /sys/devices/virtual/dmi/id  
Product:        2288H V8
Product Family: Birch Stream
```

```
-----  
22. 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:  
 24x Micron MTC20F2085S1HC88XD1 WCCCC 32 GB 2 rank 8800
```

```
-----  
23. BIOS  
(This section combines info from /sys/devices and dmidecode.)  
BIOS Vendor:      INSYDE Corp.
BIOS Version:     01.01.06.05
```

(Continued on next page)



# SPEC CPU®2017 Integer Speed Result

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xFusion

SPECspeed®2017\_int\_base = 14.2

FusionServer 2288H V8 (Intel Xeon 6972P)

SPECspeed®2017\_int\_peak = 14.4

CPU2017 License: 6488

Test Date: Apr-2025

Test Sponsor: xFusion

Hardware Availability: Apr-2025

Tested by: xFusion

Software Availability: Jun-2024

## Platform Notes (Continued)

BIOS Date: 02/26/2025  
BIOS Revision: 6.5

## Compiler Version Notes

=====| 600.perlbench\_s(base, peak) 602.gcc\_s(base, peak) 605.mcf\_s(base, peak) 625.x264\_s(base, peak)  
C | 657.xz\_s(base, peak)

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2024.1.0 Build 20240308  
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=====| 620.omnetpp\_s(base, peak) 623.xalancbmk\_s(base, peak) 631.deepsjeng\_s(base, peak)  
C++ | 641.leela\_s(base, peak)

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2024.1.0 Build 20240308  
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=====| 648.exchange2\_s(base, peak)  
Fortran |

-----  
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

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

## Base Portability Flags

600.perlbench\_s: -DSPEC\_LP64 -DSPEC\_LINUX\_X64  
602.gcc\_s: -DSPEC\_LP64  
605.mcf\_s: -DSPEC\_LP64  
620.omnetpp\_s: -DSPEC\_LP64  
623.xalancbmk\_s: -DSPEC\_LP64 -DSPEC\_LINUX  
625.x264\_s: -DSPEC\_LP64

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## Base Portability Flags (Continued)

631.deepsjeng\_s: -DSPEC\_LP64

641.leela\_s: -DSPEC\_LP64

648.exchange2\_s: -DSPEC\_LP64

657.xz\_s: -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 -fopenmp  
-DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

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/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

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  
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

## Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

## Peak Portability Flags

Same as Base Portability Flags



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Test Sponsor: xFusion

Hardware Availability: Apr-2025

Tested by: xFusion

Software Availability: Jun-2024

## Peak Optimization Flags

C benchmarks:

```
600.perlbench_s: -w -m64 -std=c11 -Wl,-z,muldefs  
-fprofile-generate(pass 1)  
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)  
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-fiopenmp -DSPEC_OPENMP -fno-strict-overflow  
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

```
602.gcc_s: -w -m64 -std=c11 -Wl,-z,muldefs  
-fprofile-generate(pass 1)  
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)  
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib  
-ljemalloc
```

```
605.mcf_s: basepeak = yes
```

```
625.x264_s: -w -std=c11 -m64 -Wl,-z,muldefs -xsapphirerapids -O3  
-ffast-math -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP  
-fno-alias -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

```
657.xz_s: basepeak = yes
```

C++ benchmarks:

```
620.omnetpp_s: basepeak = yes
```

```
623.xalancbmk_s: basepeak = yes
```

```
631.deepsjeng_s: basepeak = yes
```

```
641.leela_s: basepeak = yes
```

Fortran benchmarks:

```
648.exchange2_s: basepeak = yes
```

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/xFusion-Platform-Settings-GNR-V1.0.html>



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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/xFusion-Platform-Settings-GNR-V1.0.xml>

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