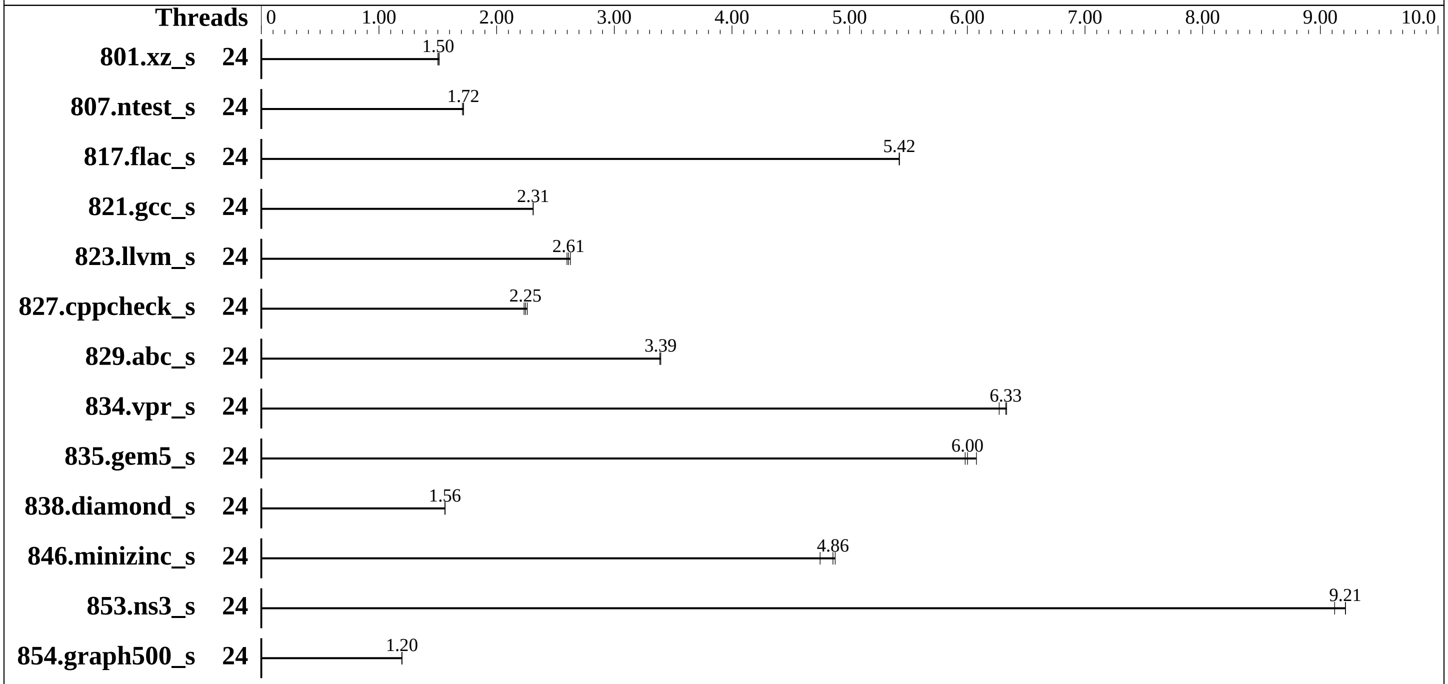
SPEC CPU®2026 Integer Speed Result

Fsas Technologies Inc.
(Test Sponsor: Fujitsu)
PRIMERGY TX1330 M6,
Intel Xeon 6377P, 3.1 GHz

SPECspeed®2026_int_base = 3.06

SPECspeed®2026_int_peak = Not Run

CPU2026 License:	19	**Test Date:**	Sep-2026
Test Sponsor:	Fujitsu	**Hardware Availability:**	Nov-2026
Tested by:	Fsas Technologies Inc.	**Software Availability:**	Jan-2026



Hardware

CPU Name:	Intel Xeon 6377P
Max MHz:	5700
Nominal:	3100
Enabled:	12 cores, 1 chip, 2 threads/core
Orderable:	1 chip
Cache L1:	32 KB I + 48 KB D on chip per core
L2:	2 MB I+D on chip per core
L3:	36 MB I+D on chip per chip
Other:	None
Memory:	64 GB (2 x 32 GB 2Rx8 PC5-4800B-E, running at 4400)
Storage:	1 x SATA M.2 SSD, 960 GB
Cooling:	Air
Other:	None

Software

OS:	SUSE Linux Enterprise Server 15 SP6 6.4.0-150600.21-default
Compiler:	C/C++: Version 2026.0 of Intel oneAPI DPC++/C++ Compiler for Linux; Fortran: Version 2026.0 of Intel Fortran Compiler for Linux
Compiler Category:	Vendor
Firmware:	Fujitsu BIOS Version V5.0.0.32 R2.8.0 for D4132-A1x. Released Aug-2026
File System:	xfs
System State:	Run level 3 (multi-user)
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other:	jemalloc memory allocator v5.3
Power Management:	BIOS set to prefer performance at the cost of additional power usage

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Results Table

	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
801.xz_s	24	394	1.50	391	1.51	**393**	**1.50**							
807.ntest_s	24	**664**	**1.72**	663	1.72	667	1.71							
817.flac_s	24	**320**	**5.42**	320	5.42	320	5.42							
821.gcc_s	24	896	2.31	895	2.31	**896**	**2.31**							
823.llvm_s	24	537	2.63	543	2.60	**541**	**2.61**							
827.cppcheck_s	24	495	2.26	501	2.23	**498**	**2.25**							
829.abc_s	24	245	3.39	245	3.39	**245**	**3.39**							
834.vpr_s	24	152	6.27	**151**	**6.33**	151	6.33							
835.gem5_s	24	187	6.08	190	5.98	**190**	**6.00**							
838.diamond_s	24	641	1.56	**641**	**1.56**	641	1.56							
846.minizinc_s	24	141	4.75	137	4.88	**138**	**4.86**							
853.ns3_s	24	126	9.12	125	9.21	**125**	**9.21**							
854.graph500_s	24	511	1.20	512	1.19	**511**	**1.20**							

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SPECspeed®2026_int_peak = Not Run

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"
```

Environment Variables Notes

```
Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/benchmark/cpu2026/lib"
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 CentOS Stream 9.
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
jemalloc, a general purpose malloc implementation
built with the CentOS Stream 9, and the system compiler gcc 11.5.0
sources available from jemalloc.net or https://github.com/jemalloc/jemalloc/releases
```

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CPU2026 License: 19
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Test Date: Sep-2026
Hardware Availability: Nov-2026
Software Availability: Jan-2026

Platform Notes

```
BIOS Settings:
Fan Control = Full
Total Memory Encryption = Disabled
BIOS Date reported by dmidecode represents the internal BIOS build date.

Sysinfo program /home/benchmark/cpu2026/bin/sysinfo
Rev: 779ab21020787073335a329f3a45e2cd
running on localhost Wed Sep 23 06:01:52 2026

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

------------------------------------------------------------
Table of contents
------------------------------------------------------------
 1. uname -srvm
 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. 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 -srvm
   Linux 6.4.0-150600.21-default #1 SMP PREEMPT_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86_64

------------------------------------------------------------
2. w
   06:01:52 up 2 min,  2 users,  load average: 0.11, 0.11, 0.04
  USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
  root     tty1     -                06:00   19.00s  0.78s  0.04s -bash
```

(Continued on next page)

Platform Notes (Continued)

```
  root     pts/0    192.168.10.106   06:00   24.00s  0.04s  0.04s -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
   pending signals                 (-i) 254368
   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) 254368
   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 --reportable --action validate --define default-platform-flags -c
    ic2026.0-core-avx2-cpu2026-1.0.1-speed-20260429.cfg --threads 24 --define cores=12 --tune base -o all
    --define intspeedaffinity --define smt-on --define drop_caches -n 3 intspeed
  runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
    ic2026.0-core-avx2-cpu2026-1.0.1-speed-20260429.cfg --threads 24 --define cores=12 --tune base
    --output_format all --define intspeedaffinity --define smt-on --define drop_caches --iterations 3
    --nopower --runmode speed --tune base --size refspeed intspeed --nopreenv --note-preenv --logfile
    $SPEC/tmp/CPU2026.001/templogs/preenv.intspeed.001.0.log --lognum 001.0 --from_runcpu 2
  specperl $SPEC/bin/sysinfo
 $SPEC = /home/benchmark/cpu2026

 ------------------------------------------------------------
 6. /proc/cpuinfo
     model name      : Intel(R) Xeon(R) 6377P
     vendor_id       : GenuineIntel
     cpu family      : 6
```

(Continued on next page)

Platform Notes (Continued)

```
    model           : 183
    stepping        : 1
    microcode       : 0x137
    bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb bhi
    cpu cores       : 12
    siblings        : 24
    1 physical ids (chips)
    24 processors (hardware threads)
    physical id 0: core ids 0-11
    physical id 0: apicids 0-23
  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 2.39.3:
  Architecture:                        x86_64
  CPU op-mode(s):                      32-bit, 64-bit
  Address sizes:                       46 bits physical, 48 bits virtual
  Byte Order:                          Little Endian
  CPU(s):                              24
  On-line CPU(s) list:                 0-23
  Vendor ID:                           GenuineIntel
  BIOS Vendor ID:                      Intel(R) Corporation
  Model name:                          Intel(R) Xeon(R) 6377P
  BIOS Model name:                     Intel(R) Xeon(R) 6377P   CPU @ 4.8GHz
  BIOS CPU family:                     179
  CPU family:                          6
  Model:                               183
  Thread(s) per core:                  2
  Core(s) per socket:                  12
  Socket(s):                           1
  Stepping:                            1
  CPU(s) scaling MHz:                  16%
  CPU max MHz:                         5700.0000
  CPU min MHz:                         800.0000
  BogoMIPS:                            6220.80
  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 sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
                                       xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb ssbd
                                       ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad
                                       fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdseed adx smap
```

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Platform Notes (Continued)

```
                                   clflushopt clwb intel_pt sha_ni xsaveopt xsavec xgetbv1 xsaves
                                   split_lock_detect user_shstk avx_vnni dtherm ida arat pln pts hwp
                                   hwp_notify hwp_act_window hwp_epp hwp_pkg_req hfi vnmi umip pku ospke
                                   waitpkg gfni vaes vpclmulqdq tme rdpid movdiri movdir64b fsrm
                                   md_clear serialize pconfig arch_lbr ibt flush_l1d arch_capabilities
    Virtualization:                      VT-x
    L1d cache:                           576 KiB (12 instances)
    L1i cache:                           384 KiB (12 instances)
    L2 cache:                            24 MiB (12 instances)
    L3 cache:                            36 MiB (1 instance)
    NUMA node(s):                        1
    NUMA node0 CPU(s):                   0-23
    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;
                                         PBRSB-eIBRS SW sequence; 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     576K   12 Data            1    64        1             64
       L1i       32K     384K    8 Instruction     1    64        1             64
       L2         2M      24M   16 Unified         2  2048        1             64
       L3        36M      36M   12 Unified         3 49152        1             64

  ------------------------------------------------------------
  8. numactl --hardware
  NOTE: a numactl 'node' might or might not correspond to a physical chip.
    available: 1 nodes (0)
    node 0 cpus: 0-23
    node 0 size: 63618 MB
    node 0 free: 62956 MB
    node distances:
    node   0
      0:  10

  ------------------------------------------------------------
```

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Platform Notes (Continued)

```
 9. /proc/meminfo
    MemTotal:       65144956 kB

 ------------------------------------------------------------
 10. who -r
   run-level 3 Sep 23 06:00

 ------------------------------------------------------------
 11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
   Default Target  Status
   multi-user      running

 ------------------------------------------------------------
 12. Services, from systemctl list-unit-files
   STATE            UNIT FILES
   enabled          apparmor auditd cron getty@ irqbalance issue-generator kbdsettings lvm2-monitor postfix
                    purge-kernels rollback sep5 sshd systemd-pstore wicked wickedd-auto4 wickedd-dhcp4
                    wickedd-dhcp6 wickedd-nanny
   enabled-runtime  systemd-remount-fs
   disabled         YaST2-Firstboot YaST2-Second-Stage autofs autoyast-initscripts blk-availability
                    boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed
                    debug-shell display-manager ebtables exchange-bmc-os-info firewalld fsidd gpm grub2-once
                    haveged ipmi ipmievd issue-add-ssh-keys kdump kdump-early kdump-notify kexec-load klog
                    lunmask man-db-create multipathd nfs nfs-blkmap nscd rpcbind rpmconfigcheck rsyncd rsyslog
                    serial-getty@ smartd smartd_generate_opts snmpd snmptrapd systemd-boot-check-no-failures
                    systemd-confext systemd-network-generator systemd-sysext systemd-time-wait-sync
                    systemd-timesyncd vncserver@
   indirect         systemd-userdbd wickedd

 ------------------------------------------------------------
 13. Linux kernel boot-time arguments, from /proc/cmdline
   BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default
   root=UUID=69cd5337-d082-4cee-8e02-ec4054c30a5a
   splash=silent
   resume=/dev/disk/by-uuid/a5855c9d-a4a0-4b74-baec-bd075bde416b
   quiet
   security=apparmor
   crashkernel=347M,high
   crashkernel=72M,low
   mitigations=auto

 ------------------------------------------------------------
 14. cpupower frequency-info
   analyzing CPU 14:
     current policy: frequency should be within 800 MHz and 5.70 GHz.
                     The governor "powersave" may decide which speed to use
                     within this range.
```

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Platform Notes (Continued)

```
    boost state support:
      Supported: yes
      Active: yes

 ------------------------------------------------------------
 15. sysctl
   kernel.numa_balancing                0
   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 SP6
```

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Platform Notes (Continued)

```
------------------------------------------------------------
19. Disk information
SPEC is set to: /home/benchmark/cpu2026
  Filesystem     Type  Size  Used Avail Use% Mounted on
  /dev/sda5      xfs   751G   74G  678G  10% /home

------------------------------------------------------------
20. /sys/devices/virtual/dmi/id
    Vendor:         FUJITSU
    Product:        PRIMERGY TX1330 M6
    Product Family: SERVER
    Serial:         XXXXXXXXXX

------------------------------------------------------------
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:
    2x Samsung M324R4GA3BB0-CQKOL 32 GB 2 rank 4800, configured at 4400


------------------------------------------------------------
22. BIOS
(This section combines info from /sys/devices and dmidecode.)
   BIOS Vendor:       FUJITSU // American Megatrends International, LLC.
   BIOS Version:      V5.0.0.32 R2.8.0 for D4132-A1x
   BIOS Date:         07/30/2026
   BIOS Revision:     2.8
```

Compiler Version Notes

```
==============================================================================
C      | 854.graph500_s(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C++    | 807.ntest_s(base) 827.cppcheck_s(base) 853.ns3_s(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
```

(Continued on next page)

Compiler Version Notes (Continued)

```
  Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C++, C | 801.xz_s(base) 817.flac_s(base) 821.gcc_s(base) 823.llvm_s(base)
       | 829.abc_s(base) 834.vpr_s(base) 835.gem5_s(base) 838.diamond_s(base)
       | 846.minizinc_s(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:
`icx`

C++ benchmarks:
`icpx`

Benchmarks using both C and C++:
`icpx icx`

Base Portability Flags

834.vpr_s: `-fno-fast-math`

Base Optimization Flags

C benchmarks:
```
-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xCORE-AVX2 -O3 -ffp-model=fast -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fno-strict-aliasing -fiopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

C++ benchmarks:
```
-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xCORE-AVX2 -O3 -ffp-model=fast -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -pthread -fiopenmp -DSPEC_OPENMP
```

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Base Optimization Flags (Continued)

C++ benchmarks (continued):
`-L/usr/local/jemalloc-5.3.0/lib -ljemalloc`

Benchmarks using both C and C++:
```
-m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500 -xCORE-AVX2 -O3 -ffp-model=fast
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fno-strict-aliasing -fiopenmp -DSPEC_OPENMP -pthread
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.html
http://www.spec.org/cpu2026/results/flags/Fsas-Platform-Settings-V1.0-RPL-R-RevB.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.xml
http://www.spec.org/cpu2026/results/flags/Fsas-Platform-Settings-V1.0-RPL-R-RevB.xml

Tested with SPEC CPU®2026 v1.0.1 on 2026-09-22 17:01:52-0400.
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