<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>SPECspeed®2017_fp_base</th>
<th>SPECspeed®2017_fp_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>603.bwaves_s</td>
<td>48</td>
<td>0</td>
<td>1050</td>
</tr>
<tr>
<td>607.cactuBSSN_s</td>
<td>48</td>
<td>351</td>
<td>1080</td>
</tr>
<tr>
<td>619.lbm_s</td>
<td>48</td>
<td>259</td>
<td></td>
</tr>
<tr>
<td>621.wrf_s</td>
<td>48</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td>627.cam4_s</td>
<td>48</td>
<td>163</td>
<td></td>
</tr>
<tr>
<td>628.pop2_s</td>
<td>48</td>
<td>92.7</td>
<td></td>
</tr>
<tr>
<td>638.imagick_s</td>
<td>48</td>
<td>569</td>
<td></td>
</tr>
<tr>
<td>644.nab_s</td>
<td>48</td>
<td>510</td>
<td></td>
</tr>
<tr>
<td>649.fotonik3d_s</td>
<td>48</td>
<td>177</td>
<td></td>
</tr>
<tr>
<td>654.roms_s</td>
<td>48</td>
<td>393</td>
<td></td>
</tr>
</tbody>
</table>

**Hardware**

CPU Name: Intel Xeon Gold 6442Y  
Max MHz: 4000  
Nominal: 2600  
Enabled: 48 cores, 2 chips  
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: 60 MB I+D on chip per chip  
Other: None  
Memory: 512 GB (16 x 32 GB 2Rx4 PC5-4800B-R)  
Storage: 1 x 1 TB NVME SSD  
Other: None

**Software**

OS: Red Hat Enterprise Linux 9.0 (Plow)  
Compiler: C/C++: Version 2023.0 of Intel oneAPI DPC++/C++ Compiler for Linux;  
Fortran: Version 2023.0 of Intel Fortran Compiler for Linux;  
Parallel: Yes  
Firmware: Version 03.01.00 released Dec-2022  
File System: xfs  
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 and OS set to prefer performance at the cost of additional power usage.
IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

SPECspeed®2017_fp_base = 300
SPECspeed®2017_fp_peak = 300

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
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<td>163</td>
<td>54.4</td>
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<tr>
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<td>92.7</td>
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<td>40.2</td>
<td>391</td>
<td>40.0</td>
<td>393</td>
</tr>
</tbody>
</table>

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,compact"
- LD_LIBRARY_PATH = "*/home/CPU2017/lib/intel64:/home/CPU2017/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
IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

SPECspeed®2017_fp_base = 300
SPECspeed®2017_fp_peak = 300

| CPU2017 License: | 3358 |
| Test Sponsor: | IEIT Systems Co., Ltd. |
| Tested by: | IEIT Systems Co., Ltd. |
| Test Date: | Oct-2023 |
| Hardware Availability: | Apr-2023 |
| Software Availability: | Dec-2022 |

Platform Notes

BIOS configuration:
- ENERGY_PERF_BIAS_CFG mode set to Performance
- Hardware Prefetch set to Disable
- VT Support set to Disable
- Hyper Threading set to disable

Sysinfo program /home/CPU2017/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097be1c97
running on localhost Wed Oct 18 15:01:47 2023

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. numacl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 250 (250-6.e19_0)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. tuned-adm active
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 5.14.0-70.22.1.el9_0.x86_64 #1 SMP PREEMPT Tue Aug 2 10:02:12 EDT 2022 x86_64 x86_64 x86_64
   GNU/Linux

2. w
   15:01:47 up 0 min,  1 user,  load average: 0.07, 0.03, 0.01
   USER     TTY        LOGIN@   IDLE   JCPU   PCPU WHAT
   root     tty1      15:01   11.00s  0.72s  0.00s sh
   reportable-ic2023.0-lin-sapphirerapids-speed-smt-off-20221201.sh

3. Username
   From environment variable $USER: root

4. ulimit -a
   real-time non-blocking time (microseconds, -R) unlimited
   core file size (blocks, -c) 0
IEIT Systems Co., Ltd.

NF5180M7 (Intel Xeon Gold 6442Y)

**SPEC CPU®2017 Floating Point Speed Result**

SPECspeed®2017_fp_base = 300

SPECspeed®2017_fp_peak = 300

---

**Platform Notes (Continued)**

data seg size        (kbytes, -d) unlimited
scheduling priority  (-e) 0
file size           (blocks, -f) unlimited
pending signals     (-i) 2062267
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) 2062267
virtual memory      (kbytes, -v) unlimited
file locks          (-x) unlimited

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize 28
login -- root
-bash
```

sh reportable-ic2023.0-lin-sapphirerapids-speed-smt-off-20221201.sh
runcpu --nobuild --action validate --define default-platform-flags -c ic203.0-lin-sapphirerapids-speed-20221201.cfg --define cores=48 --tune base,peak -o all --define drop_caches fpspeed
runcpu --nobuild --action validate --define default-platform-flags --configfile ic203.0-lin-sapphirerapids-speed-20221201.cfg --define cores=48 --tune base,peak --output_format all --define drop_caches --nopower --runmode speed --tune base:peak --size refspeed fppea # --note-preenv --logfile $SPEC/tmp/CPU2017.010/templogs/preenv.fpspeed.010.0.log --lognum 010.0
--from_runcpu 2
specperl $SPEC/bin/sysinfo

$SPEC = /home/CPU2017

6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) Gold 6442Y
vendor_id       : GenuineIntel
cpu family      : 6
model           : 143
stepping        : 8
microcode       : 0x2b000130
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs
cpu cores       : 24
siblings        : 24
2 physical ids (chips)
48 processors (hardware threads)
physical id 0: core ids 0-23
physical id 1: core ids 0-23
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
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

```
Architecture:          x86_64
CPU op-mode(s):         32-bit, 64-bit
```

---

(Continued on next page)
IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

CPU2017 License: 3358
Test Sponsor: IEIT Systems Co., Ltd.
Tested by: IEIT Systems Co., Ltd.

SPECspeed®2017_fp_base = 300
SPECspeed®2017_fp_peak = 300

Platform Notes (Continued)

Address sizes: 52 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 48
On-line CPU(s) list: 0-47
Vendor ID: GenuineIntel
BIOS Vendor ID: Intel(R) Corporation
Model name: Intel(R) Xeon(R) Gold 6442Y
BIOS Model name: Intel(R) Xeon(R) Gold 6442Y
CPU family: 6
Model: 143
Thread(s) per core: 1
Core(s) per socket: 24
Socket(s): 2
Stepping: 8
CPU max MHz: 4000.0000
CPU min MHz: 800.0000
BogoMIPS: 5200.00

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 pdpe1gb
    rdtscp lm constant_tsc arch_perfmon pebs bts rep_good nopl xtopology
    nonstop_tsc tsc_deadline_timer aes xsave avx f16c rdrand
    lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 cat_d2 cld
    cmp cmov pmovnb stp m Ack bxor bxor64 bts
    cx16 xtpr pdcm pcid dca sse4_1
    tso mmxex rdtscp msr dbx ce ms nonce
    pge tso dyninst mmxm
    mmxex cmov
    rdtscp fma cx8 mempecish pxrd
    cmov

Virtualization: VT-x
L1d cache: 2.3 MiB (48 instances)
L1i cache: 1.5 MiB (48 instances)
L2 cache: 96 MiB (48 instances)
L3 cache: 120 MiB (2 instances)
NUMA node(s): 2
    NUMA node0 CPU(s): 2-23
    NUMA node1 CPU(s): 24-47

Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Spl file bypass: Mitigation; Spectacular Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
Vulnerability Srbds: Not affected
Vulnerability Tax async abort: Not affected

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
### SPEC CPU®2017 Floating Point Speed Result

**IEIT Systems Co., Ltd.**

**NF5180M7 (Intel Xeon Gold 6442Y)**

<table>
<thead>
<tr>
<th>SPECspeed®2017_fp_base</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_fp_peak</td>
<td>300</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 3358

**Test Sponsor:** IEIT Systems Co., Ltd.

**Test Date:** Oct-2023

**Hardware Availability:** Apr-2023

**Tested by:** IEIT Systems Co., Ltd.

**Software Availability:** Dec-2022

---

**Platform Notes (Continued)**

---

8. `numactl --hardware`

```plaintext
NOTE: a numactl 'node' might or might not correspond to a physical chip.
available: 2 nodes (0-1)
  node 0 cpus: 0-23
  node 0 size: 257574 MB
  node 0 free: 256524 MB
  node 1 cpus: 24-47
  node 1 size: 258031 MB
  node 1 free: 257433 MB
  node distances:
    node   0   1
    0:  10  21
    1:  21  10
```

---

9. `/proc/meminfo`

```plaintext
MemTotal:       527981368 kB
```

---

10. `who -r`

```plaintext
run-level 3 Oct 18 15:00
```

---

11. Systemd service manager version: systemd 250 (250-6.e19_0)

```plaintext
Default Target Status
  multi-user running
```

---

12. Services, from `systemctl list-unit-files`

```plaintext
STATE UNIT FILES
  enabled  dbus-broker getty@ tuned udisks2 upower
  enabled-runtime  systemd-remount-fs
  disabled  NetworkManager NetworkManager-dispatcher NetworkManager-wait-online auditd
            blk-availability canberra-system-bootstrap canberra-system-shutdown
            canberra-system-shutdown-reboot chrony-wait chronyd console-getty cpupower cron
c            debug-shell firewallld irqbalance kdump kvm_stat lvm2-monitor man-db-restart-cache-update
            mdmonitor microcode nftables nis-domainname rdisc rshm rshm-facts rshmcertd rpmdb-rebuild
            rsyslog selinux-autorelabel-mark sep5 serial-getty@ sshd sshd-keygen@ sssd
            systemd-boot-check-no-failures systemd-network-generator systemd-pstore systemd-sysext
            indirect
            sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ash sssd-sudo
```

---

13. Linux kernel boot-time arguments, from `/proc/cmdline`

```plaintext
BOOT_IMAGE=(hd0,gpt2)/vmlinuz-5.14.0-70.22.1.el9_0.x86_64
root=/dev/mapper/rhel-root
ro
resume=/dev/mapper/rhel-swap
rd.lvm.lv=rhel/root
rd.lvm.lv=rhel/swap
```

---

14. `cpupower frequency-info`

```plaintext
analyzing CPU 0:
current policy: frequency should be within 800 MHz and 4.00 GHz.
The governor "performance" may decide which speed to use
within this range.
boost state support:
  Supported: yes
  Active: yes
```

(Continued on next page)
IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

CPU2017 License: 3358
Test Sponsor: IEIT Systems Co., Ltd.
Tested by: IEIT Systems Co., Ltd.
Test Date: Oct-2023
Hardware Availability: Apr-2023
Software Availability: Dec-2022

Platform Notes (Continued)

15. tuned-adm active
   Current active profile: throughput-performance

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                       40
   vm.dirty_writeback_centisecs         500
   vm.dirtytime_expire_seconds         43200
   vm.extr frag_threshold               500
   vm.min_unmapped_ratio                1
   vm.nr_hugepages                      0
   vm.nr_hugepages_mempolicy            0
   vm.nr_overcommit_hugepages           0
   vm.swappiness                       10
   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
e nable [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 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: /home/CPU2017
   Filesystem Type Size Used Avail Use% Mounted on
   /dev/mapper/rhel-home xfs 819G 213G 607G 26% /home

21. /sys/devices/virtual/dmi/id
   Vendor: IIE

(Continued on next page)
IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

CPU2017 License: 3358
Test Sponsor: IEIT Systems Co., Ltd.
Tested by: IEIT Systems Co., Ltd.

Test Date: Oct-2023
Hardware Availability: Apr-2023
Software Availability: Dec-2022

Platform Notes (Continued)

Product: NF5180M7
Product Family: Not specified
Serial: 000000000

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-CQKV 32 GB 2 rank 4800

23. BIOS
(BThis section combines info from /sys/devices and dmidecode.)
BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 03.01.00
BIOS Date: 12/29/2022

Compiler Version Notes

C               | 619.lbm_s(base, peak) 638.imagick_s(base, peak) 644.nab_s(base, peak)
------------------------------------------------------------------------------------------------------------
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.
------------------------------------------------------------------------------------------------------------

C++, C, Fortran | 607.cactuBSSN_s(base, peak)
------------------------------------------------------------------------------------------------------------
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.
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.
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.
------------------------------------------------------------------------------------------------------------

Fortran         | 603.bwaves_s(base, peak) 649.fotonik3d_s(base, peak) 654.roms_s(base, peak)
------------------------------------------------------------------------------------------------------------
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.
------------------------------------------------------------------------------------------------------------

Fortran, C      | 621.wrf_s(base, peak) 627.cam4_s(base, peak) 628.pop2_s(base, peak)
------------------------------------------------------------------------------------------------------------
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
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IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

CPU2017 License: 3358
Test Sponsor: IEIT Systems Co., Ltd.
Tested by: IEIT Systems Co., Ltd.

SPECspeed®2017_fp_base = 300
SPECspeed®2017_fp_peak = 300

Test Date: Oct-2023
Hardware Availability: Apr-2023
Software Availability: Dec-2022

Base Compiler Invocation

C benchmarks:
icx

Fortran benchmarks:
ifx

Benchmarks using both Fortran and C:
ifx icx

Benchmarks using Fortran, C, and C++:
icpx icx ifx

Base Portability Flags

603.bwaves_s: -DSPEC_LP64
607.cactuBSSN_s: -DSPEC_LP64
619.lbm_s: -DSPEC_LP64
621.wrf_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
627.cam4_s: -DSPEC_LP64 -DSPEC_CASE_FLAG
628.pop2_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
-assume byterecl
638.imagick_s: -DSPEC_LP64
644.nab_s: -DSPEC_LP64
649.fotonik3d_s: -DSPEC_LP64
654.roms_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-m64 -std=c11 -Wl,-z,muldefs -xsapphirerapids -Ofast -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-DSPEC_OPENMP -Wno-implicit-int -mprefer-vector-width=512
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Fortran benchmarks:
-m64 -Wl,-z,muldefs -DSPEC_OPENMP -xsapphirerapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fiopenmp -nostandard-realloc-lhs
-align array32byte -auto -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using both Fortran and C:
-m64 -std=c11 -Wl,-z,muldefs -xsapphirerapids -Ofast -ffast-math

(Continued on next page)
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**Base Optimization Flags (Continued)**

Benchmarks using both Fortran and C (continued):
- -flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
- -DSPEC_OPENMP -Wno-implicit-int -mprefer-vector-width=512
- -nostandard-realloc-lhs -align array32byte -auto
- -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using Fortran, C, and C++:
- -m64 -std=c++14 -std=c11 -Wl,-z,muldefs -xsapphirerapids -Ofast
- -ffast-math -flto -mfpmath=sse -funroll-loops
- -qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP -Wno-implicit-int
- -mprefer-vector-width=512 -nostandard-realloc-lhs -align array32byte
- -auto -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

**Peak Compiler Invocation**

C benchmarks:
- icx

Fortran benchmarks:
- ifx

Benchmarks using both Fortran and C:
- ifx icx

Benchmarks using Fortran, C, and C++:
- icpx icx ifx

**Peak Portability Flags**

Same as Base Portability Flags

**Peak Optimization Flags**

C benchmarks:
- 619.lbm_s: basepeak = yes
- 638.imagick_s: basepeak = yes
IEIT Systems Co., Ltd.
NF5180M7 (Intel Xeon Gold 6442Y)

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<td>Software Availability: Dec-2022</td>
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## Peak Optimization Flags (Continued)

644.nab_s: basepeak = yes

**Fortran benchmarks:**


649.fotonik3d_s: basepeak = yes

654.rome_s: basepeak = yes

**Benchmarks using both Fortran and C:**

621.wrf_s: basepeak = yes


628.pop2_s: basepeak = yes

**Benchmarks using Fortran, C, and C++:**

607.cactuBSSN_s: basepeak = yes

---

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

http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.html

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

http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.xml
http://www.spec.org/cpu2017/flags/Inspur-Platform-Settings-intel-V3.4.xml

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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU®2017 v1.1.9 on 2023-10-18 15:01:46-0400.
Report generated on 2023-11-21 20:30:56 by CPU2017 PDF formatter v6716.
Originally published on 2023-11-21.