SPEC CPU®2017 Floating Point Speed Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge MX760c (Intel Xeon Platinum 8452Y)

$SPECspeed^{®}2017\_fp\_base = 274$

$SPECspeed^{®}2017\_fp\_peak = 274$

CPU2017 License: 6573　　　　　　　　　　　　　　　　　　　　**Test Date:** Dec-2022
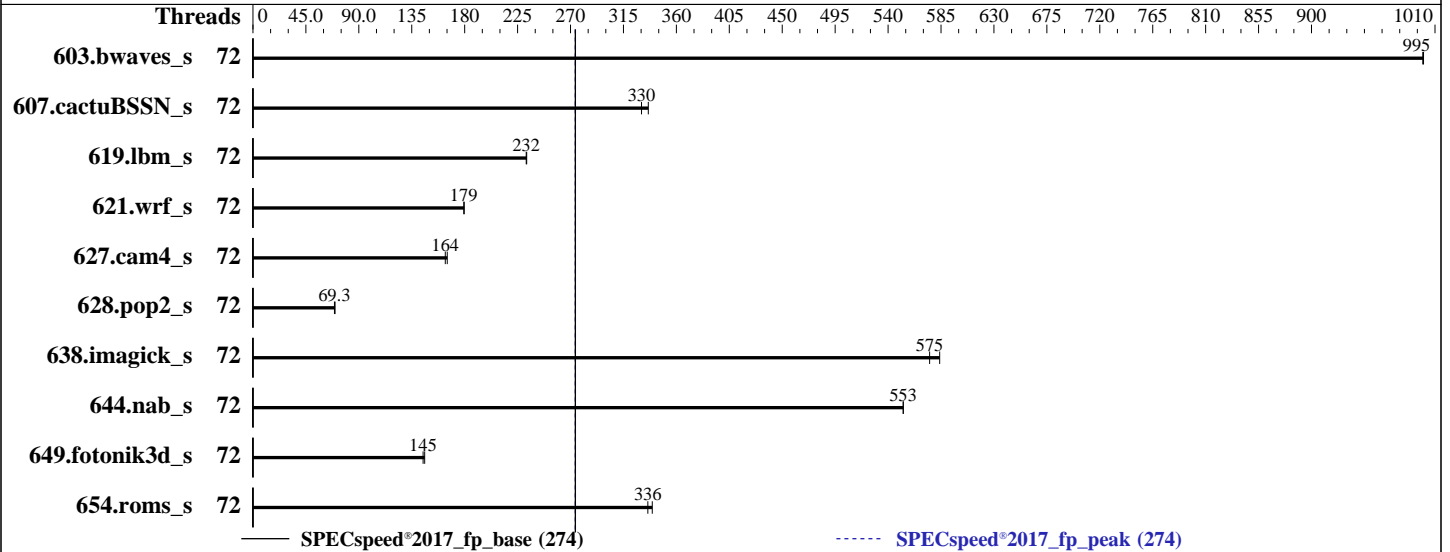**Test Sponsor:** Dell Inc.　　　　　　　　　　　　　　　　　　**Hardware Availability:** Feb-2023
Tested by: Dell Inc.　　　　　　　　　　　　　　　　　　　　**Software Availability:** Nov-2022

Threads | 0　45.0　90.0　135　180　225　270　315　360　405　450　495　540　585　630　675　720　765　810　855　900　1010

- **603.bwaves_s** **72** — 995
- **607.cactuBSSN_s** **72** — 330
- **619.lbm_s** **72** — 232
- **621.wrf_s** **72** — 179
- **627.cam4_s** **72** — 164
- **628.pop2_s** **72** — 69.3
- **638.imagick_s** **72** — 575
- **644.nab_s** **72** — 553
- **649.fotonik3d_s** **72** — 145
- **654.roms_s** **72** — 336

———— **SPECspeed®2017_fp_base (274)**　　　　　　----- **SPECspeed®2017_fp_peak (274)**

Hardware

CPU Name: Intel Xeon Platinum 8452Y
 Max MHz: 3200
 Nominal: 2000
Enabled: 72 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: 67.5 MB I+D on chip per chip
 Other: None
Memory: 1 TB (16 x 64 GB 2Rx4 PC5-4800B-R)
Storage: 125 GB on tmpfs
Other: None

Software

OS: Red Hat Enterprise Linux 8.7 (Ootpa)
　　　4.18.0-425.3.1.el8.x86_64
Compiler: C/C++: Version 2022.1 of Intel oneAPI DPC++/C++
　　　Compiler for Linux;
　　　Fortran: Version 2022.1 of Intel Fortran Compiler
　　　for Linux;
Parallel: Yes
Firmware: Version 0.3.2 released Nov-2022
File System: tmpfs
System State: Run level 5 (graphical 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.

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Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s	72	**59.3**	**995**	59.3	995			72	**59.3**	**995**	59.3	995		
607.cactuBSSN_s	72	**50.5**	**330**	49.6	336			72	**50.5**	**330**	49.6	336		
619.lbm_s	72	22.5	233	**22.5**	**232**			72	22.5	233	**22.5**	**232**		
621.wrf_s	72	73.6	180	**73.8**	**179**			72	73.6	180	**73.8**	**179**		
627.cam4_s	72	53.7	165	**54.2**	**164**			72	53.7	165	**54.2**	**164**		
628.pop2_s	72	170	69.8	**171**	**69.3**			72	170	69.8	**171**	**69.3**		
638.imagick_s	72	24.7	584	**25.1**	**575**			72	24.7	584	**25.1**	**575**		
644.nab_s	72	**31.6**	**553**	31.6	553			72	**31.6**	**553**	31.6	553		
649.fotonik3d_s	72	62.4	146	**63.0**	**145**			72	62.4	146	**63.0**	**145**		
654.roms_s	72	46.4	339	**46.9**	**336**			72	46.4	339	**46.9**	**336**		
SPECspeed®2017_fp_base =	**274**													
SPECspeed®2017_fp_peak =	**274**													

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 =
     "/mnt/ramdisk/cpu2017-1.1.8-ic2022.1/lib/intel64:/mnt/ramdisk/cpu2017-1.
     1.8-ic2022.1/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
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

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)
is mitigated in the system as tested and documented.
```

(Continued on next page)

Dell Inc.

PowerEdge MX760c (Intel Xeon Platinum 8452Y)

SPECspeed®2017_fp_base = 274

SPECspeed®2017_fp_peak = 274

CPU2017 License: 6573		**Test Date:**	Dec-2022
Test Sponsor: Dell Inc.		**Hardware Availability:** Feb-2023	
Tested by: Dell Inc.		**Software Availability:** Nov-2022	

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.

Benchmark run from a 125 GB ramdisk created with the cmd: "mount -t tmpfs -o size=125G tmpfs /mnt/ramdisk"

Platform Notes

```
BIOS settings:
                    ADDDC Setting : Disabled
         DIMM Self Healing on
   Uncorrectable Memory Error : Disabled
   Virtualization Technology : Disabled
           Logical Processor : Disabled
             Sub NUMA Cluster : 2-way Clustering
   DCU Streamer Prefetcher : Disabled
               LLC Prefetch : Disabled
        Dead Line LLC Alloc : Disabled
           Optimizer Mode : Enabled

             System Profile : Custom
       CPU Power Management : Maximum Performance
                        C1E : Disabled
                   C States : Autonomous
       Memory Patrol Scrub : Disabled
   Energy Efficiency Policy : Performance
           PCI ASPM L1 Link
           Power Management : Disabled

 Sysinfo program /mnt/ramdisk/cpu2017-1.1.8-ic2022.1/bin/sysinfo
 Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acafc64d
 running on localhost.localdomain Sat Dec 10 01:54:50 2022

 SUT (System Under Test) info as seen by some common utilities.
 For more information on this section, see
    https://www.spec.org/cpu2017/Docs/config.html#sysinfo

 From /proc/cpuinfo
    model name : Intel(R) Xeon(R) Platinum 8452Y
       2  "physical id"s (chips)
       72 "processors"
    cores, siblings (Caution: counting these is hw and system dependent. The following
    excerpts from /proc/cpuinfo might not be reliable.  Use with caution.)
       cpu cores : 36
```

(Continued on next page)

Dell Inc.

PowerEdge MX760c (Intel Xeon Platinum 8452Y)

$SPECspeed®2017\_fp\_base = 274$

$SPECspeed®2017\_fp\_peak = 274$

CPU2017 License: 6573　　　　　　　　　　　　　　　　　　　　**Test Date:** Dec-2022
Test Sponsor: Dell Inc.　　　　　　　　　　　　　　　　　　**Hardware Availability:** Feb-2023
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Platform Notes (Continued)

```
     siblings  : 36
     physical 0: cores 0 1 2 3 4 5 6 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
     26 27 28 29 30 31 32 33 34 35
     physical 1: cores 0 1 2 3 4 5 6 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
     26 27 28 29 30 31 32 33 34 35

 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):              72
     On-line CPU(s) list: 0-71
     Thread(s) per core:  1
     Core(s) per socket:  36
     Socket(s):           2
     NUMA node(s):        4
     Vendor ID:           GenuineIntel
     BIOS Vendor ID:      Intel
     CPU family:          6
     Model:               143
     Model name:          Intel(R) Xeon(R) Platinum 8452Y
     BIOS Model name:     Intel(R) Xeon(R) Platinum 8452Y
     Stepping:            8
     CPU MHz:             2000.000
     BogoMIPS:            4000.00
     L1d cache:           48K
     L1i cache:           32K
     L2 cache:            2048K
     L3 cache:            69120K
     NUMA node0 CPU(s):   0,4,8,12,16,20,24,28,32,36,40,44,48,52,56,60,64,68
     NUMA node1 CPU(s):   2,6,10,14,18,22,26,30,34,38,42,46,50,54,58,62,66,70
     NUMA node2 CPU(s):   1,5,9,13,17,21,25,29,33,37,41,45,49,53,57,61,65,69
     NUMA node3 CPU(s):   3,7,11,15,19,23,27,31,35,39,43,47,51,55,59,63,67,71
     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 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_l3 cat_l2 cdp_l3
     invpcid_single cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced fsgsbase tsc_adjust
     bmi1 avx2 smep bmi2 erms invpcid cqm rdt_a avx512f avx512dq rdseed adx smap
     avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt
     xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local
     split_lock_detect avx_vnni avx512_bf16 wbnoinvd dtherm ida arat pln pts hfi
     avx512vbmi umip pku ospke waitpkg avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni
     avx512_bitalg tme avx512_vpopcntdq la57 rdpid bus_lock_detect cldemote movdiri
     movdir64b enqcmd fsrm md_clear serialize tsxldtrk pconfig arch_lbr amx_bf16
```

(Continued on next page)

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Software Availability: Nov-2022

Platform Notes (Continued)

```
    avx512_fp16 amx_tile amx_int8 flush_l1d arch_capabilities

 /proc/cpuinfo cache data
    cache size : 69120 KB

 From numactl --hardware
 WARNING: a numactl 'node' might or might not correspond to a physical chip.
   available: 4 nodes (0-3)
   node 0 cpus: 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68
   node 0 size: 257240 MB
   node 0 free: 248308 MB
   node 1 cpus: 2 6 10 14 18 22 26 30 34 38 42 46 50 54 58 62 66 70
   node 1 size: 258002 MB
   node 1 free: 257349 MB
   node 2 cpus: 1 5 9 13 17 21 25 29 33 37 41 45 49 53 57 61 65 69
   node 2 size: 258043 MB
   node 2 free: 257315 MB
   node 3 cpus: 3 7 11 15 19 23 27 31 35 39 43 47 51 55 59 63 67 71
   node 3 size: 258041 MB
   node 3 free: 251346 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

 From /proc/meminfo
   MemTotal:       1056079472 kB
   HugePages_Total:        0
   Hugepagesize:        2048 kB

 /sbin/tuned-adm active
     Current active profile: throughput-performance

 From /etc/*release* /etc/*version*
    os-release:
      NAME="Red Hat Enterprise Linux"
      VERSION="8.7 (Ootpa)"
      ID="rhel"
      ID_LIKE="fedora"
      VERSION_ID="8.7"
      PLATFORM_ID="platform:el8"
      PRETTY_NAME="Red Hat Enterprise Linux 8.7 (Ootpa)"
      ANSI_COLOR="0;31"
    redhat-release: Red Hat Enterprise Linux release 8.7 (Ootpa)
    system-release: Red Hat Enterprise Linux release 8.7 (Ootpa)
```

(Continued on next page)

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Platform Notes (Continued)

```
    system-release-cpe: cpe:/o:redhat:enterprise_linux:8::baseos

    uname -a:
       Linux localhost.localdomain 4.18.0-425.3.1.el8.x86_64 #1 SMP Fri Sep 30 11:45:06 EDT
       2022 x86_64 x86_64 x86_64 GNU/Linux

    Kernel self-reported vulnerability status:

    CVE-2018-12207 (iTLB Multihit):                    Not affected
    CVE-2018-3620 (L1 Terminal Fault):                 Not affected
    Microarchitectural Data Sampling:                  Not affected
    CVE-2017-5754 (Meltdown):                          Not affected
    mmio_stale_data:                                   Not affected
    retbleed:                                          Not affected
    CVE-2018-3639 (Speculative Store Bypass):          Mitigation: Speculative Store
                                                       Bypass disabled via prctl
    CVE-2017-5753 (Spectre variant 1):                 Mitigation: usercopy/swapgs
                                                       barriers and __user pointer
                                                       sanitization
    CVE-2017-5715 (Spectre variant 2):                 Mitigation: Enhanced IBRS, IBPB:
                                                       conditional, RSB filling,
                                                       PBRSB-eIBRS: SW sequence
    CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
    CVE-2019-11135 (TSX Asynchronous Abort):           Not affected

    run-level 5 Dec 9 22:51

    SPEC is set to: /mnt/ramdisk/cpu2017-1.1.8-ic2022.1
       Filesystem      Type   Size  Used Avail Use% Mounted on
       tmpfs           tmpfs  125G  9.6G  116G   8% /mnt/ramdisk

    From /sys/devices/virtual/dmi/id
       Vendor:          Dell Inc.
       Product:         PowerEdge MX760c
       Product Family:  PowerEdge
       Serial:          MWCFG04

    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 002C0632002C MTC40F2046S1RC48BA1 64 GB 2 rank 4800

    BIOS:
       BIOS Vendor:      Dell Inc.
       BIOS Version:     0.3.2
```

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Platform Notes (Continued)

```
      BIOS Date:        11/30/2022
      BIOS Revision:    0.3

  (End of data from sysinfo program)
```

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 2022.1.0 Build 20220316
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 2022.1.0 Build 20220316
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2022.1.0 Build 20220316
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version
  2022.1.0 Build 20220316
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
  2022.1.0 Build 20220316
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
  2022.1.0 Build 20220316
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
```

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Compiler Version Notes (Continued)

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2022.1.0 Build 20220316
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
----------------------------------------------------------------------------
```

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 -xCORE-AVX512 -Ofast -ffast-math -flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc`

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Base Optimization Flags (Continued)

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

Benchmarks using Fortran, C, and C++:
```
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-DSPEC_OPENMP -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:

(Continued on next page)

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Tested by: Dell Inc.　　　　　　　　　　　　　　　**Software Availability:** Nov-2022

Peak Optimization Flags (Continued)

619.lbm_s: `basepeak = yes`

638.imagick_s: `basepeak = yes`

644.nab_s: `basepeak = yes`

Fortran benchmarks:

603.bwaves_s: `basepeak = yes`

649.fotonik3d_s: `basepeak = yes`

654.roms_s: `basepeak = yes`

Benchmarks using both Fortran and C:

621.wrf_s: `basepeak = yes`

627.cam4_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-ic2022-official-linux64-revB.html`
`http://www.spec.org/cpu2017/flags/Dell-Platform-Flags-PowerEdge-Intel-Xeon-v1.2.html`

You can also download the XML flags sources by saving the following links:
`http://www.spec.org/cpu2017/flags/Intel-ic2022-official-linux64-revB.xml`
`http://www.spec.org/cpu2017/flags/Dell-Platform-Flags-PowerEdge-Intel-Xeon-v1.2.xml`

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

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