SPEC CPU®2017 Floating Point Rate Result

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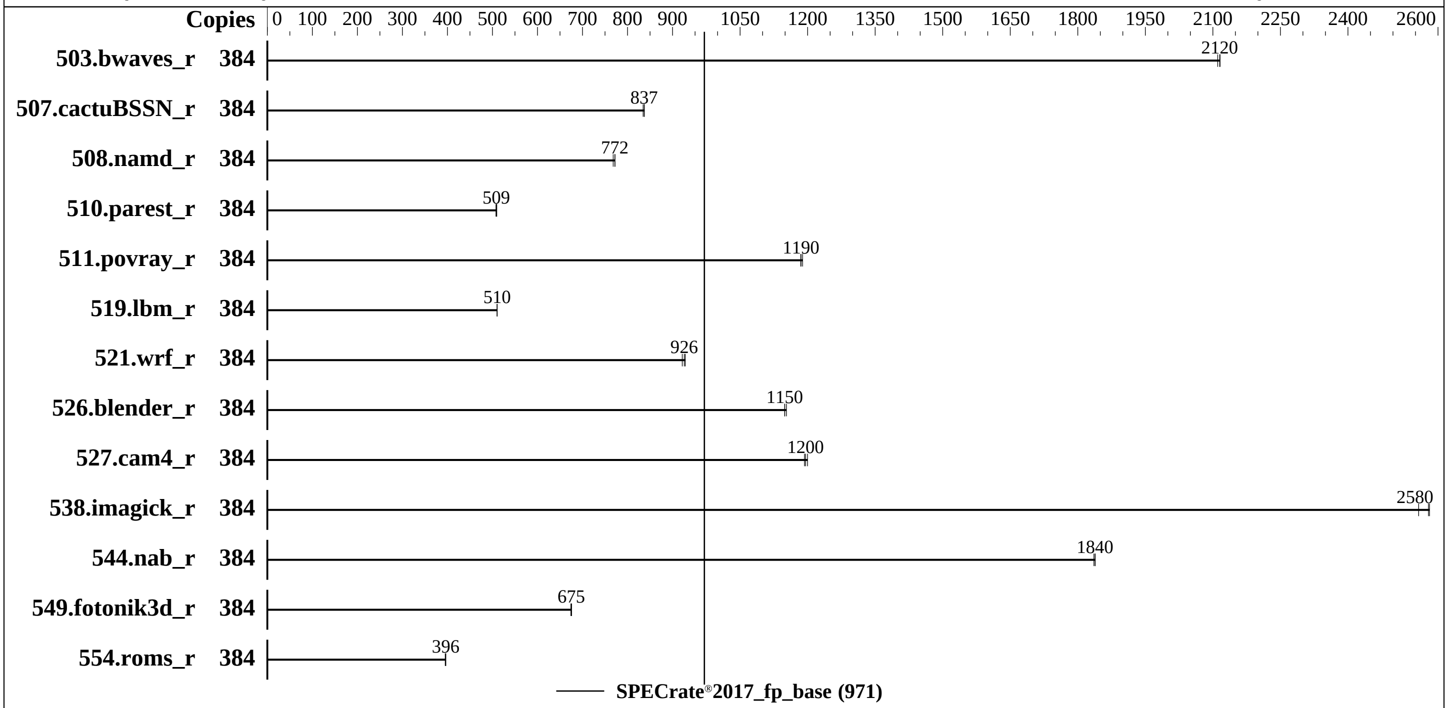
Fujitsu

PRIMEQUEST 3800E2, Intel Xeon Platinum 8260M, 2.40GHz

SPECrate®2017_fp_base = 971

SPECrate®2017_fp_peak = Not Run

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu
Test Date: Jul-2019
Hardware Availability: Apr-2019
Software Availability: Feb-2019



Hardware

CPU Name:	Intel Xeon Platinum 8260M
Max MHz:	3900
Nominal:	2400
Enabled:	192 cores, 8 chips, 2 threads/core
Orderable:	2,4,6,8 chips
Cache L1:	32 KB I + 32 KB D on chip per core
L2:	1 MB I+D on chip per core
L3:	35.75 MB I+D on chip per chip
Other:	None
Memory:	3 TB (96 x 32 GB 2Rx4 PC4-2933Y-R)
Storage:	1 x SAS HDD, 600GB, 10.5K RPM, SAS HDD
Other:	None

Software

OS:	SUSE Linux Enterprise Server 15 4.12.14-25.28-default
Compiler:	C/C++: Version 19.0.0.117 of Intel C/C++ Compiler for Linux; Fortran: Version 19.0.0.117 of Intel Fortran Compiler for Linux
Parallel:	No
Firmware:	PRIMEQUEST 3800E2 Unified Firmware Version PB19043, Released Jun-2019
File System:	xfs
System State:	Run level 3 (multi-user)
Base Pointers:	64-bit
Peak Pointers:	Not Applicable
Other:	None
Power Management:	--

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Results Table

	Base							Peak						
Benchmark	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Copies**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
503.bwaves_r	384	1820	2120	**1821**	**2120**	1824	2110							
507.cactuBSSN_r	384	**581**	**837**	581	837	582	835							
508.namd_r	384	475	768	473	772	**473**	**772**							
510.parest_r	384	**1974**	**509**	1978	508	1971	510							
511.povray_r	384	754	1190	**756**	**1190**	757	1180							
519.lbm_r	384	793	511	**793**	**510**	793	510							
521.wrf_r	384	933	922	927	928	**929**	**926**							
526.blender_r	384	507	1150	**509**	**1150**	509	1150							
527.cam4_r	384	563	1190	560	1200	**562**	**1200**							
538.imagick_r	384	**370**	**2580**	373	2560	370	2580							
544.nab_r	384	352	1840	**352**	**1840**	351	1840							
549.fotonik3d_r	384	2220	674	**2216**	**675**	2215	676							
554.roms_r	384	**1540**	**396**	1544	395	1540	396							

SPECrate®2017_fp_base = 971

SPECrate®2017_fp_peak = Not Run

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"
Kernel Boot Parameter set with : nohz_full=1-383
```

General Notes

```
Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/Benchmark/speccpu2017-fp/lib/intel64"

 Binaries compiled on a system with 1x Intel Core i9-799X CPU + 32GB RAM
 memory using Redhat Enterprise Linux 7.5
 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)
```

(Continued on next page)

General Notes (Continued)

```
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.
```

Platform Notes

```
BIOS configuration:
DCU Streamer Prefetcher = Disabled
DDR4 Write Data CRC Protection = Disabled
LLC Dead Line Alloc = Enabled
Sub Numa Clustering = Enabled
Uncore Frequency Scaling = Disabled
UPI Link L0p = Disabled
Fan Control = Full
Sysinfo program /home/Benchmark/speccpu2017-fp/bin/sysinfo
Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9
running on linux-8r5c Thu Jul 11 22:52:34 2019

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 8260M CPU @ 2.40GHz
      8  "physical id"s (chips)
      384 "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 : 24
      siblings  : 48
      physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
      physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
      physical 2: cores 0 1 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29
      physical 3: cores 0 1 2 3 4 5 6 8 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29
      physical 4: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
      physical 5: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
      physical 6: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
      physical 7: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29

From lscpu:
     Architecture:        x86_64
     CPU op-mode(s):      32-bit, 64-bit
     Byte Order:          Little Endian
     CPU(s):              384
```

(Continued on next page)

Platform Notes (Continued)

```
On-line CPU(s) list: 0-383
Thread(s) per core:  2
Core(s) per socket:  24
Socket(s):           8
NUMA node(s):        16
Vendor ID:           GenuineIntel
CPU family:          6
Model:               85
Model name:          Intel(R) Xeon(R) Platinum 8260M CPU @ 2.40GHz
Stepping:            6
CPU MHz:             2400.000
CPU max MHz:         3900.0000
CPU min MHz:         1000.0000
BogoMIPS:            4800.00
Virtualization:      VT-x
L1d cache:           32K
L1i cache:           32K
L2 cache:            1024K
L3 cache:            36608K
NUMA node0 CPU(s):   0-3,7-9,13-15,19,20,192-195,199-201,205-207,211,212
NUMA node1 CPU(s):   4-6,10-12,16-18,21-23,196-198,202-204,208-210,213-215
NUMA node2 CPU(s):   24-27,31-33,37-39,43,44,216-219,223-225,229-231,235,236
NUMA node3 CPU(s):   28-30,34-36,40-42,45-47,220-222,226-228,232-234,237-239
NUMA node4 CPU(s):   48-50,54-56,60-62,66-68,240-242,246-248,252-254,258-260
NUMA node5 CPU(s):   51-53,57-59,63-65,69-71,243-245,249-251,255-257,261-263
NUMA node6 CPU(s):   72-75,79,80,84-86,90-92,264-267,271,272,276-278,282-284
NUMA node7 CPU(s):   76-78,81-83,87-89,93-95,268-270,273-275,279-281,285-287
NUMA node8 CPU(s):  96-99,103-105,109-111,115,116,288-291,295-297,301-303,307,308
NUMA node9 CPU(s):  100-102,106-108,112-114,117-119,292-294,298-300,304-306,309-311
NUMA node10 CPU(s): 120-123,127-129,133-135,139,140,312-315,319-321,325-327,331,332
NUMA node11 CPU(s): 124-126,130-132,136-138,141-143,316-318,322-324,328-330,333-335
NUMA node12 CPU(s): 144-147,151-153,157-159,163,164,336-339,343-345,349-351,355,356
NUMA node13 CPU(s): 148-150,154-156,160-162,165-167,340-342,346-348,352-354,357-359
NUMA node14 CPU(s): 168-171,175-177,181-183,187,188,360-363,367-369,373-375,379,380
NUMA node15 CPU(s): 172-174,178-180,184-186,189-191,364-366,370-372,376-378,381-383
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 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_l3 cdp_l3
invpcid_single intel_ppin ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi
flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm
cqm mpx rdt_a avx512f avx512dq rdseed adx smap clflushopt clwb intel_pt avx512cd
avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total
cqm_mbm_local dtherm ida arat pln pts hwp hwp_act_window hwp_epp hwp_pkg_req pku
ospke avx512_vnni flush_l1d arch_capabilities
```

(Continued on next page)

Platform Notes (Continued)

```
/proc/cpuinfo cache data
   cache size : 36608 KB

From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a
physical chip.
  available: 16 nodes (0-15)
  node 0 cpus: 0 1 2 3 7 8 9 13 14 15 19 20 192 193 194 195 199 200 201 205 206 207 211
  212
  node 0 size: 192269 MB
  node 0 free: 191217 MB
  node 1 cpus: 4 5 6 10 11 12 16 17 18 21 22 23 196 197 198 202 203 204 208 209 210 213
  214 215
  node 1 size: 193529 MB
  node 1 free: 193194 MB
  node 2 cpus: 24 25 26 27 31 32 33 37 38 39 43 44 216 217 218 219 223 224 225 229 230
  231 235 236
  node 2 size: 193529 MB
  node 2 free: 193284 MB
  node 3 cpus: 28 29 30 34 35 36 40 41 42 45 46 47 220 221 222 226 227 228 232 233 234
  237 238 239
  node 3 size: 193500 MB
  node 3 free: 193241 MB
  node 4 cpus: 48 49 50 54 55 56 60 61 62 66 67 68 240 241 242 246 247 248 252 253 254
  258 259 260
  node 4 size: 193529 MB
  node 4 free: 193304 MB
  node 5 cpus: 51 52 53 57 58 59 63 64 65 69 70 71 243 244 245 249 250 251 255 256 257
  261 262 263
  node 5 size: 193529 MB
  node 5 free: 193324 MB
  node 6 cpus: 72 73 74 75 79 80 84 85 86 90 91 92 264 265 266 267 271 272 276 277 278
  282 283 284
  node 6 size: 193529 MB
  node 6 free: 193357 MB
  node 7 cpus: 76 77 78 81 82 83 87 88 89 93 94 95 268 269 270 273 274 275 279 280 281
  285 286 287
  node 7 size: 193529 MB
  node 7 free: 193342 MB
  node 8 cpus: 96 97 98 99 103 104 105 109 110 111 115 116 288 289 290 291 295 296 297
  301 302 303 307 308
  node 8 size: 193529 MB
  node 8 free: 193389 MB
  node 9 cpus: 100 101 102 106 107 108 112 113 114 117 118 119 292 293 294 298 299 300
  304 305 306 309 310 311
  node 9 size: 193529 MB
  node 9 free: 193355 MB
```

(Continued on next page)

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Platform Notes (Continued)

```
    node 10 cpus: 120 121 122 123 127 128 129 133 134 135 139 140 312 313 314 315 319 320
    321 325 326 327 331 332
    node 10 size: 193529 MB
    node 10 free: 193355 MB
    node 11 cpus: 124 125 126 130 131 132 136 137 138 141 142 143 316 317 318 322 323 324
    328 329 330 333 334 335
    node 11 size: 193529 MB
    node 11 free: 193359 MB
    node 12 cpus: 144 145 146 147 151 152 153 157 158 159 163 164 336 337 338 339 343 344
    345 349 350 351 355 356
    node 12 size: 193529 MB
    node 12 free: 193322 MB
    node 13 cpus: 148 149 150 154 155 156 160 161 162 165 166 167 340 341 342 346 347 348
    352 353 354 357 358 359
    node 13 size: 193529 MB
    node 13 free: 193303 MB
    node 14 cpus: 168 169 170 171 175 176 177 181 182 183 187 188 360 361 362 363 367 368
    369 373 374 375 379 380
    node 14 size: 193529 MB
    node 14 free: 193253 MB
    node 15 cpus: 172 173 174 178 179 180 184 185 186 189 190 191 364 365 366 370 371 372
    376 377 378 381 382 383
    node 15 size: 193326 MB
    node 15 free: 193154 MB
    node distances:
    node   0   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15
      0:  10  11  20  20  20  20  28  28  28  28  28  28  20  20  28  28
      1:  11  10  20  20  20  20  28  28  28  28  28  28  20  20  28  28
      2:  20  20  10  11  28  28  20  20  28  28  20  20  28  28  28  28
      3:  20  20  11  10  28  28  20  20  28  28  20  20  28  28  28  28
      4:  20  20  28  28  10  11  20  20  20  20  28  28  28  28  28  28
      5:  20  20  28  28  11  10  20  20  20  20  28  28  28  28  28  28
      6:  28  28  20  20  20  20  10  11  28  28  28  28  28  28  20  20
      7:  28  28  20  20  20  20  11  10  28  28  28  28  28  28  20  20
      8:  28  28  28  28  20  20  28  28  10  11  20  20  20  20  28  28
      9:  28  28  28  28  20  20  28  28  11  10  20  20  20  20  28  28
     10:  28  28  20  20  28  28  28  28  20  20  10  11  28  28  20  20
     11:  28  28  20  20  28  28  28  28  20  20  11  10  28  28  20  20
     12:  20  20  28  28  28  28  28  28  20  20  28  28  10  11  20  20
     13:  20  20  28  28  28  28  28  28  20  20  28  28  11  10  20  20
     14:  28  28  28  28  28  28  20  20  28  28  20  20  20  20  10  11
     15:  28  28  28  28  28  28  20  20  28  28  20  20  20  20  11  10

  From /proc/meminfo
     MemTotal:       3169264456 kB
     HugePages_Total:       0
     Hugepagesize:       2048 kB
```

(Continued on next page)

Platform Notes (Continued)

```
From /etc/*release* /etc/*version*
   os-release:
      NAME="SLES"
      VERSION="15"
      VERSION_ID="15"
      PRETTY_NAME="SUSE Linux Enterprise Server 15"
      ID="sles"
      ID_LIKE="suse"
      ANSI_COLOR="0;32"
      CPE_NAME="cpe:/o:suse:sles:15"

uname -a:
   Linux linux-8r5c 4.12.14-25.28-default #1 SMP Wed Jan 16 20:00:47 UTC 2019 (dd6077c)
   x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:

CVE-2017-5754 (Meltdown):          Not affected
CVE-2017-5753 (Spectre variant 1): Mitigation: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Enhanced IBRS, IBPB: conditional, RSB
filling

run-level 3 Jul 11 22:49

SPEC is set to: /home/Benchmark/speccpu2017-fp
   Filesystem     Type  Size  Used Avail Use% Mounted on
   /dev/sda3      xfs   142G   55G   87G  39% /home

Additional information from dmidecode 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.
  BIOS FUJITSU V1.0.0.0 R1.16.0 for D3858-B1x           04/24/2019
  Memory:
   68x Micron 36ASF4G72PZ-2G9E2 32 GB 2 rank 2933
   28x Samsung M393A4K40CB2-CVF 32 GB 2 rank 2933

(End of data from sysinfo program)
```

Compiler Version Notes

```
==============================================================================
C               | 519.lbm_r(base) 538.imagick_r(base) 544.nab_r(base)
------------------------------------------------------------------------------
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
```

(Continued on next page)

Compiler Version Notes (Continued)

```
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C++             | 508.namd_r(base) 510.parest_r(base)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C++, C          | 511.povray_r(base) 526.blender_r(base)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
C++, C, Fortran | 507.cactuBSSN_r(base)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
  64, Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------

==============================================================================
Fortran         | 503.bwaves_r(base) 549.fotonik3d_r(base) 554.roms_r(base)
------------------------------------------------------------------------------
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
  64, Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------

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

(Continued on next page)

Compiler Version Notes (Continued)

```
==============================================================================
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
  64, Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
  Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation.  All rights reserved.
==============================================================================
```

Base Compiler Invocation

C benchmarks:
`icc -m64 -std=c11`

C++ benchmarks:
`icpc -m64`

Fortran benchmarks:
`ifort -m64`

Benchmarks using both Fortran and C:
`ifort -m64 icc -m64 -std=c11`

Benchmarks using both C and C++:
`icpc -m64 icc -m64 -std=c11`

Benchmarks using Fortran, C, and C++:
`icpc -m64 icc -m64 -std=c11 ifort -m64`

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

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Base Portability Flags (Continued)

554.roms_r: `-DSPEC_LP64`

Base Optimization Flags

C benchmarks:
`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3`

C++ benchmarks:
`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3`

Fortran benchmarks:
`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3 -auto -nostandard-realloc-lhs -align array32byte`

Benchmarks using both Fortran and C:
`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3 -auto -nostandard-realloc-lhs -align array32byte`

Benchmarks using both C and C++:
`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3`

Benchmarks using Fortran, C, and C++:
`-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3 -auto -nostandard-realloc-lhs -align array32byte`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/Intel-ic19.0-official-linux64.2019-01-15.html
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-CSL-RevE.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Intel-ic19.0-official-linux64.2019-01-15.xml
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-CSL-RevE.xml

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

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