### Hardware

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Name</td>
<td>Intel Xeon Platinum 8490H</td>
</tr>
<tr>
<td>Max MHz</td>
<td>3500</td>
</tr>
<tr>
<td>Nominal</td>
<td>1900</td>
</tr>
<tr>
<td>Enabled</td>
<td>120 cores, 2 chips</td>
</tr>
<tr>
<td>Orderable</td>
<td>1.2 chips</td>
</tr>
<tr>
<td>Cache L1</td>
<td>32 KB I + 48 KB D on chip per core</td>
</tr>
<tr>
<td>Cache L2</td>
<td>2 MB I+D on chip per core</td>
</tr>
<tr>
<td>L3</td>
<td>112.5 MB I+D on chip per chip</td>
</tr>
<tr>
<td>Other</td>
<td>None</td>
</tr>
<tr>
<td>Memory</td>
<td>1 TB (16 x 64 GB 2Rx4 PC5-4800B-R)</td>
</tr>
<tr>
<td>Storage</td>
<td>1 x SATA SSD, 1.92TB</td>
</tr>
<tr>
<td>Other</td>
<td>None</td>
</tr>
</tbody>
</table>

### Software

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>SUSE Linux Enterprise Server 15 SP4 5.14.21-150400.22-default</td>
</tr>
<tr>
<td>Compiler</td>
<td>C/C++: Version 2022.1 of Intel oneAPI DPC++/C++ Compiler for Linux; Fortran: Version 2022.1 of Intel Fortran Compiler for Linux;</td>
</tr>
<tr>
<td>Parallel</td>
<td>Yes</td>
</tr>
<tr>
<td>Firmware</td>
<td>Fujitsu BIOS Version V1.0.0.0 R1.10.0 for D3983-A1x. Released Mar-2023 tested as V1.0.0.0 R0.22.1 for D3983-A1x Jan-2023</td>
</tr>
<tr>
<td>File System</td>
<td>xfs</td>
</tr>
<tr>
<td>System State</td>
<td>Run level 3 (multi-user)</td>
</tr>
<tr>
<td>Base Pointers</td>
<td>64-bit</td>
</tr>
<tr>
<td>Peak Pointers</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Other</td>
<td>jemalloc memory allocator V5.0.1</td>
</tr>
<tr>
<td>Power Management</td>
<td>BIOS set to prefer performance at the cost of additional power usage</td>
</tr>
</tbody>
</table>

### SPEC CPU 2017 Floating Point Speed Result

**Fujitsu**

PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

**CPU2017 License:** 19  
**Test Sponsor:** Fujitsu  
**Tested by:** Fujitsu  
**Test Date:** Jan-2023  
**Hardware Availability:** Mar-2023  
**Software Availability:** Jun-2022

**SPECs**

**SPECspeed®2017_fp_base** = 348  
**SPECspeed®2017_fp_peak** = Not Run

<table>
<thead>
<tr>
<th>SPECs**</th>
<th>Value</th>
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<tbody>
<tr>
<td>603.bwaves_s</td>
<td>120</td>
</tr>
<tr>
<td>607.cactuBSSN_s</td>
<td>120</td>
</tr>
<tr>
<td>619.lbm_s</td>
<td>120</td>
</tr>
<tr>
<td>621.wrf_s</td>
<td>120</td>
</tr>
<tr>
<td>627.cam4_s</td>
<td>120</td>
</tr>
<tr>
<td>628.pop2_s</td>
<td>120</td>
</tr>
<tr>
<td>638.imagick_s</td>
<td>120</td>
</tr>
<tr>
<td>644.nab_s</td>
<td>120</td>
</tr>
<tr>
<td>649.fotonik3d_s</td>
<td>120</td>
</tr>
<tr>
<td>654.roms_s</td>
<td>120</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50.0</td>
<td>411</td>
</tr>
<tr>
<td>100</td>
<td>279</td>
</tr>
<tr>
<td>150</td>
<td>221</td>
</tr>
<tr>
<td>200</td>
<td>204</td>
</tr>
<tr>
<td>250</td>
<td>95.3</td>
</tr>
<tr>
<td>300</td>
<td>688</td>
</tr>
<tr>
<td>350</td>
<td>755</td>
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<tr>
<td>400</td>
<td>174</td>
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<tr>
<td>450</td>
<td>523</td>
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<tr>
<td>500</td>
<td></td>
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<tr>
<td>550</td>
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<tr>
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<tr>
<td>650</td>
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<tr>
<td>700</td>
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<tr>
<td>750</td>
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<tr>
<td>800</td>
<td></td>
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<tr>
<td>850</td>
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<tr>
<td>900</td>
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<tr>
<td>950</td>
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<tr>
<td>1050</td>
<td></td>
</tr>
<tr>
<td>1100</td>
<td></td>
</tr>
<tr>
<td>1150</td>
<td></td>
</tr>
</tbody>
</table>
**SPEC CPU®2017 Floating Point Speed Result**

**Fujitsu**

PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

| SPECspeed®2017_fp_base = | 348 |
| SPECspeed®2017_fp_peak = | Not Run |

**Results Table**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Baseline Seconds</th>
<th>Baseline Ratio</th>
<th>Baseline Seconds</th>
<th>Baseline Ratio</th>
<th>Baseline Seconds</th>
<th>Baseline Ratio</th>
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</thead>
<tbody>
<tr>
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<td>120</td>
<td>52.4</td>
<td>1130</td>
<td>52.3</td>
<td>1130</td>
<td>52.4</td>
<td>1130</td>
</tr>
<tr>
<td>607.cactuBSSN_s</td>
<td>120</td>
<td>40.5</td>
<td>411</td>
<td>40.5</td>
<td>411</td>
<td>40.5</td>
<td>411</td>
</tr>
<tr>
<td>619.lbm_s</td>
<td>120</td>
<td>18.8</td>
<td>279</td>
<td>18.8</td>
<td>279</td>
<td>19.0</td>
<td>276</td>
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<tr>
<td>621.wrf_s</td>
<td>120</td>
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<td>221</td>
<td>59.8</td>
<td>221</td>
<td>59.8</td>
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<tr>
<td>627.cam4_s</td>
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<td>207</td>
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<td>204</td>
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<tr>
<td>628.pop2_s</td>
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<td>124</td>
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<td>125</td>
<td>95.1</td>
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<tr>
<td>638.imagick_s</td>
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<td>20.8</td>
<td>693</td>
<td>21.0</td>
<td>686</td>
<td>21.0</td>
<td>688</td>
</tr>
<tr>
<td>644.nab_s</td>
<td>120</td>
<td>23.1</td>
<td>755</td>
<td>23.1</td>
<td>757</td>
<td>23.2</td>
<td>754</td>
</tr>
<tr>
<td>649.fotonik3d_s</td>
<td>120</td>
<td>52.5</td>
<td>174</td>
<td>53.1</td>
<td>172</td>
<td>52.0</td>
<td>175</td>
</tr>
<tr>
<td>654.roms_s</td>
<td>120</td>
<td>29.8</td>
<td>528</td>
<td>30.1</td>
<td>523</td>
<td>30.2</td>
<td>521</td>
</tr>
</tbody>
</table>

**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/Benchmark/speccpu-1.1.8/lib/intel64:/home/Benchmark/speccpu-1.1.8
 /je5.0.1-64"
MALLOCONF = "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.

(Continued on next page)
Fujitsu
PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

SPECspeed®2017_fp_base = 348
SPECspeed®2017_fp_peak = Not Run

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu
Test Date: Jan-2023
Hardware Availability: Mar-2023
Software Availability: Jun-2022

General Notes (Continued)
jemalloc, a general purpose malloc implementation
built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

Platform Notes

BIOS configuration:
Hyper Threading = Disabled
DCU IP Prefetcher = Disabled
Package C State limit = C0
LLC Prefetch = Enabled
DBP-F = Enabled
CPU Performance Boost = Aggressive
FAN Control = Full

Sysinfo program /home/Benchmark/speccpu-1.1.8/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acaf64d
running on localhost Fri Jan 13 10:50:26 2023

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 8490H
  2 "physical id"s (chips)
120 "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 : 60
siblings : 60
physical 0: cores 0 1 2 3 4 5 6 7 8 9 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
53 54 55 56 57 58 59
physical 1: cores 0 1 2 3 4 5 6 7 8 9 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
53 54 55 56 57 58 59

From lscpu from util-linux 2.37.2:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 46 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 120
On-line CPU(s) list: 0-119
Vendor ID: GenuineIntel

(Continued on next page)
Fujitsu
PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

SPECspeed®2017_fp_base = 348
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CPU2017 License: 19
Test Date: Jan-2023
Test Sponsor: Fujitsu
CPU2017 License: 19
Hardware Availability: Mar-2023
Tested by: Fujitsu
Software Availability: Jun-2022

Platform Notes (Continued)

Model name:                      Intel(R) Xeon(R) Platinum 8490H
CPU family:                      6
Model:                           143
Thread(s) per core:              1
Core(s) per socket:              60
Socket(s):                       2
Stepping:                        8
CPU max MHz:                     3500.0000
CPU min MHz:                     800.0000
BogoMIPS:                        3800.00
Flags:                           fpu vme de syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bt
nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx
smx est tm2 ssse3 sdbg fma cx16 xtrnr pdcm pcid ssm physical_cpuid ssse4_1 ssse4_2
x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch
epb cat_l1a cat_l1b cdp_l1b invpcid_single intel_pme dpdog cd_bits l1d_tsc cd_bits
spec2016_tsc mtmorch spec2017_tsc
Virtualization:                  VT-x
L1d cache:                       5.6 MiB (120 instances)
L1i cache:                       3.8 MiB (120 instances)
L2 cache:                        240 MiB (120 instances)
L3 cache:                        225 MiB (2 instances)
NUMA node(s):                    2
NUMA node0 CPU(s):               0-59
NUMA node1 CPU(s):               60-119
Vulnerability Itlb multihit:     Not affected
Vulnerability L1tf:              Not affected
Vulnerability Mds:               Not affected
Vulnerability Meltdown:          Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via
prctl and seccomp
Vulnerability Spectre v1:        Mitigation; usercopy/swapgs barriers and __user
pointer sanitization
Vulnerability Spectre v2:        Mitigation; Enhanced IBRS, IBPB conditional, RSB
filling
Vulnerability Srbd:             Not affected
Vulnerability Tso async abort:   Not affected

(Continued on next page)
**SPEC CPU®2017 Floating Point Speed Result**

**Fujitsu**

PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

**SPECspeed®2017_fp_base = 348**

**SPECspeed®2017_fp_peak = Not Run**

---

**CPU2017 License:** 19  
**Test Sponsor:** Fujitsu  
**Tested by:** Fujitsu  
**Test Date:** Jan-2023  
**Hardware Availability:** Mar-2023  
**Software Availability:** Jun-2022

---

**Platform Notes (Continued)**

From `lscpu --cache`:

<table>
<thead>
<tr>
<th>NAME</th>
<th>ONE-SIZE</th>
<th>ALL-SIZE</th>
<th>WAYS</th>
<th>TYPE</th>
<th>LEVEL</th>
<th>SETS</th>
<th>PHY-LINE</th>
<th>COHERENCY-SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1d</td>
<td>48K</td>
<td>5.6M</td>
<td>12</td>
<td>Data</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L1i</td>
<td>32K</td>
<td>3.8M</td>
<td>8</td>
<td>Instruction</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L2</td>
<td>2M</td>
<td>240M</td>
<td>16</td>
<td>Unified</td>
<td>2</td>
<td>2048</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L3</td>
<td>112.5M</td>
<td>225M</td>
<td>15</td>
<td>Unified</td>
<td>3</td>
<td>122880</td>
<td>1</td>
<td>64</td>
</tr>
</tbody>
</table>

/proc/cpuinfo cache data

cache size : 115200 KB

From `numactl --hardware`

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

available: 2 nodes (0-1)

node 0 cpus: 0 1 2 3 4 5 6 7 8 9 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 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59

node 0 size: 515626 MB  
node 0 free: 514106 MB

node 1 cpus: 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119

node 1 size: 515729 MB  
node 1 free: 514866 MB

node distances:

node 0: 10 21  
node 1: 21 10

From `/proc/meminfo`

MemTotal: 1056109456 kB  
HugePages_Total: 0

Hugepagesize: 2048 kB

/sys/devices/system/cpu/cpu*/cpufreq/scaling_governor has powersave

From `/etc/*release* /etc/*version*`

os-release:

NAME="SLES"  
VERSION="15-SP4"  
VERSION_ID="15.4"  
PRETTY_NAME="SUSE Linux Enterprise Server 15 SP4"  
ID="sles"  
ID_LIKE="suse"  
ANSI_COLOR="0;32"  
CPE_NAME="cpe:/o:suse:sles:15:sp4"

(Continued on next page)
Platform Notes (Continued)

uname -a:
    Linux localhost 5.14.21-150400.22-default #1 SMP PREEMPT_DYNAMIC Wed May 11 06:57:18
    UTC 2022 (49db222/1p) 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
CVE-2018-3639 (Speculative Store Bypass):              Mitigation: Speculative Store
            Bypass disabled via prctl and
            seccomp
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
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort):                Not affected

run-level 3 Jan 13 18:32

SPEC is set to: /home/Benchmark/speccpu-1.1.8
Filesystem     Type  Size  Used Avail Use% Mounted on
/dev/sda2      xfs   1.8T   76G  1.7T   5% /

From /sys/devices/virtual/dmi/id
Vendor:         FUJITSU
Product:        PRIMERGY RX2530 M7
Product Family: SERVER
Serial:         EWCDxxxxxx

Additional information from dmidecode 3.2 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 M321R8GA0BB0-CQKMG 64 GB 2 rank 4800

BIOS:
    BIOS Vendor:       FUJITSU
    BIOS Version:      V1.0.0.0 R0.22.1 for D3982-A1x
    BIOS Date:         12/01/2022
    BIOS Revision:     0.22
    Firmware Revision: 2.0

(Continued on next page)
Fujitsu
PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

| SPECspeed®2017_fp_base = 348 |
| SPECspeed®2017_fp_peak = Not Run |

Platform Notes (Continued)

(End of data from syisinfo program)

Compiler Version Notes

-----------------------------------------------
| C          | 619.lbm_s(base) 638.imagick_s(base) 644.nab_s(base) |
-----------------------------------------------
| 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) |
-----------------------------------------------
| 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) 649.fotonik3d_s(base) 654.roms_s(base) |
-----------------------------------------------
| Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2021.0 Build 20220316 Copyright (C) 1985-2022 Intel Corporation. All rights reserved. |

-----------------------------------------------
| Fortran, C  | 621.wrf_s(base) 627.cam4_s(base) 628.pop2_s(base) |
-----------------------------------------------
| 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. |
| 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. |
SPEC CPU®2017 Floating Point Speed Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

Fujitsu
PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

SPECspeed®2017_fp_base = 348
SPECspeed®2017_fp_peak = Not Run

Fujitsu
CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu
Test Date: Jan-2023
Hardware Availability: Mar-2023
Software Availability: Jun-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 -g -std=c11 -Wl,-z,muldefs -xCORE-AVX2 -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

Fortran benchmarks:
  -m64 -g -Wl,-z,muldefs -DSPEC_OPENMP -xCORE-AVX2 -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 -g -std=c11 -Wl,-z,muldefs -xCORE-AVX2 -Ofast -ffast-math
  -flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp

(Continued on next page)
Fujitsu
PRIMERGY RX2530 M7, Intel Xeon Platinum 8490H, 1.90GHz

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<td>SPECspeed®2017_fp_peak = Not Run</td>
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Test Sponsor: Fujitsu
Tested by: Fujitsu

Test Date: Jan-2023
Hardware Availability: Mar-2023
Software Availability: Jun-2022

Base Optimization Flags (Continued)

Benchmarks using both Fortran and C (continued):
-DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using Fortran, C, and C++:
-m64 -g -std=c11 -Wl,-z,defs -xCORE-AVX2 -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

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

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-SPR-RevA.xml

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