Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base

SPECspeed®2017 int **Mot Run**

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable Tested by: not applicable

Test Date: Sep-2020 Hardware Availability: Software Availability:

0.00

Threads

600.perlbench_s 602.gcc_s

605.mcf s

620.omnetpp_s

623.xalancbmk_s

625.x264 s

631.deepsjeng_s

641.leela s

648.exchange2_s

657.xz_s

Hardware Software

OS: Ubuntu 18.04.3 LTS CPU Name: Intel Xeon Bronze 3106 Max MHz: 4.15.0-70-generic

Nominal: Compiler: C/C++/Fortran: Version 10.1.0 of GCC, the Enabled: cores, 1 chip, threads/core

GNU Compiler Collection

Orderable: Parallel: Yes

Cache L1: Firmware:

L2: File System: nfs L3: System State: Run level 5 (add definition here)

Base Pointers: 64-bit Other:

78.334 GB fixme: If using DDR4, the format is: Peak Pointers: Not Applicable

Memory: 'N GB (Nx N GB nRxn PC4-nnnnX-X)' Other:

Power Management: --

TB add more disk info here Storage:

Øther:

Errors

'reportable' flag not set during run

641.leela_s (base) did not have enough runs!

648.exchange2_s (base) did not have enough runs!

631.deepsjengs (base) did not have enough runs!

602.gcc_s (base) did not have enough runs!

605.mcf_s (base) did not have enough runs!

620.omnetpp_s (base) did not have enough runs!

625.x264_s (base) did not have enough runs!

623.xalancbmk_s (base) did not have enough runs!

600.perlbench_s (base) did not have enough runs!

657.xz s (base) did not have enough runs!

(Continued on next page)

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base =

SPECspeed®2017 int peak 7 Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Sep-2020 Hardware Availability:

0.00

Software Availability:

Errors (Continued)

641.leela_s (base) had invalid runs!

631.deepsjeng_s (base) had invalid runs!

602.gcc_s (base) had invalid runs!

620.omnetpp_s (base) had invalid runs!

600.perlbench_s (base) had invalid runs!

657.xz_s (base) had invalid runs!

Input set must be 'refspeed' for a valid run (set to 'test' for this run)

Run of 600.perlbench_s (base) was not valid; status is RE

Run of 602.gcc_s (base) was not valid; status is RE

Run of 620.omnetpp_s (base) was not valid; status is RE

Run of 631.deepsjeng_s (base) was not valid; status & VE

Run of 641.leela_s (base) was not valid; status is VE

Run of 657.xz_s (base) was not valid; status is VE

Unknown flags were used! See

https://www.spec.org/cpu2017/Docs/runcpu.html#Nagsurl

for information about how to get rid of this error.

Results Table

				Base				Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	/1	0.316	0.00											
602.gcc_s	<i>_</i>	0.280	0.00											
605.mcf_s	1	77.1	000											
620.omnetpp_s	1	0.411	0.00											
623.xalancbmk_s	ì	93.3	0.00											
625.x264_s		718	0.00											
631.deepsjeng_s	1	225	0.00											
641.leela_s	7	108	0.00											
648.exchange2_s	/1	133	0.00											
657.xz_s	1	63.9	0.00											

SRECspeed*2017_int_base = 0.00

SPECspeed®2017_int_peak = Not Run

Kesults appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

The config file option 'submit' was used.

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base =

SPECspeed®2017_int_peak 7 Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Sep-2020

0.00

Hardware Availability: Software Availability:

Environment Variables Notes

Environment variables set by runcpu before the start of the run: LD_LIBRARY_PATH =

"/u/home/schmidtf/riscv-gnu-toolchain/build/lib64/:/tv/home/schmidtf/riscv-gnu-toolchain/build/lib64"

Platform Notes

```
Sysinfo program /u/home/schmidtf/spec/bin/sysinfo
Rev: r6365 of 2019-08-21 295195f888a3d7edble6e46a485a0011
running on sksmall Fri Sep 18 11:45:03 2020
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) Bronze 3106 CPU @ 1.70GHz
      1 "physical id"s (chips)
      8 "processors"/
   cores, siblings (daution: counting these is hw and system dependent. The following
   excerpts from /prod/cpuinfo might not be reliable. Use with caution.)
      cpu cores/1: 8
      siblings
                          1 2 3 4 5 6 7
      physical 0
From lscru:
     Architecture:
                          x86_64
     OPU op-mode(s):
                          32-bit, 64-bit
     Byte Order:
                          Little Endian
     CPU(s)
     On-line CPU(s) list: 0-7
     Thread(s) per core:
     Core(s) per socket:
     Socket(s):
                          1
     NVMA node(s):
     Vendor ID:
                          GenuineIntel
     CPV family:
     Model:
     Model name:
                          Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz
     Stepping:
     CPU MHz:
                          1657.165
     CPU max MHz:
                          1700.0000
     CPU min MHz:
                          800.0000
     BogoMIPS:
                          3400.00
```

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

Tested by:

SPECspeed®2017_int_base

SPECspeed®2017_int Mot Run

0.00

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable not applicable Test Date: Sep-2020 Hardware Availability: Software Availability:

Platform Notes (Continued)

Virtualization: VT-x L1d cache: 32K Lli cache: 32K L2 cache: 1024K L3 cache: 11264K NUMA node0 CPU(s):

fpu vme de pse tse msr pae mce cx8 apic sep mtrr pge mca cmov Flags: pat pse36 clflush dts acpi mmx fxsr 🗱 sseX 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 (tes64 monitor ds_cpl) vyx 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 3dhowprefetch cpu/d_fault epb cat_13 cdp_13 invpcid_single pti intel_ppin std mba ibrs 1bpb stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsdadjust bmil hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt_a avx512f avx512dq rdseed adx swap clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqm_llo cqm_occup_llc cqm_mbm_total cqm_mbm_local dtherm arat pln pts hwp hwp_act_window hwp_pkg_req pku ospke md_clear flush_lld

/proc/cpuinfo cache data cache size : 11264 KB

WARNING; a numactl 'node' might or might not correspond to a From numactl --hardware physical chip.

From /proc/meminto

MemTotal: / 464 kB HugePages_Total: Hugepagesize: 2048 kB

/usr/bin/lsb_xelease -d Ubuntu 18.04.3 LTS

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

debian_version: buster/sid

os release:

NAME="Ubuntu"

VERSIØN="18.04.3 LTS (Bionic Beaver)"

ID=wbuntu

ID/LIKE=debian

PŘETTY_NAME="Ubuntu 18.04.3 LTS"

VERSION_ID="18.04"

HOME URL="https://www.ubuntu.com/"

SUPPORT_URL="https://help.ubuntu.com/"

uname -a:

Linux sksmall 4.15.0-70-generic #79-Ubuntu SMP Tue Nov 12 10:36:11 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux

(Continued on next page)

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base =

SPECspeed®2017_int_peak >7 Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Sep-2020

0.00

Hardware Availability: Software Availability:

Platform Notes (Continued)

```
Kernel self-reported vulnerability status:
                                           KVM: Mitigation: Spl/t huge pages
itlb_multihit:
                                          Mitigation: PTE Inversion; VMX: conditional
CVE-2018-3620 (L1 Terminal Fault):
                                           cache flushes, SMT disabled
                                           Mitigation: Clear CPU buffers; SMT disabled
Microarchitectural Data Sampling:
CVE-2017-5754 (Meltdown):
                                          Mitigation: PTI
CVE-2018-3639 (Speculative Store Bypass): Witigation: *peculative Store Bypass disabled
                                           via prctland seccomp
CVE-2017-5753 (Spectre variant 1):
                                         Mitigation: usercopy/swapgs barriers and __user
                                          pointer sanitization
CVE-2017-5715 (Spectre variant 2):
                                          Mitigation: Full generic retpoline, IBPB:
                                          conditional, IBRS_FW, STIBP: disabled, RSB
                                          filling
                                          Mitigation: Clear CPU buffers; SMT disabled
tsx_async_abort:
run-level 5 Nov 28 09:46
SPEC is set to: /u/home/schmidtf/spec
   Filesystem
                                                    Type Size Used Avail Use% Mounted
   on
   nasil10.informatik tu-muenchen de:/srv/il10/home nfs
                                                          6.9T 4.1T 2.6T 62% /u/home
From /sys/devices/virtual/dmi/id
    BIOS:
            HPE U32 11\13/2019
    Vendor: HPE
    Product: ProLiant DL300 Gen10
    Product Family: ProLiant
Cannot run dmidecode consider saying (as root)
   chmod +s /usr/sbin/dmidecode
(End of data from sysinfo program)
```

Compiler Version Notes

```
C 600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_s(base) 657.xz_s(base)

Using built-in specs.

COLLECT_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-gcc

COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscv-gnu-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper

Target: riscv64-unknown-linux-gnu

Configured with: /u/home/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure
```

(Continued on next page)

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base

0.00

SPECspeed®2017_int Mot Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable Test Date: Sep-2020

Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

```
--target=riscv64-unknown-linux-gnu
    --prefix=/u/home/schmidtf/riscv-gnu-toolchain/build
    --with-sysroot=/u/home/schmidtf/riscv-gnu-toolchain/build/sysroot
    --with-system-zlib --enable-shared --enable-tls
    --enable-languages=c,c++,fortran --digable libmudflap --digable-libssp
    --disable-libquadmath --disable-libsanitixer --disable-nls
    --disable-bootstrap --src=.././riscv-gcc/-disable-multilib --with-abi=lp64
    --with-arch=rv64ima --with-tune=rocket / FLAGS_FOR_TARGET=-02
    -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-D2
                                                                                           -mcmodel # medlow'
Thread model: posix
Supported LTO compression algorithms; zlib
gcc version 10.1.0 (GCC)
                | 620.omnetpp_s(base) 623.xalancbmk) (base) 631.deepsjeng_s(base)
C++
                 641.leela_s(base)
Using built-in specs.
COLLECT_GCC=/u/home/schmidtf/#iscv qnp-Coolchain/build/bin/riscv64-unknown-linux-gnu-g++
COLLECT_LTO_WRAPPER=/u/home/schmidtf/ricv-gnu-too/chain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper
Target: riscv64-unknown-linuk gnu
Configured with: /u/nome/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure
    --target=riscv64-unknown-linux-gnu
    --prefix=/u/home/schmidtf/riscv-gnu-toolchain/build
    --with-sysroot=/u/home/schmidtf/riscv-gnu-toolchain/build/sysroot
    --with-system-zlib --enable-shared --enable-tls
    --enable<del>_lang</del>uages=c,c++,fortran --disable-libmudflap --disable-libssp
    --disable-libsquadmath --disable-libsanitizer --disable-nls
    --disable-bootstrap --src=.././riscv-gcc --disable-multilib --with-abi=lp64
    --with arch=rv64ima/--with-tune=rocket 'CFLAGS_FOR_TARGET=-02
    -mcmodel=medlow'\'CXXFLAGS_FOR_TARGET=-02
                                                                                       -mcmodel=medlow'
Thread model: posix
Supported LTQ compression algorithms: zlib
gck version 10.1.0 (GCC)
_____
                  648.exchange2_s(base)
Using built-in specs.
COLLECT_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-gfortran
\verb|COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscv-gnu-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gnu/10.1.0/lto-wrapper-linux-gn
Target: riscv64-unknown-linux-gnu
Configured with: /u/home/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure
```

(Continued on next page)

--target=riscv64-unknown-linux-gnu

--prefix=/u/home/schmidtf/riscv-gnu-toolchain/build

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed[®]2017_int_base =

SPECspeed®2017 int seak Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Sep-2020

0.00

Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

--with-sysroot=/u/home/schmidtf/riscv-gnu-toolchain/build/sysroot

--with-system-zlib --enable-shared --enable-tls

--enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp

--disable-libquadmath --disable-libsan tizer --disable-nls

--disable-bootstrap --src=.././riscv-dec --disable-multilib/--with-abi=lp64

--with-arch=rv64ima --with-tune=rocket 'CRLAGS_FOR_TARGET=-02

-mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-02 -mcmodel=medlow'

Thread model: posix

Supported LTO compression algorithms: zlip

gcc version 10.1.0 (GCC)

Base Unknown Flags

 $600.perlbench_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)$

602.gcc_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

605.mcf_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

620.omnetpp_s: "/u/home/schmidtr/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

623.xalancbmk_sr*/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

625.x264 s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CC)
"/u/home/schmidtf/niscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

631.deepsjeng_s: "/uxhome/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/uxhome/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

641.leela_s "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

648.exchange2_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in FC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

657.xz_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base =

SPECspeed®2017_int_peak 7 Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Sep-2020 Hardware Availability:

0.00

Software Availability:

Base Compiler Invocation

C benchmarks:

qcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Base Portability Flags

600.perlbench_s: -static(*) -DSPEC_NINUX_X64 -DSPEC_ZP64

602.gcc_s: -static(*) -DSPEC_LP64

605.mcf_s: -static(*) -DSPEC_LP64

620.omnetpp_s: -static(*) -DSPEC_bP64

623.xalancbmk_s: -static(*) -DSPEC_LNUX -DSPEC_LP64

625.x264_s: -static(*) -DSPEC_LP6/4

631.deepsjeng_s: -static(*) -NSPEC_LP64

641.leela_s: -static(*) -D\$PEC_LP64

648.exchange2_s: -statie(*\ -DSPEC_DP64

657.xz_s: -static(*)_-DSPEC_LP64

(*) Indicates a portability flag that was found in a non-portability variable.

Base Optimization Flags

C benchmarks:

-std=c99 -g -03 -DSPEC_SUPPRESS_OPENMP -fno-unsafe-math-optimizations

fno tree-loop-vectorize -fno-openmp -fno-strict-aliasing

-fgnu89-inline

C++ benchmarks:

-std=c++03/-g -O3 -DSPEC_SUPPRESS_OPENMP

-fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

Fortran benchmarks:

-DSPEC_SUPPRESS_OPENMP -g -O3 -fno-unsafe-math-optimizations

-fno-tree-loop-vectorize -fno-openmp

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_int_base =

SPECspeed®2017_int_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Sep-2020

Hardware Availability: Software Availability:

Base Other Flags

C benchmarks:

-fcommon

C++ benchmarks:

-fcommon

Fortran benchmarks:

-fcommon

SPEC CPU and SPECspeed are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU*2017 v1.1.0 on 2020-09-18 11:45:01+0000.

Report generated on 2020-09-18 12:10:58 by CPU2017 PDF formatter v6255.