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Laptop Rubens

SPECrate[®]2017_int_base = 5.03

SPECrate®2017_int_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: Laptop Rubens **Tested by:** Laptop Rubens

Test Date: May-2023

Hardware Availability: Software Availability:

Results Table

	Base						Peak							
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	8	<u>2549</u>	<u>5.00</u>	2236	5.70	2643	4.82	Ì		1				
502.gcc_r						\wedge								
505.mcf_r	8	2510	5.15	2126	6.08	2234	<u>5.79</u>)/					
520.omnetpp_r	8	3664	2.86	3049	3.44	3293	<u>3.19</u>		·					
523.xalancbmk_r	8	3089	2.73	2356	3.59	2826	2.99							
525.x264_r	8	3008	4.66	2195	6.38	<u>2572</u>	<u>5.45</u>	5						
531.deepsjeng_r	8	2012	4.56	1574	5.82	1859	<u>4.93</u>							
541.leela_r	8	<u>2539</u>	<u>5.22</u>	2118	6.26	2610	5.08	7)~						
548.exchange2_r	8	<u>1751</u>	12.0	1689	12.4	2105	9.96							
557.xz_r	8	1854	4.66	<u>1943</u>	4.45	2392	3.61							

SPECrate[®]2017_int_base =

5.03

SPECrate[®]2017_int_peak = Not Run

Results appear in the order in which the were run. Fold underlined text indicates a median measurement.

Environment Variables Notes

Environment variables set by runcou before the start of the run:
LD_LIBRARY_PATH = "/usr/lib64/:/usr/lib/:/ib64"

Platform Notes

Sysinfo program /usr/local/spec_cpu2017/bin/sysinfo Rev: r6732 of 2022-11-07 fe9lc8997ed5c36ae2c92cc097bec197 running on NotebookRubens Wed May 24 20:43:10 2023

SUT (System Under Test) info as seen by some common utilities.

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- 3. Username
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- 9. /proc/meminfo
- 10. who -r
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- 12. Services, from systematl list-unit-files
- 13. Linux kernel boot-time arguments, from /proc/cmdline
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Laptop Rubens Laptop Rubens Test Date: May-2023 Hardware Availability:

Software Availability:

```
Platform Notes (Continued)
19. dmidecode
1. uname -a
 Linux NotebookRubens 5.15.90.1-microsoft-standard-WSD2 #1 SMP Fri Jan 27 )2/56:13 UTC 2023 x86_64 x86_64
 x86_64 GNU/Linux
  20:43:10 up 2:33, 2 users, load average: 0.12,
                                                   0.21.
  USER TTY
                 FROM
                                    LØGIN@
                                                    JCPU
                                                          PCPU
                                                               WHAT
                                    18:0
                                             2:33m
                                                    0.11s 0.09s bash
          pts/1
  rubens
         pts/2
  rubens
                                    18:21
                                             6.00s
                                                    2.22s
                                                           0.20s sudo -i
3. Username
  From environment variable $USER:
                                    oot
 From the command 'logname':
                                   rubens
_____
4. ulimit -a
 time(seconds)
                      unlimite
                      unlimit@d
 file(blocks)
                      unlimited
  data(kbytes)
 stack(kbytes)
                      8192
 coredump(blocks)
                      0
                      unlimited
 memory(kbytes)
 locked memory(kbytes) 1013600
                      31649
 process
 nofiles
                      1024
                       unlimit
  vmemory(kbytes)
 locks
                      unlimit
 rtprio
5. sysinfo process ancestry
 /sbin/iai
 /init
 /init/
 /init
 -bash
 sudo -i
 obug
 -bash
       --configerubens-try1 --noreportable --iterations=3 500.perlbench_r 505.mcf_r 520.omnetpp_r
  523.xalanchnk_r 525.x264_r 531.deepsjeng_r 541.leela_r 548.exchange2_r 557.xz_r 999.specrand_ir
 runcpu --configfile rubens-tryl --noreportable --iterations 3 --noreportable --nopower --runmode rate --tune
         🚧 ze refrate 500.perlbench_r 505.mcf_r 520.omnetpp_r 523.xalancbmk_r 525.x264_r 531.deepsjeng_r
  541.le 1a_r 548.exchange2_r 557.xz_r 999.specrand_ir --nopreenv --note-preenv --logfile
  $$PEC/tmp/CPU2017.072/templogs/preenv.intrate.072.0.log --lognum 072.0 --from_runcpu 2
 specperl $SPEC/bin/sysinfo
$SPEC = /usr/local/spec_cpu2017
6. /proc/cpuinfo
                   : Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
   model name
                   : GenuineIntel
   vendor_id
   cpu family
                   : 6
   model
```

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Hardware Availability: Software Availability:

Platform Notes (Continued)

stepping : 7

microcode : 0xffffffff

: cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass Atf mds swapgs itlb_multihit buas

mmio_unknown

cpu cores siblings 1 physical ids (chips) 4 processors (hardware threads)

physical id 0: core ids 0-1 physical id 0: apicids 0-3

and threads is not necessarily reliable, especially for Caution: /proc/cpuinfo data regarding chips, cores

virtualized systems. Use the above para carefully

Test Sponsor:

Tested by:

From lscpu from util-linux 2.37

Architecture: CPU op-mode(s): Address sizes: Byte Order: CPU(s):

On-line CPU(s) list: Vendor ID: Model name: CPU family: Model:

Thread(s) per core: Core(s) per socket:

Socket(s): Stepping: BogoMIPS: Flags:

fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm constant_tsc arch_perfmon rep_good nopl xtopology cpuid pni pclmulqdq ssse3 cx16 pdcm pcid sse4_1 sse4_2 popcnt aes xsave avx hypervisor lahf_lm pti ssbd ibrs

Hypervisor vendor: Virtualization type:

Lld dache: Lli cache: 12 cache: L3 cache: Vulnerability

Vulnerability Mds:

tlo multihit: Valnerability Litf:

Vulnerability Meltdown: Vulnerability Mmio stale data:

Vulnerability Retbleed: Vulnerability Spectre v1:

Vulnerability Spectre v2: Vulnerability Srbds:

Vulnerability Tsx async abort:

From lscpu --cache:

NAME ONE-SIZE ALL-SIZE WAYS TYPE 64K 8 Data

32-bit, 64-bit 36 bits physical, Little Endian

×86_64

SenulneIntel

ntel(R) Cort (TM) i7-2620M CPU @ 2.70GHz

bits virtual

ibpb stibp xsaveopt flush_lld arch_capabilities

Microsoft full 64 KiB (2 instances) 64 KiB (2 instances) 512 KiB (2 instances) 4 MiB (1 instance)

KVM: Mitigation: VMX unsupported

Mitigation; PTE Inversion Vulnerable: Clear CPU buffers attempted, no microcode; SMT Host state unknown

Mitigation; PTI Unknown: No mitigations

Not affected

Not affected Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp Mitigation; usercopy/swapgs barriers and __user pointer sanitization Mitigation; Retpolines, IBPB conditional, IBRS_FW, STIBP conditional, RSB filling, PBRSB-eIBRS Not affected

Not affected

Standard Performance Evaluation Corporation (info@spec.org)

LEVEL SETS PHY-LINE COHERENCY-SIZE

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SPECrate®2017_int_base = 5.03

SPECrate®2017 int **♪**Not Run

CPU2017 License: nnn (Your SPEC license number) Test Date: May-2023 **Test Sponsor:** Laptop Rubens Hardware Availability: **Tested by:** Laptop Rubens Software Availability: Platform Notes (Continued) 8 Instruction 1 64 T.1 i 32K 64K 64 8 Unified L2 256K 512K 16 Unified 3 4096 L3 4M 1 64 8. numactl warning Unable to get information from 'numactl --hardware'. Nease consider installing numactl. 9. /proc/meminfo 8108808 kB MemTotal: 10. who -r run-level 5 May 24 18:09 11. Systemd service manager version: systemd 249 (249.11-Jubuntu3.9) Default Target Status graphical running 12. Services, from systematl list-unit-Niles STATE UNIT FILES apparmor console setup cron dmesq e2scrub reap getty@ irgbalance keyboard-setup rsyslog enabled setvtrob snapd systemd systemd-resolved systemd-timesyncd enabled-runtime console getty systemd-remount-fs debug-anell nftables raync serial-getty@ systemd-boot-check-no-failures disabled systemd network-generator systemd-networkd systemd-networkd-wait-online systemd-sysext systemd-time-wait-sync generated apport wslg-mount indirect uuidd cryptdisks cryptdisks-early hwclock networkd-dispatcher rc rcS screen-cleanup sudo masked systemd-binfm ua-reboot-cmds ubuntu-advantage ufw unattended-upgrades x11-common 13. Linux ternel boot time arguments, from /proc/cmdline initral initral.ims WSL_MOOT_INIT=1 panic=-1 hr_cpus=4 bonding.max_bonds= dummy numdummias fb_tunnels=none swidtlb=force console=hvc0 debug pty.legacy_count=0 14. sysctl kernel.randomize_va_space 20 vm.compaction proactiveness vm.dirty_background_bytes Ω vm.dirty_background_ratio 10 vm.dirty_bytes 0 3000

(Continued on next page)

2.0

vm.dirty_expire_centisecs

vm.dirty_writeback_centisecs

vm.dirty_ratio

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Platform Notes (Continued)

vm.dirtytime_expire_seconds	43200
vm.extfrag_threshold	500
vm.nr_hugepages	0
vm.nr_overcommit_hugepages	0
vm.swappiness	60
vm.watermark_boost_factor	15000
vm.watermark_scale_factor	10

15. /sys/kernel/mm/transparent_hugepage

defrag always defer defer+madvise [madvise] never

enabled [always] madvise never

hpage_pmd_size 2097152

shmem_enabled always within_size advise [never] deny

16. /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
	/(

17. OS release

From /etc/*-release /etc/*-version os-release Ubuntu 22.04.2 LTS

18. Disk information

SPEC is set to: usr/local/spac cpu2017
Filesystem Type Size Used Avail Use% Mounted on Type /dev/sdc ext4 1007G 750 881G

,19. dmidecode Additional information from dmidecode 3.3 follows. WARNING: Use caution when you interpret this section. The demide ode' 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.

(could not find information) BXOS:

Compiler Version Notes

500.perlbench_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)

Using built-in specs. COLLECT_GCC=/usr/bin/gcc

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx-none:amdgcn-amdhsa

OFFLOAD_TARGET_DEFAULT=1 Target: x86_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'

--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr

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Compiler Version Notes (Continued)

```
--with-gcc-major-version-only --program-suffix=-11 --program-prefix=x86 64-linux-gnu- --enable-shared
    --enable-linker-build-id --libexecdir=/usr/lib --without-included-gattex --enable-threads=posix
    --libdir=/usr/lib --enable-nls --enable-bootstrap --enable-clocale=gnb --enable-libstdcxx-debug
    --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-ghu-unique-object
    --disable-vtable-verify --enable-plugin --enable-default-pie --with-system zljb
    --enable-libphobos-checking=release --with-targe-system-zlib=auto --enable-bjc-gc=auto --enable-multiarch --disable-werror --enable-cet --with-arch-32=i686 --witt-abi=m64
    --with-multilib-list=m32,m64,mx32 --enable-multilib --with tune=generic
  --enable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debiaz/rmp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/g
                                                                                                            mp-nvptx/usx_amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 11.3.0 (Ubuntu 11.3.0-lubuntu1~22.04)
               | 520.omnetpp_r(base) 529.xalancbuk_r(base) 531.deepsjeng_r(base) 541.leela_r(base)
Using built-in specs.
COLLECT_GCC=/usr/bin/g++
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux gnu/11/
OFFLOAD_TARGET_NAMES=nvptx-none:amdgcn_amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v/--with-pkg/ersion='Ubuntu 11.3.0-lubuntu1-
--with-bugurl=file://usr/share/dod/gcc-l/RPADME.Bugs
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr
                                                                         --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
    --with-gcc-major-version only --program-suffix=-11 --program-prefix=x86_64-linux-gnu --enable-shared --enable-linker-build-id -\libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib (enable-uls --enable-bootstrap --enable-clocale=gnu --enable-libstdcxx-debug --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object --disable-vtable verify --enable-plugin --enable-default-pie --with-system-zlib
    --enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto
    --enable-multiarch --disable-werror --enable-cet --with-arch-32=i686 --with-abi=m64
    --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic
   --enable-offlood cargets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr
    --without cuda-driver --enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu --target=x86_64-linux-gnu--with-build-config=bootstrap-lto-lean --enable-link-serialization=2
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 11.3.0 (Ubuntu 11.3.0-lubuntu1~22.04)
Fortran | 54% exchange2_r(base)
Using built-in specs.
COLLECT_GCC usr/bin/gfortran
COLLECT_LT6 WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:amdgcn-amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntul~22.04'
    --with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs
    --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr
    --with-gcc-major-version-only --program-suffix=-11 --program-prefix=x86_64-linux-gnu- --enable-shared
    --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix
    --libdir=/usr/lib --enable-nls --enable-bootstrap --enable-clocale=gnu --enable-libstdcxx-debug
    --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object
```

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Compiler Version Notes (Continued)

- --disable-vtable-verify --enable-plugin --enable-default-pie --with-system-zlib
- -enable-objc-gc=auto
- --enable-libphobos-checking=release --with-target-system-zlib=auto --enable-multiarch --disable-werror --enable-cet --with-arch-32=i686 -with-abi=m64
- --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic
- --enable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr
- --without-cuda-driver --enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-build-config=bootstrap-to-lean --enable-nnk-serialization=2

Thread model: posix

Supported LTO compression algorithms: zlib zstd gcc version 11.3.0 (Ubuntu 11.3.0-lubuntu1~22.04)

Base Compiler Invocation

C benchmarks (except as noted below). qcc

C++ benchmarks:

q++

Fortran benchmarks:

gfortran

Base Portability Flags

500.perlbench_r: -DSPEC_LINUX_ X64 -DSPEC_LP64

505.mcf_r: -DSPEC_LP64

520.omnetpp_r: -DSPEC_LP64

523.xalancbmk_r: -DSPEC_LINUX -DSPEC_LP64

525.x264_r: DSPEC_1P64

531.deepsjeng_r: -DSPEC LP64

541.leela_r: -DSPEC_LP64

548.exchange2_r: -D\$P2C_LP64

557.xz_r -DSPEC LF64

Base Optimization Flags

C benchmarks:

500.perlbench_r: -m64 -std=c99 -g -O3 -march=native

- -fno-unsafe-math-optimizations -fno-tree-loop-vectorize
- -fno-strict-aliasing -fgnu89-inline

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Laptop Rubens

SPECrate®2017_int_base = 5.03

SPECrate®2017_int_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: Laptop Rubens **Tested by:** Laptop Rubens

Test Date: May-2023

Hardware Availability: Software Availability:

Base Optimization Flags (Continued)

505.mcf_r: Same as 500.perlbench_r

525.x264_r: Same as 500.perlbench_r

557.xz_r: Same as 500.perlbench_r

C++ benchmarks:

Fortran benchmarks:

-m64 -std=c++03 -g -03 -march=native -fno-unsafe-math-optimizations -fno-tree-loop-vectorize

-m64 -g -03 -march=native -fno-unsafe-math-optimizations

-fno-tree-loop-vectorize

Base Other Flags

C benchmarks (except as noted below):

-fallow-argument-mismatch

525.x264_r: -fallow-argument-mismatch -fcommon

557.xz_r: -fallow-argument-mismatch -fcommon

C++ benchmarks:

-fallow-argument-mismatch

Fortran benchmarks:

-fallow-argument-mismatch

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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 2023-05-24 20:43:09-0300.

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