SPEC® CPU2017 Integer Rate Result

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NEC Corporation
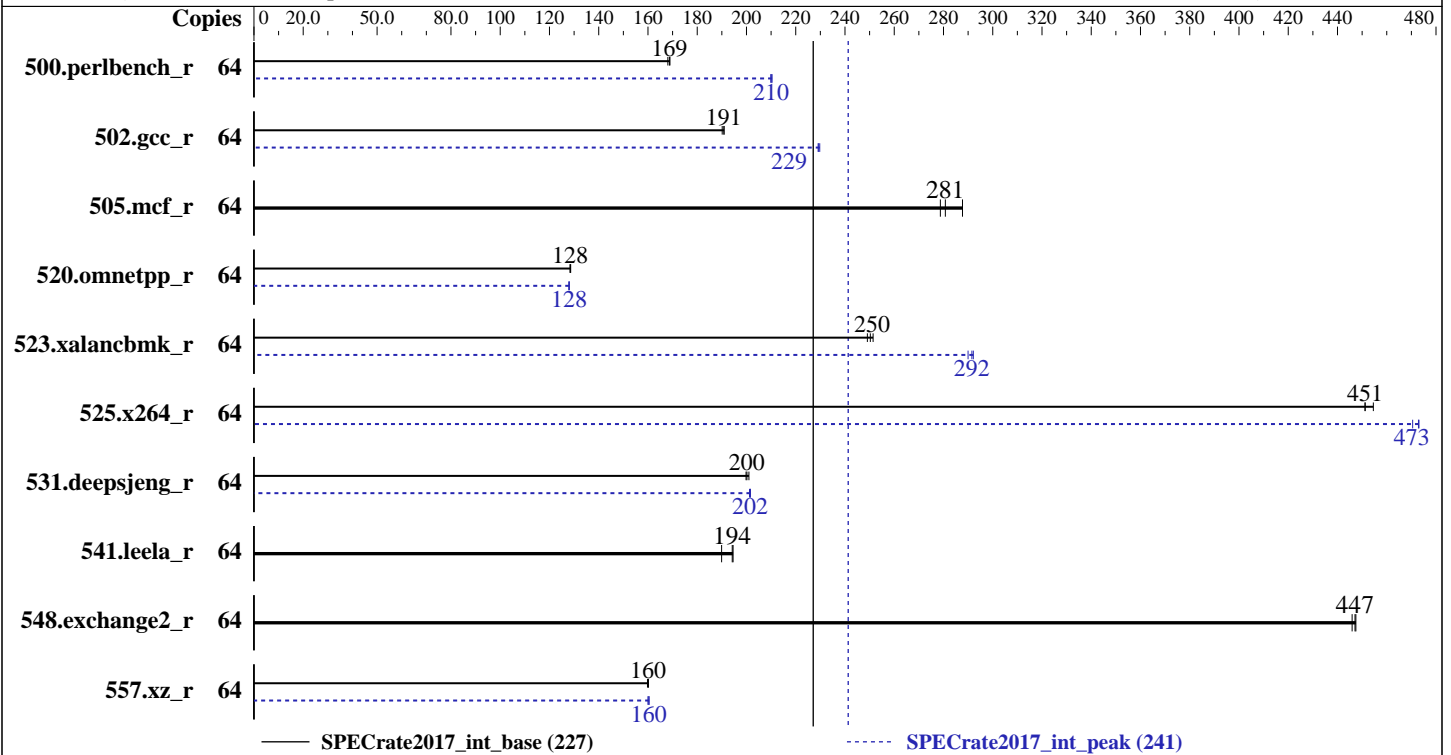
Express5800/A2040e
(3.50 GHz, Intel Xeon Gold 6144)

SPECrate2017_int_base = 227

SPECrate2017_int_peak = 241

CPU2017 License: 9006　　　　　　　　　　　　　　　　　　　　**Test Date:**　　　　Sep-2018
Test Sponsor:　NEC Corporation　　　　　　　　　　　　　**Hardware Availability:** Jun-2018
Tested by:　　　NEC Corporation　　　　　　　　　　　　　**Software Availability:**　Mar-2018

Copies		
500.perlbench_r	64	169 / 210
502.gcc_r	64	191 / 229
505.mcf_r	64	281
520.omnetpp_r	64	128 / 128
523.xalancbmk_r	64	250 / 292
525.x264_r	64	451 / 473
531.deepsjeng_r	64	200 / 202
541.leela_r	64	194
548.exchange2_r	64	447
557.xz_r	64	160 / 160

————— **SPECrate2017_int_base (227)**　　　　　- - - - - **SPECrate2017_int_peak (241)**

Hardware

CPU Name:　Intel Xeon Gold 6144
　Max MHz.:　4200
　Nominal:　3500
Enabled:　32 cores, 4 chips, 2 threads/core
Orderable:　2,4 chips
Cache L1:　32 KB I + 32 KB D on chip per core
　L2:　1 MB I+D on chip per core
　L3:　24.75 MB I+D on chip per chip
　Other:　None
Memory:　1536 GB (48 x 32 GB 2Rx4 PC4-2666V-R)
Storage:　800 GB tmpfs
Other:　None

Software

OS:　SUSE Linux Enterprise Server 12 SP3 (x86_64)
　　　kernel 4.4.120-94.17-default
Compiler:　C/C++: Version 18.0.0.128 of Intel C/C++
　　　Compiler for Linux;
　　　Fortran: Version 18.0.0.128 of Intel Fortran
　　　Compiler for Linux
Parallel:　No
Firmware:　Version 5.7.0115 04/17/2018 released Jun-2018
File System:　tmpfs
System State:　Run level 3 (multi-user)
Base Pointers:　64-bit
Peak Pointers:　32/64-bit
Other:　jemalloc memory allocator library V5.0.1

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Results Table

Benchmark	Base						Peak					
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	64	**604**	**169**	603	169	606	168	64	**485**	**210**	484	210	485	210
502.gcc_r	64	**475**	**191**	475	191	477	190	64	394	230	396	229	**395**	**229**
505.mcf_r	64	**368**	**281**	371	279	359	288	64	**368**	**281**	371	279	359	288
520.omnetpp_r	64	653	129	654	128	**654**	**128**	64	656	128	**656**	**128**	657	128
523.xalancbmk_r	64	269	251	271	249	**270**	**250**	64	**232**	**292**	231	292	233	290
525.x264_r	64	**248**	**451**	248	451	247	455	64	237	473	**237**	**473**	238	471
531.deepsjeng_r	64	**366**	**200**	365	201	367	200	64	364	201	364	202	**364**	**202**
541.leela_r	64	**546**	**194**	558	190	545	195	64	**546**	**194**	558	190	545	195
548.exchange2_r	64	376	446	375	447	**375**	**447**	64	376	446	375	447	**375**	**447**
557.xz_r	64	433	160	432	160	**432**	**160**	64	431	160	432	160	**431**	**160**

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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"
Tmpfs filesystem can be set with:
 mount -t tmpfs -o size=800g tmpfs /home
cpupower -c all frequency-set -g performance
VM Dirty ratio was set to 40 using "echo 40 > /proc/sys/vm/dirty_ratio"
Set Kernel Boot Parameter : nohz_full=1-63
irqbalance disabled with "service irqbalance stop"
echo 0 > /proc/sys/kernel/numa_balancing

General Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/SPEC/lib/ia32:/home/SPEC/lib/intel64:/home/SPEC/je5.0.1-32:/home/SPEC/je5.0.1-64"

 Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM
 memory using Redhat Enterprise Linux 7.4
 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

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General Notes (Continued)

```
 runcpu command invoked through numactl i.e.:
 numactl --interleave=all runcpu <etc>

 jemalloc: configured and built at default for 32bit (i686) and 64bit (x86_64) targets;
 jemalloc: built with the RedHat Enterprise 7.4, and the system compiler gcc 4.8.5;
 jemalloc: sources available from jemalloc.net or https://github.com/jemalloc/jemalloc/releases

Yes: 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.
```

Platform Notes

```
 BIOS Settings:
  Memory RAS Mode: SDDC mode
  VT-x : Disabled
  Processor C6 Report : Disabled
  OS Performance Tuning : Disabled
  Energy Performance : Performance
  Patrol Scrub : Disabled
  DCU Streamer Prefetcher : Disabled
  Memory P.E. Retry : Disabled
  Sub NUMA Clustering : Enabled
  Dead Line LLC Allocation : Disabled
 Sysinfo program /home/SPEC/bin/sysinfo
 Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
 running on linux-o0zp Wed Sep 19 22:47:30 2018

 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) Gold 6144 CPU @ 3.50GHz
       4  "physical id"s (chips)
       64 "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 : 8
       siblings  : 16
       physical 0: cores 0 2 3 9 16 19 26 27
       physical 1: cores 0 2 3 9 16 19 26 27
       physical 2: cores 0 2 3 9 16 19 26 27
```

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Platform Notes (Continued)

```
      physical 3: cores 0 2 3 9 16 19 26 27

 From lscpu:
      Architecture:          x86_64
      CPU op-mode(s):        32-bit, 64-bit
      Byte Order:            Little Endian
      CPU(s):                64
      On-line CPU(s) list:   0-63
      Thread(s) per core:    2
      Core(s) per socket:    8
      Socket(s):             4
      NUMA node(s):          8
      Vendor ID:             GenuineIntel
      CPU family:            6
      Model:                 85
      Model name:            Intel(R) Xeon(R) Gold 6144 CPU @ 3.50GHz
      Stepping:              4
      CPU MHz:               3501.000
      CPU max MHz:           3501.0000
      CPU min MHz:           1200.0000
      BogoMIPS:              6983.31
      Virtualization:        VT-x
      L1d cache:             32K
      L1i cache:             32K
      L2 cache:              1024K
      L3 cache:              25344K
      NUMA node0 CPU(s):     0,1,3,4,32,33,35,36
      NUMA node1 CPU(s):     2,5-7,34,37-39
      NUMA node2 CPU(s):     8,9,11,12,40,41,43,44
      NUMA node3 CPU(s):     10,13-15,42,45-47
      NUMA node4 CPU(s):     16,17,19,20,48,49,51,52
      NUMA node5 CPU(s):     18,21-23,50,53-55
      NUMA node6 CPU(s):     24,25,27,28,56,57,59,60
      NUMA node7 CPU(s):     26,29-31,58,61-63
      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
    aperfmperf eagerfpu 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 ida arat epb invpcid_single pln pts
    dtherm intel_pt rsb_ctxsw spec_ctrl stibp retpoline kaiser tpr_shadow vnmi
    flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm
    cqm mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl
    xsaveopt xsavec xgetbv1 cqm_llc cqm_occup_llc pku ospke

 /proc/cpuinfo cache data
    cache size : 25344 KB
```

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Platform Notes (Continued)

```
From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a
physical chip.
  available: 8 nodes (0-7)
  node 0 cpus: 0 1 3 4 32 33 35 36
  node 0 size: 192016 MB
  node 0 free: 190693 MB
  node 1 cpus: 2 5 6 7 34 37 38 39
  node 1 size: 193534 MB
  node 1 free: 192914 MB
  node 2 cpus: 8 9 11 12 40 41 43 44
  node 2 size: 193534 MB
  node 2 free: 192903 MB
  node 3 cpus: 10 13 14 15 42 45 46 47
  node 3 size: 193534 MB
  node 3 free: 187385 MB
  node 4 cpus: 16 17 19 20 48 49 51 52
  node 4 size: 193534 MB
  node 4 free: 193304 MB
  node 5 cpus: 18 21 22 23 50 53 54 55
  node 5 size: 193534 MB
  node 5 free: 193179 MB
  node 6 cpus: 24 25 27 28 56 57 59 60
  node 6 size: 193534 MB
  node 6 free: 192817 MB
  node 7 cpus: 26 29 30 31 58 61 62 63
  node 7 size: 193406 MB
  node 7 free: 193060 MB
  node distances:
  node   0   1   2   3   4   5   6   7
    0:  10  11  15  15  15  15  15  15
    1:  11  10  15  15  15  15  15  15
    2:  15  15  10  11  15  15  15  15
    3:  15  15  11  10  15  15  15  15
    4:  15  15  15  15  10  11  15  15
    5:  15  15  15  15  11  10  15  15
    6:  15  15  15  15  15  15  10  11
    7:  15  15  15  15  15  15  11  10

 From /proc/meminfo
    MemTotal:     1583751024 kB
    HugePages_Total:         0
    Hugepagesize:         2048 kB

 /usr/bin/lsb_release -d
    SUSE Linux Enterprise Server 12 SP3
```

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Platform Notes (Continued)

```
From /etc/*release* /etc/*version*
   SuSE-release:
      SUSE Linux Enterprise Server 12 (x86_64)
      VERSION = 12
      PATCHLEVEL = 3
      # This file is deprecated and will be removed in a future service pack or release.
      # Please check /etc/os-release for details about this release.
   os-release:
      NAME="SLES"
      VERSION="12-SP3"
      VERSION_ID="12.3"
      PRETTY_NAME="SUSE Linux Enterprise Server 12 SP3"
      ID="sles"
      ANSI_COLOR="0;32"
      CPE_NAME="cpe:/o:suse:sles:12:sp3"

uname -a:
   Linux linux-o0zp 4.4.120-94.17-default #1 SMP Wed Mar 14 17:23:00 UTC 2018 (cf3a7bb)
   x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Sep 19 22:33

SPEC is set to: /home/SPEC
   Filesystem      Type    Size  Used Avail Use% Mounted on
   tmpfs           tmpfs   800G  9.1G  791G   2% /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 American Megatrends Inc. 5.7.0115 04/17/2018
  Memory:
   48x Samsung M393A4K40BB2-CTD 32 GB 2 rank 2666

(End of data from sysinfo program)
```

Compiler Version Notes

```
==============================================================================
 CC  500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base, peak)
     525.x264_r(base, peak) 557.xz_r(base, peak)
------------------------------------------------------------------------------
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------
```

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Compiler Version Notes (Continued)

```
==============================================================================
CC    500.perlbench_r(peak) 502.gcc_r(peak)
------------------------------------------------------------------------------
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------


==============================================================================
 CXXC 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base)
      541.leela_r(base)
------------------------------------------------------------------------------
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------


==============================================================================
CXXC 520.omnetpp_r(peak) 523.xalancbmk_r(peak) 531.deepsjeng_r(peak)
     541.leela_r(peak)
------------------------------------------------------------------------------
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------


==============================================================================
 FC  548.exchange2_r(base, peak)
------------------------------------------------------------------------------
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

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Base Portability Flags

500.perlbench_r: `-DSPEC_LP64 -DSPEC_LINUX_X64`
502.gcc_r: `-DSPEC_LP64`
505.mcf_r: `-DSPEC_LP64`
520.omnetpp_r: `-DSPEC_LP64`
523.xalancbmk_r: `-DSPEC_LP64 -DSPEC_LINUX`
525.x264_r: `-DSPEC_LP64`
531.deepsjeng_r: `-DSPEC_LP64`
541.leela_r: `-DSPEC_LP64`
548.exchange2_r: `-DSPEC_LP64`
557.xz_r: `-DSPEC_LP64`

Base Optimization Flags

C benchmarks:
`-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div`
`-qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc`

C++ benchmarks:
`-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div`
`-qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc`

Fortran benchmarks:
`-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div`
`-qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte`
`-L/usr/local/je5.0.1-64/lib -ljemalloc`

Base Other Flags

C benchmarks:
`-m64 -std=c11`

C++ benchmarks:
`-m64`

Fortran benchmarks:
`-m64`

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Peak Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Fortran benchmarks:
`ifort`

Peak Portability Flags

500.perlbench_r: `-DSPEC_LP64 -DSPEC_LINUX_X64`
502.gcc_r: `-D_FILE_OFFSET_BITS=64`
505.mcf_r: `-DSPEC_LP64`
520.omnetpp_r: `-DSPEC_LP64`
523.xalancbmk_r: `-D_FILE_OFFSET_BITS=64 -DSPEC_LINUX`
525.x264_r: `-DSPEC_LP64`
531.deepsjeng_r: `-DSPEC_LP64`
541.leela_r: `-DSPEC_LP64`
548.exchange2_r: `-DSPEC_LP64`
557.xz_r: `-DSPEC_LP64`

Peak Optimization Flags

C benchmarks:

500.perlbench_r: `-Wl,-z,muldefs` -prof-gen(pass 1) -prof-use(pass 2) `-ipo`
`-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3`
`-fno-strict-overflow -L/usr/local/je5.0.1-64/lib`
`-ljemalloc`

502.gcc_r: `-L/opt/intel/compilers_and_libraries_2018/linux/lib/ia32`
`-Wl,-z,muldefs` -prof-gen(pass 1) -prof-use(pass 2) `-ipo`
`-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3`
`-L/usr/local/je5.0.1-32/lib -ljemalloc`

505.mcf_r: basepeak = yes

525.x264_r: `-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div`
`-qopt-mem-layout-trans=3 -fno-alias`
`-L/usr/local/je5.0.1-64/lib -ljemalloc`

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Peak Optimization Flags (Continued)

557.xz_r: `-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc`

C++ benchmarks:

520.omnetpp_r: `-Wl,-z,muldefs -prof-gen`(pass 1) `-prof-use`(pass 2) `-ipo -xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc`

523.xalancbmk_r: `-L/opt/intel/compilers_and_libraries_2018/linux/lib/ia32 -Wl,-z,muldefs -prof-gen`(pass 1) `-prof-use`(pass 2) `-ipo -xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-32/lib -ljemalloc`

531.deepsjeng_r: `Same as 520.omnetpp_r`

541.leela_r: `basepeak = yes`

Fortran benchmarks:

548.exchange2_r: `basepeak = yes`

Peak Other Flags

C benchmarks (except as noted below):
`-m64 -std=c11`

502.gcc_r: `-m32 -std=c11`

C++ benchmarks (except as noted below):
`-m64`

523.xalancbmk_r: `-m32`

Fortran benchmarks:
`-m64`

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.2017-10-19.html
http://www.spec.org/cpu2017/flags/NEC-Platform-Settings-SPECcpu2017-Flags-V1.2-SKL-A2040e-RevD.html

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You can also download the XML flags sources by saving the following links:

http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.2017-10-19.xml
http://www.spec.org/cpu2017/flags/NEC-Platform-Settings-SPECcpu2017-Flags-V1.2-SKL-A2040e-RevD.xml

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

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