



# SPEC CPU®2017 Integer Rate Result

Copyright 2017-2024 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL380p Gen8

(2.00 GHz, Intel Xeon E5-2620)

**SPECrate®2017\_int\_base = 37.5**

**SPECrate®2017\_int\_peak = Not Run**

CPU2017 License: 3

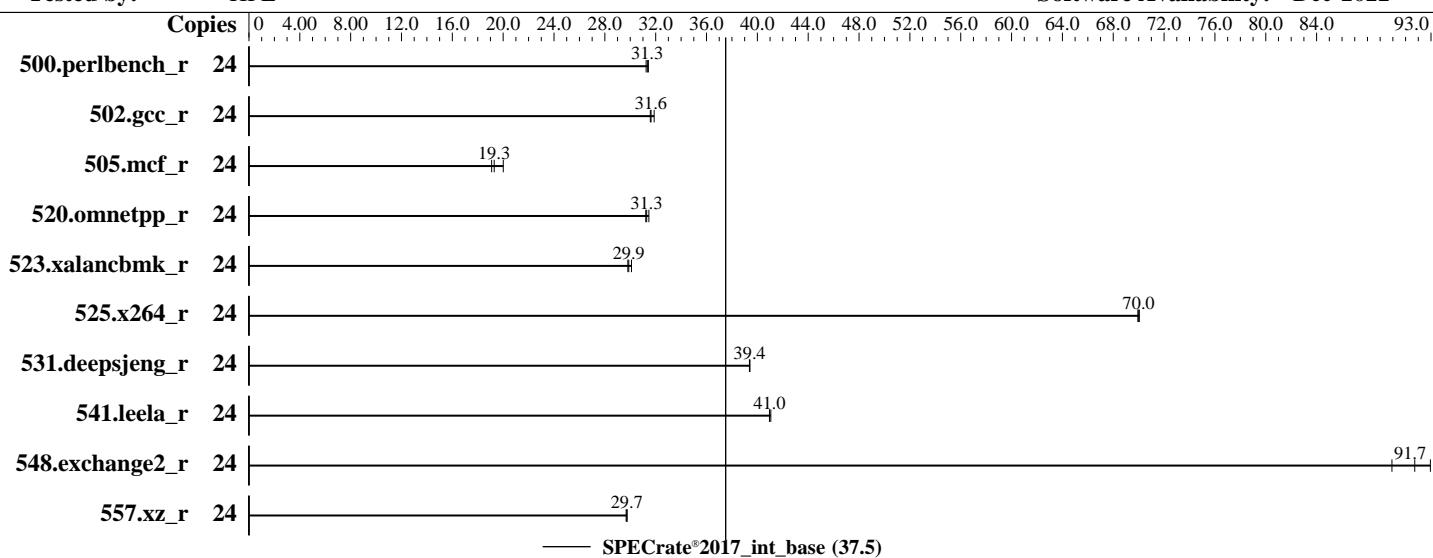
Test Sponsor: HPE

Tested by: HPE

**Test Date:** May-2023

**Hardware Availability:** May-2019

**Software Availability:** Dec-2022



## Hardware

CPU Name: Intel Xeon E5-2620  
 Max MHz: 2500  
 Nominal: 2000  
 Enabled: 12 cores, 2 chips, 2 threads/core  
 Orderable: 1, 2 chip(s)  
 Cache L1: 32 KB I + 32 KB D on chip per core  
 L2: 256 KB I+D on chip per core  
 L3: 15 MB I+D on chip per chip  
 Other: None  
 Memory: 128 GB (8 x 16 GB 2Rx4 PC3-12800R-11, ECC, running at 1333)  
 Storage: 4 x 600 GB SAS 10K HDD, RAID 10  
 Other: None

## Software

OS: Red Hat Enterprise Linux 9.0 (Plow)  
 Compiler: Kernel 5.14.0-70.13.1.el9\_0.x86\_64  
 C/C++: Version 2023.0 of Intel oneAPI DPC++/C++ Compiler for Linux;  
 Fortran: Version 2023.0 of Intel Fortran Compiler for Linux;  
 Parallel: No  
 Firmware: HPE BIOS Version P70 05/24/2019 released May-2019  
 File System: xfs  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other: None  
 Power Management: BIOS set to prefer performance at the cost of additional power usage



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## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	24	<b>1219</b>	<b>31.3</b>	1223	31.2	1216	31.4									
502.gcc_r	24	1076	31.6	<b>1074</b>	<b>31.6</b>	1066	31.9									
505.mcf_r	24	1938	20.0	<b>2010</b>	<b>19.3</b>	2031	19.1									
520.omnetpp_r	24	1009	31.2	1001	31.5	<b>1006</b>	<b>31.3</b>									
523.xalancbmk_r	24	<b>848</b>	<b>29.9</b>	842	30.1	850	29.8									
525.x264_r	24	601	69.9	<b>600</b>	<b>70.0</b>	600	70.1									
531.deepsjeng_r	24	698	39.4	698	39.4	<b>698</b>	<b>39.4</b>									
541.leela_r	24	970	41.0	968	41.1	<b>970</b>	<b>41.0</b>									
548.exchange2_r	24	<b>686</b>	<b>91.7</b>	676	93.0	699	89.9									
557.xz_r	24	873	29.7	<b>872</b>	<b>29.7</b>	871	29.8									

**SPECrate®2017\_int\_base = 37.5**

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

## Compiler Notes

SPEC has ruled that the compiler used for this result was performing a compilation that specifically improves the performance of the 523.xalancbmk\_r / 623.xalancbmk\_s benchmarks using a priori knowledge of the SPEC code and dataset to perform a transformation that has narrow applicability.

In order to encourage optimizations that have wide applicability (see rule 1.4 [https://www.spec.org/cpu2017/Docs/runrules.html#rule\\_1.4](https://www.spec.org/cpu2017/Docs/runrules.html#rule_1.4)), SPEC will no longer publish results using this optimization.

This result is left in the SPEC results database for historical reference.

## 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.

This benchmark result is intended to provide perspective on past performance using the historical hardware and/or software described on this result page.

The system as described on this result page was formerly generally available. At the time of this publication, it may not be shipping, and/or may not be supported, and/or may fail to meet other tests of General Availability described in the SPEC OSG Policy document, <http://www.spec.org/osg/policy.html>. This measured result may not be representative of the result that would be measured were this benchmark run with hardware and software available as of the publication date.

This benchmark run is conducted using the latest binaries based on IC23 and to suffice the minimum software requirement, the Operating System used is RHEL9.0



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## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

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>

## Environment Variables Notes

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

LD\_LIBRARY\_PATH = "/home/cpu2017/lib/intel64:/home/cpu2017/lib/ia32:/home/cpu2017/je5.0.1-32"

MALLOC\_CONF = "retain:true"

## General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8480+ CPU + 512GB RAM memory using Red Hat Enterprise Linux 9.0

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.

## Platform Notes

The system ROM used for this result contains Intel microcode version 0x71a for the Intel Xeon E5-2620 processor.

BIOS Configuration:

HP Power Profile set to Custom

Energy/Performance Bias set to Maximum Performance

Thermal Configuration set to Maximum Cooling

Collaborative Power Control set to Disabled

Processor Power and Utilization Monitoring set to Disabled

Sysinfo program /home/cpu2017/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on localhost.localdomain Tue May 16 18:42:52 2023

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

-----  
Table of contents  
-----

1. uname -a
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numactl --hardware

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## Platform Notes (Continued)

```
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 250 (250-6.el9_0)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS
-----
-----
1. uname -a
Linux localhost.localdomain 5.14.0-70.13.1.el9_0.x86_64 #1 SMP PREEMPT Thu Apr 14 12:42:38 EDT 2022 x86_64
x86_64 x86_64 GNU/Linux
-----
2. w
18:42:52 up 3:59, 1 user, load average: 0.07, 0.02, 0.00
USER TTY LOGIN@ IDLE JCPU PCPU WHAT
root pts/0 18:39 12.00s 2.62s 0.01s -bash
-----
3. Username
From environment variable $USER: root
-----
4. ulimit -a
real-time non-blocking time (microseconds, -R) unlimited
core file size (blocks, -c) 0
data seg size (kbytes, -d) unlimited
scheduling priority (-e) 0
file size (blocks, -f) unlimited
pending signals (-i) 513268
max locked memory (kbytes, -l) 64
max memory size (kbytes, -m) unlimited
open files (-n) 1024
pipe size (512 bytes, -p) 8
POSIX message queues (bytes, -q) 819200
real-time priority (-r) 0
stack size (kbytes, -s) unlimited
cpu time (seconds, -t) unlimited
max user processes (-u) 513268
virtual memory (kbytes, -v) unlimited
file locks (-x) unlimited
-----
5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize 30
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: root [priv]
sshd: root@pts/0
-bash
-bash
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=24 -c
```

(Continued on next page)



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## Platform Notes (Continued)

```
HPE-ic2023.0-lin-core-avx-rate-20221201.cfg --define smt-on --define cores=12 --define physicalfirst
--define invoke_with_interleave --define drop_caches --tune base -o all intrate
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=24 --configfile
HPE-ic2023.0-lin-core-avx-rate-20221201.cfg --define smt-on --define cores=12 --define physicalfirst
--define invoke_with_interleave --define drop_caches --tune base --output_format all --nopower --runmode
rate --tune base --size reflatre intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2017.005/templogs/preenv.intrate.005.0.log --lognum 005.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017
```

---

```
6. /proc/cpuinfo
model name      : Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz
vendor_id       : GenuineIntel
cpu family     : 6
model          : 45
stepping        : 7
microcode       : 0x71a
bugs            : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
cpu cores       : 6
siblings         : 12
2 physical ids (chips)
24 processors (hardware threads)
physical id 0: core ids 0-5
physical id 1: core ids 0-5
physical id 0: apicids 0-11
physical id 1: apicids 32-43
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

---

7. lscpu

From lscpu from util-linux 2.37.4:

Architecture:	x86_64
CPU op-mode(s):	32-bit, 64-bit
Address sizes:	46 bits physical, 48 bits virtual
Byte Order:	Little Endian
CPU(s):	24
On-line CPU(s) list:	0-23
Vendor ID:	GenuineIntel
BIOS Vendor ID:	Intel
Model name:	Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz
BIOS Model name:	Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz
CPU family:	6
Model:	45
Thread(s) per core:	2
Core(s) per socket:	6
Socket(s):	2
Stepping:	7
BogoMIPS:	3990.37
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 arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfmpf perf_pni pclmulqdq dtes64 monitor ds_cpl smx est tm2 ssse3 cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic popcnt tsc_deadline_timer aes xsave avx lahf_lm epb pti ssbd ibrs ibpb stibp xsaveopt dtherm ida arat pln pts md_clear flush_lld
L1d cache:	384 KiB (12 instances)
L1i cache:	384 KiB (12 instances)

(Continued on next page)



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## Platform Notes (Continued)

L2 cache: 3 MiB (12 instances)  
L3 cache: 30 MiB (2 instances)  
NUMA node(s): 2  
NUMA node0 CPU(s): 0-5,12-17  
NUMA node1 CPU(s): 6-11,18-23  
Vulnerability Itlb multihit: KVM: Mitigation: VMX unsupported  
Vulnerability Lltf: Mitigation: PTE Inversion  
Vulnerability Mds: Mitigation: Clear CPU buffers; SMT vulnerable  
Vulnerability Meltdown: Mitigation: PTI  
Vulnerability Spec store bypass: Mitigation: Speculative Store Bypass disabled via prctl  
Vulnerability Spectre v1: Mitigation: usercopy/swapgs barriers and \_\_user pointer sanitization  
Vulnerability Spectre v2: Mitigation: Retpolines, IBPB conditional, IBRS\_FW, STIBP conditional, RSB filling  
Vulnerability Srbds: Not affected  
Vulnerability Tsx async abort: Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	32K	384K	8	Data	1	64	1	64
L1i	32K	384K	8	Instruction	1	64	1	64
L2	256K	3M	8	Unified	2	512	1	64
L3	15M	30M	20	Unified	3	12288	1	64

-----  
8. numactl --hardware

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

available: 2 nodes (0-1)  
node 0 cpus: 0-5,12-17  
node 0 size: 63857 MB  
node 0 free: 63249 MB  
node 1 cpus: 6-11,18-23  
node 1 size: 64496 MB  
node 1 free: 64038 MB  
node distances:  
node 0 1  
0: 10 20  
1: 20 10

-----  
9. /proc/meminfo

MemTotal: 131434248 kB

-----  
10. who -r  
run-level 3 May 16 14:43

-----  
11. Systemd service manager version: systemd 250 (250-6.el9\_0)

Default Target Status  
multi-user running

-----  
12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	NetworkManager NetworkManager-dispatcher NetworkManager-wait-online audited chronyd crond dbus-broker firewalld getty@ irqbalance kdump microcode nis-domainname rhsmcertd rsyslog selinux-autorelabel-mark sshd sssd systemd-network-generator upower
enabled-runtime	systemd-remount-fs
disabled	canberra-system-bootup canberra-system-shutdown canberra-system-shutdown-reboot chrony-wait console-getty cpupower debug-shell ipsec kvm_stat man-db-restart-cache-update

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## Platform Notes (Continued)

```
nftables rdisc rhsm rhsm-facts rpmbuild serial-getty@ sshd-keygen@  
systemd-boot-check-no-failures systemd-pstore systemd-sysext  
indirect sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo
```

```
-----  
13. Linux kernel boot-time arguments, from /proc/cmdline  
BOOT_IMAGE=(hd0,msdos1)/vmlinuz-5.14.0-70.13.1.el9_0.x86_64  
root=UUID=acf8a8ca-5988-4457-9171-ba2d85497156  
ro  
crashkernel=1G-4G:192M,4G-64G:256M,64G-:512M  
resume=UUID=2f64101f-28af-4299-bfb5-054318a8e7f5
```

```
-----  
14. cpupower frequency-info  
analyzing CPU 0:  
  Unable to determine current policy  
  boost state support:  
    Supported: yes  
    Active: yes
```

```
-----  
15. sysctl  
kernel.numa_balancing          1  
kernel.randomize_va_space       2  
vm.compaction_proactiveness    20  
vm.dirty_background_bytes      0  
vm.dirty_background_ratio      10  
vm.dirty_bytes                 0  
vm.dirty_expire_centisecs     3000  
vm.dirty_ratio                 20  
vm.dirty_writeback_centisecs   500  
vm.dirtytime_expire_seconds    43200  
vm.extfrag_threshold           500  
vm.min_unmapped_ratio          1  
vm.nr_hugepages                0  
vm.nr_hugepages_mempolicy      0  
vm.nr_overcommit_hugepages     0  
vm.swappiness                   60  
vm.watermark_boost_factor      15000  
vm.watermark_scale_factor       10  
vm.zone_reclaim_mode           0
```

```
-----  
16. /sys/kernel/mm/transparent_hugepage  
defrag           always defer+madvise [madvise] never  
enabled          [always] madvise never  
hpage_pmd_size  2097152  
shmem_enabled    always within_size advise [never] deny force
```

```
-----  
17. /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
```

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## Platform Notes (Continued)

18. OS release  
From /etc/\*-release /etc/\*-version  
os-release Red Hat Enterprise Linux 9.0 (Plow)  
redhat-release Red Hat Enterprise Linux release 9.0 (Plow)  
system-release Red Hat Enterprise Linux release 9.0 (Plow)

-----  
19. Disk information  
SPEC is set to: /home/cpu2017  
Filesystem Type Size Used Avail Use% Mounted on  
/dev/sda5 xfs 1.1T 34G 1009G 4% /home

-----  
20. /sys/devices/virtual/dmi/id  
Vendor: HP  
Product: ProLiant DL380p Gen8  
Product Family: ProLiant  
Serial: 2M2346032Z

-----  
21. dmidecode  
Additional information from dmidecode 3.3 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:  
8x HP 672612-081 16 GB 2 rank 1600, configured at 1333

-----  
22. BIOS  
(This section combines info from /sys/devices and dmidecode.)  
BIOS Vendor: HP  
BIOS Version: P70  
BIOS Date: 05/24/2019  
Firmware Revision: 2.79

## Compiler Version Notes

=====

C | 500.perlbench\_r(base) 502.gcc\_r(base) 505.mcf\_r(base) 525.x264\_r(base) 557.xz\_r(base)

-----  
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.1.0 Build 20230320  
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

=====

C++ | 520.omnetpp\_r(base) 523.xalancbmk\_r(base) 531.deepsjeng\_r(base) 541.leela\_r(base)

-----  
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.1.0 Build 20230320  
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

=====

Fortran | 548.exchange2\_r(base)

-----  
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.1.0 Build 20230320  
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## Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

## 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:

```
-w -std=c11 -m64 -Wl,-z,muldefs -xAVX -O3 -ffast-math -fsto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```

C++ benchmarks:

```
-w -std=c++14 -m64 -Wl,-z,muldefs -xAVX -O3 -ffast-math -fsto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```

Fortran benchmarks:

```
-w -m64 -Wl,-z,muldefs -xAVX -O3 -ffast-math -fsto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -nostandard-realloc-lhs
-align array32byte -auto
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```



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

<http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-V1.0-revA.html>

<http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.html>

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

<http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-V1.0-revA.xml>

<http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.xml>

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