



# SPEC CPU®2017 Integer Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

Fujitsu

PRIMERGY RX1330 M6,  
Intel Xeon 6337P, 3.5 GHz

SPECrate®2017\_int\_base = 77.3

SPECrate®2017\_int\_peak = Not Run

CPU2017 License: 19

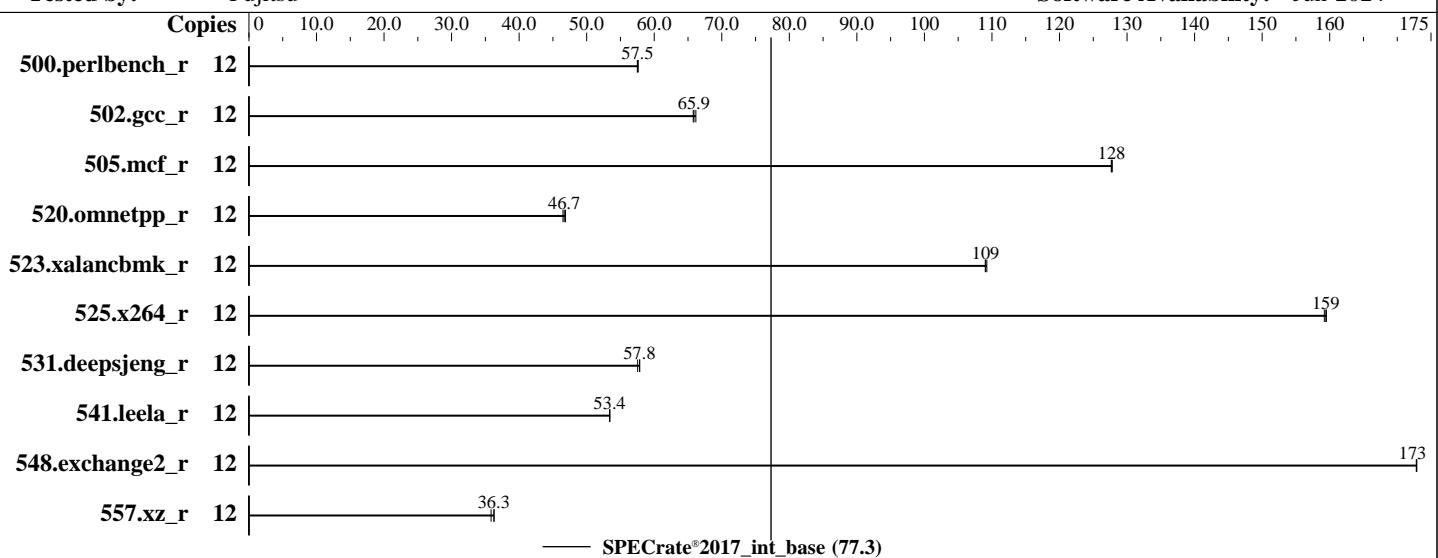
Test Sponsor: Fujitsu

Tested by: Fujitsu

Test Date: Mar-2025

Hardware Availability: Apr-2025

Software Availability: Jun-2024



## Hardware

CPU Name: Intel Xeon 6337P  
Max MHz: 5300  
Nominal: 3500  
Enabled: 6 cores, 1 chip, 2 threads/core  
Orderable: 1 chip  
Cache L1: 32 KB I + 48 KB D on chip per core  
L2: 2 MB I+D on chip per core  
L3: 18 MB I+D on chip per chip  
Other: None  
Memory: 64 GB (2 x 32 GB 2Rx8 PC5-4800B-E, running at 4400)  
Storage: 1 x SATA M.2 SSD, 960 GB  
Other: CPU Cooling: Air

## Software

OS: SUSE Linux Enterprise Server 15 SP6 6.4.0-150600.21-default  
Compiler: C/C++: Version 2024.1 of Intel oneAPI DPC++/C++ Compiler for Linux;  
Fortran: Version 2024.1 of Intel Fortran Compiler for Linux;  
Parallel: No  
Firmware: Fujitsu BIOS Version V5.0.0.32 R2.1.0 for D4133-A1x. Released Apr-2025  
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
500.perlbench_r	12	<b>332</b>	<b>57.5</b>	332	57.6	332	57.5							
502.gcc_r	12	257	66.2	258	65.8	<b>258</b>	<b>65.9</b>							
505.mcf_r	12	<b>152</b>	<b>128</b>	152	128	152	128							
520.omnetpp_r	12	339	46.5	<b>337</b>	<b>46.7</b>	336	46.9							
523.xalancbmk_r	12	116	109	<b>116</b>	<b>109</b>	116	109							
525.x264_r	12	132	160	<b>132</b>	<b>159</b>	132	159							
531.deepsjeng_r	12	<b>238</b>	<b>57.8</b>	238	57.9	239	57.5							
541.leela_r	12	372	53.4	<b>372</b>	<b>53.4</b>	372	53.4							
548.exchange2_r	12	182	173	<b>182</b>	<b>173</b>	182	173							
557.xz_r	12	362	35.8	357	36.3	<b>357</b>	<b>36.3</b>							

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

## Submit Notes

The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset 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"  
echo 15000000 > /proc/sys/kernel/sched\_min\_granularity\_ns

## Environment Variables Notes

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

```
LD_LIBRARY_PATH =
    "/home/benchmark/speccpu-24.1/lib/intel64:/home/benchmark/speccpu-24.1/lib/ia32:/home/benchmark/speccpu-24.1/je5.0.1-32"
MALLOC_CONF = "retain:true"
```

## General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM  
memory using Red Hat Enterprise Linux 8.4

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
```

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.



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## Platform Notes

BIOS configuration:  
Fan Control = Full  
Total Memory Encryption = Disabled  
DMI Max Link Speed = Gen3  
Package C-State limit = C0

Sysinfo program /home/benchmark/speccpu-24.1/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on localhost Wed Mar 26 20:08:26 2025

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  
9. /proc/meminfo  
10. who -r  
11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)  
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 6.4.0-150600.21-default #1 SMP PREEMPT\_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09)  
x86\_64 x86\_64 x86\_64 GNU/Linux

-----  
2. w  
20:08:26 up 2:14, 1 user, load average: 3.52, 9.39, 11.08  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
root ttym1 - 17:57 2:10m 0.70s 0.04s -bash

-----  
3. Username  
From environment variable \$USER: root

-----  
4. ulimit -a  
core file size (blocks, -c) unlimited  
data seg size (kbytes, -d) unlimited  
scheduling priority (-e) 0  
file size (blocks, -f) unlimited

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## Platform Notes (Continued)

```
pending signals          (-i) 254382
max locked memory      (kbytes, -l) 8192
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) 254382
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited
```

```
-----  
5. sysinfo process ancestry  
/usr/lib/systemd/systemd --switched-root --system --deserialize=42  
login -- root  
-bash  
-bash  
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=12 -c  
    ic2024.1-lin-core-avx2-rate-20240308.cfg --define smt-on --define cores=6 --define physicallogical  
    --define no-numa --tune base -o all --define drop_caches inrate  
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=12 --configfile  
    ic2024.1-lin-core-avx2-rate-20240308.cfg --define smt-on --define cores=6 --define physicallogical  
    --define no-numa --tune base --output_format all --define drop_caches --nopower --runmode rate --tune base  
    --size reframe inrate --nopreenv --note-preenv --logfile  
    $SPEC/tmp/CPU2017.001/templogs/preenv.inrate.001.0.log --lognum 001.0 --from_runcpu 2  
specperl $SPEC/bin/sysinfo  
$SPEC = /home/benchmark/speccpu-24.1
```

```
-----  
6. /proc/cpuinfo  
model name      : Intel(R) Xeon(R) 6337P  
vendor_id       : GenuineIntel  
cpu family     : 6  
model          : 183  
stepping        : 1  
microcode       : 0x12c  
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrss_pbrss bhi  
cpu cores       : 6  
siblings        : 12  
1 physical ids (chips)  
12 processors (hardware threads)  
physical id 0: core ids 0-5  
physical id 0: apicids 0-11
```

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 2.39.3:  
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):                12  
On-line CPU(s) list:   0-11  
Vendor ID:             GenuineIntel  
BIOS Vendor ID:        Intel(R) Corporation
```

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**Software Availability:** Jun-2024

## Platform Notes (Continued)

Model name:	Intel(R) Xeon(R) 6337P
BIOS Model name:	Intel(R) Xeon(R) 6337P CPU @ 4.7GHz
BIOS CPU family:	179
CPU family:	6
Model:	183
Thread(s) per core:	2
Core(s) per socket:	6
Socket(s):	1
Stepping:	1
CPU(s) scaling MHz:	24%
CPU max MHz:	5300.0000
CPU min MHz:	800.0000
BogoMIPS:	6988.80
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 xtstopology nonstop_tsc cpuid aperfmpf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbe fma cx16 xtpr pdcm sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmil avx2 smep bmi2 erms invpcid rdseed adx smap clflushopt clwb intel_pt sha_ni xsaveopt xsavec xgetbv1 xsaves split_lock_detect user_shstk avx_vnni dtherm ida arat pln pts hwp hwp_notify hwp_act_window hwp_epp hwp_pkg_req hfi vnmi umip pku ospke waitpkg gfni vaes vpclmulqdq tme rdpid movdiri movdir64b fsrm md_clear serialize pconfig arch_lbr ibt flush_llid arch_capabilities VT-x
Virtualization:	
L1d cache:	288 KiB (6 instances)
L1i cache:	192 KiB (6 instances)
L2 cache:	12 MiB (6 instances)
L3 cache:	18 MiB (1 instance)
NUMA node(s):	1
NUMA node0 CPU(s):	0-11
Vulnerability Gather data sampling:	Not affected
Vulnerability Itlb multihit:	Not affected
Vulnerability L1tf:	Not affected
Vulnerability Mds:	Not affected
Vulnerability Meltdown:	Not affected
Vulnerability Mmio stale data:	Not affected
Vulnerability Reg file data sampling:	Not affected
Vulnerability Retbleed:	Not affected
Vulnerability Spec rstack overflow:	Not affected
Vulnerability Spec store bypass:	Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1:	Mitigation; usercopy/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2:	Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling; PBRSB-eIBRS SW sequence; BHI BHI_DIS_S
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	48K	288K	12	Data	1	64	1	64
L1i	32K	192K	8	Instruction	1	64	1	64
L2	2M	12M	16	Unified	2	2048	1	64
L3	18M	18M	9	Unified	3	32768	1	64

-----  
8. numactl --hardware

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

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## Platform Notes (Continued)

```
available: 1 nodes (0)
node 0 cpus: 0-11
node 0 size: 63621 MB
node 0 free: 62936 MB
node distances:
node 0
 0: 10

-----
9. /proc/meminfo
MemTotal:       65148568 kB

-----
10. who -r
run-level 3 Mar 26 17:54

-----
11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
Default Target      Status
multi-user          running

-----
12. Services, from systemctl list-unit-files
STATE            UNIT FILES
enabled          apparmor auditd cron getty@ irqbalance issue-generator kbdsettings lvm2-monitor postfix
                  purge-kernels rollback sshd systemd-pstore wicked wickedd-auto4 wickedd-dhcp4
                  wickedd-dhcp6 wickedd-nanny
enabled-runtime   systemd-remount-fs
disabled         YaST2-Firstboot YaST2-Second-Stage autofs autoyast-initscripts blk-availability
                  boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed
                  debug-shell display-manager ebttables exchange-bmc-os-info firewalld fsidd gpm grub2-once
                  haveged ipmi ipmievrd issue-add-ssh-keys kdump kdump-early kdump-notify kexec-load klog
                  lunmask man-db-create multipathd nfs nfs-blkmap nsqd rpcbind rpmconfigcheck rsyncd rsyslog
                  sep5 serial-getty@ smartd smartd_generate_opts snmpd snmptrapd
                  systemd-boot-check-no-failures systemd-context systemd-network-generator systemd-sysext
                  systemd-time-wait-sync systemd-timesyncd vncserver@
indirect         systemd-userdbd wickedd

-----
13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default
root=UUID=05b1d80a-d951-40fe-83e8-c277f0eee56b
splash=silent
resume=/dev/disk/by-uuid/b1df6190-db25-46b3-8aad-b729fcabf639
mitigations=auto
quiet
security=apparmor
crashkernel=347M,high
crashkernel=72M,low

-----
14. cpupower frequency-info
analyzing CPU 2:
current policy: frequency should be within 800 MHz and 5.30 GHz.
The governor "powersave" may decide which speed to use
within this range.
boost state support:
Supported: yes
Active: yes
```

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## Platform Notes (Continued)

```
-----  
15. sysctl  
kernel.numa_balancing          0  
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 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
```

```
-----  
18. OS release  
From /etc/*-release /etc/*-version  
os-release SUSE Linux Enterprise Server 15 SP6
```

```
-----  
19. Disk information  
SPEC is set to: /home/benchmark/speccpu-24.1  
Filesystem      Type  Size  Used Avail Use% Mounted on  
/dev/sda3        xfs   791G   64G  728G   8% /home
```

```
-----  
20. /sys/devices/virtual/dmi/id  
Vendor:          FUJITSU  
Product:         PRIMERGY RX1330 M6  
Product Family: SERVER  
Serial:          XXXXXXXXXXXX
```

```
-----  
21. dmidecode  
Additional information from dmidecode 3.4 follows.  WARNING: Use caution when you interpret this section.
```

(Continued on next page)



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## Platform Notes (Continued)

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:

2x Samsung M324R4GA3BB0-CQKOD 32 GB 2 rank 4800, configured at 4400

-----  
22. BIOS

(This section combines info from /sys/devices and dmidecode.)

BIOS Vendor: FUJITSU // American Megatrends International, LLC.  
BIOS Version: V5.0.0.32 R2.1.0 for D4133-A1x  
BIOS Date: 02/26/2025  
BIOS Revision: 2.1

## 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 2024.1.0 Build 20240308  
Copyright (C) 1985-2024 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 2024.1.0 Build 20240308  
Copyright (C) 1985-2024 Intel Corporation. All rights reserved.

=====

=====

Fortran | 548.exchange2\_r(base)

=====

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2024.1.0 Build 20240308  
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=====

## Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx



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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:

```
-w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math -fno-math-errno  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-L/opt/intel/oneapi/compiler/2024.1/lib -lgkmalloc
```

C++ benchmarks:

```
-w -std=c++14 -m64 -Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math  
-fno-math-errno -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-L/opt/intel/oneapi/compiler/2024.1/lib -lgkmalloc
```

Fortran benchmarks:

```
-w -m64 -Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math -fno-math-errno  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-fno-standard-realloc-lhs -align array32byte -auto  
-L/opt/intel/oneapi/compiler/2024.1/lib -lgkmalloc
```

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

<http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-RPL-R-RevA.html>  
<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.html>

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

<http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-RPL-R-RevA.xml>  
<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.xml>

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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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