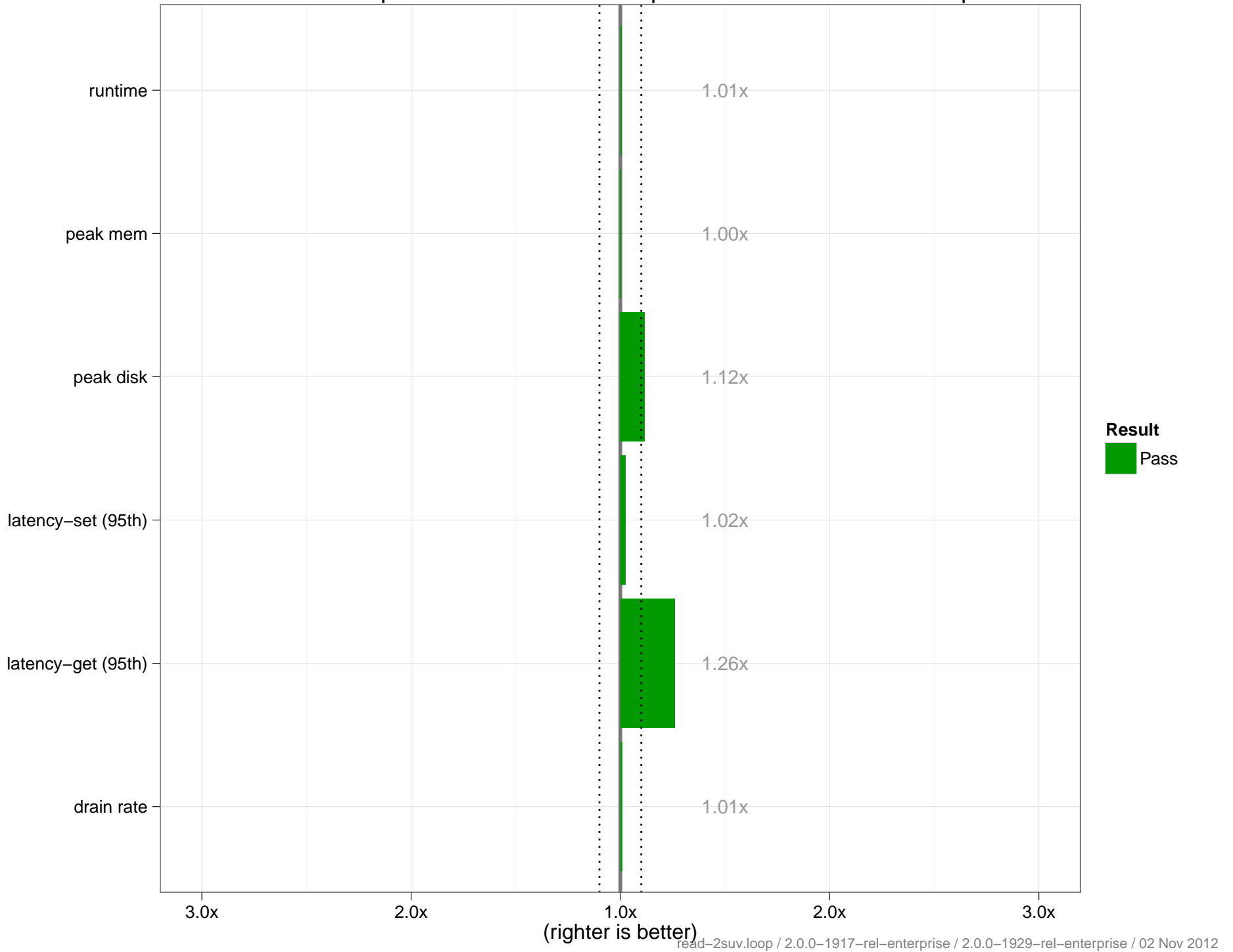
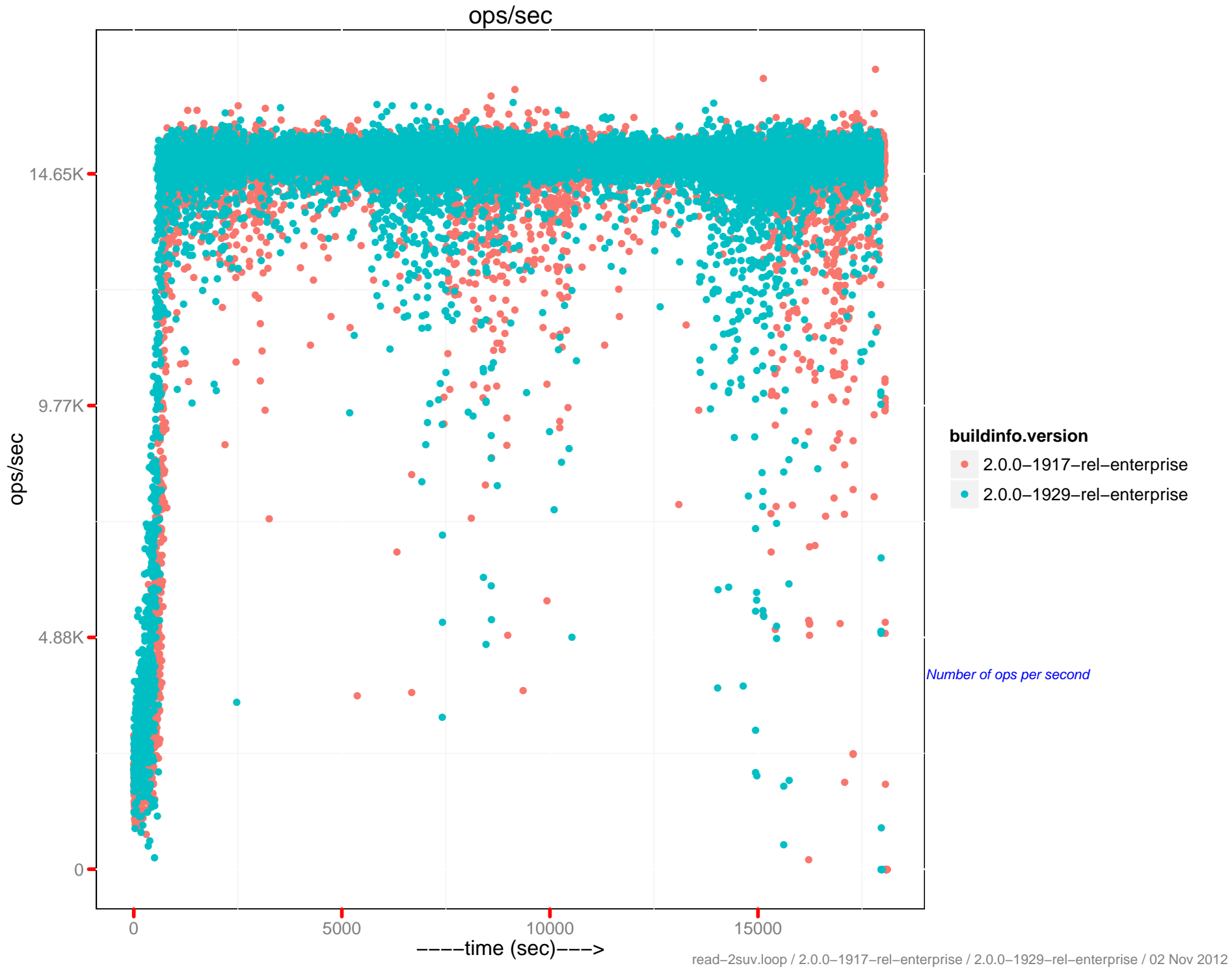


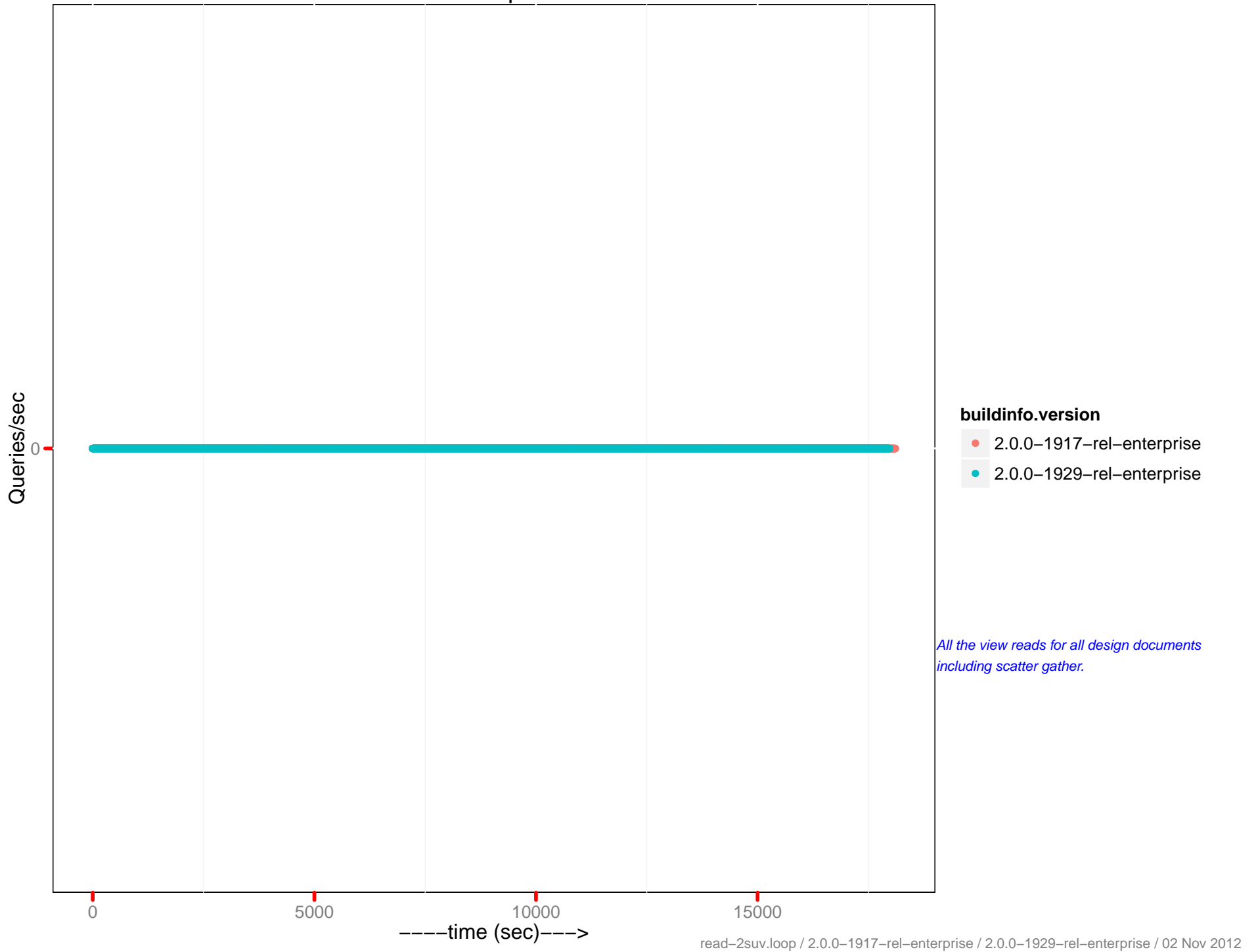
read-2suv.loop : 2.0.0-1917-rel-enterprise : 2.0.0-1929-rel-enterprise



	2.0.0 – 1917	2.0.0 – 1929
<i>Runtime (in hr)</i>	5.03	5
<i>Avg. Drain Rate</i>	434.09	437.64
<i>Peak Disk (GB)</i>	128.08	114.74
<i>Peak Memory (GB)</i>	16.5	16.44
<i>Avg. OPS</i>	14.41K	14.49K
<i>Avg. mem memcached (GB)</i>	16.22	16.11
<i>Avg. mem beam.smp (MB)</i>	259.09	304.26
<i>Avg. CPU rate (%)</i>	15.62	31.46
<i>Latency-get (90th) (ms)</i>	1.1	0.99
<i>Latency-get (95th) (ms)</i>	2.34	1.86
<i>Latency-get (99th) (ms)</i>	13.27	7.6
<i>Latency-set (90th) (ms)</i>	1.29	1.15
<i>Latency-set (95th) (ms)</i>	1.98	1.93
<i>Latency-set (99th) (ms)</i>	3.7	3.83
<i>Latency-query (80th) (ms)</i>	NA	NA
<i>Latency-query (90th) (ms)</i>	NA	NA
<i>Latency-query (95th) (ms)</i>	NA	NA
<i>Latency-query (99th) (ms)</i>	NA	NA
<i>Latency-query (99.9th) (ms)</i>	NA	NA
<i>Avg. QPS</i>	0	0
<i>Avg. XDC ops/sec</i>	NaN	NaN
<i>Avg. XDC queue</i>	NaN	NaN
<i>Rebalance Time (sec)</i>	0	0
<i>Testrunner Version</i>	3932051	6ffa465

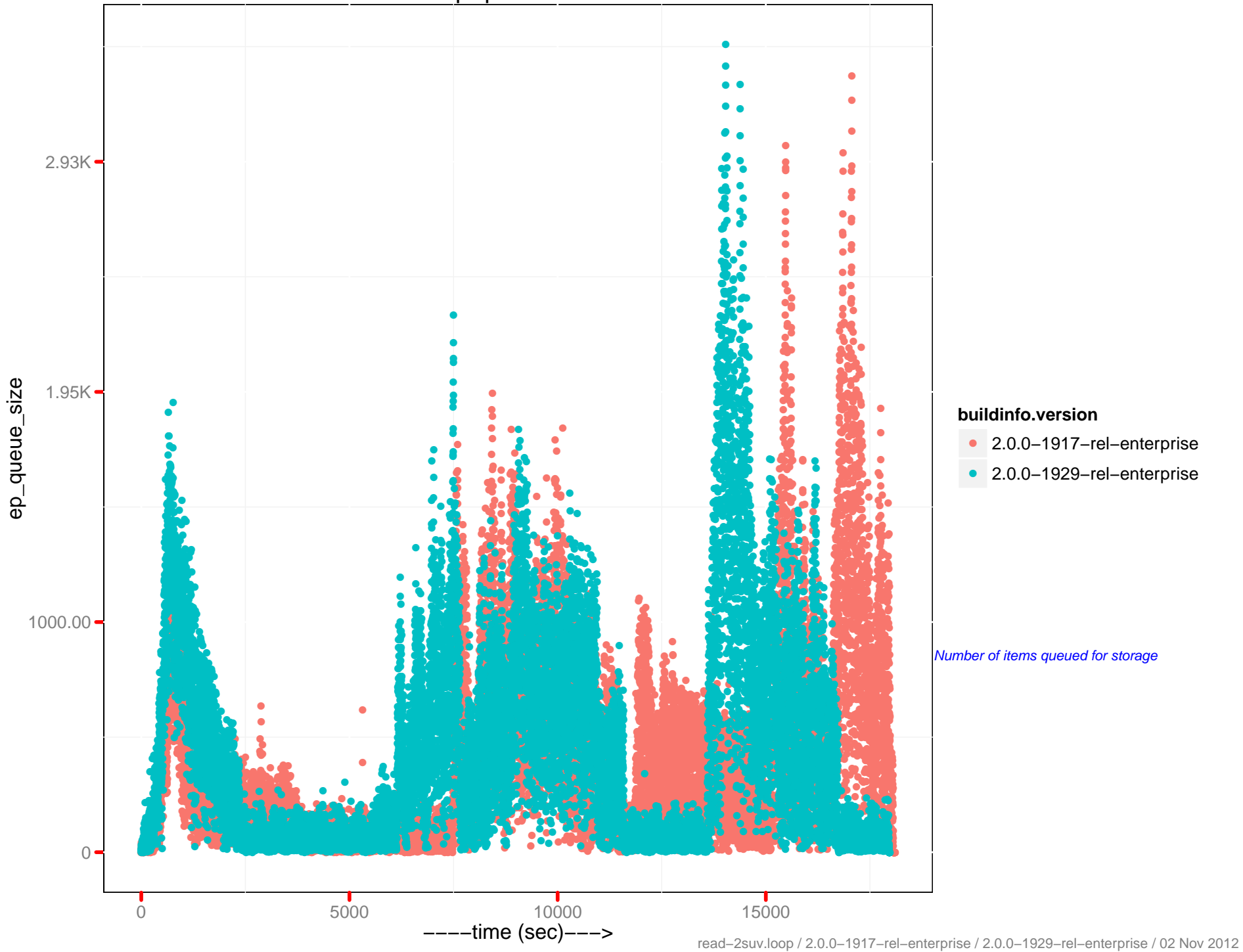


View read per sec.

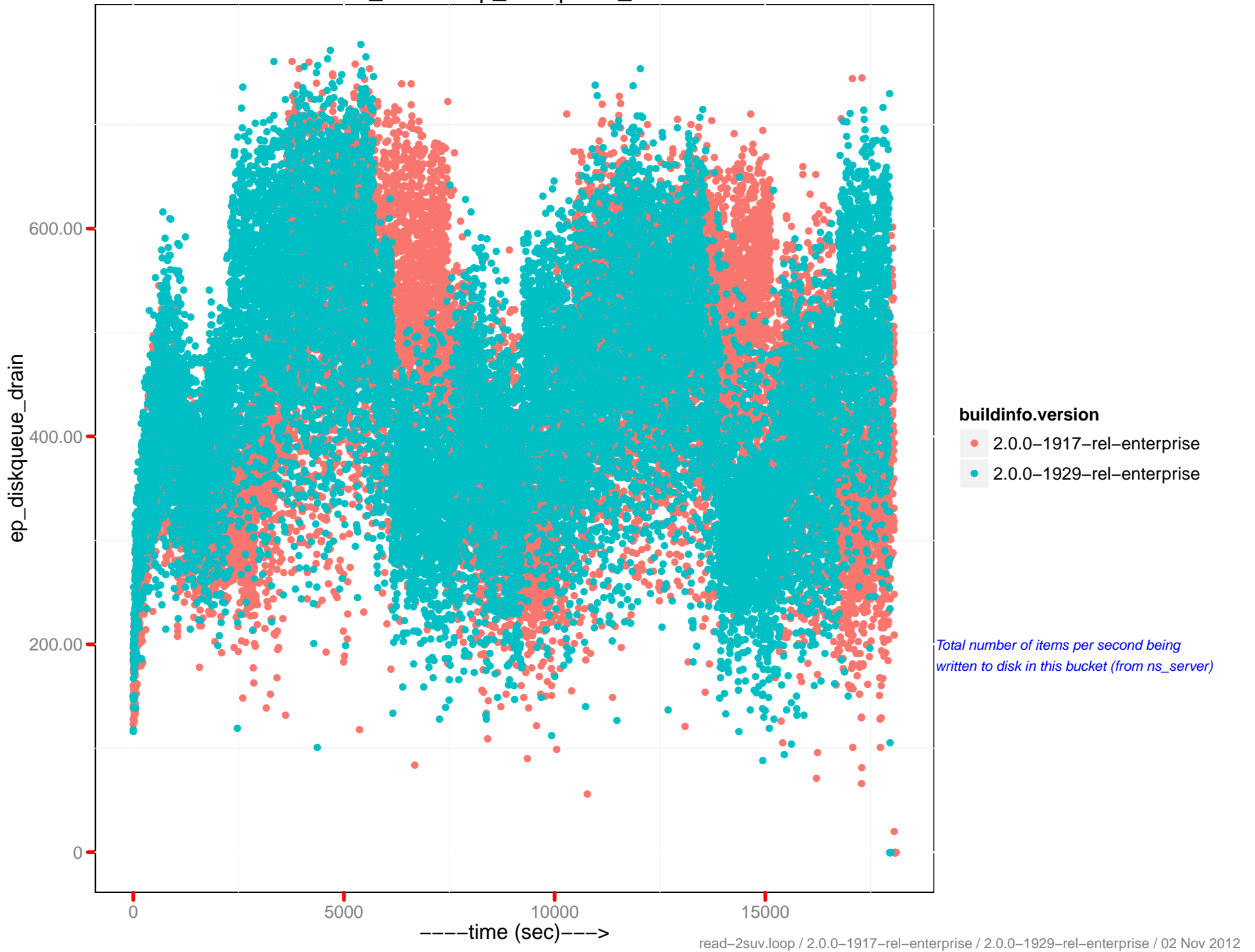


All the view reads for all design documents including scatter gather.

ep queue size



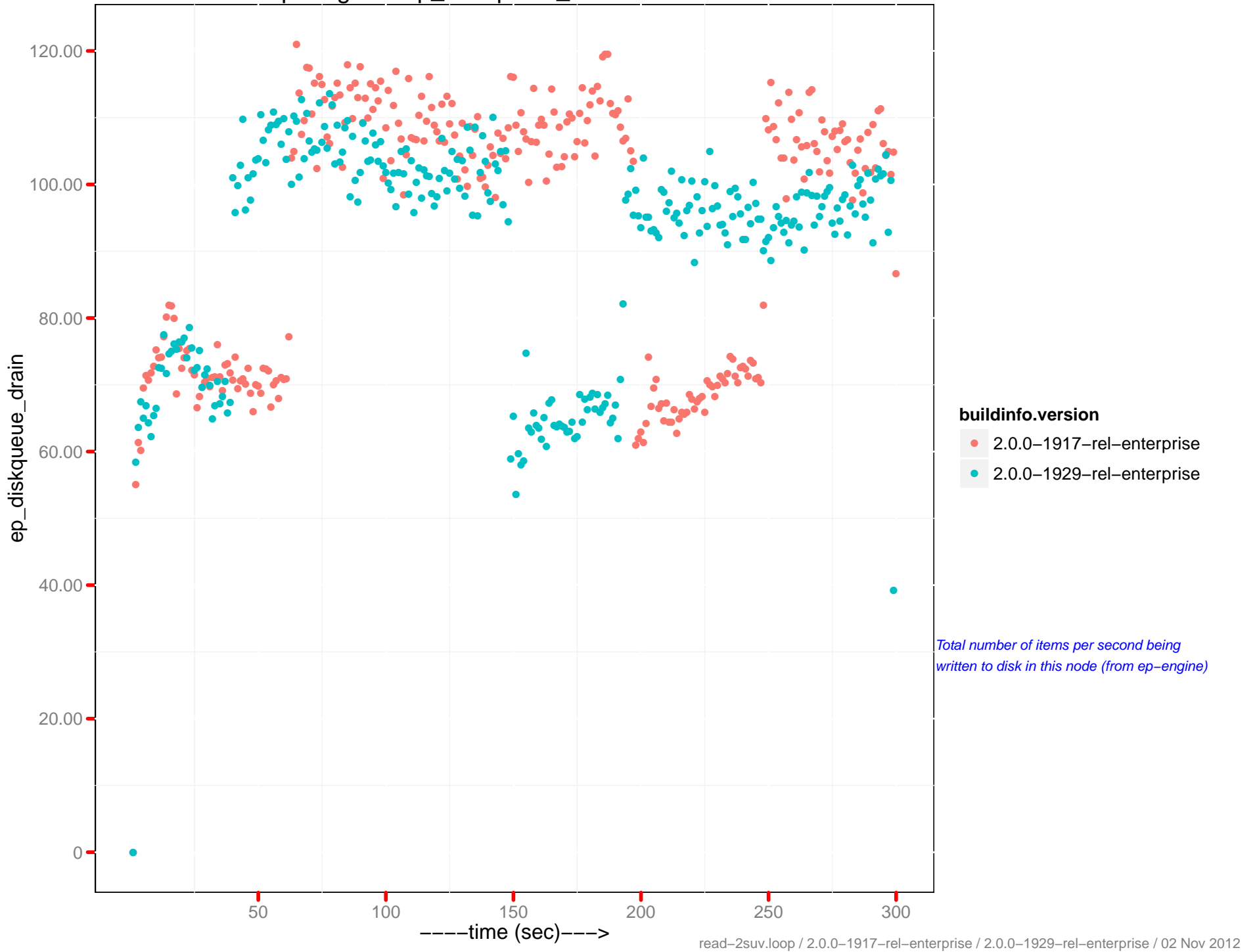
ns_server: ep_diskqueue_drain



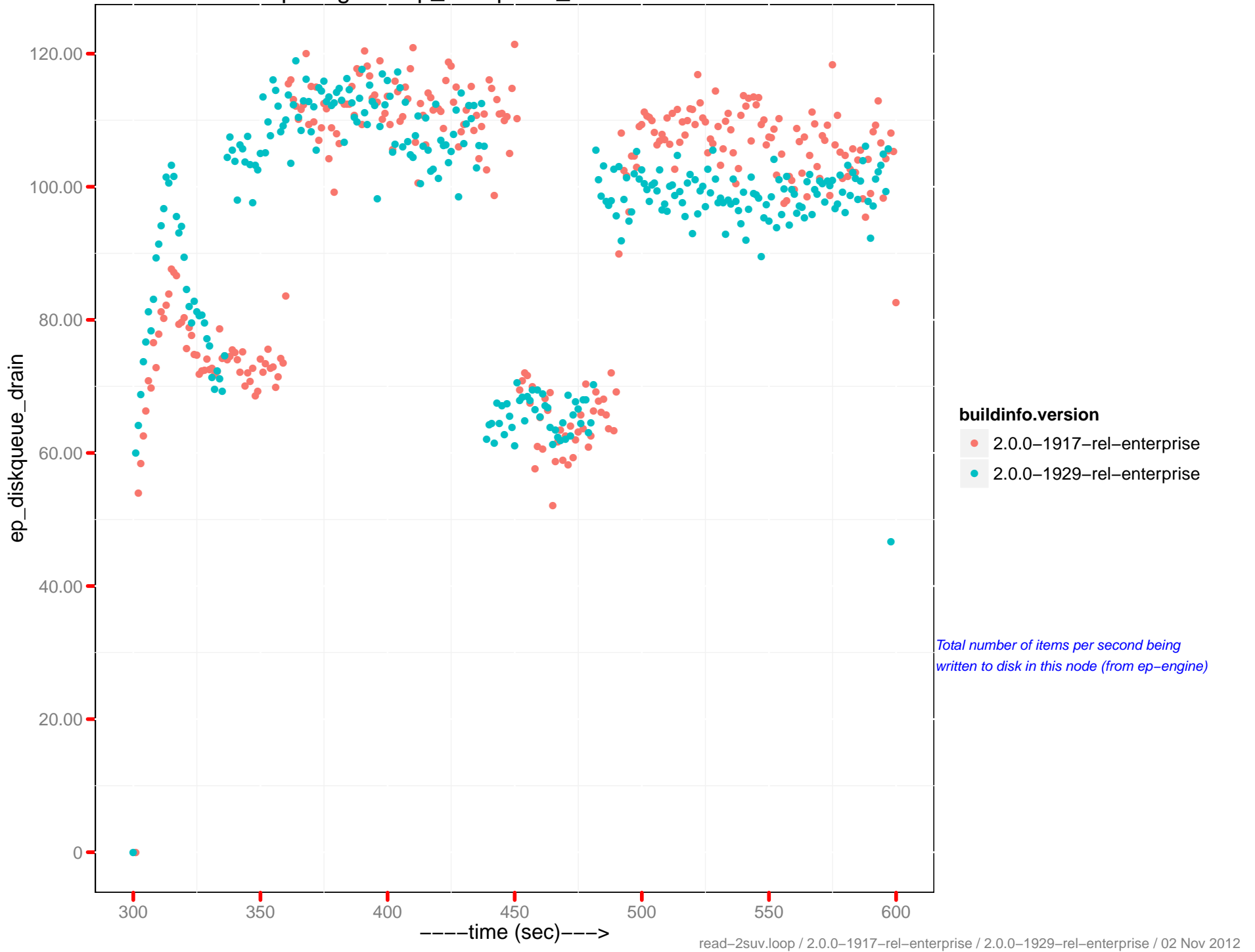
ep-engine : ep_diskqueue_drain - 10.2.1.58



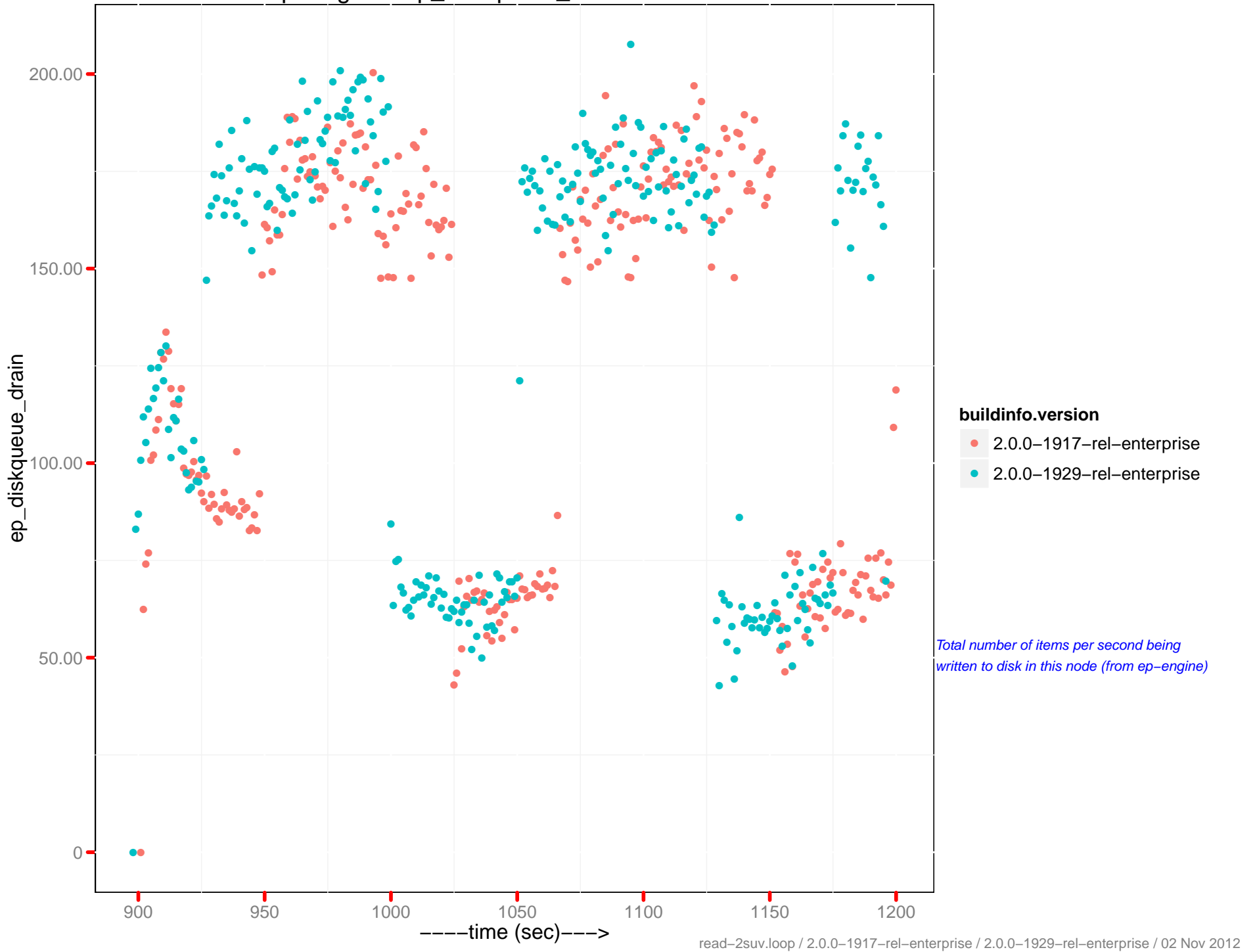
ep-engine : ep_diskqueue_drain - 10.2.1.61



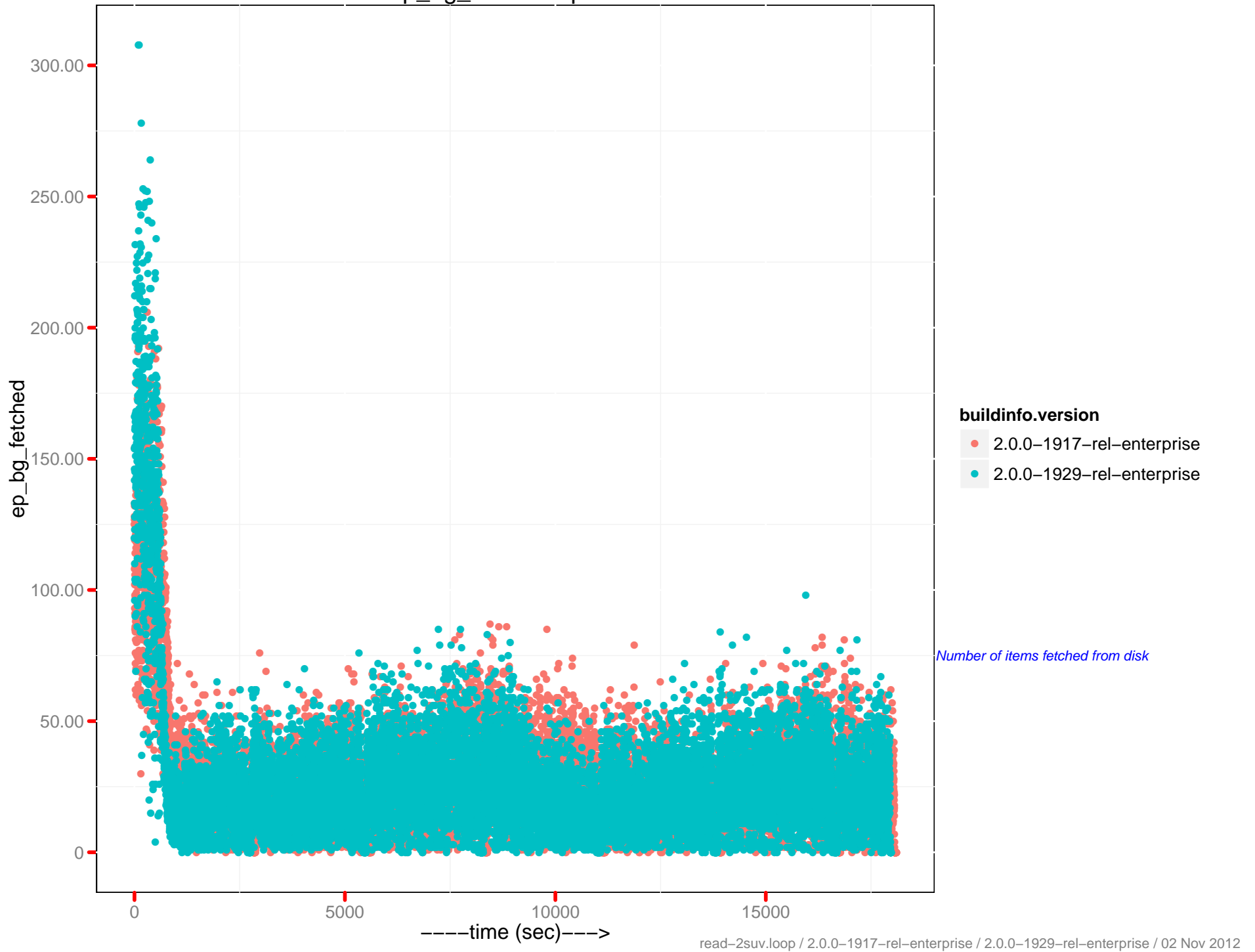
ep-engine : ep_diskqueue_drain - 10.2.1.63



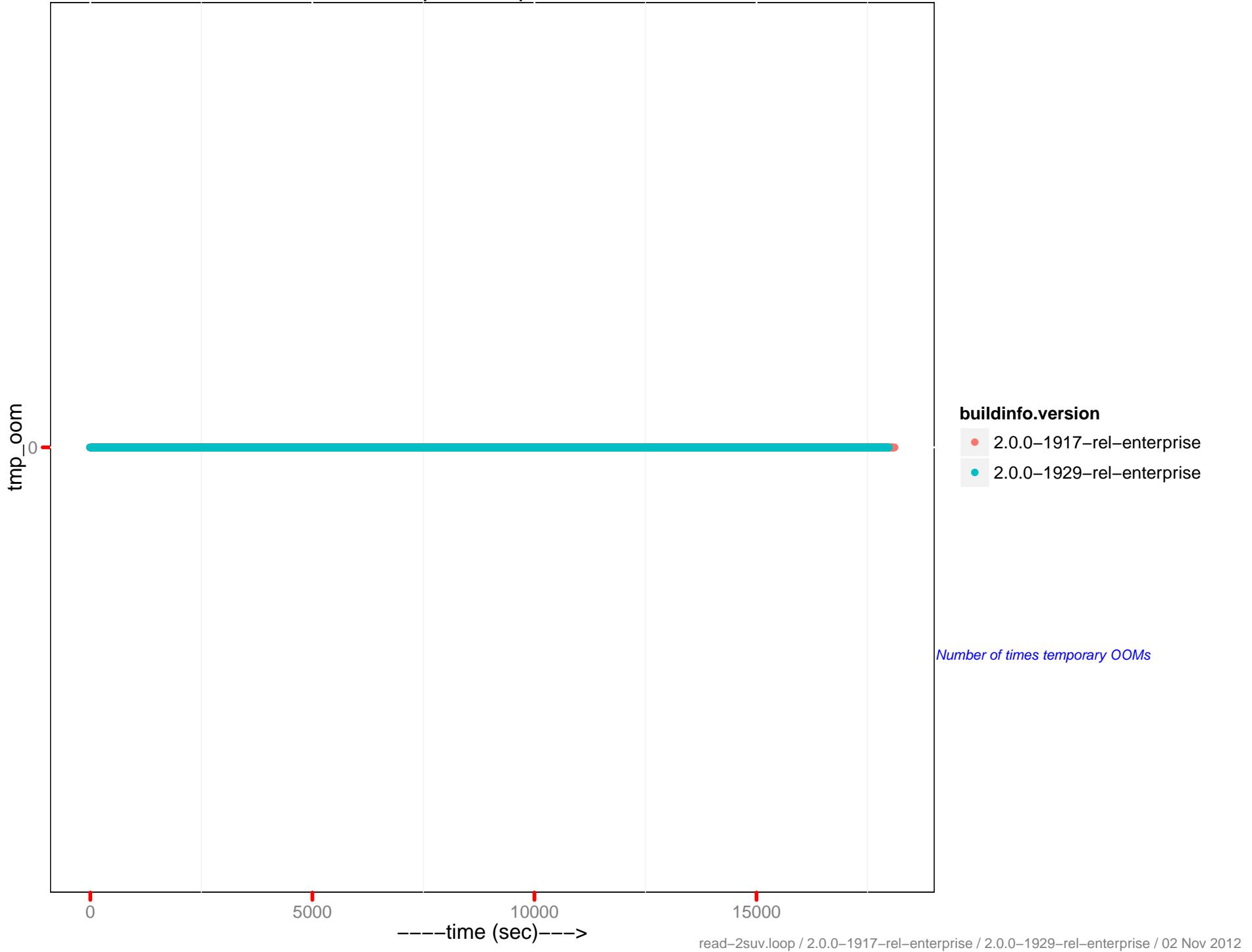
ep-engine : ep_diskqueue_drain - 10.2.1.64



ep_bg_fetched ops/sec



tmp_oom ops/sec

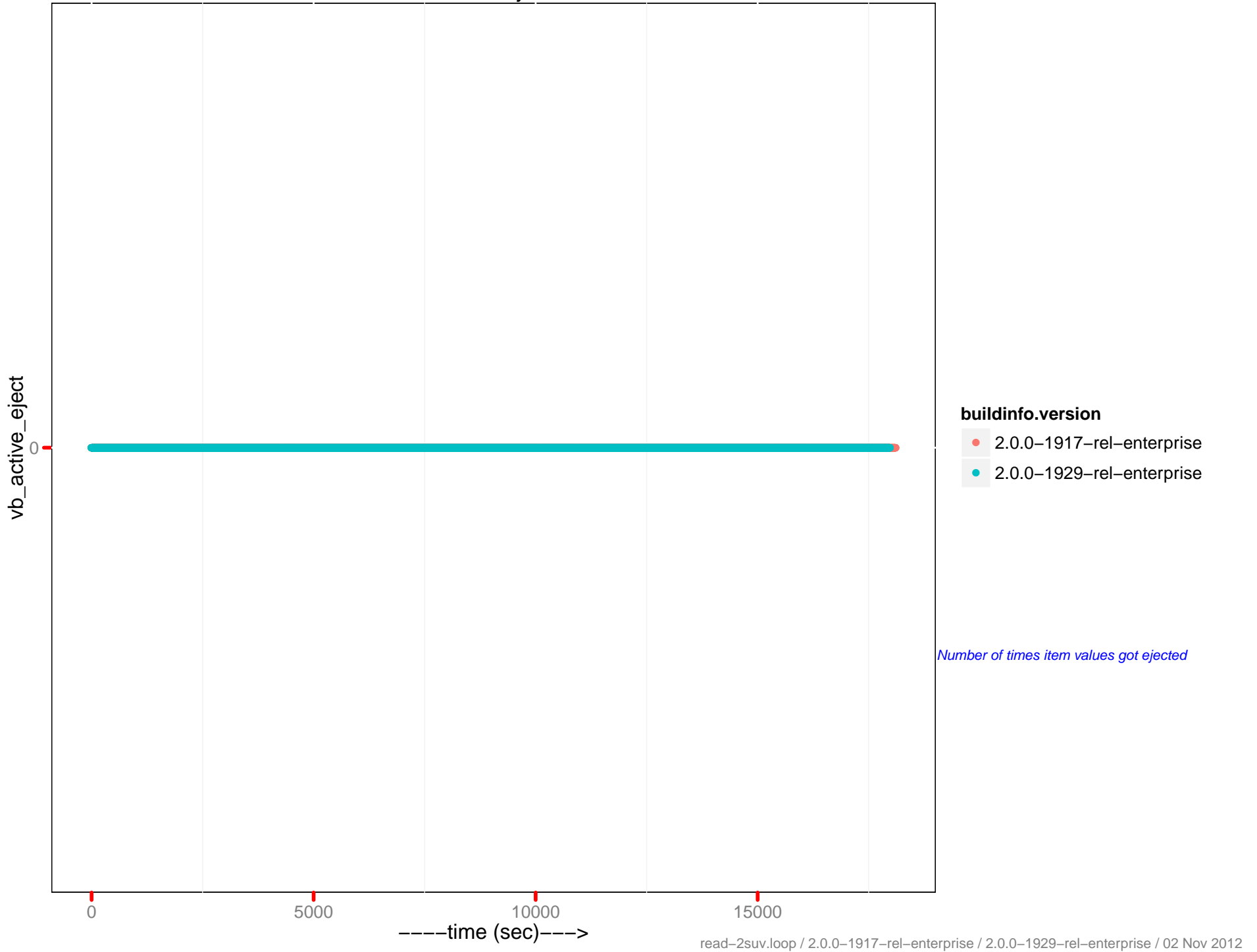


buildinfo.version

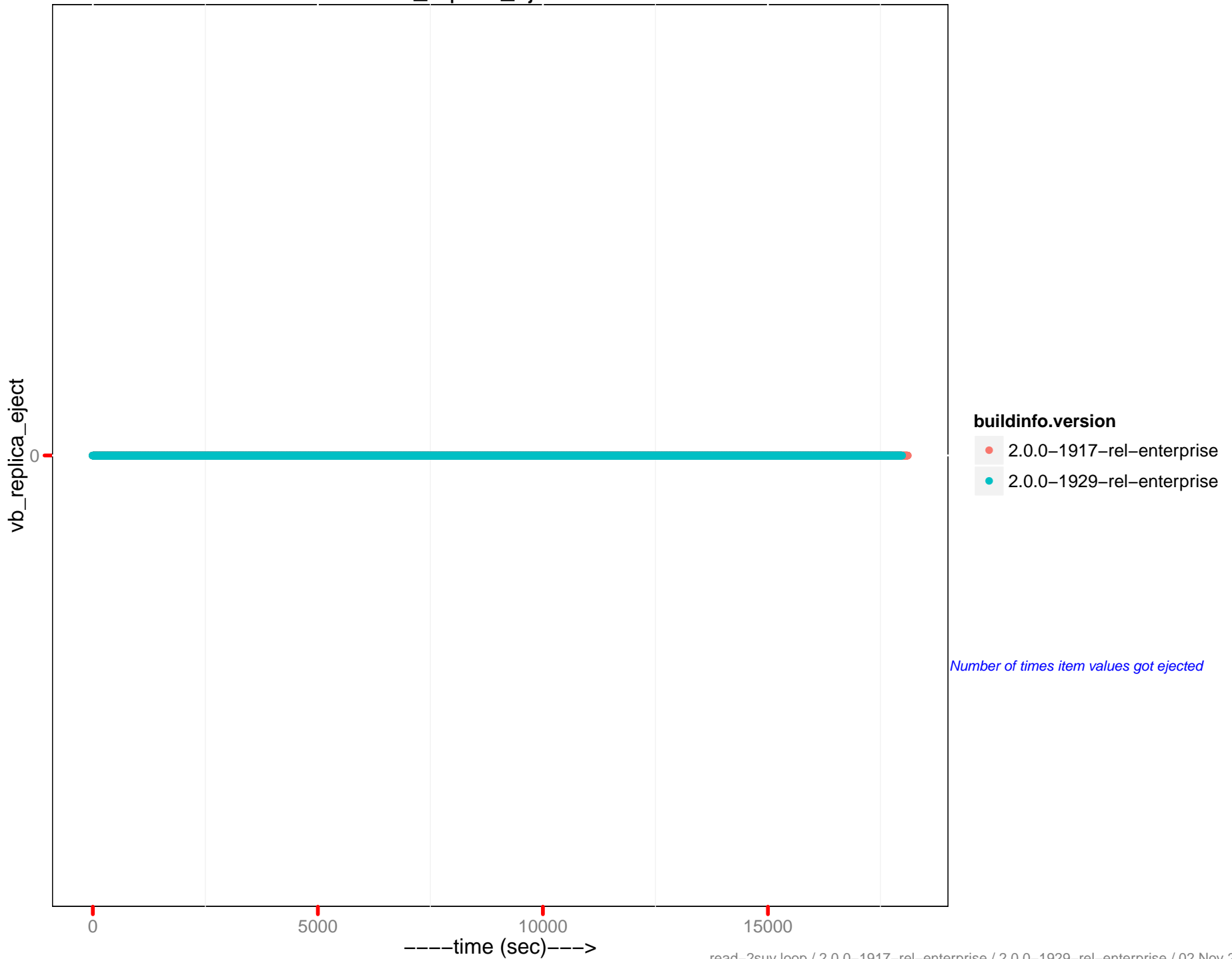
- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

Number of times temporary OOMs

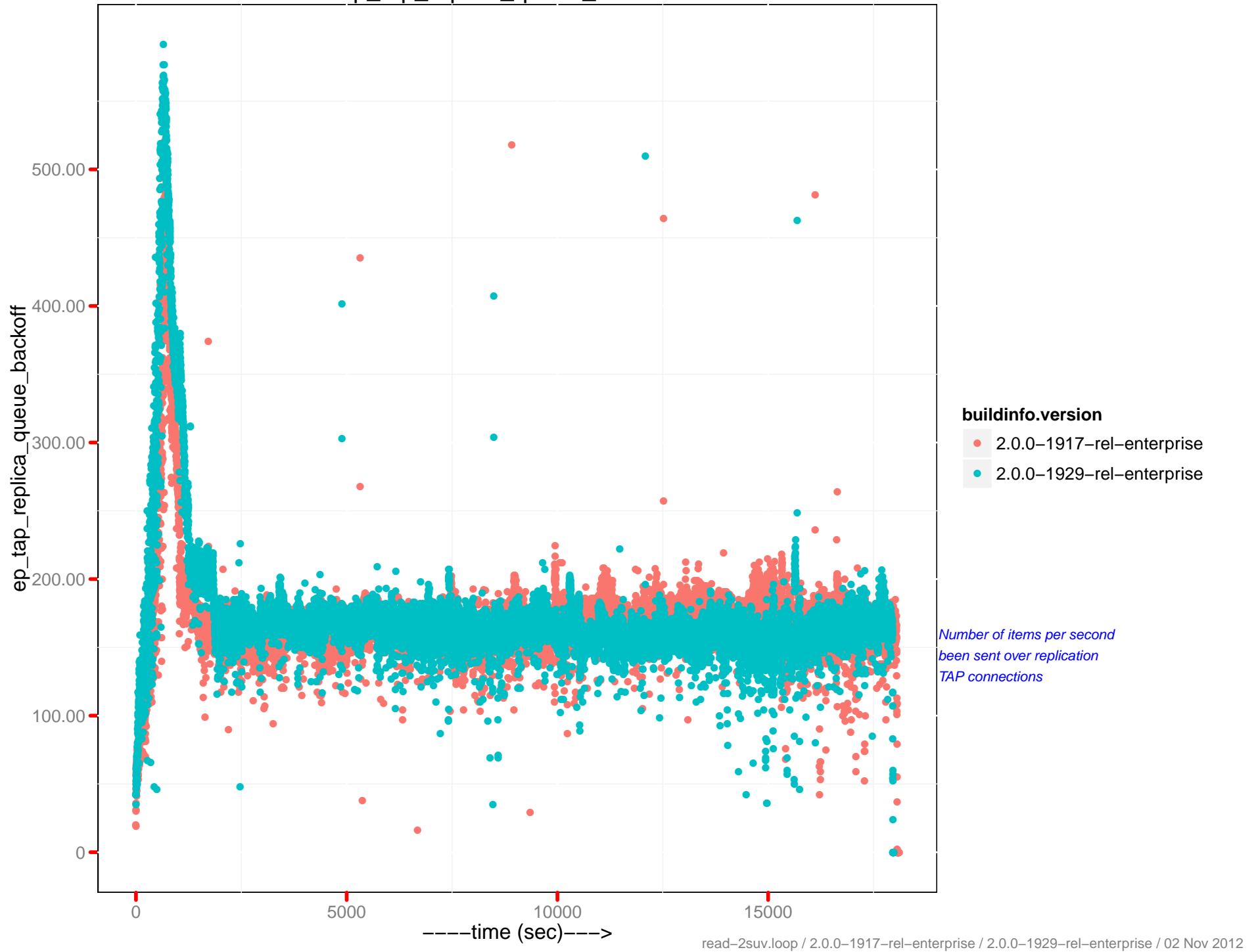
vb_active_eject/sec



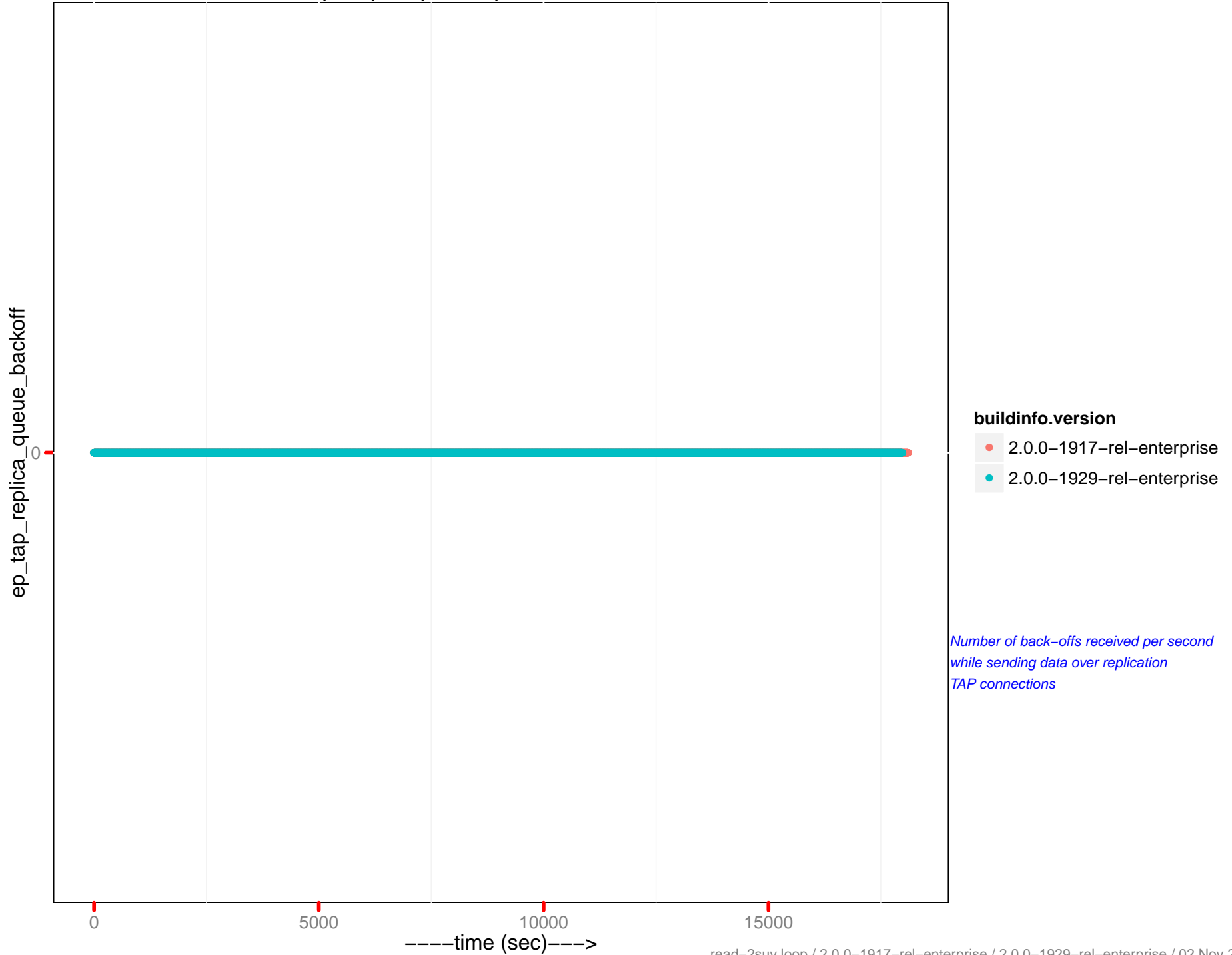
vb_replica_eject/sec



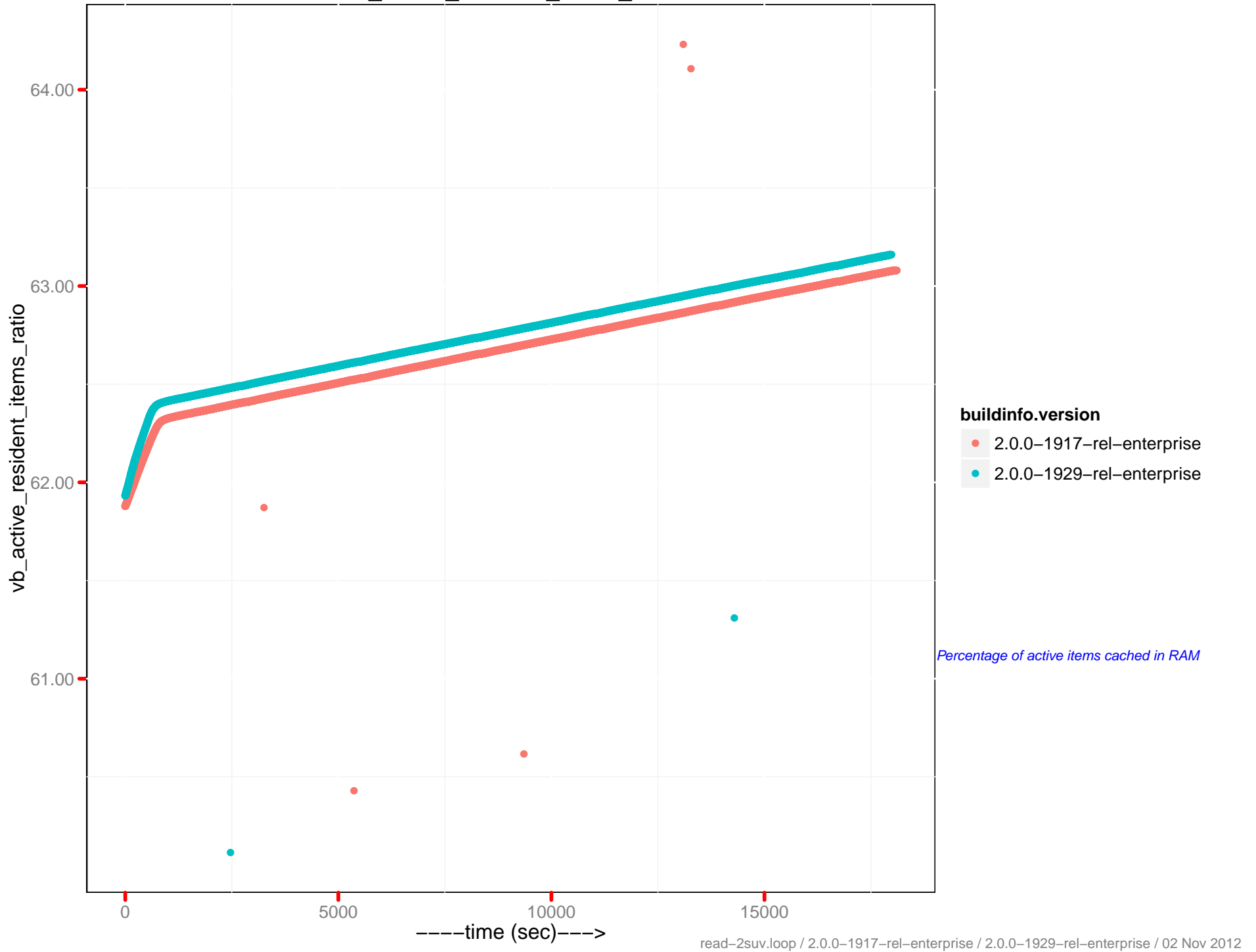
ep_tap_replica_queue_drain/sec



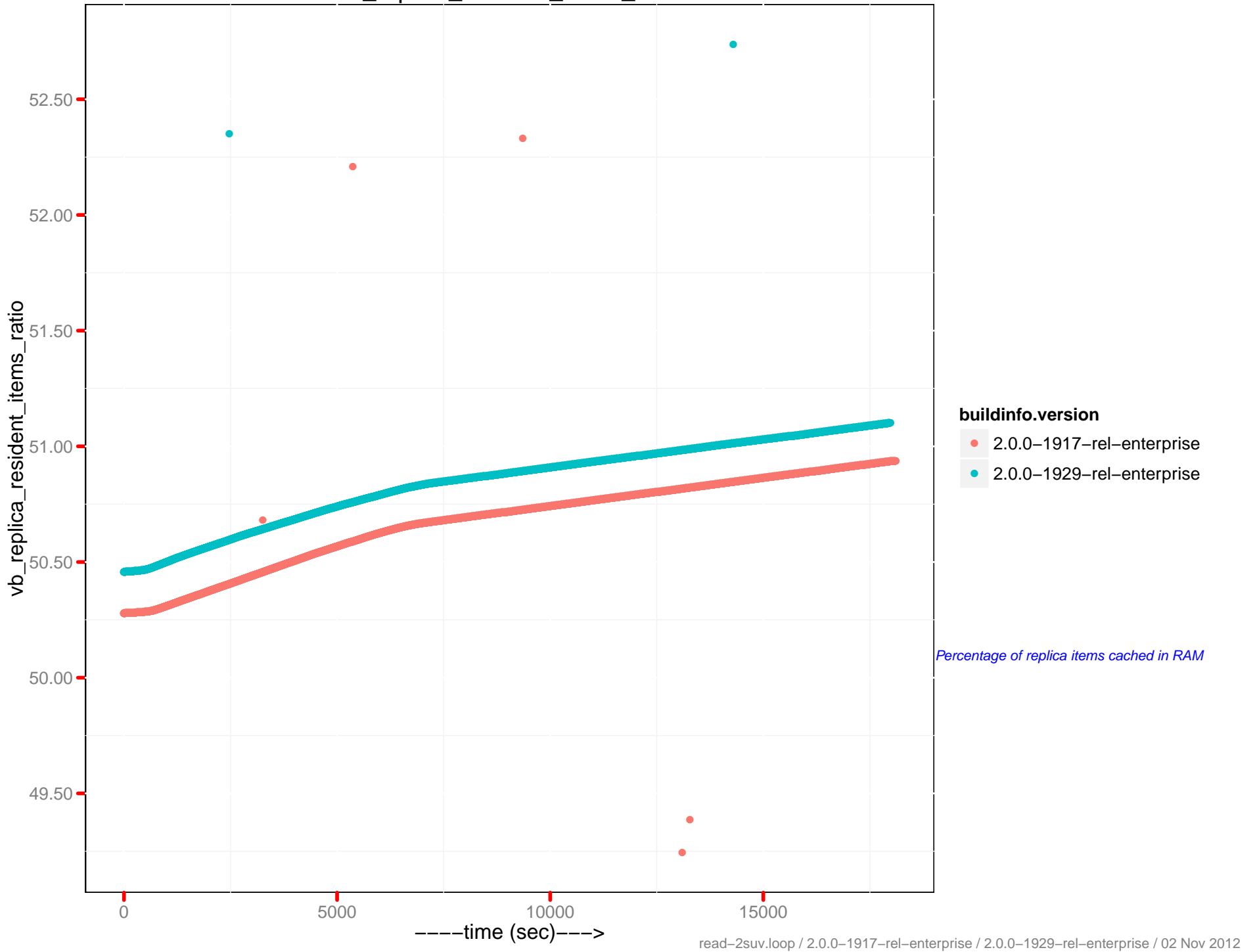
ep_tap_replica_queue_backoff/sec



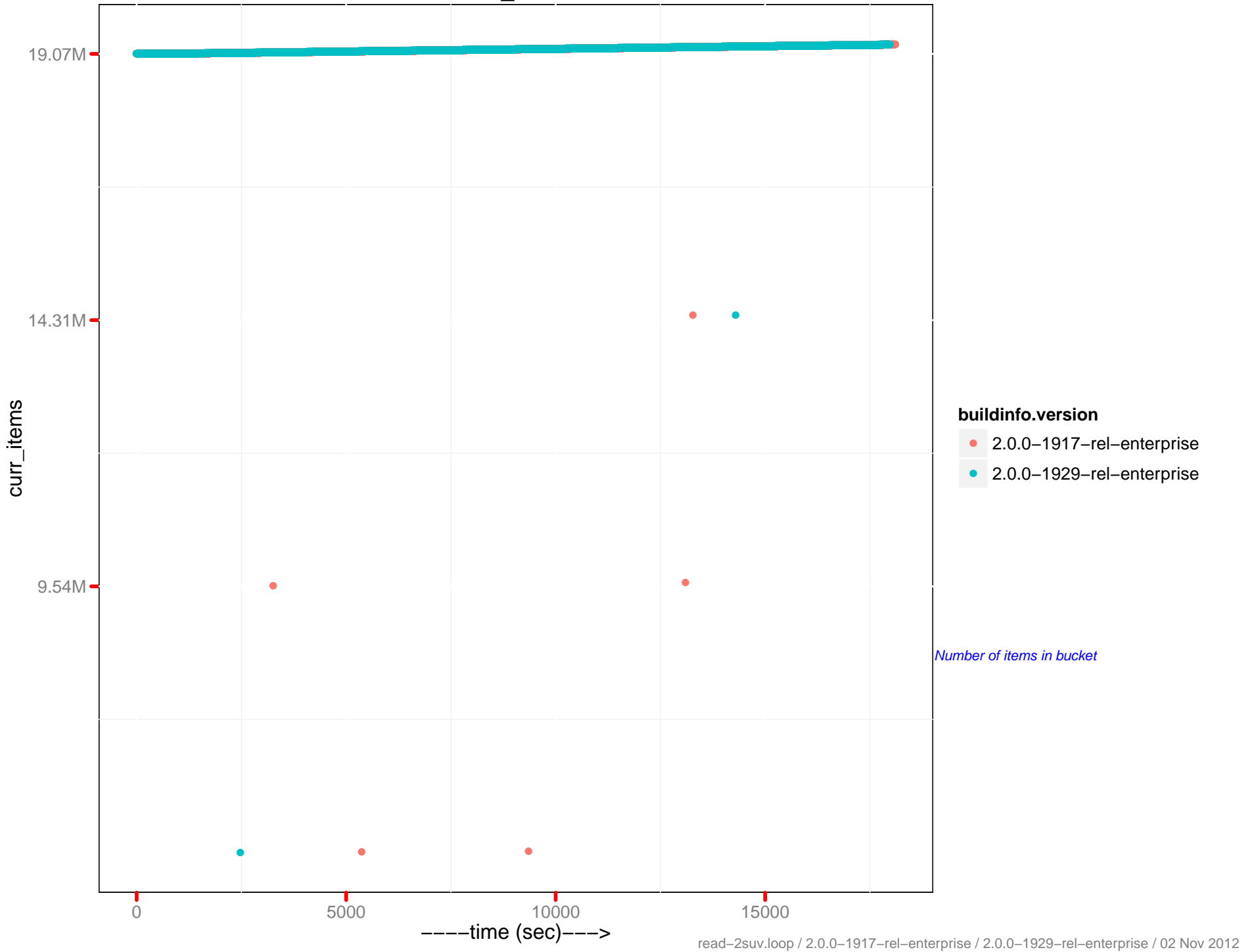
vb_active_resident_items_ratio



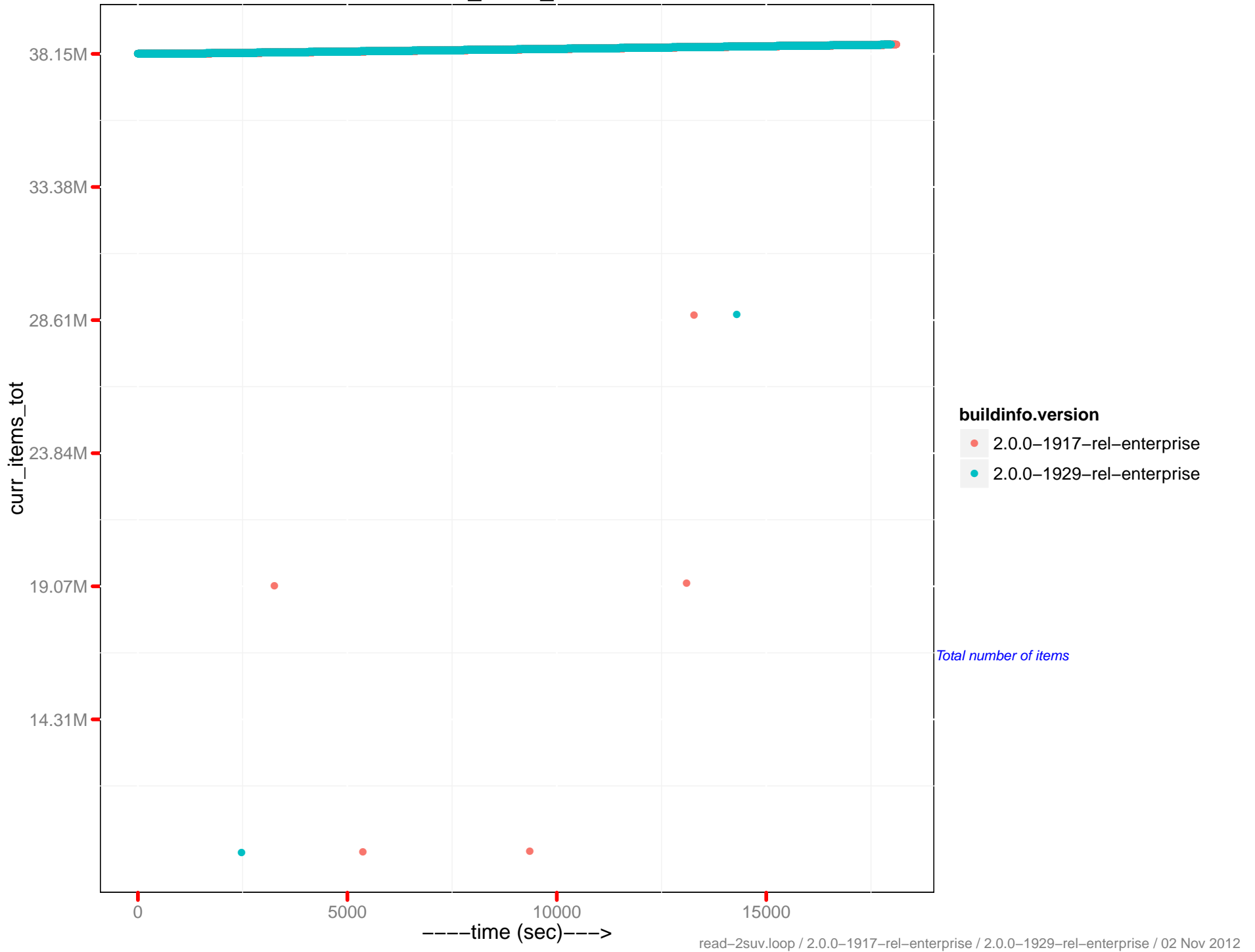
vb_replica_resident_items_ratio



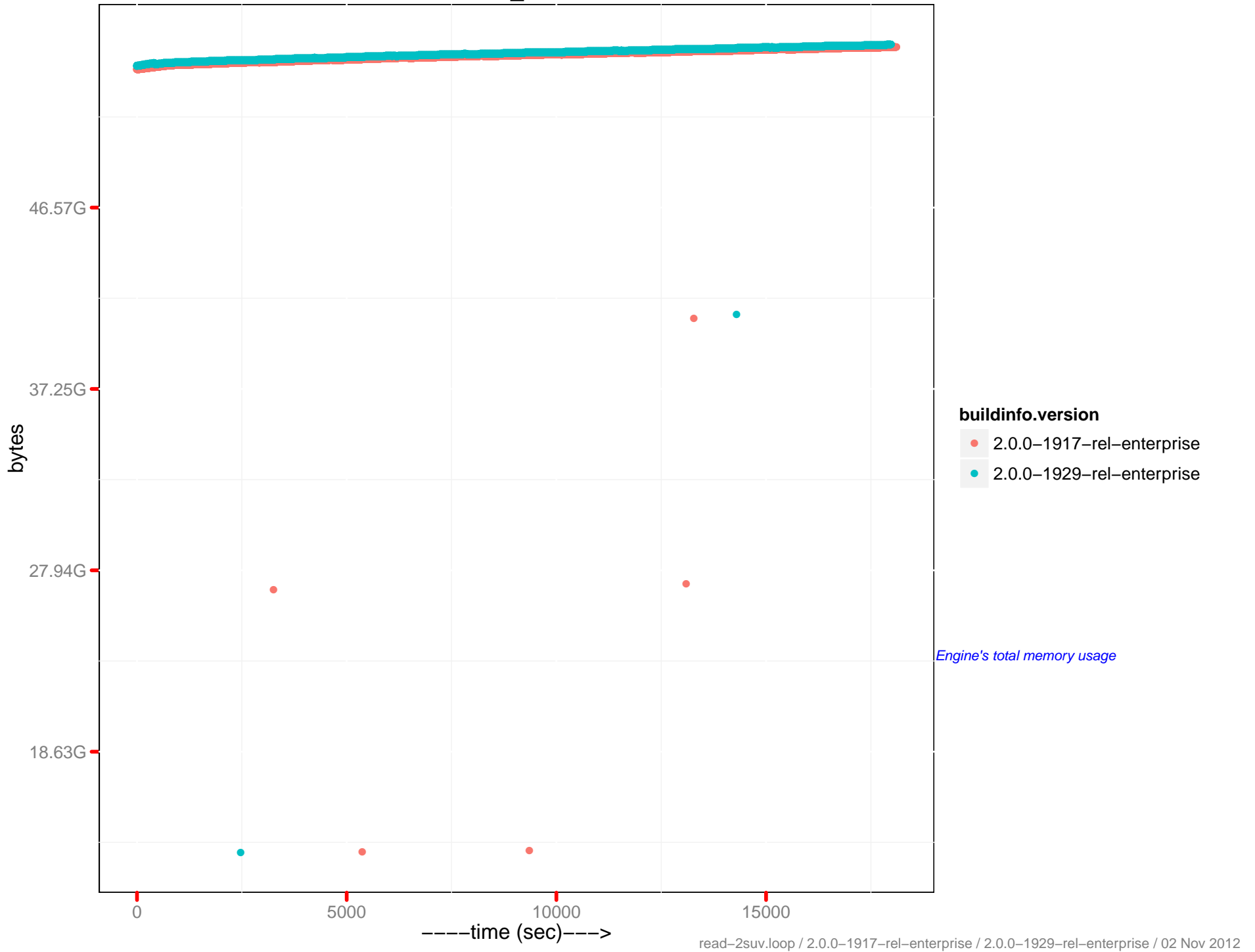
curr_items



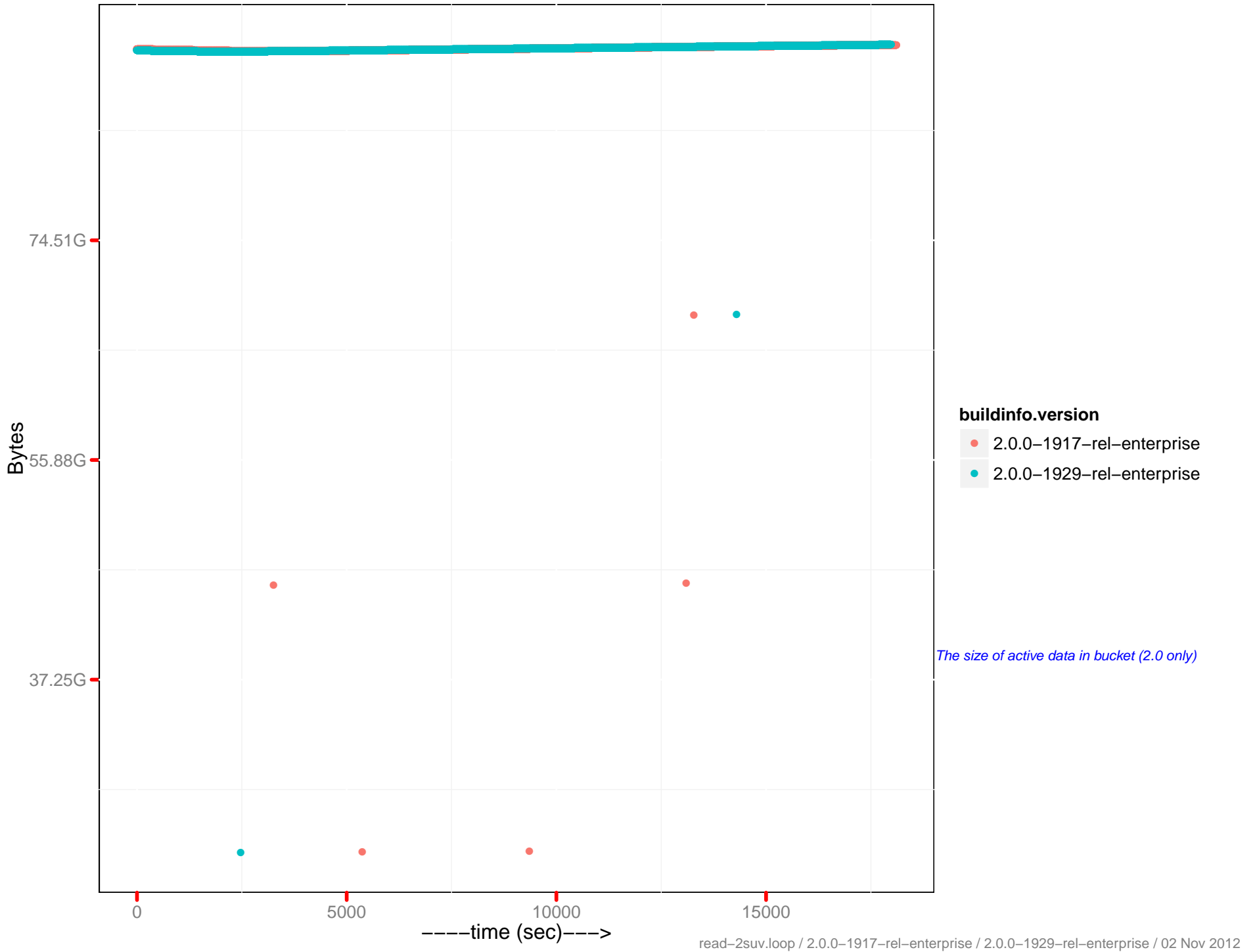
cur_items_total



mem_used



Docs data size

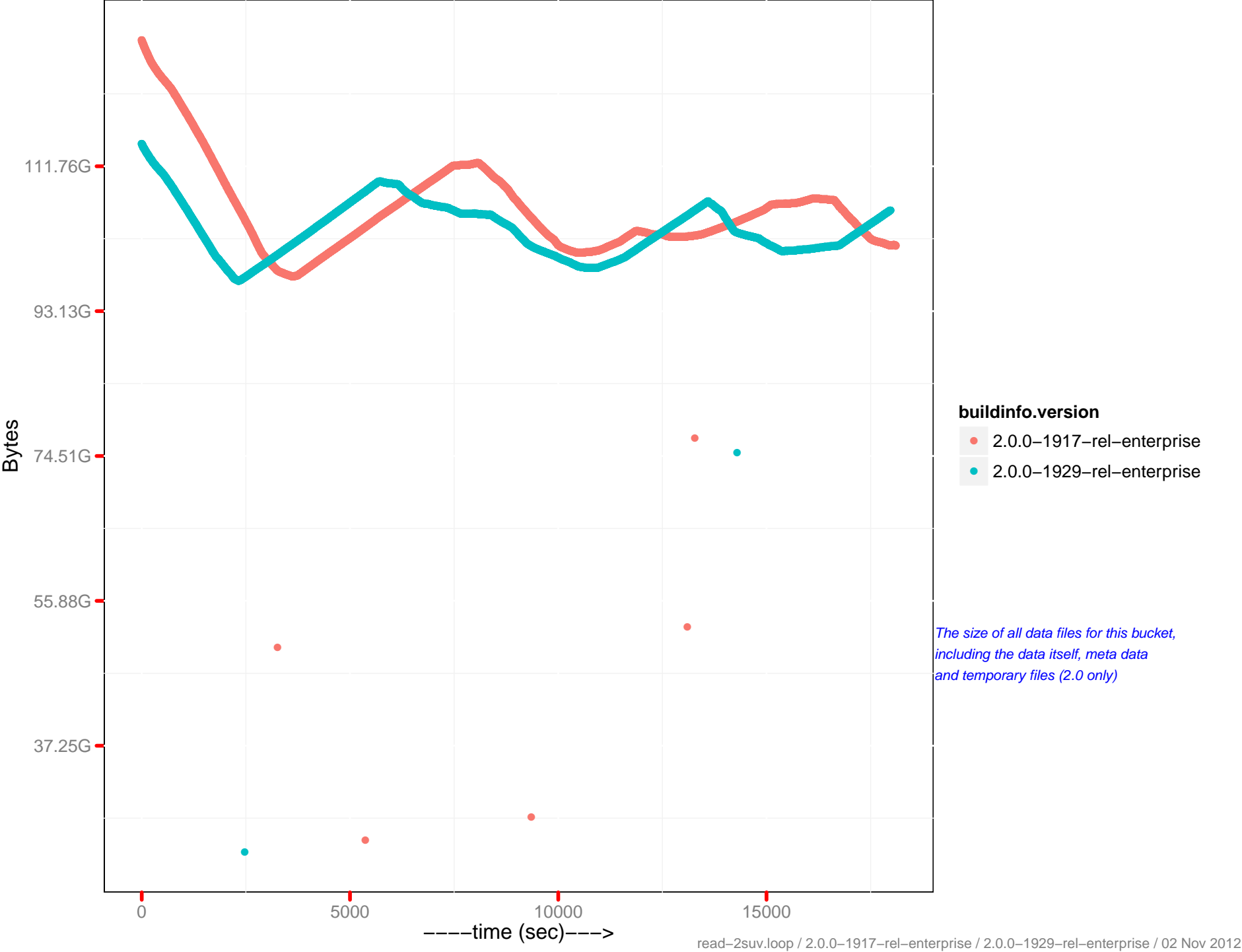


buildinfo.version

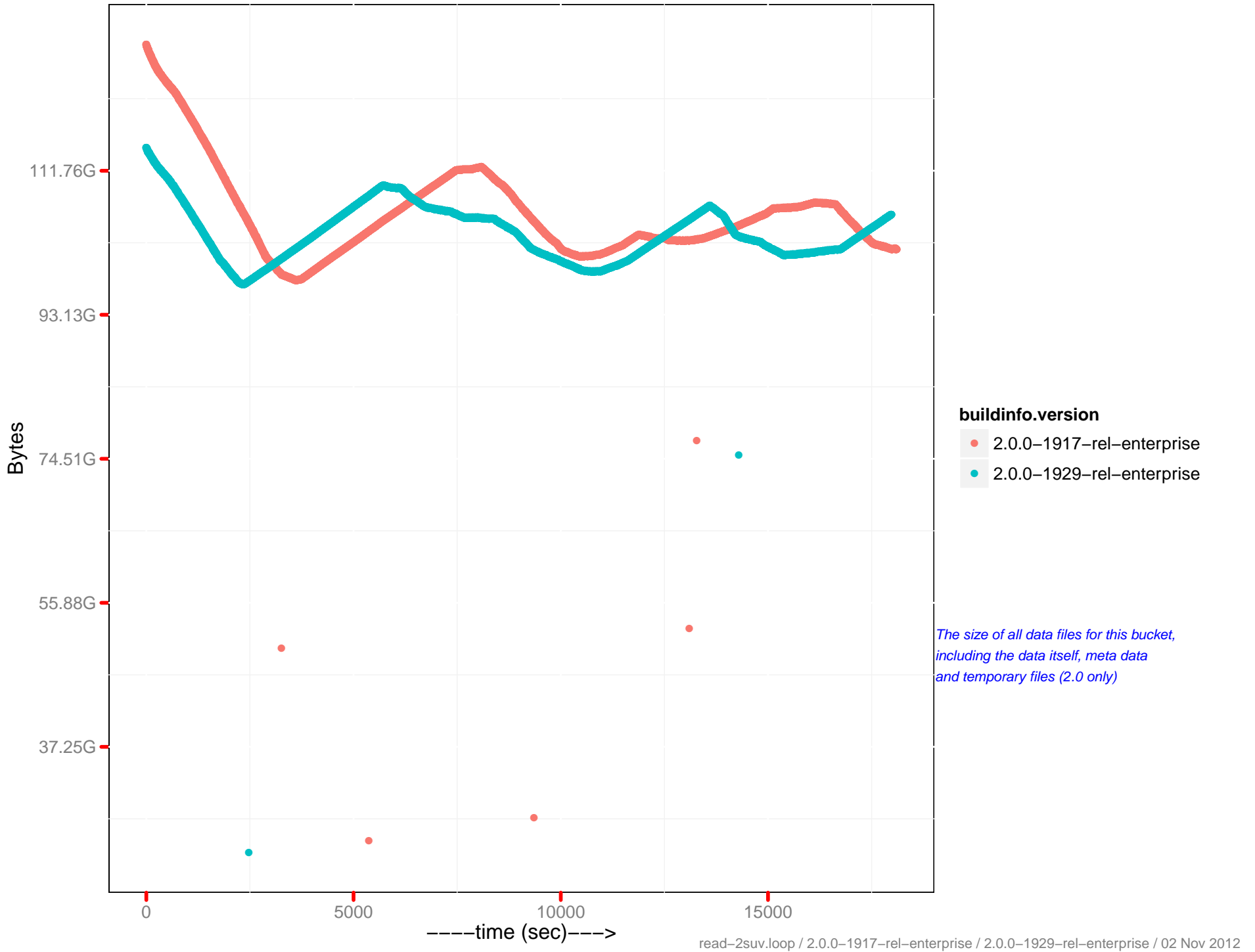
- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

The size of active data in bucket (2.0 only)

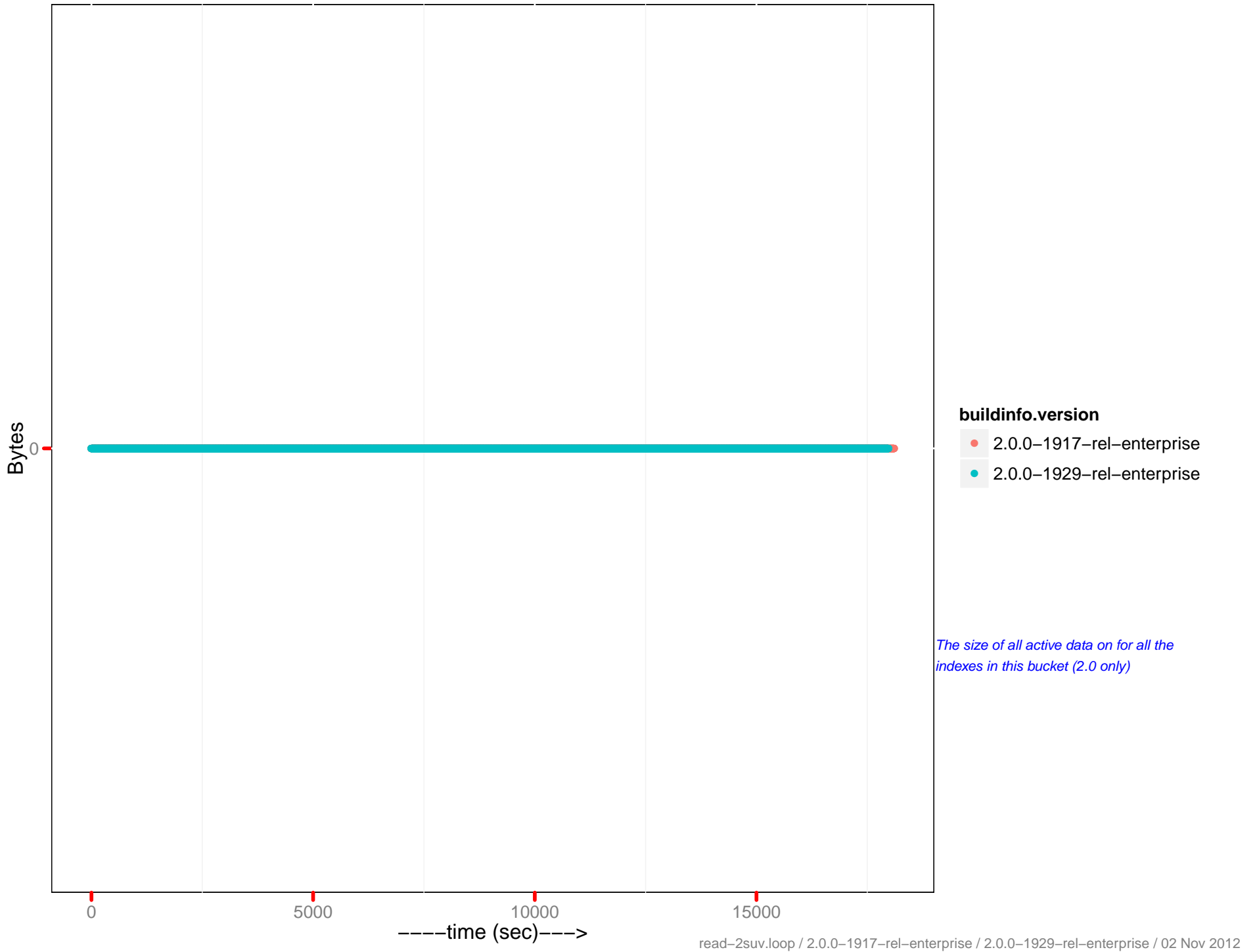
Docs disk size



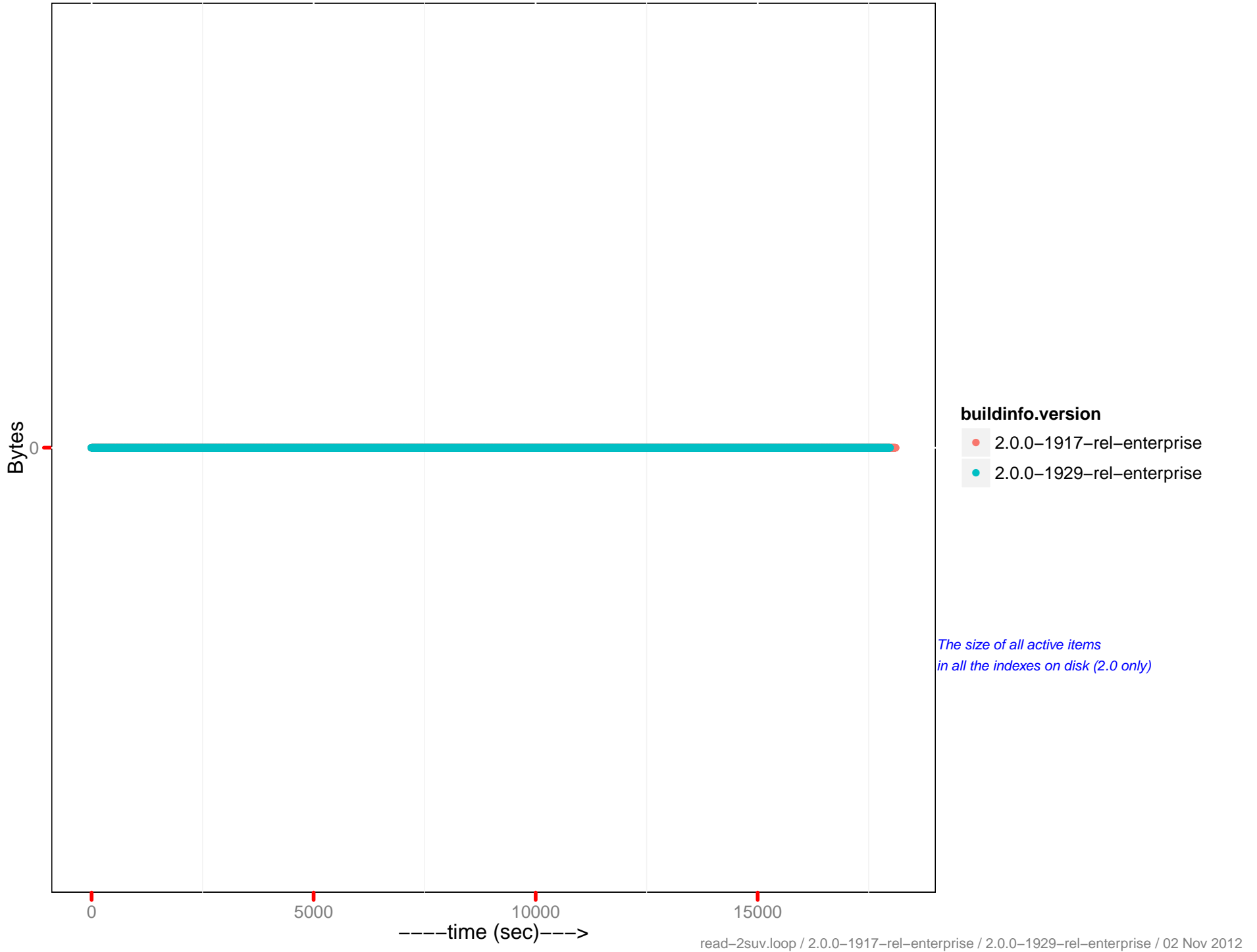
Docs actual disk size



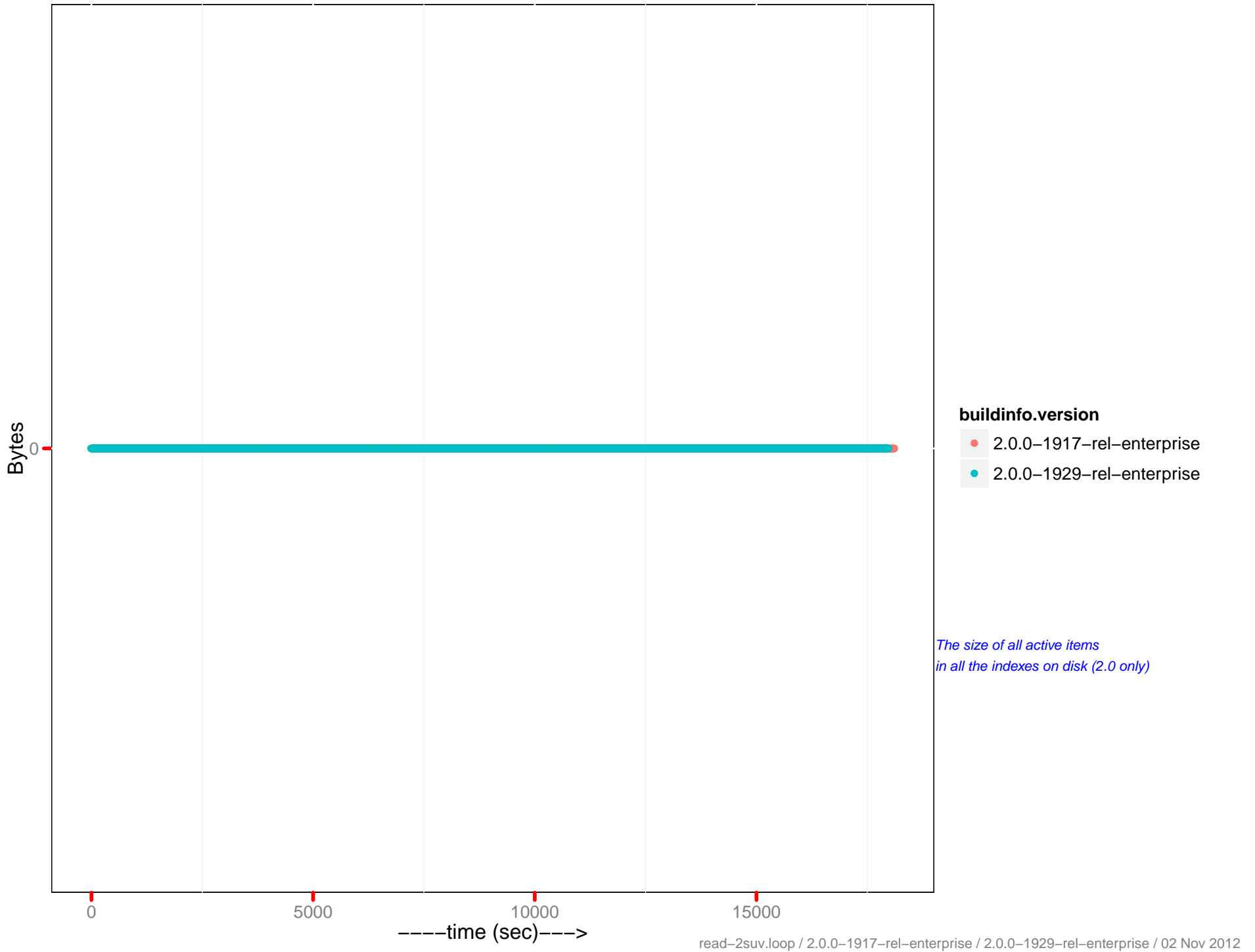
Views data size



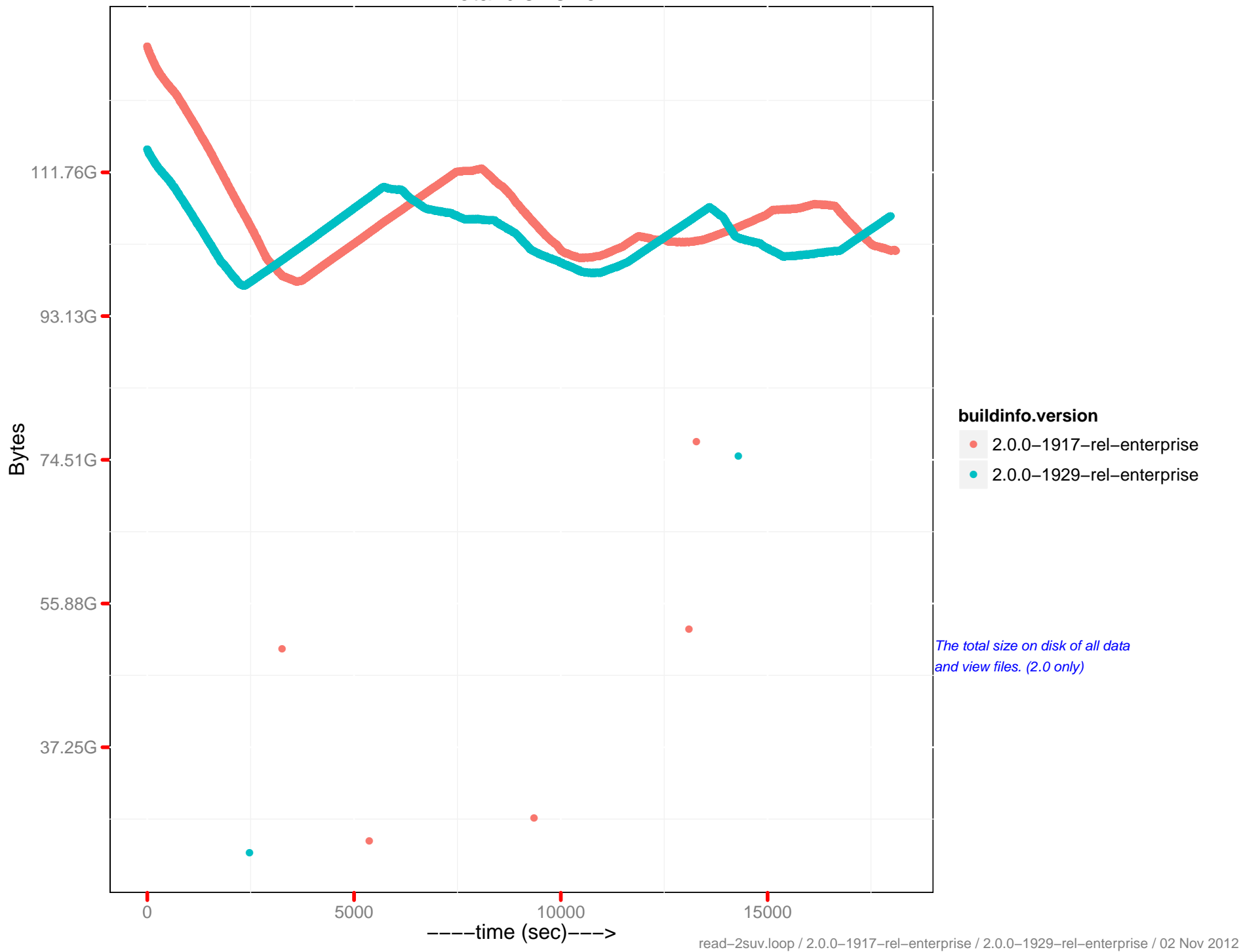
Views disk size



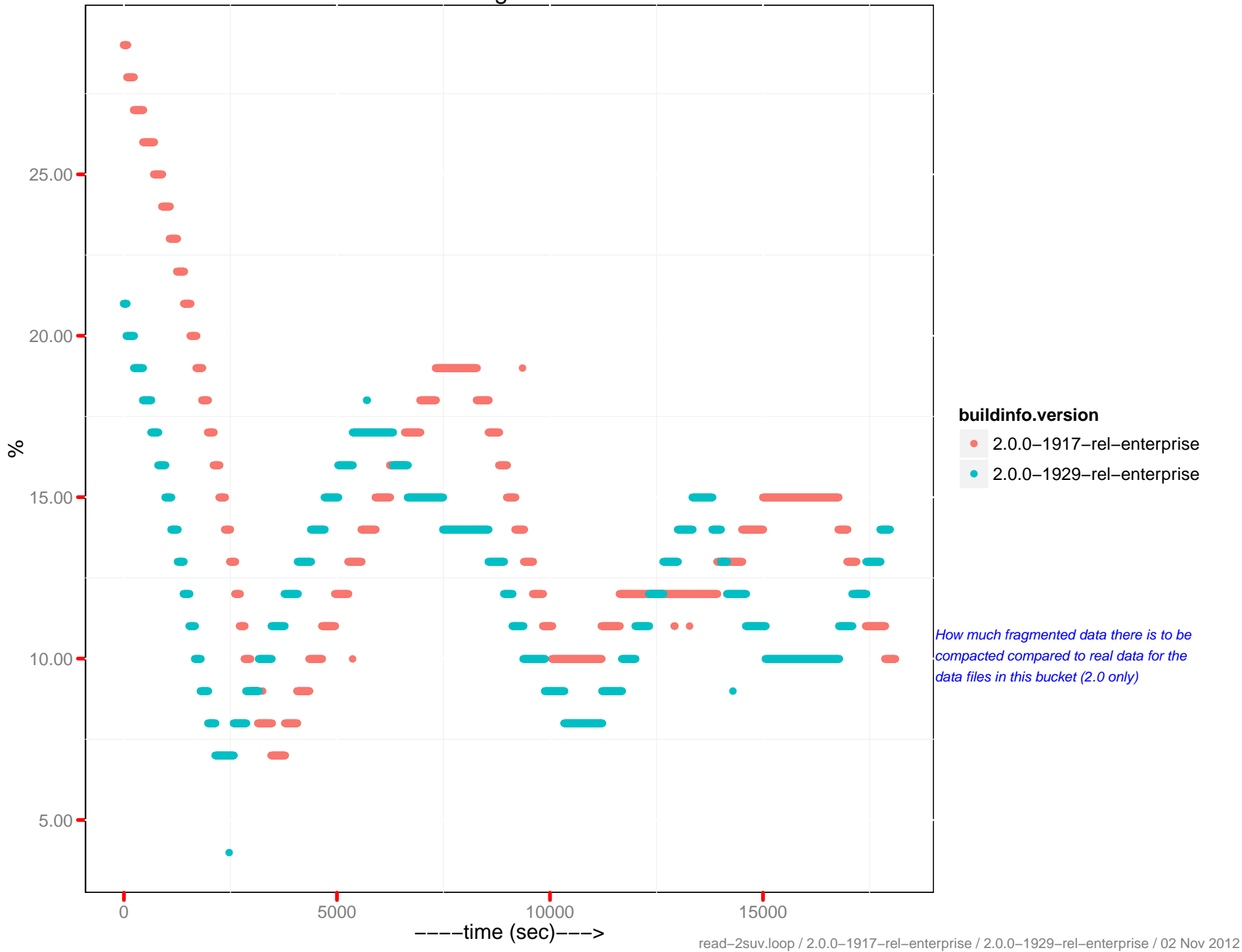
Views actual disk size



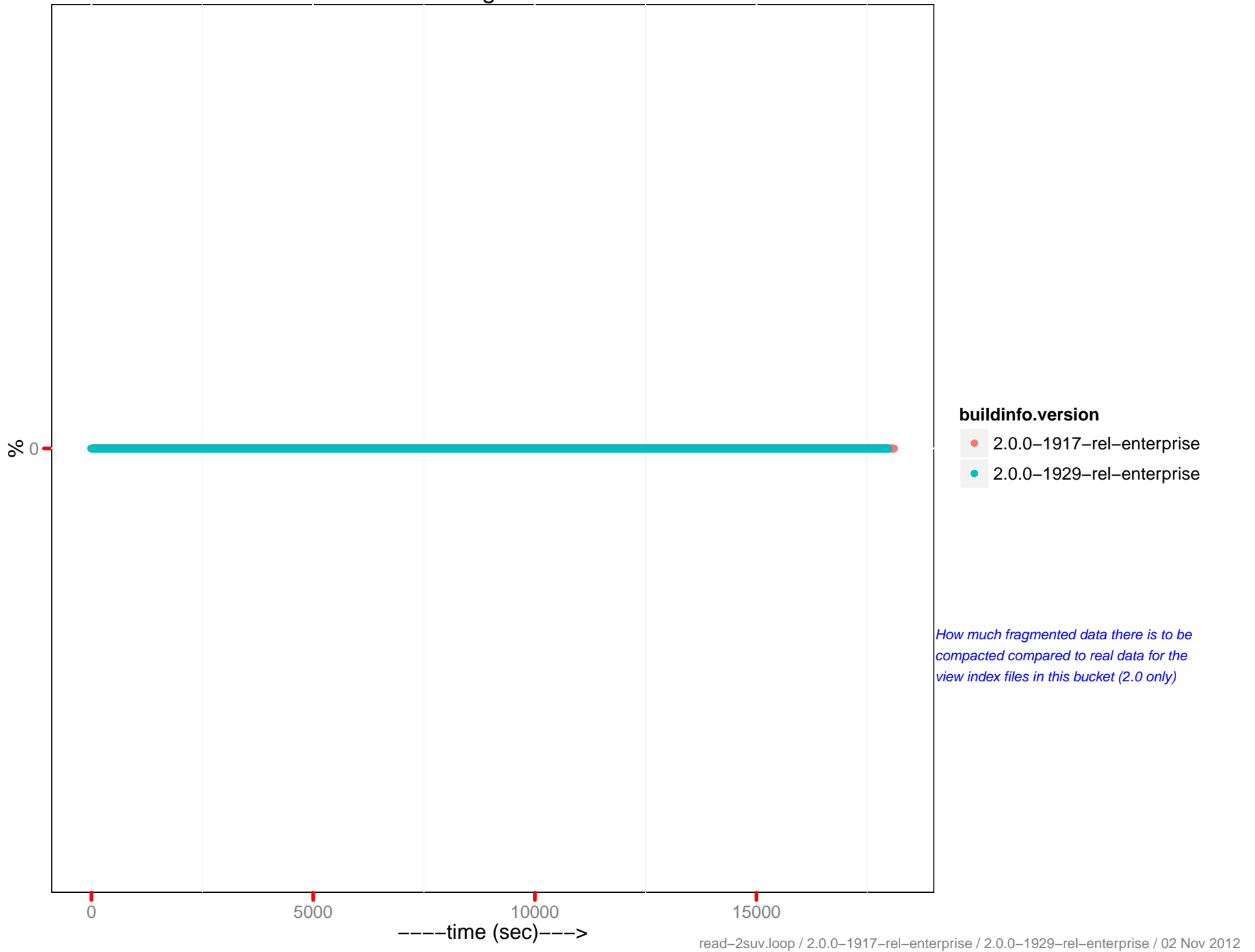
Total disk size



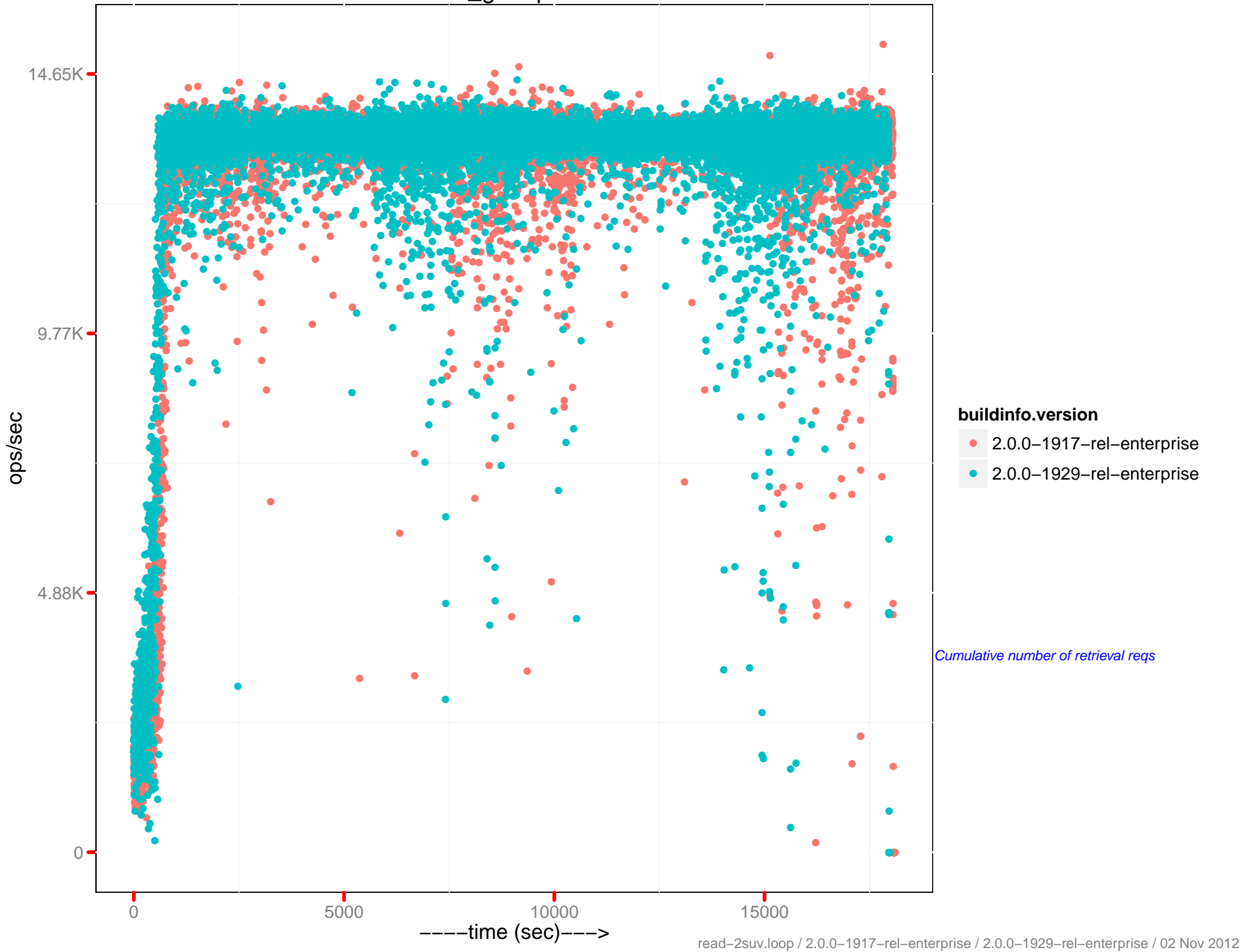
Docs fragmentation



Views fragmentation



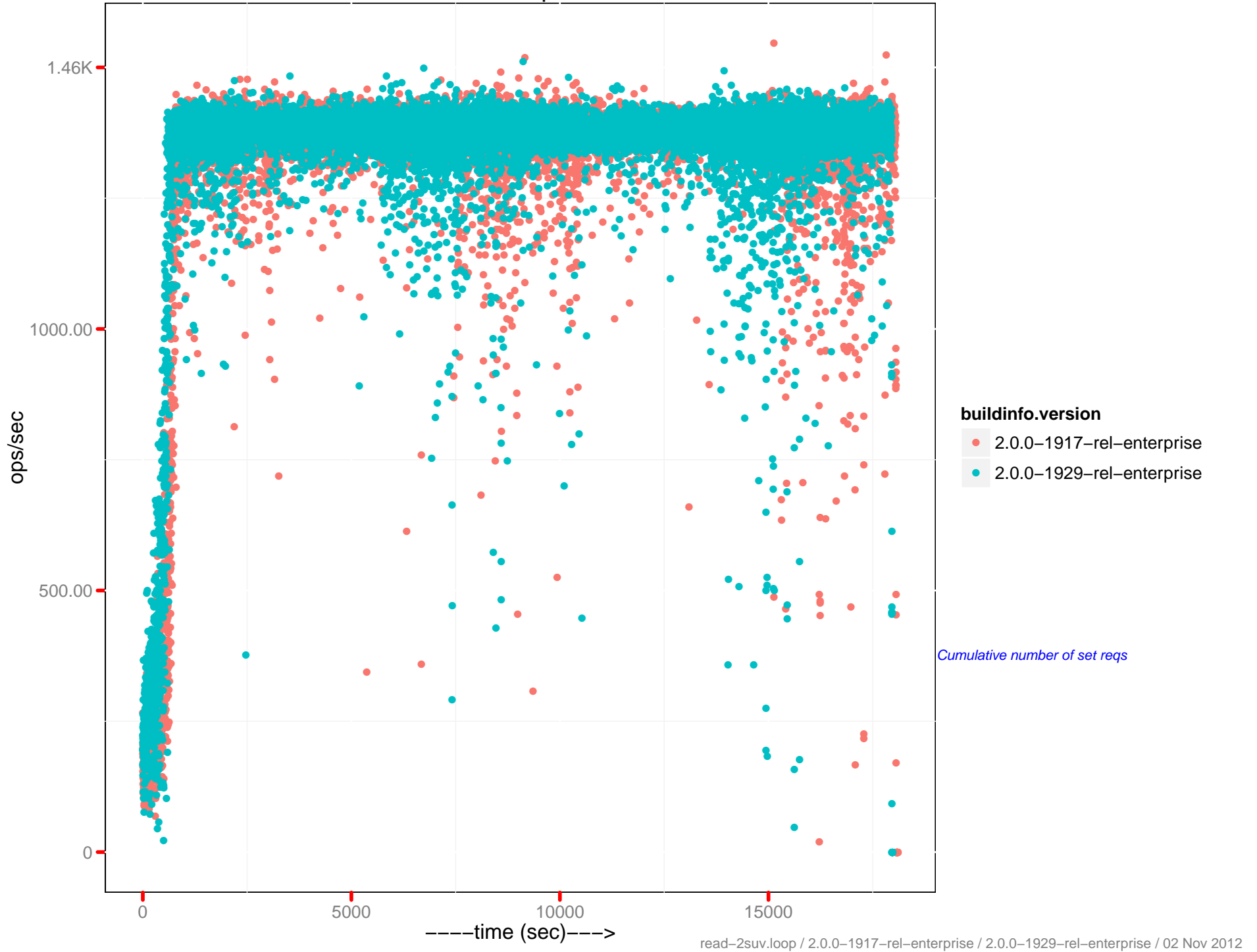
cmd_get ops/sec



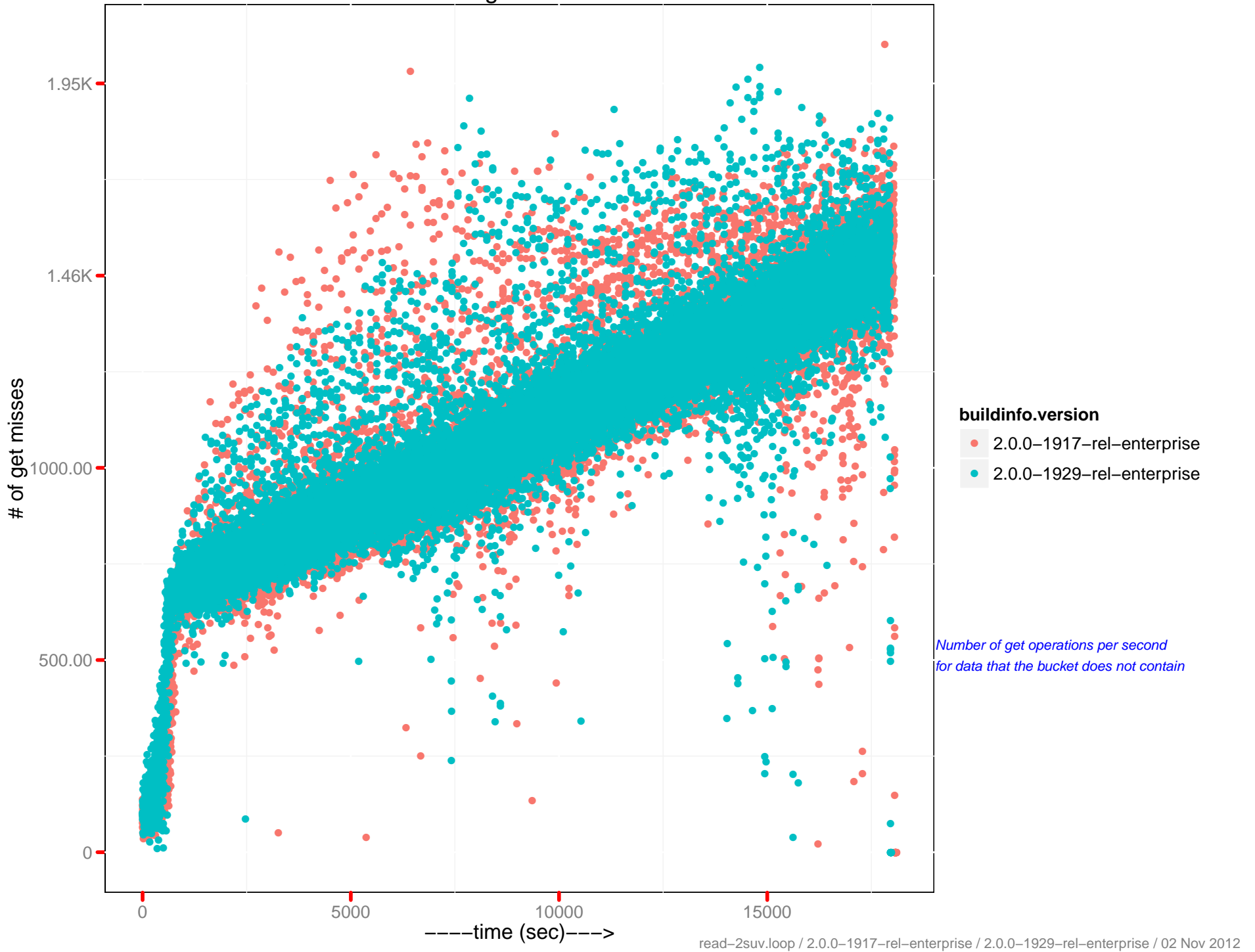
- buildinfo.version**
- 2.0.0-1917-rel-enterprise
 - 2.0.0-1929-rel-enterprise

Cumulative number of retrieval reqs

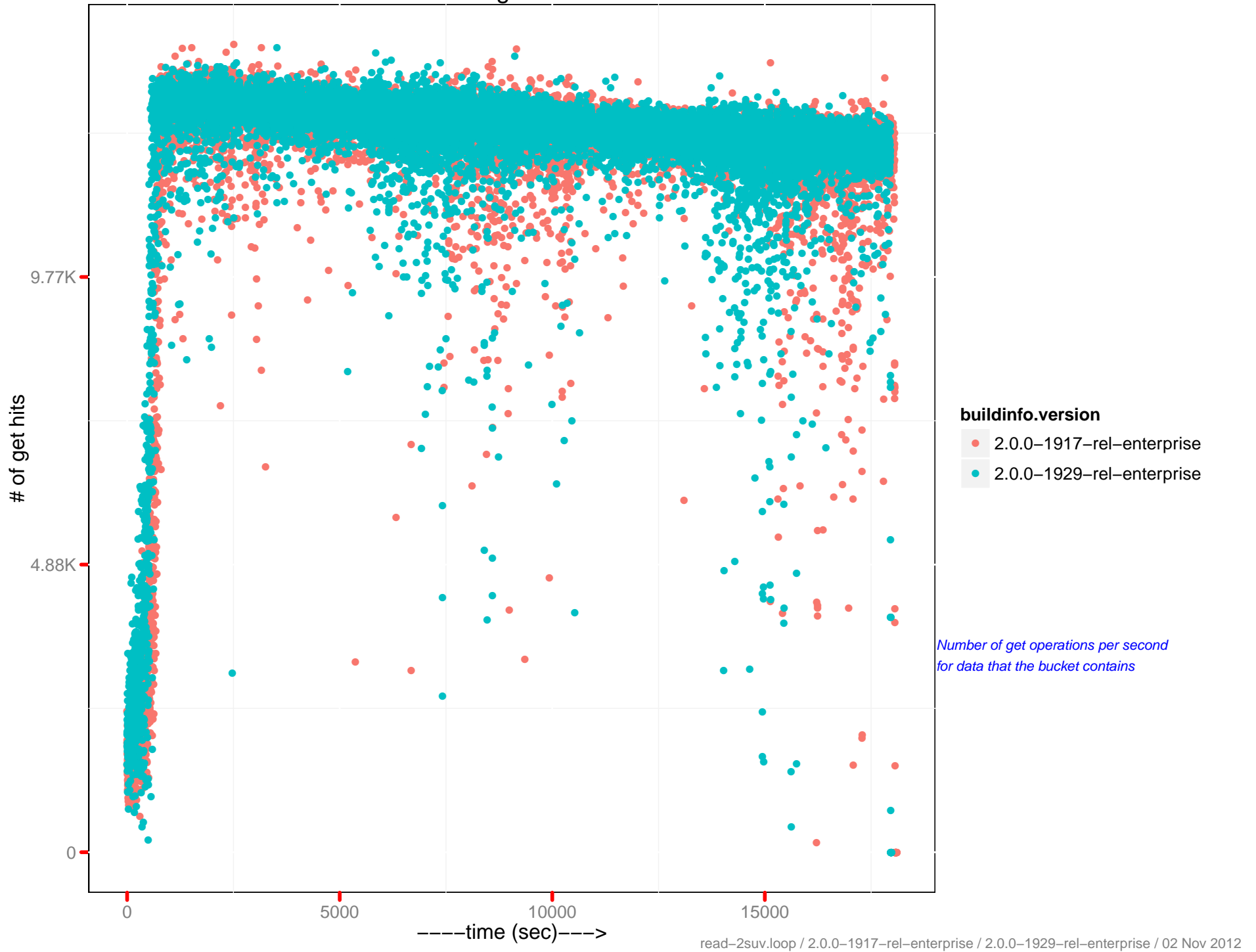
cmd_set ops/sec



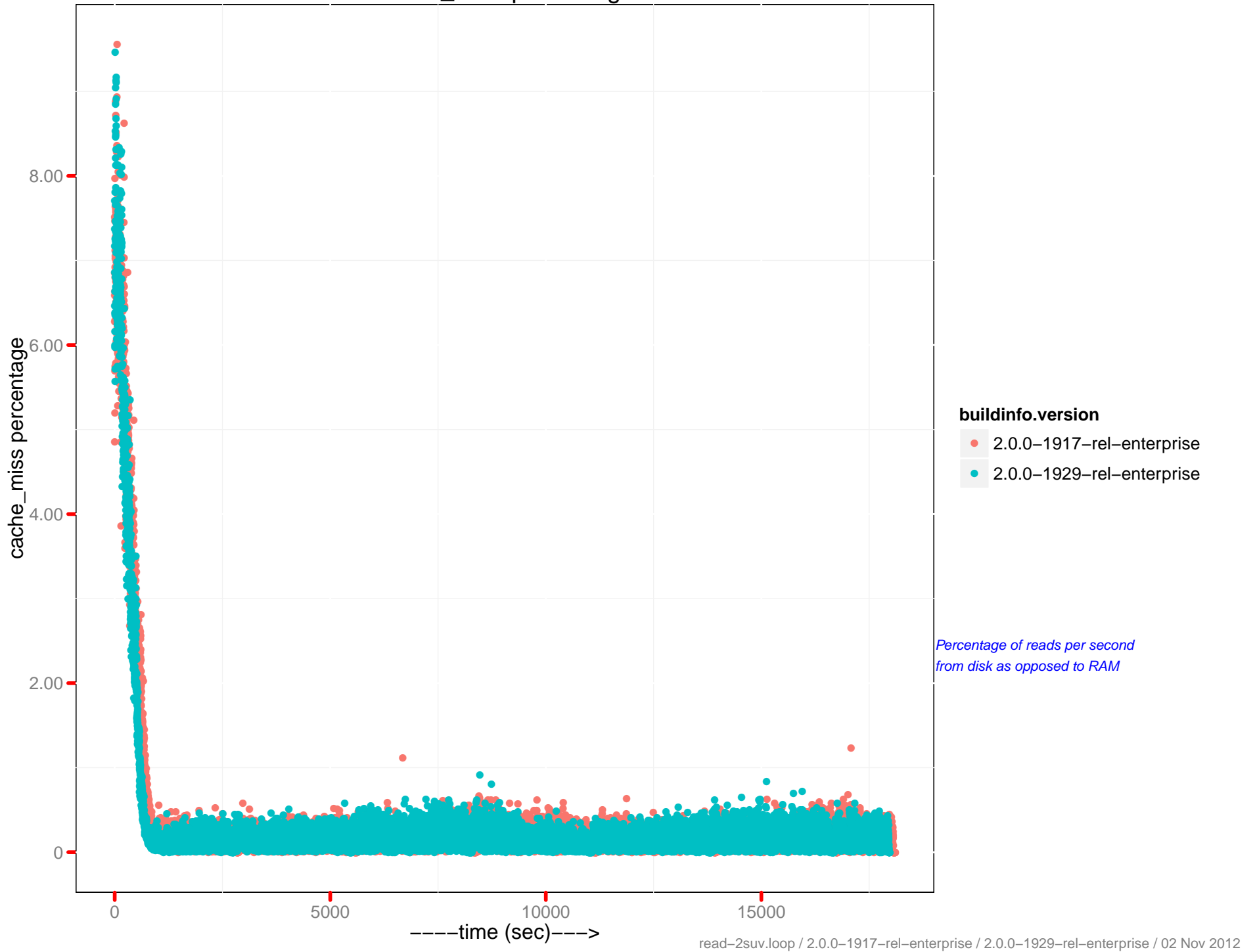
of get misses



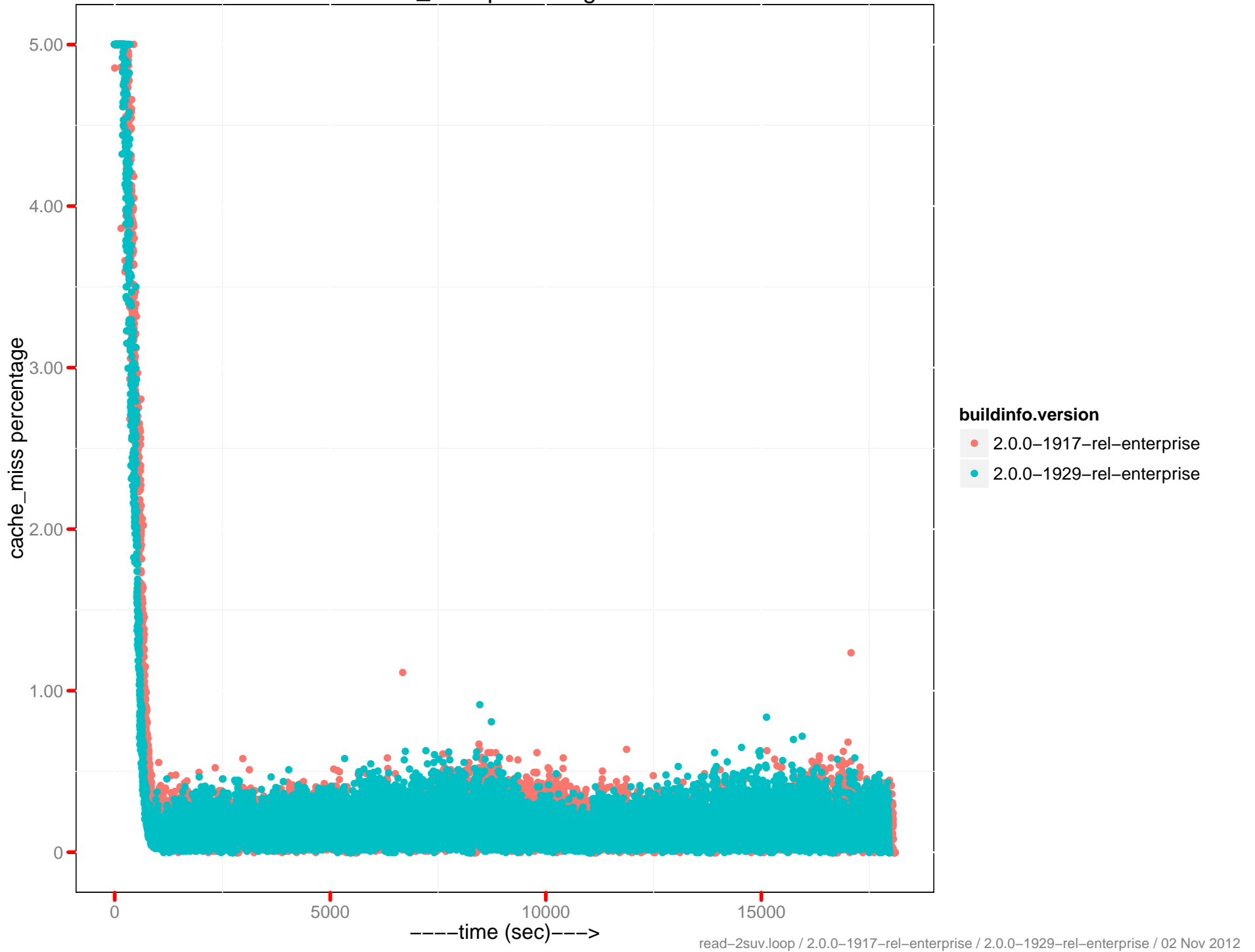
of get hits



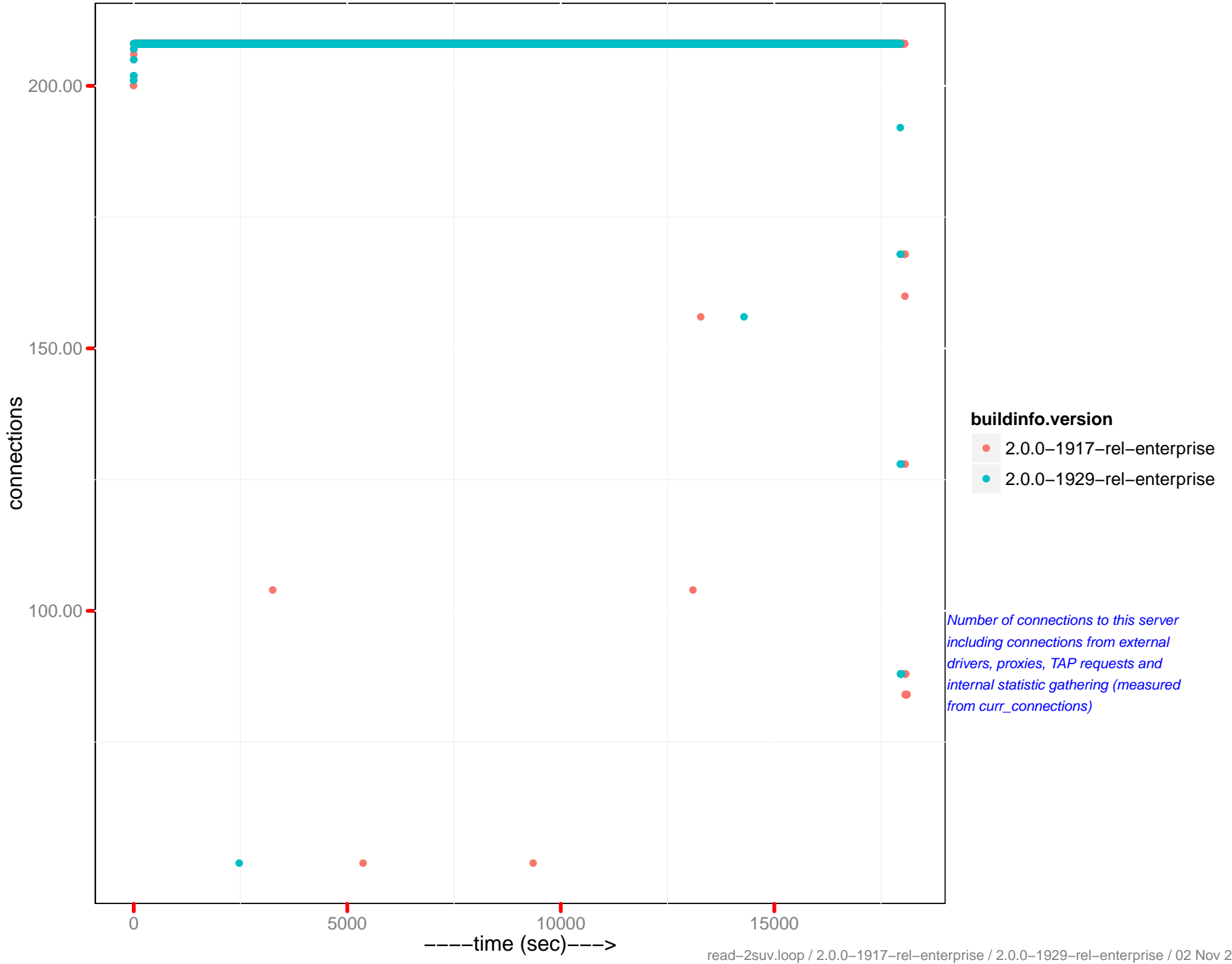
cache_miss percentage



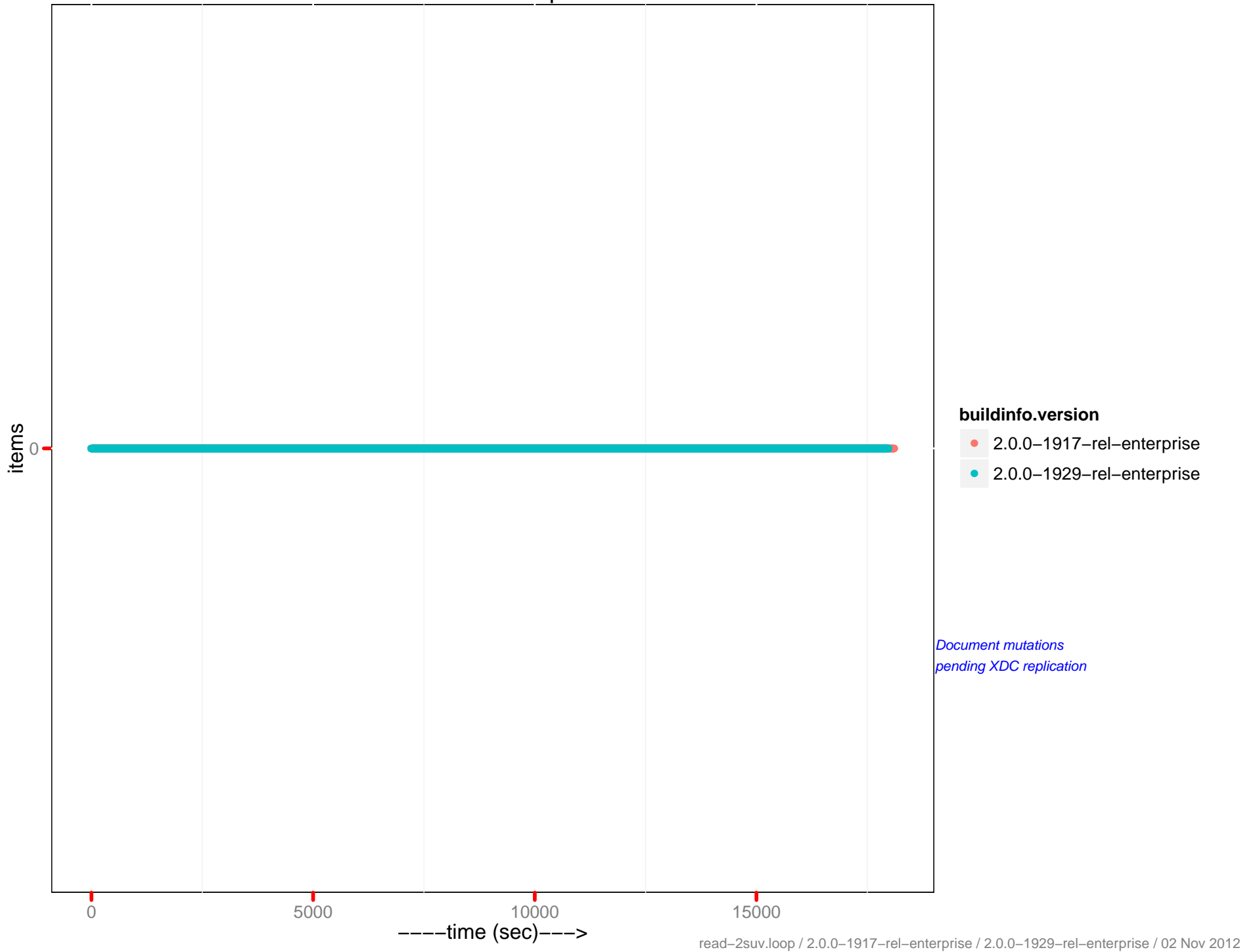
cache_miss percentage 0-5



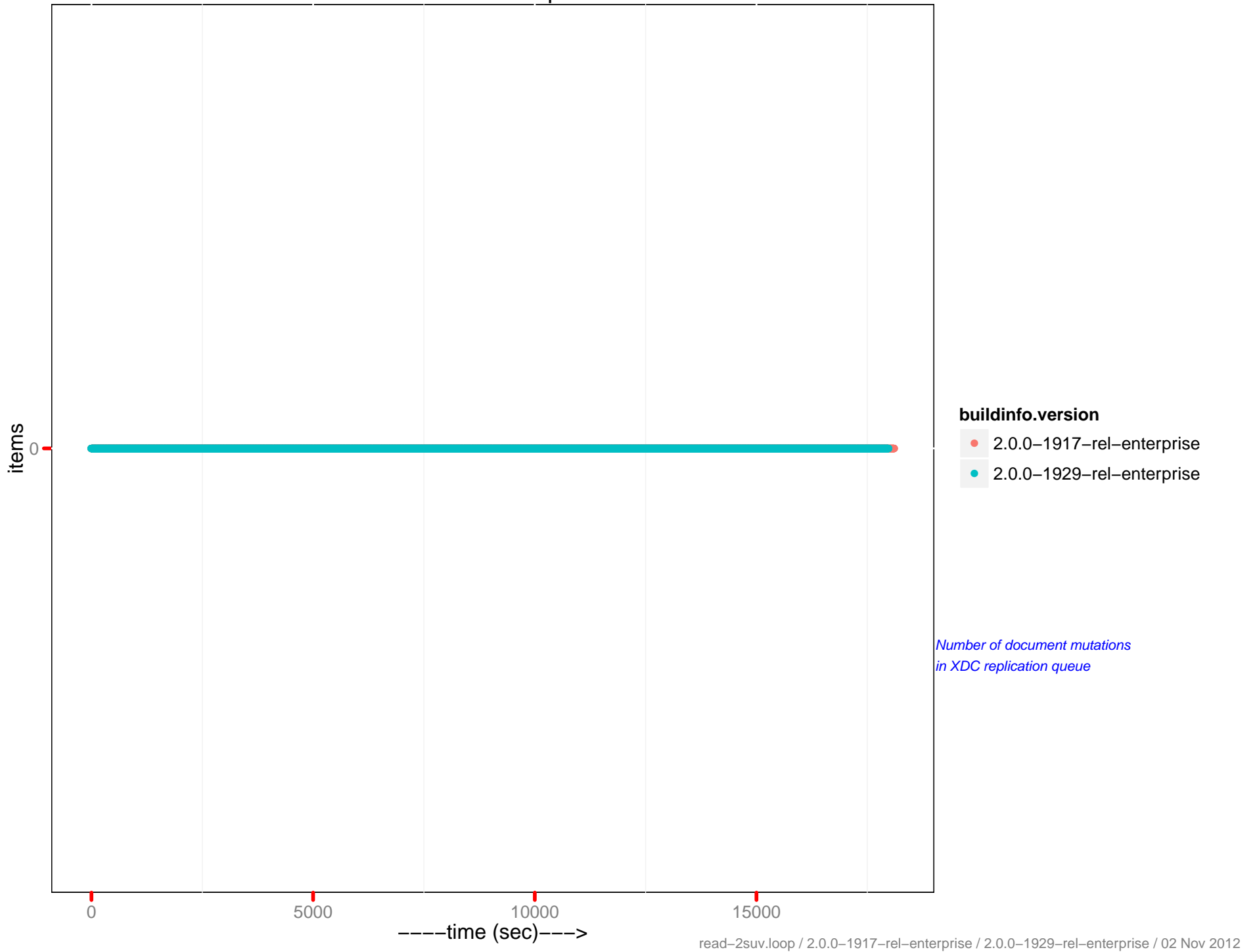
Number of connections



XDCR docs to replicate



XDCR docs in queue

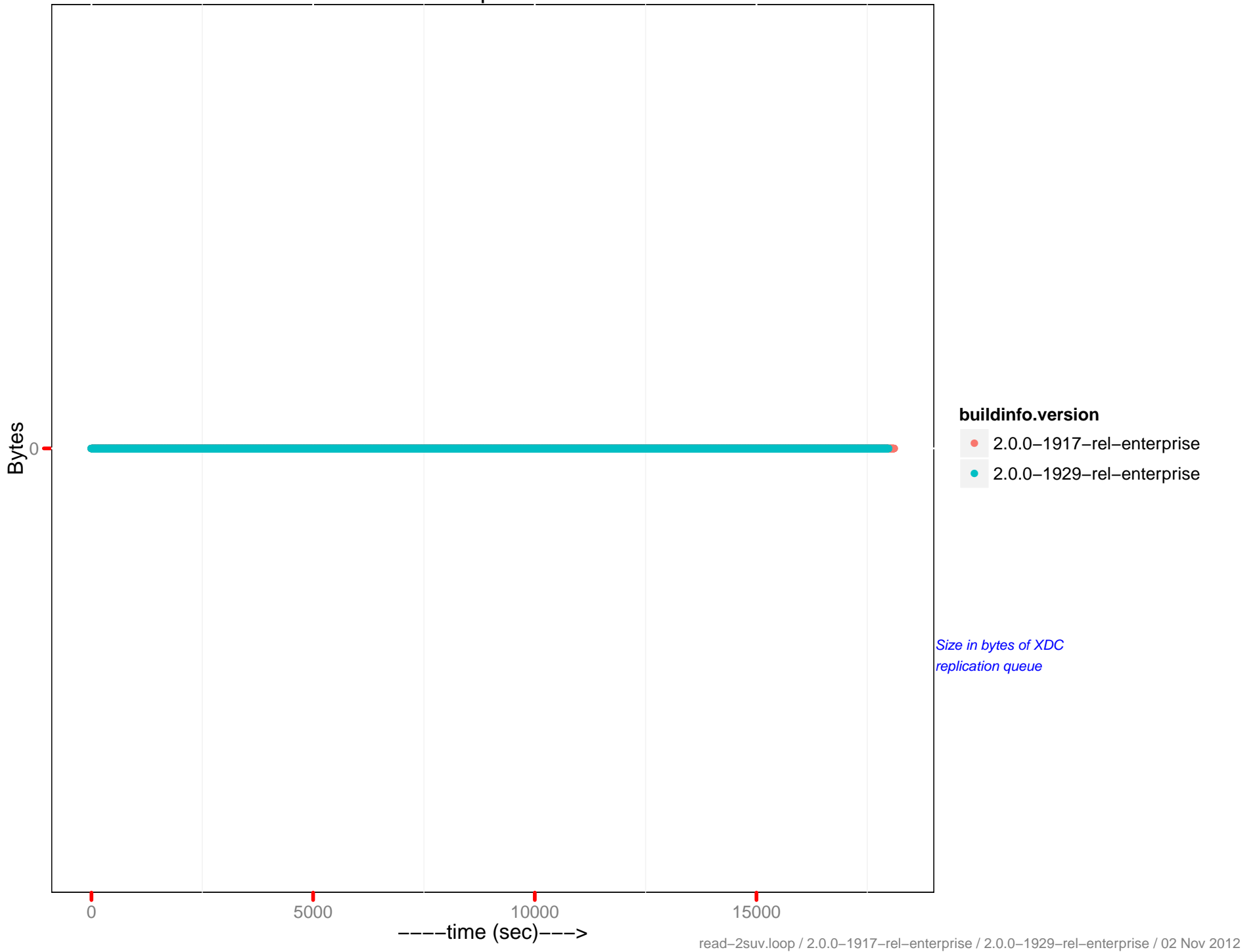


buildinfo.version

- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

Number of document mutations
in XDC replication queue

XDCR queue size

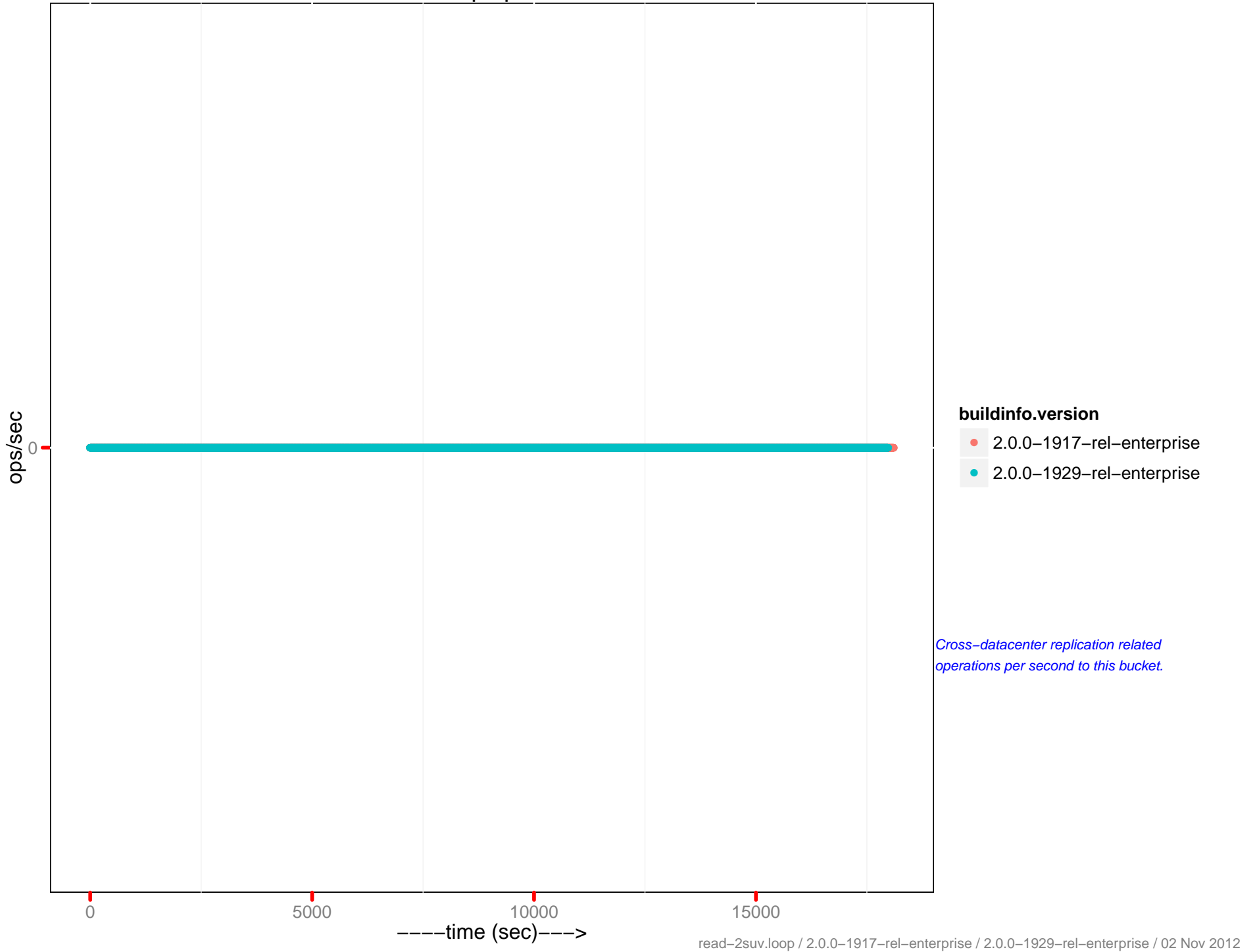


buildinfo.version

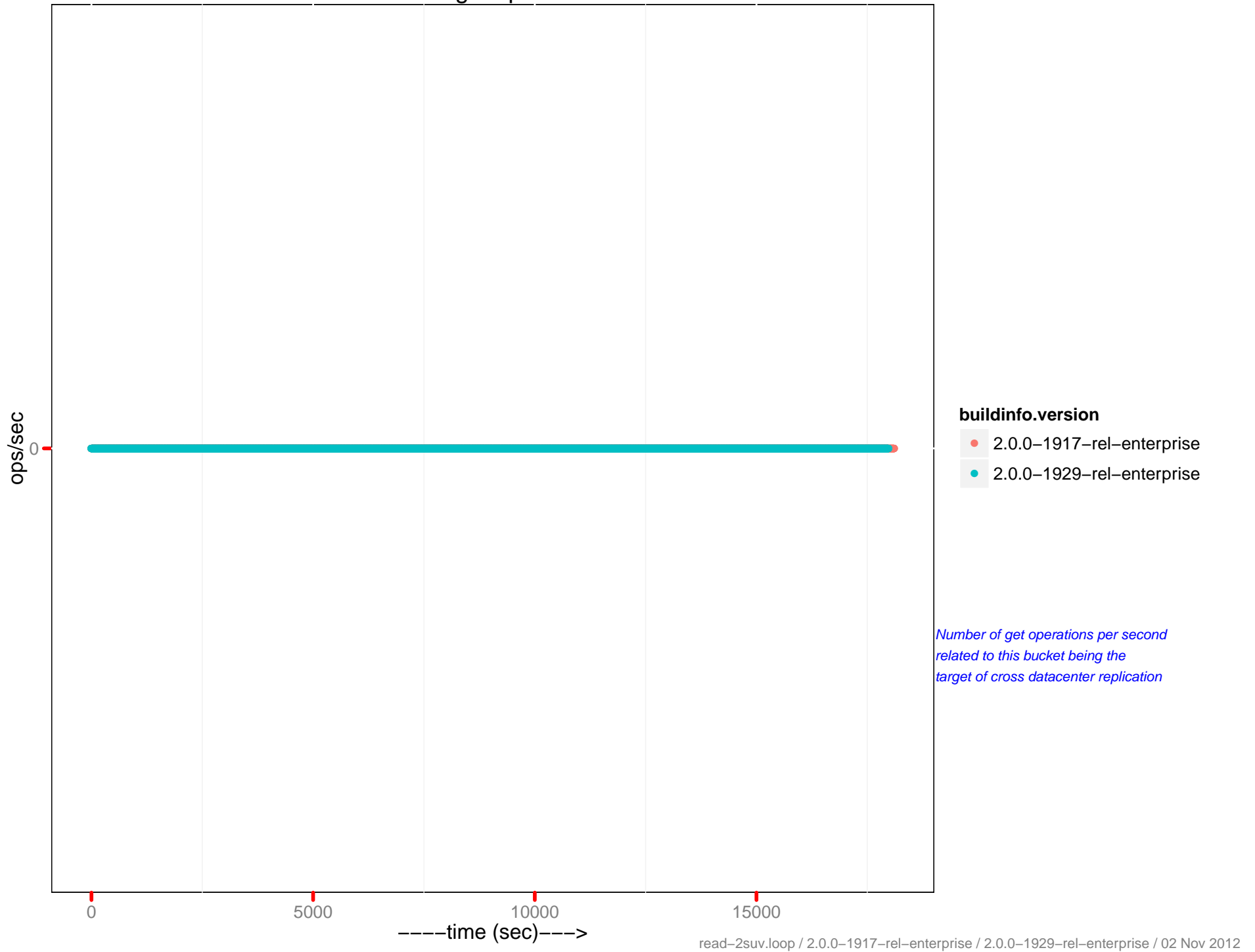
- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

Size in bytes of XDC replication queue

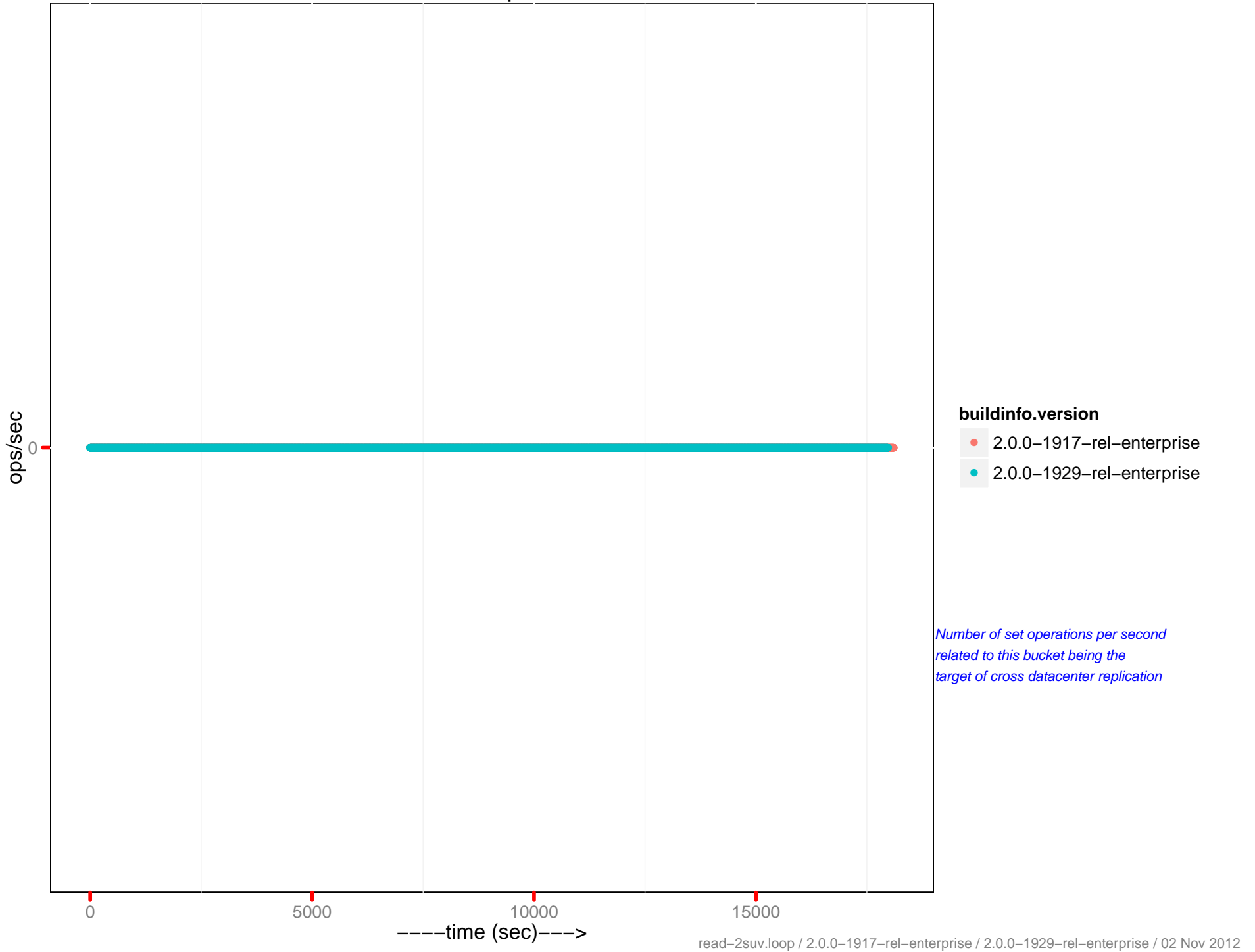
XDC ops per sec



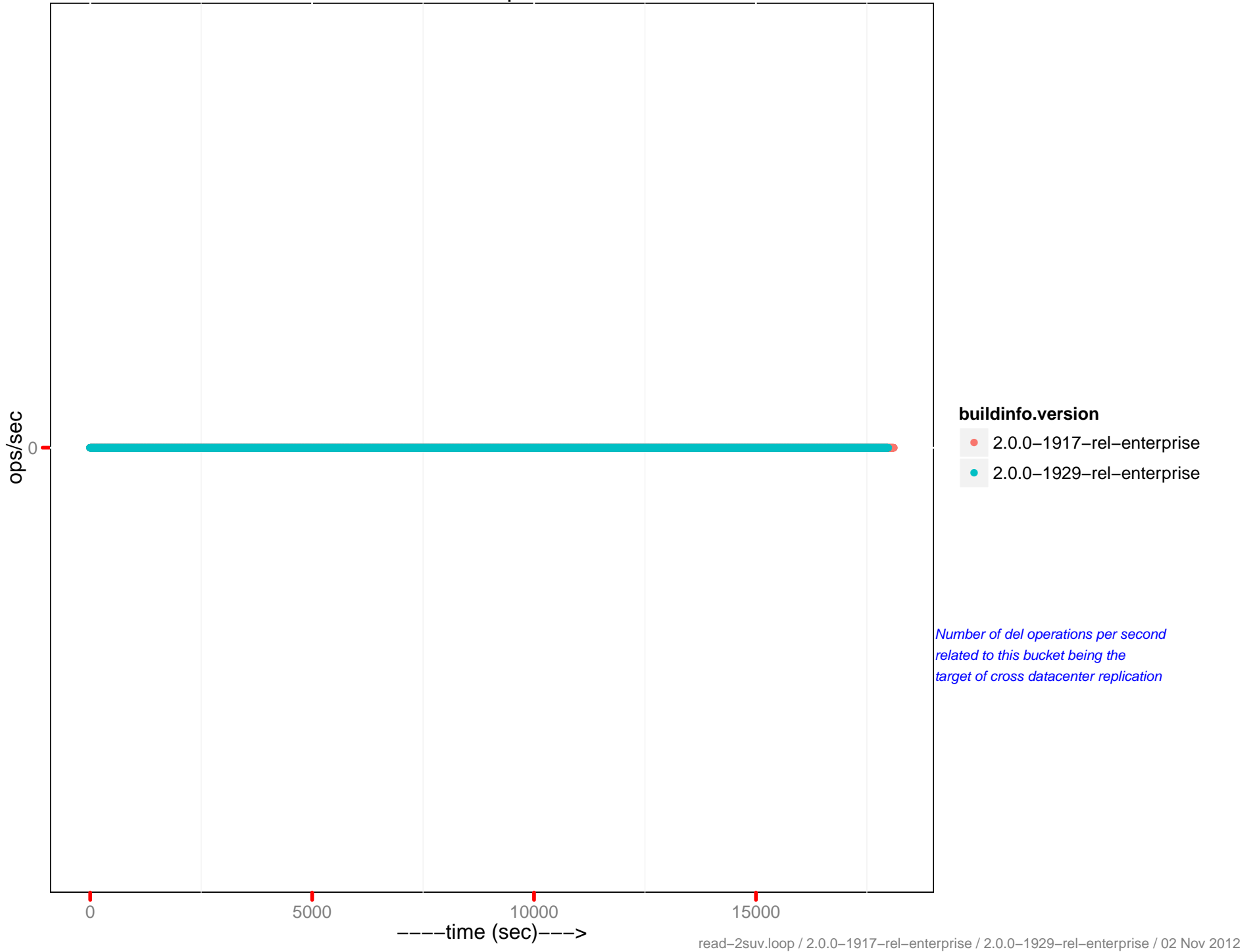
XDC gets per sec



XDC sets per sec

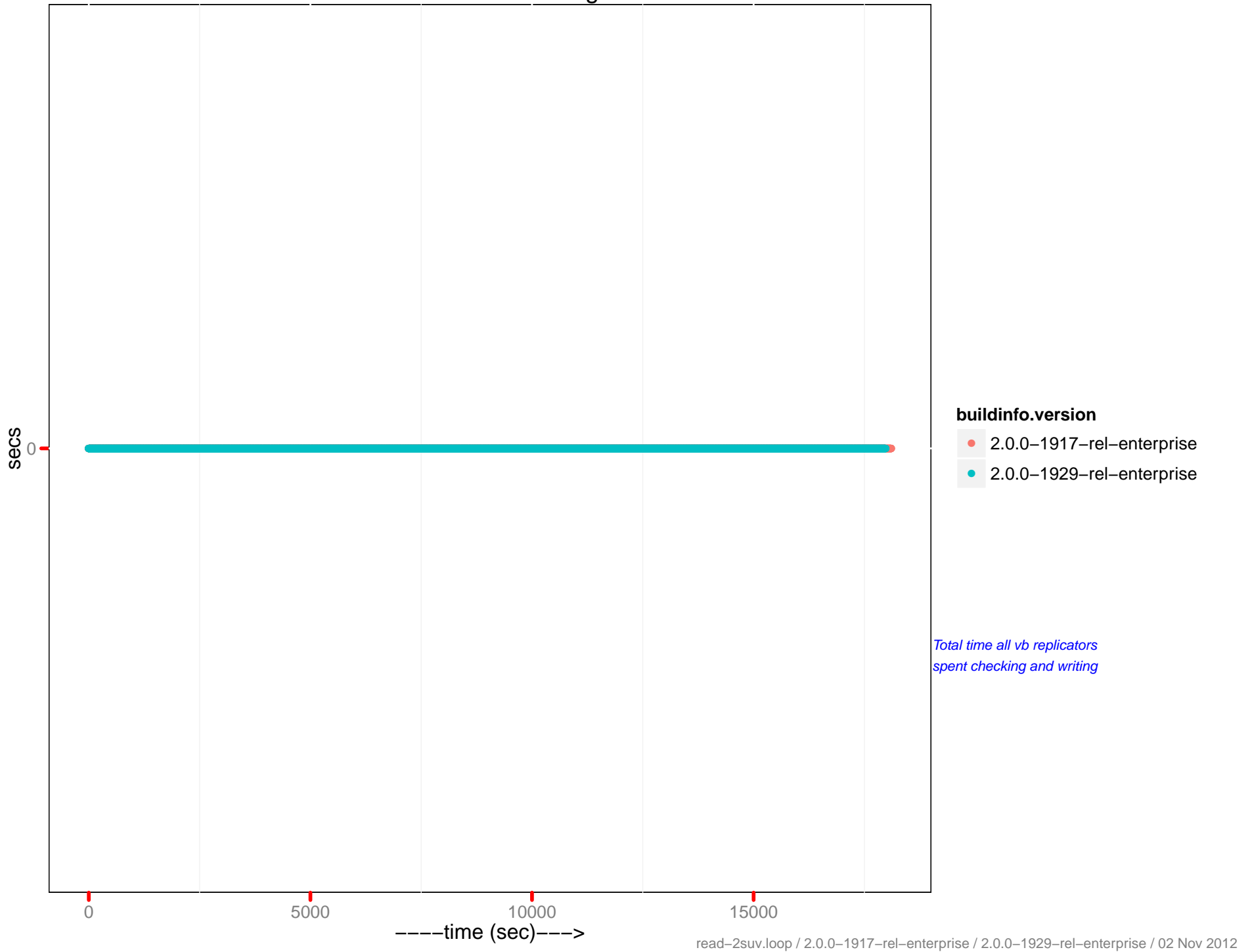


XDC dels per sec

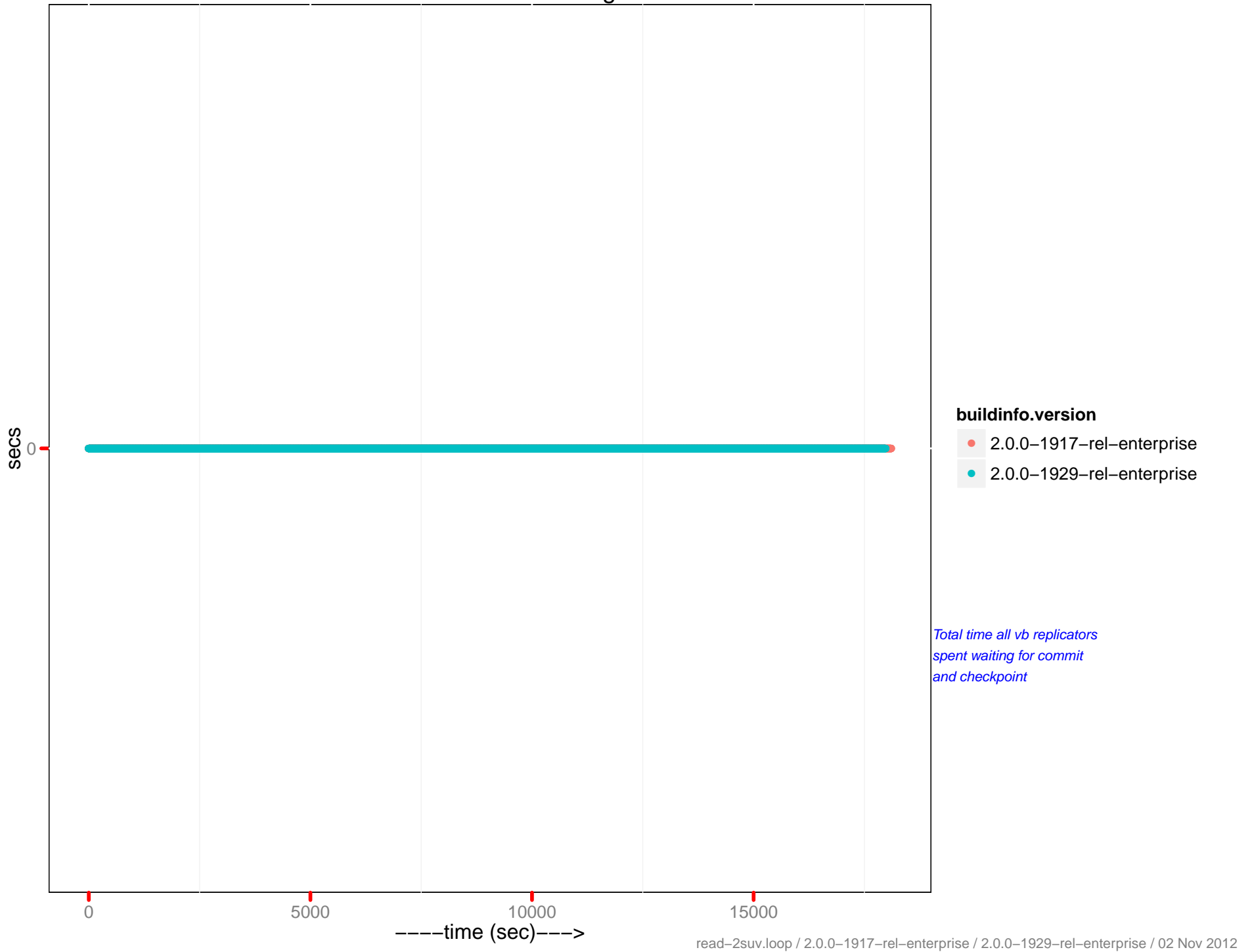


Number of del operations per second related to this bucket being the target of cross datacenter replication

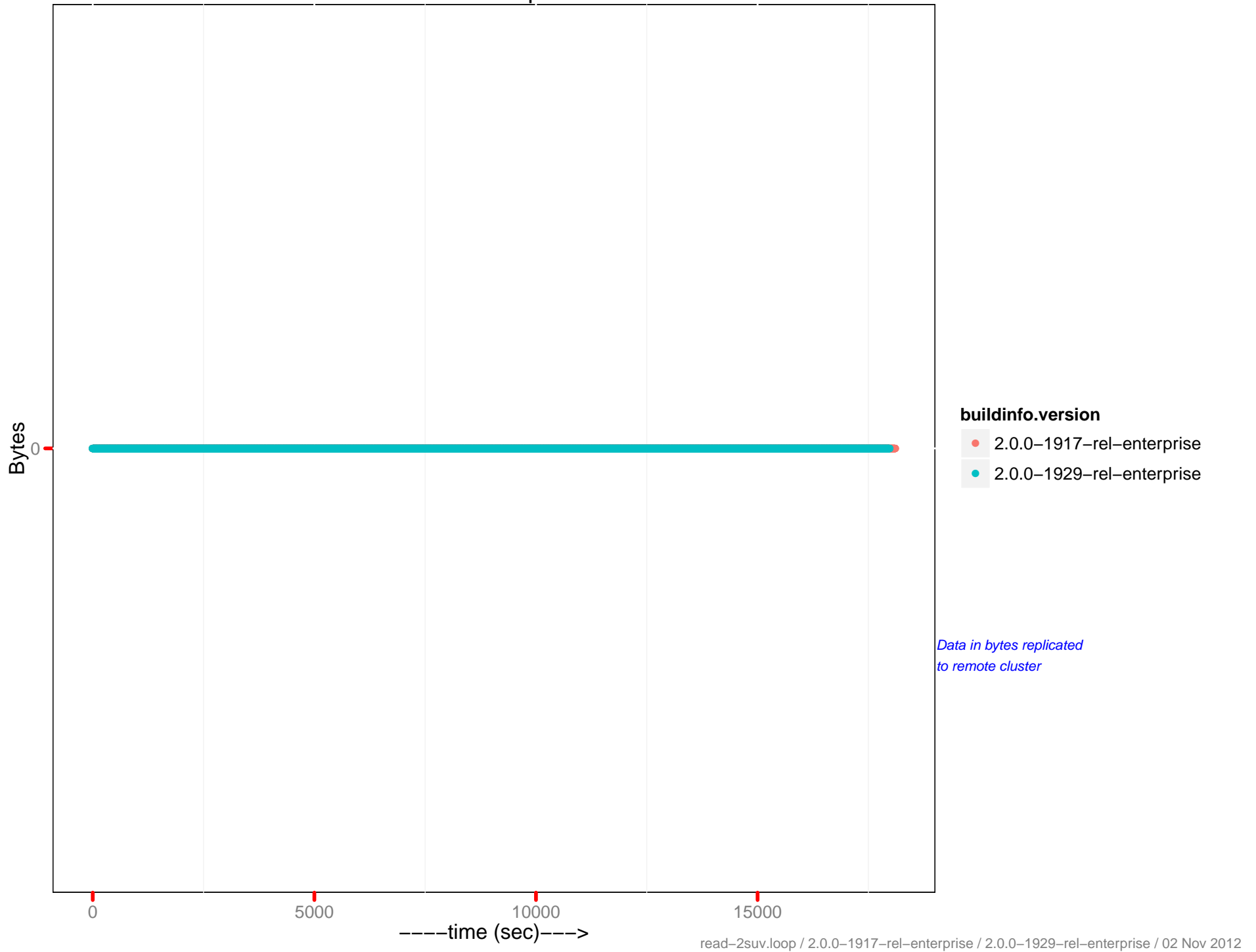
XDCR secs working



XDCR secs committing



XDCR data replicated

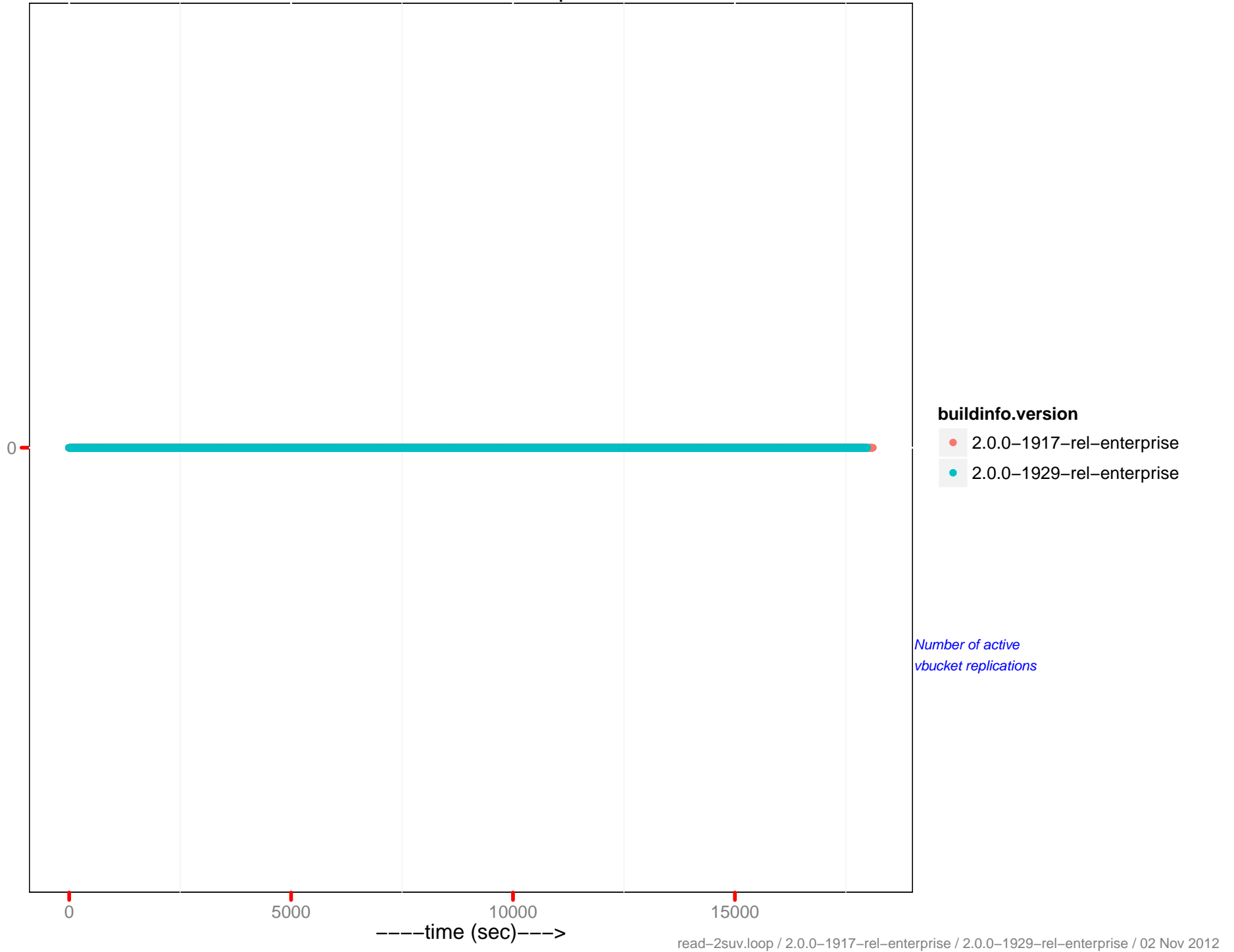


buildinfo.version

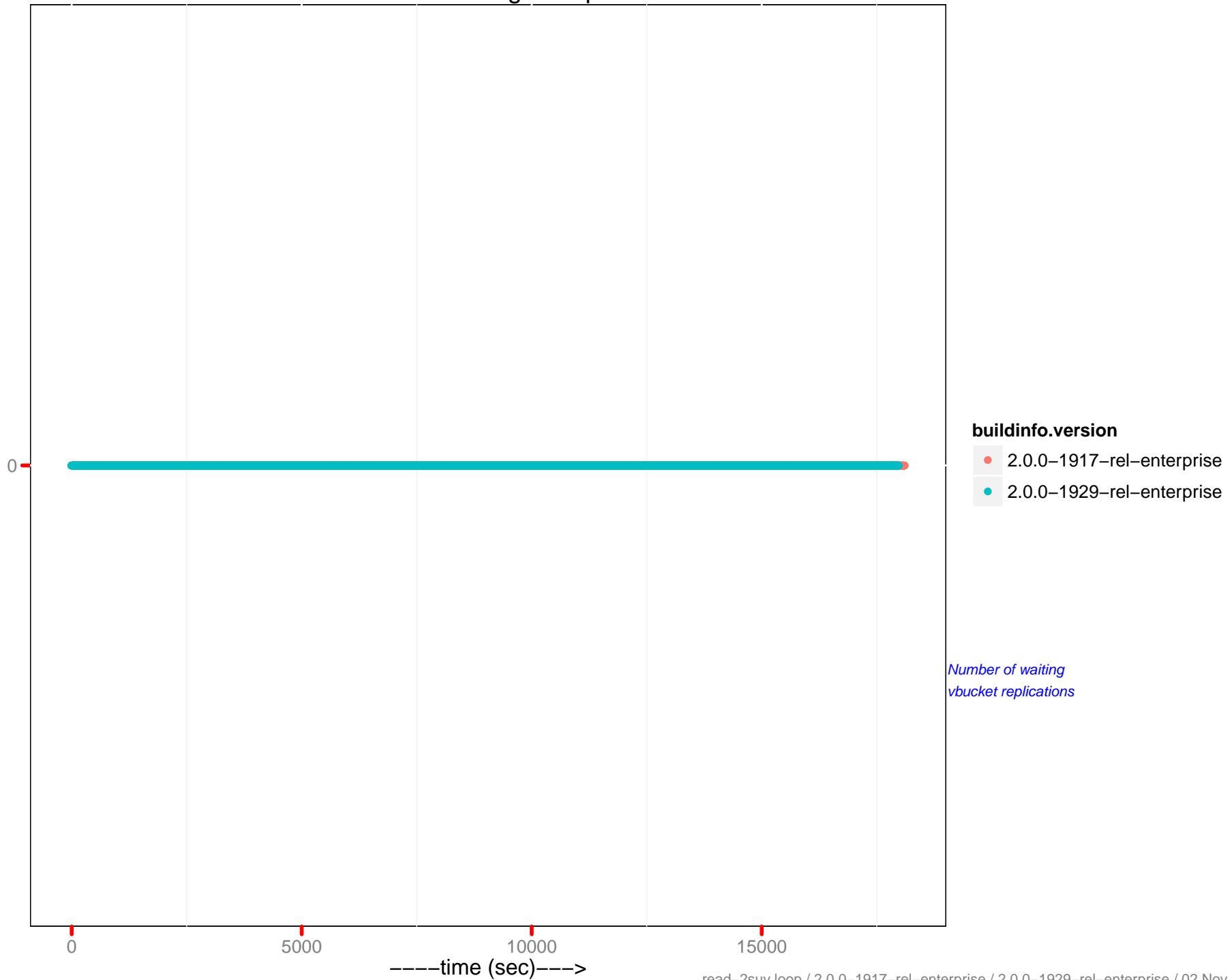
- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

Data in bytes replicated to remote cluster

XDCR active vb reps

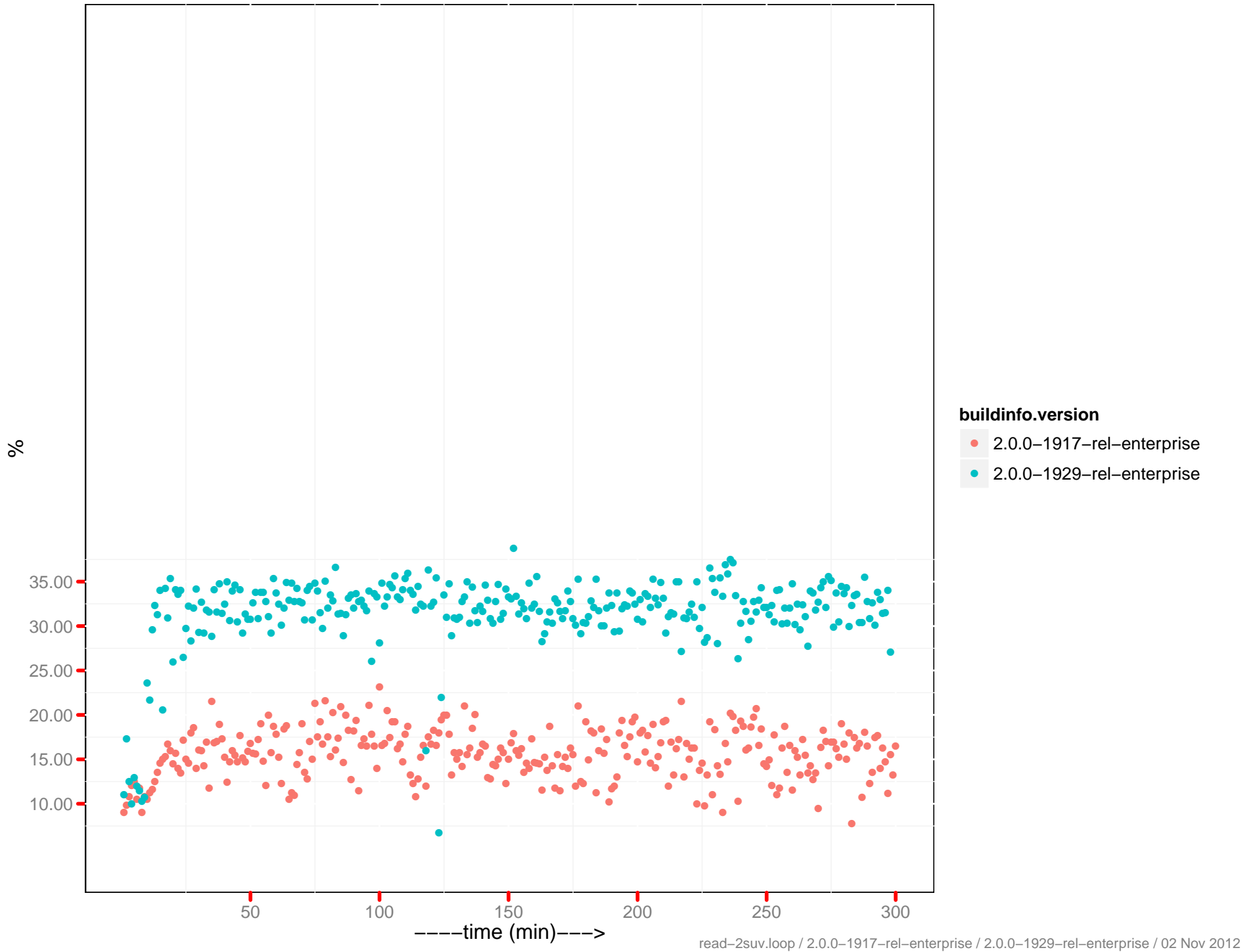


XDCR waiting vb reps

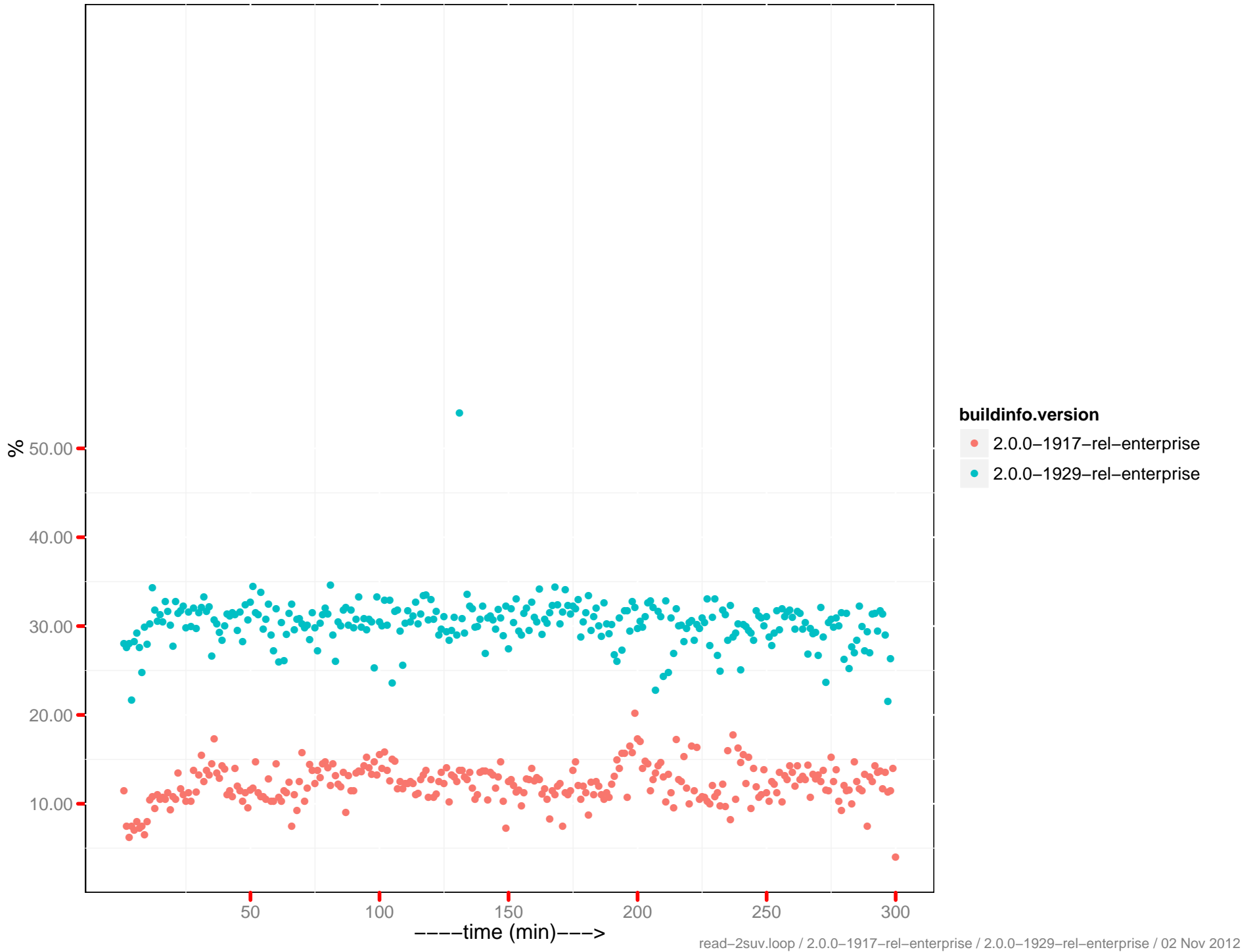


Number of waiting vbucket replications

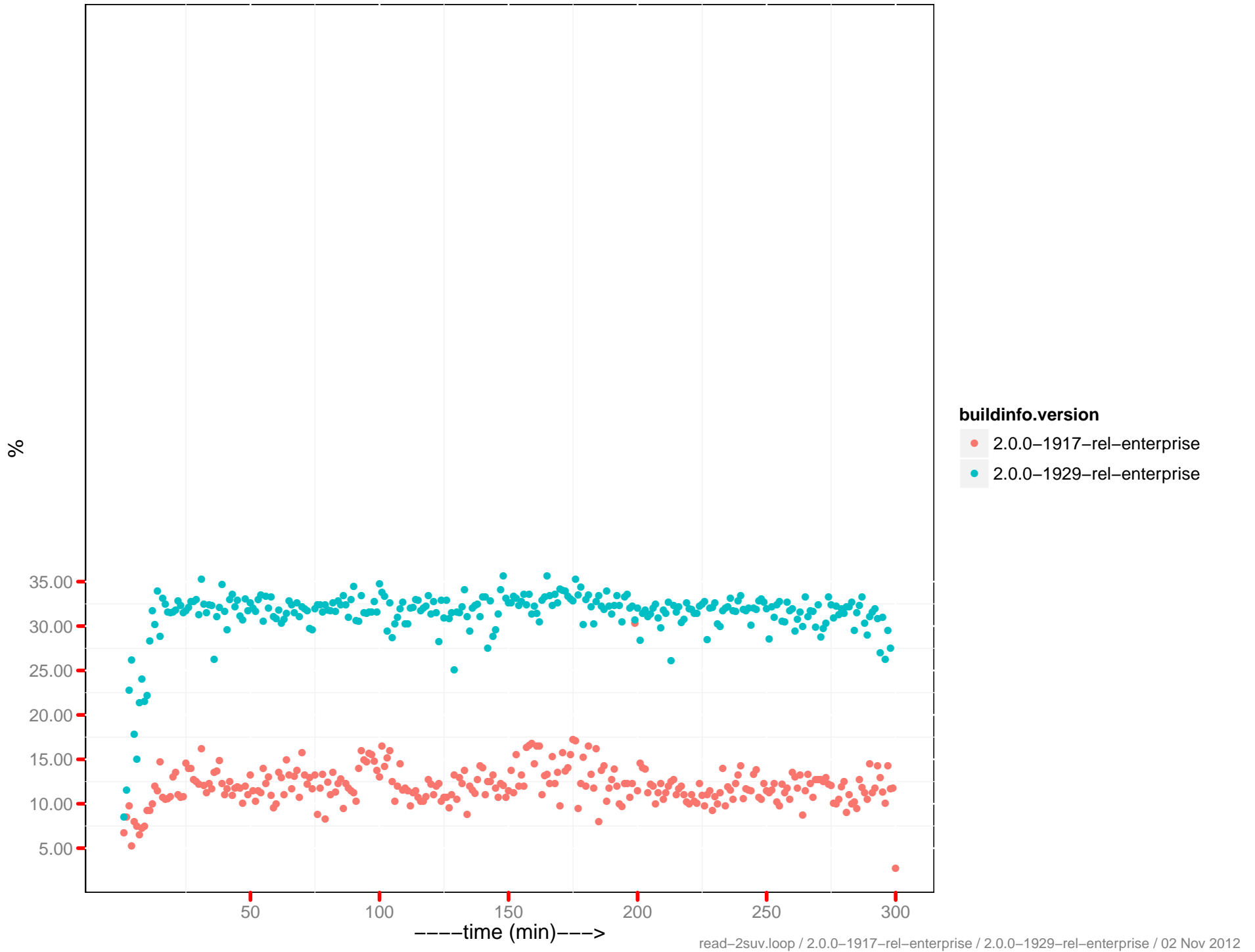
CPU utilization – 10.2.1.58:8091



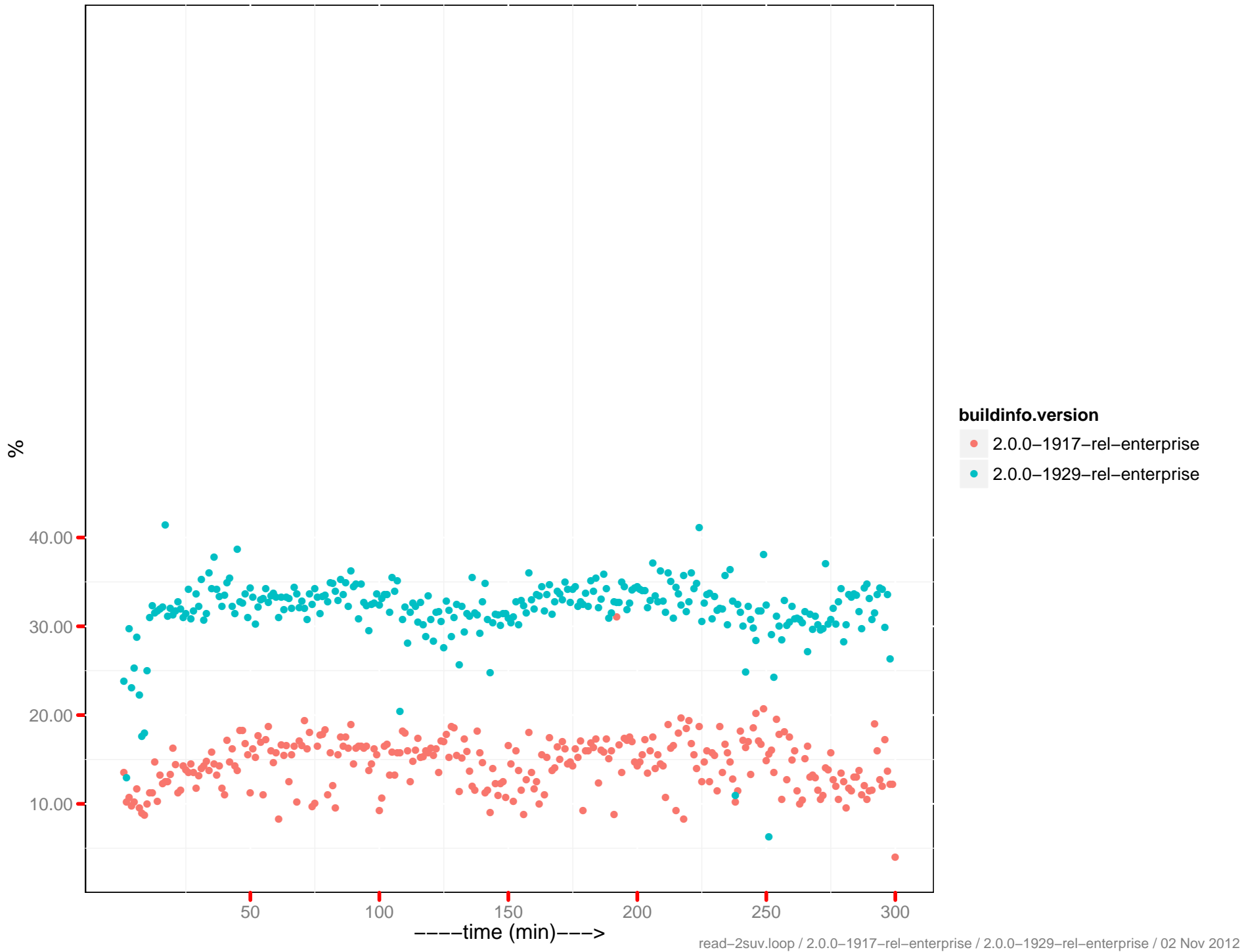
CPU utilization – 10.2.1.61:8091



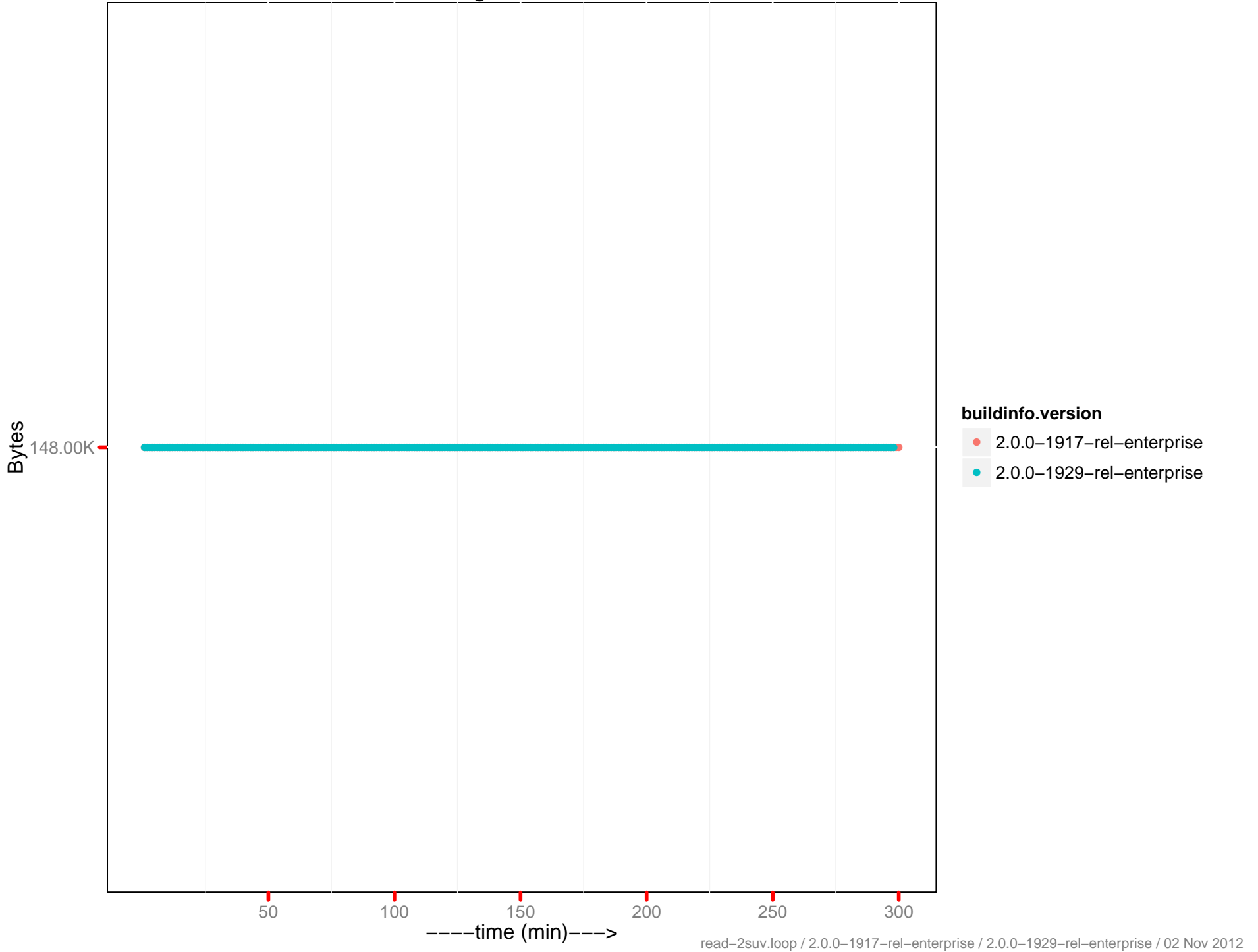
CPU utilization – 10.2.1.63:8091



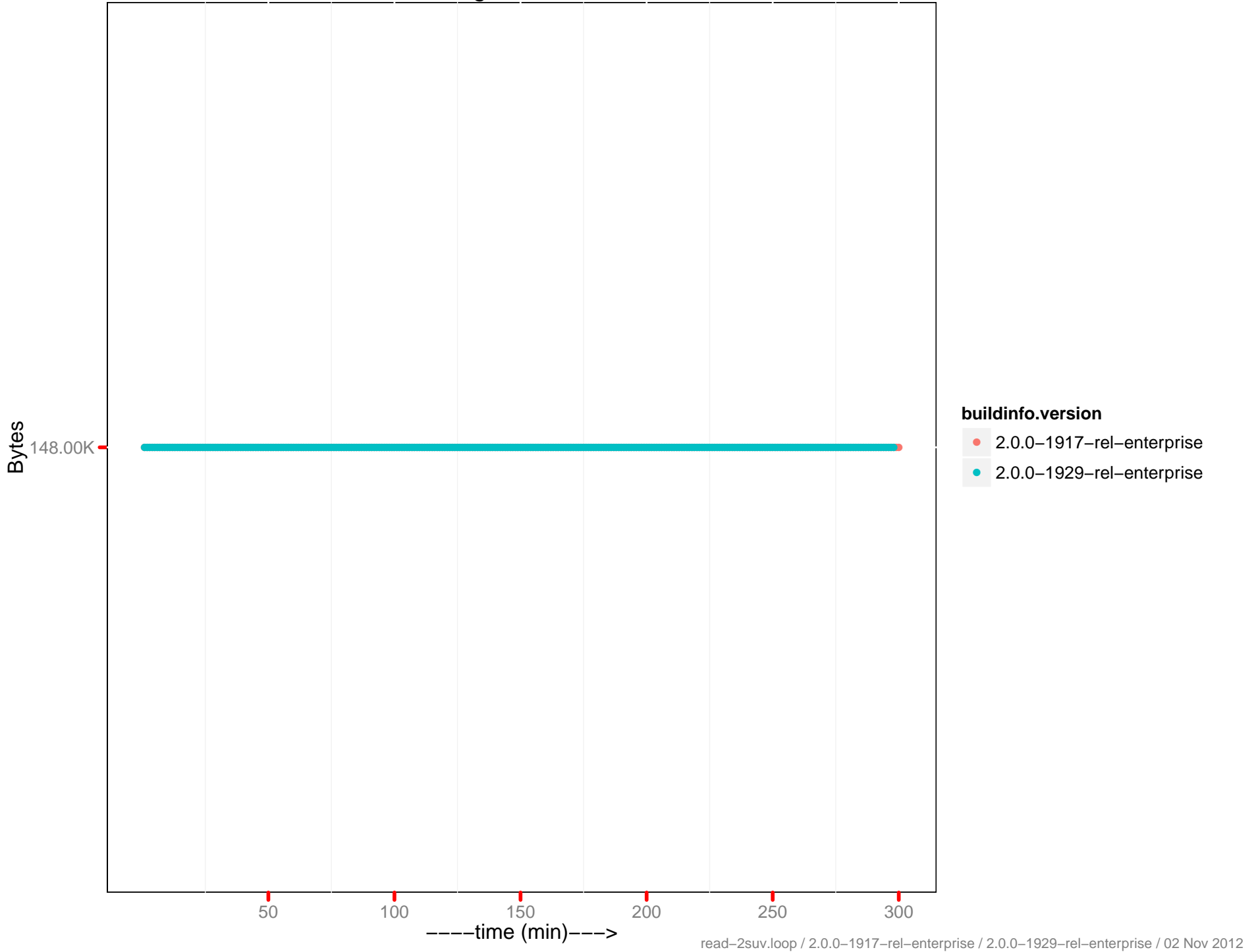
CPU utilization – 10.2.1.64:8091



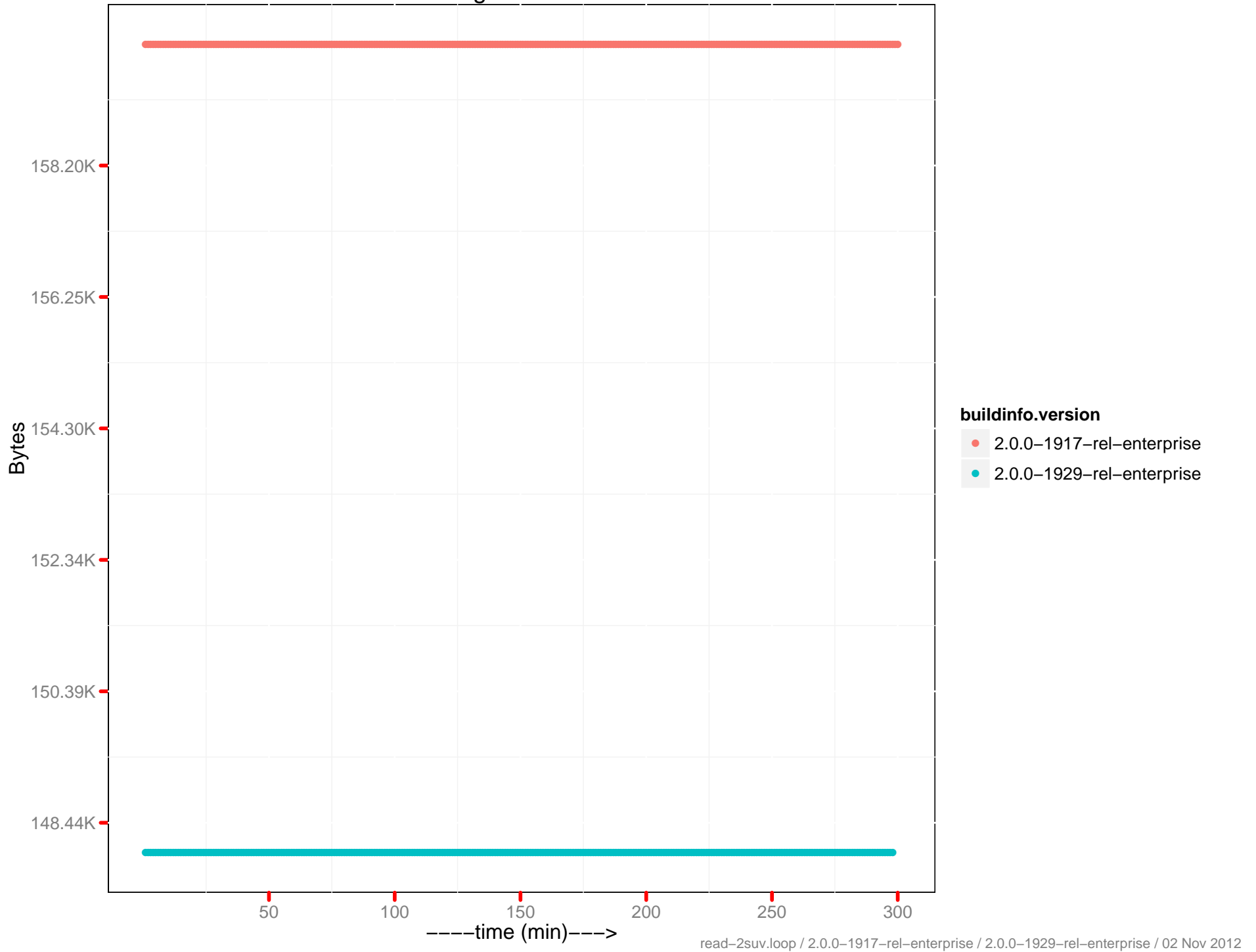
SWAP Usage - 10.2.1.58:8091



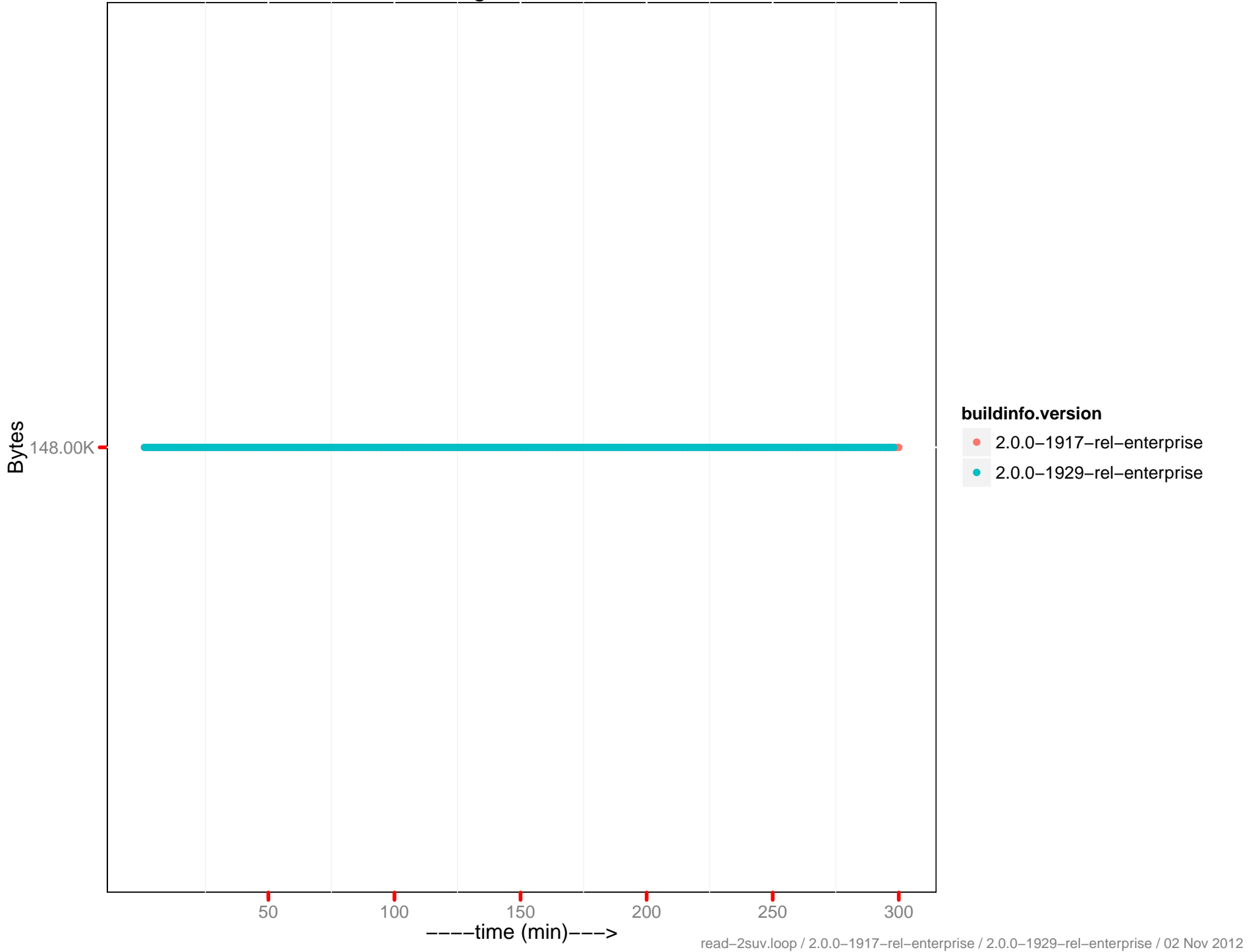
SWAP Usage - 10.2.1.61:8091



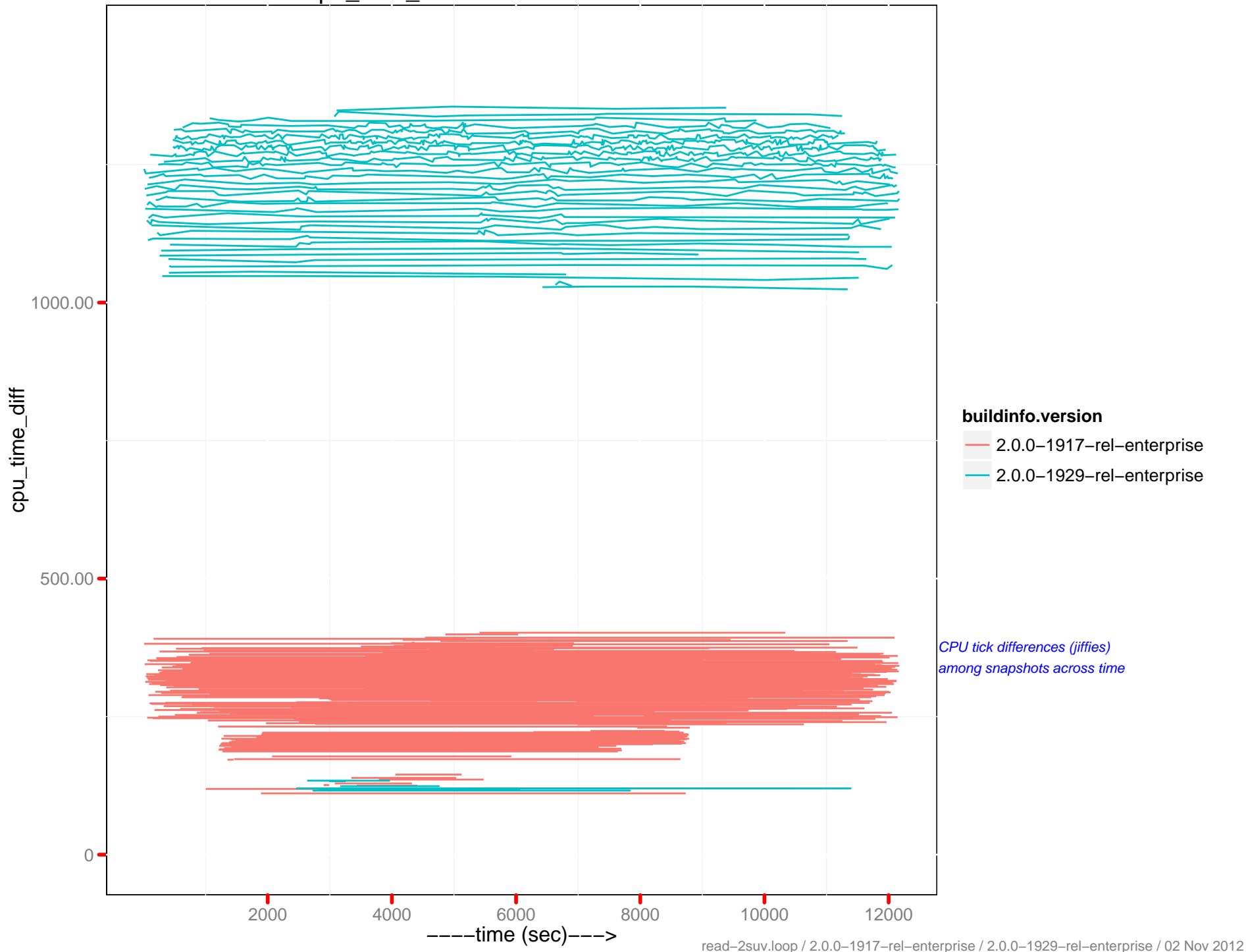
SWAP Usage – 10.2.1.63:8091



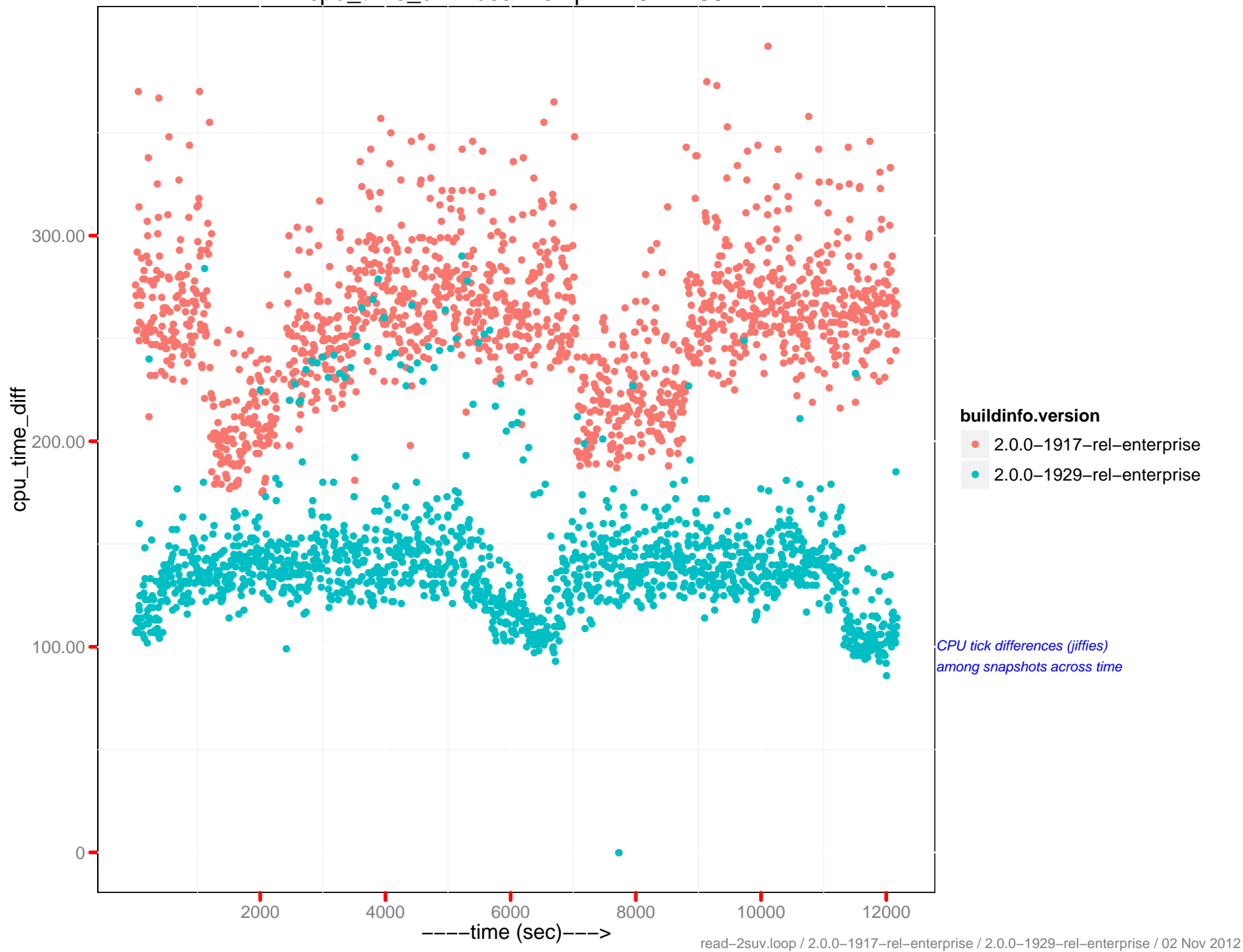
SWAP Usage - 10.2.1.64:8091



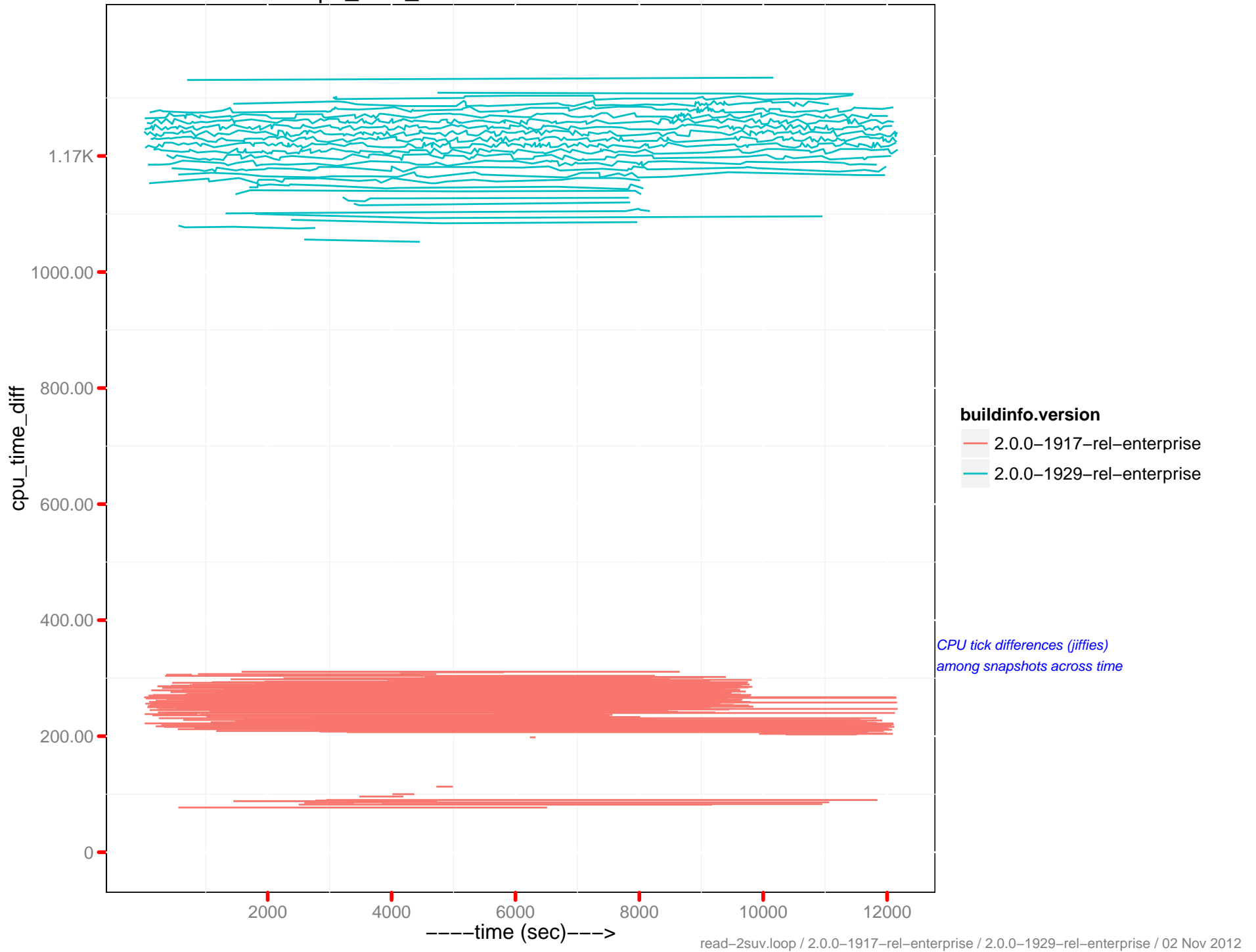
cpu_time_diff: memcached – 10.2.1.58



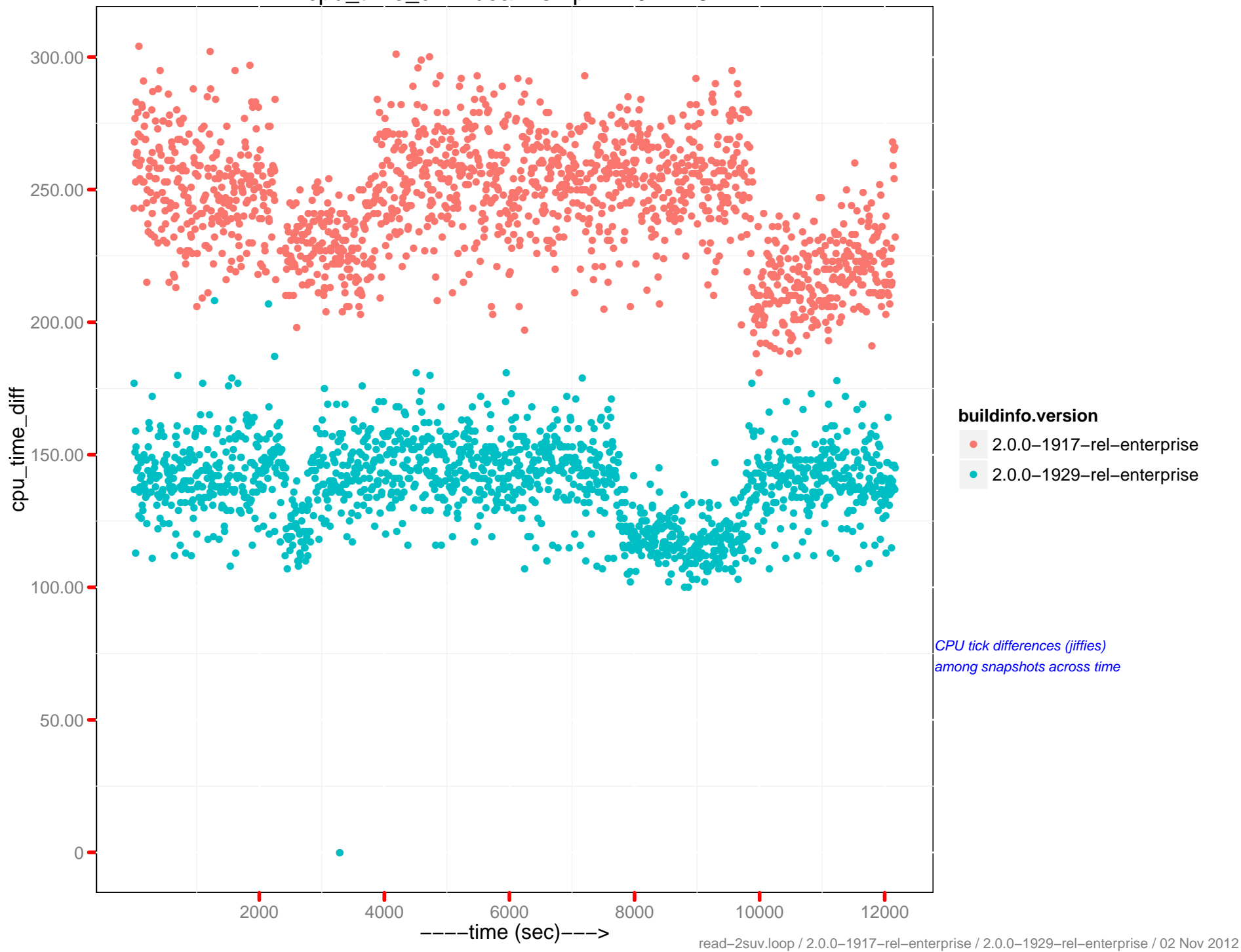
cpu_time_diff : beam.smp - 10.2.1.58



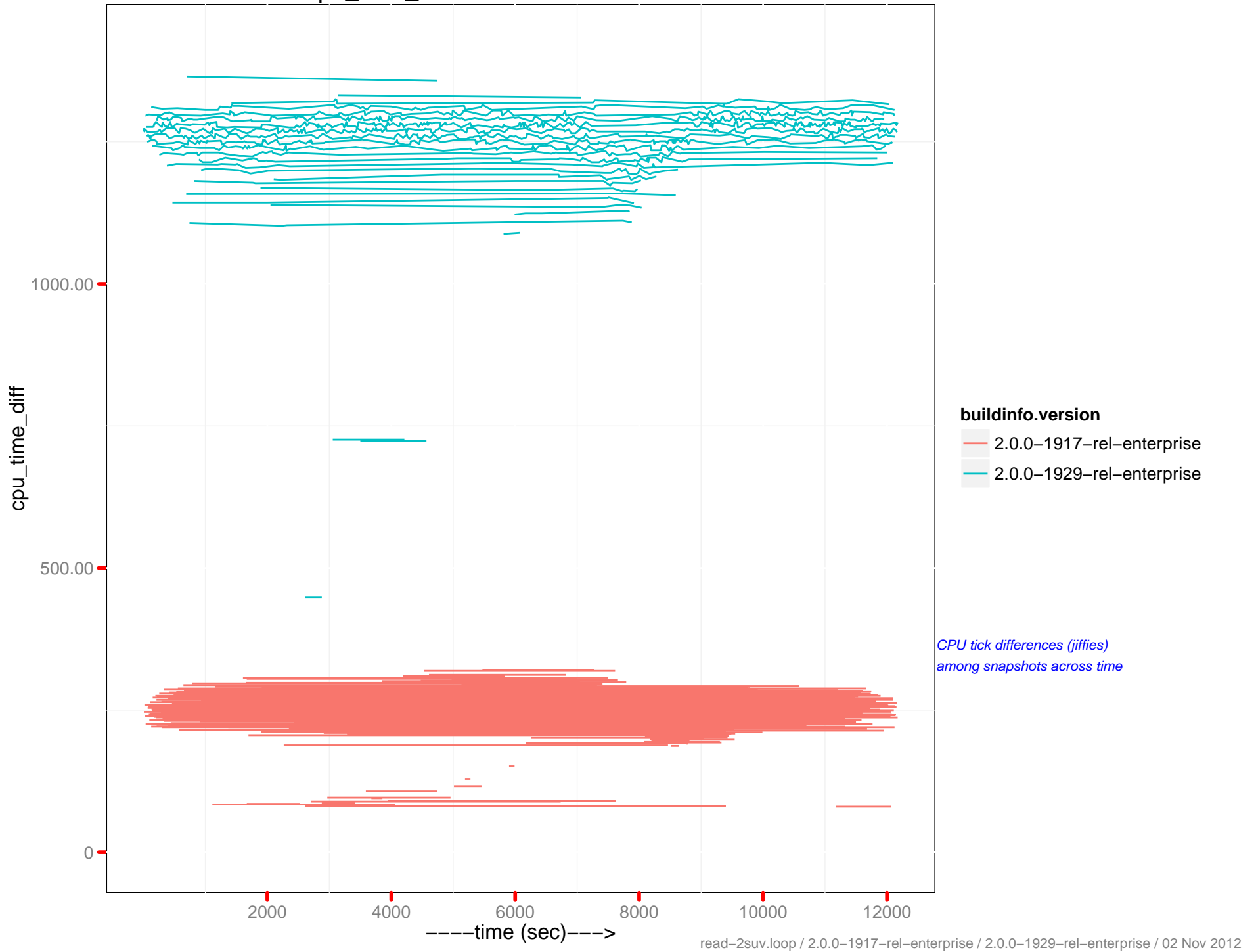
cpu_time_diff: memcached – 10.2.1.61



cpu_time_diff : beam.smp - 10.2.1.61



cpu_time_diff: memcached - 10.2.1.63

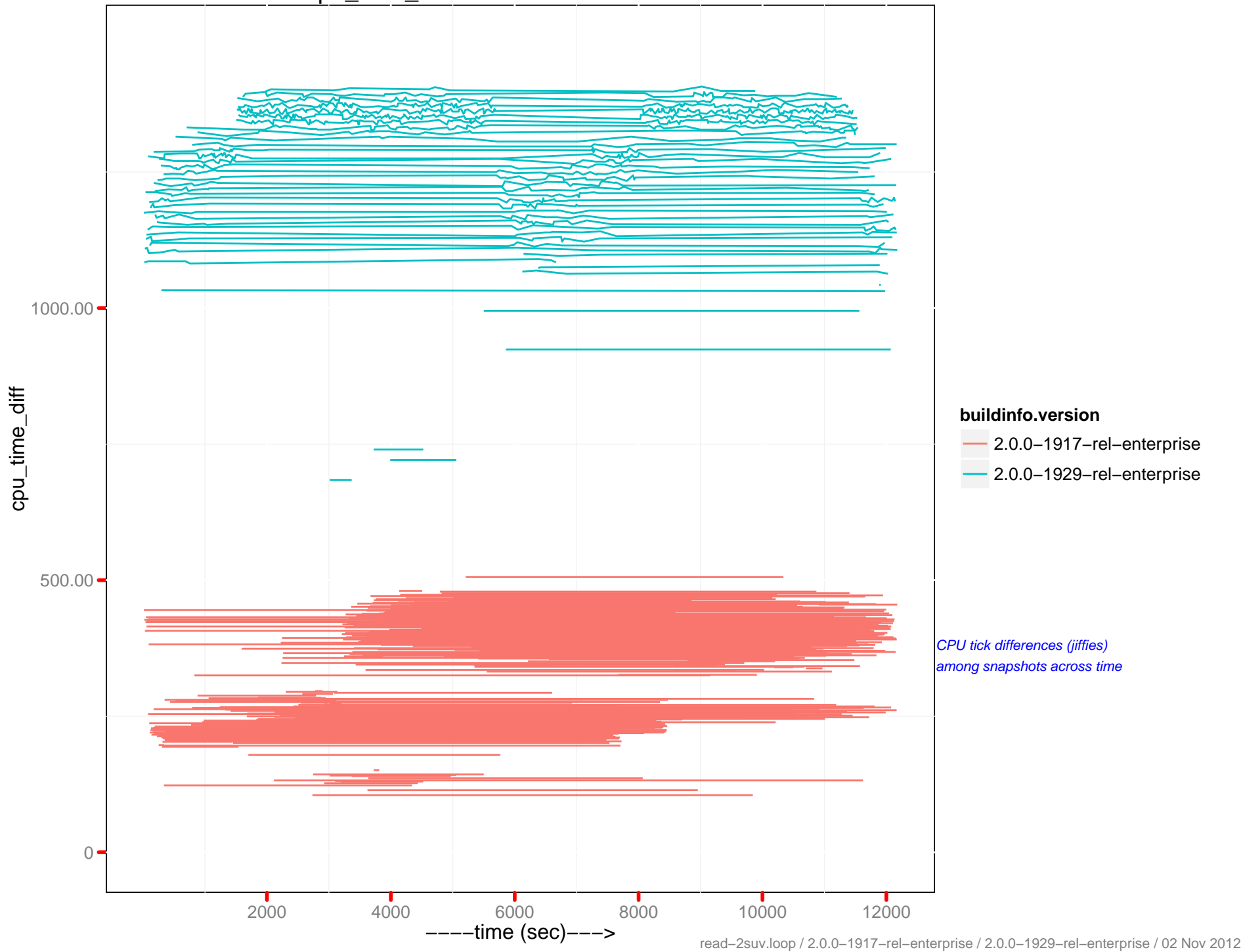


*CPU tick differences (jiffies)
among snapshots across time*

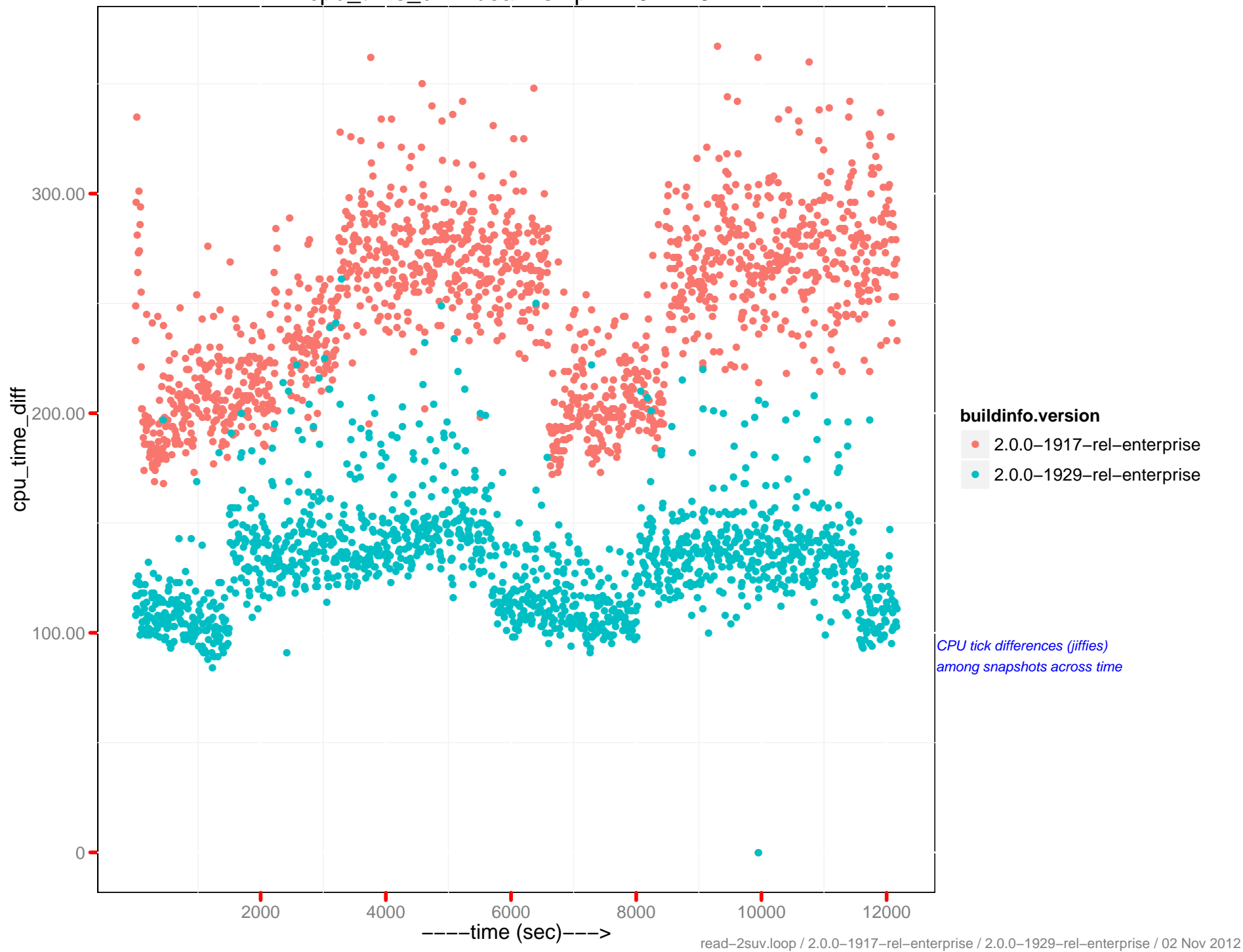
cpu_time_diff : beam.smp - 10.2.1.63



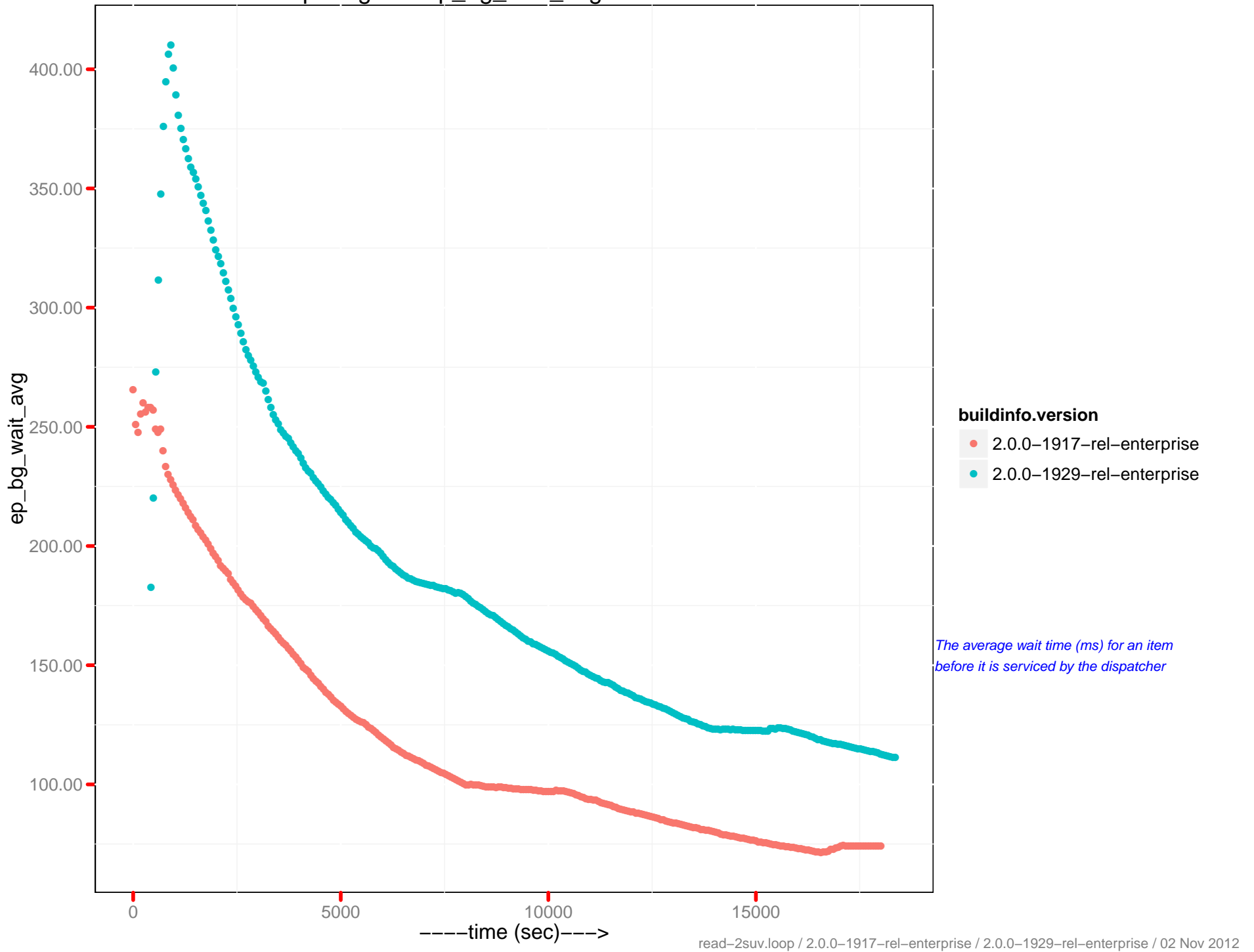
cpu_time_diff: memcached – 10.2.1.64



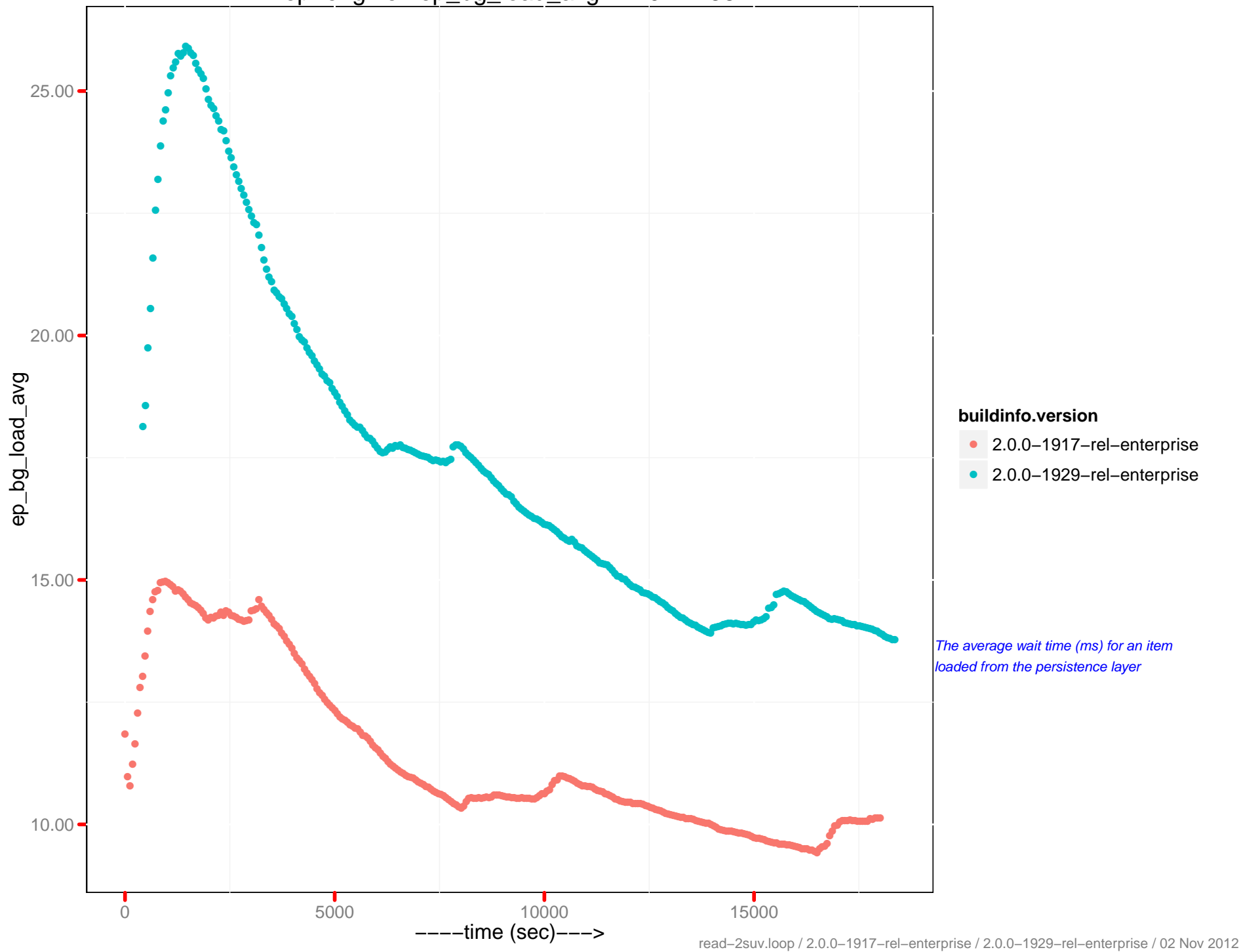
cpu_time_diff : beam.smp - 10.2.1.64



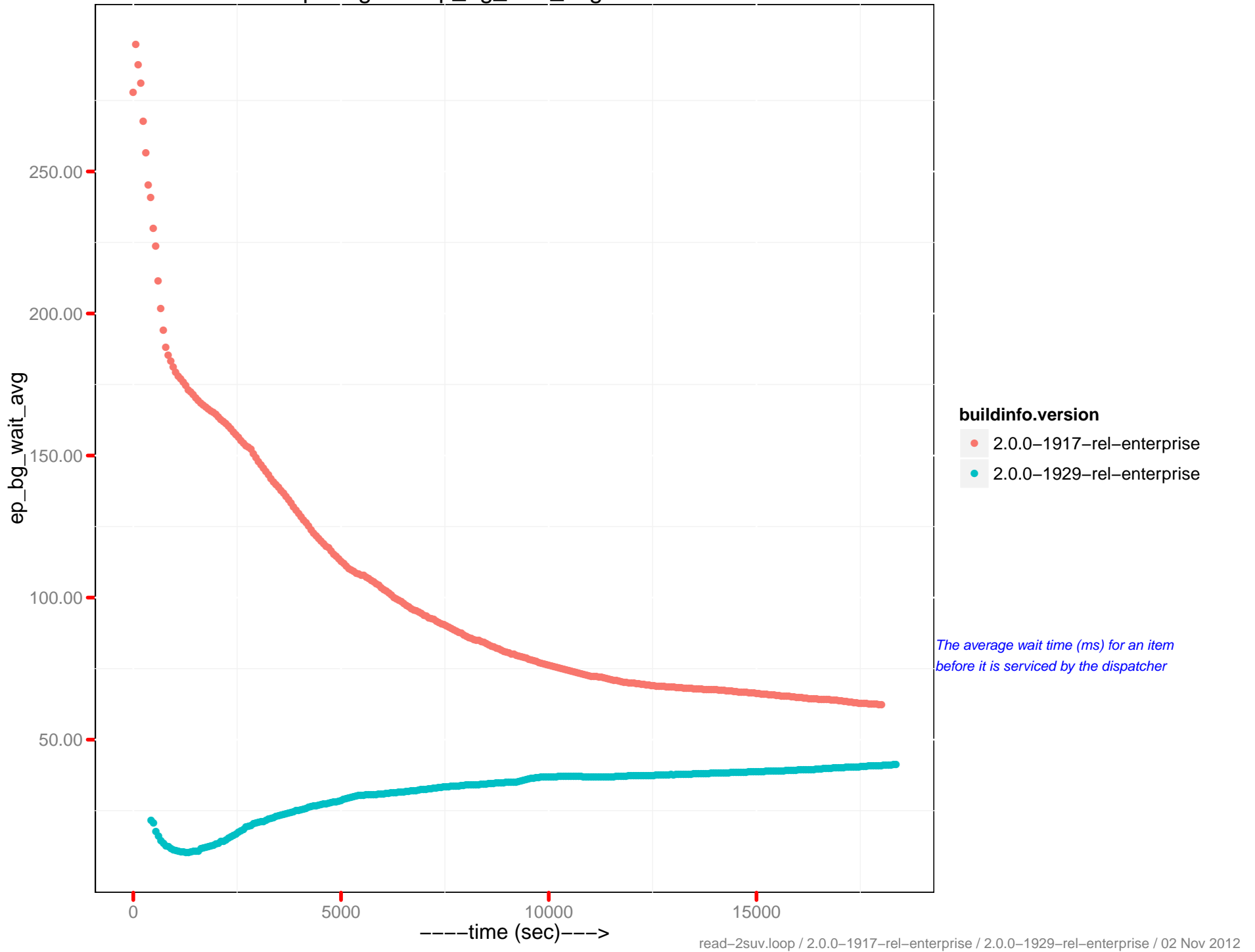
ep-engine : ep_bg_wait_avg - 10.2.1.58



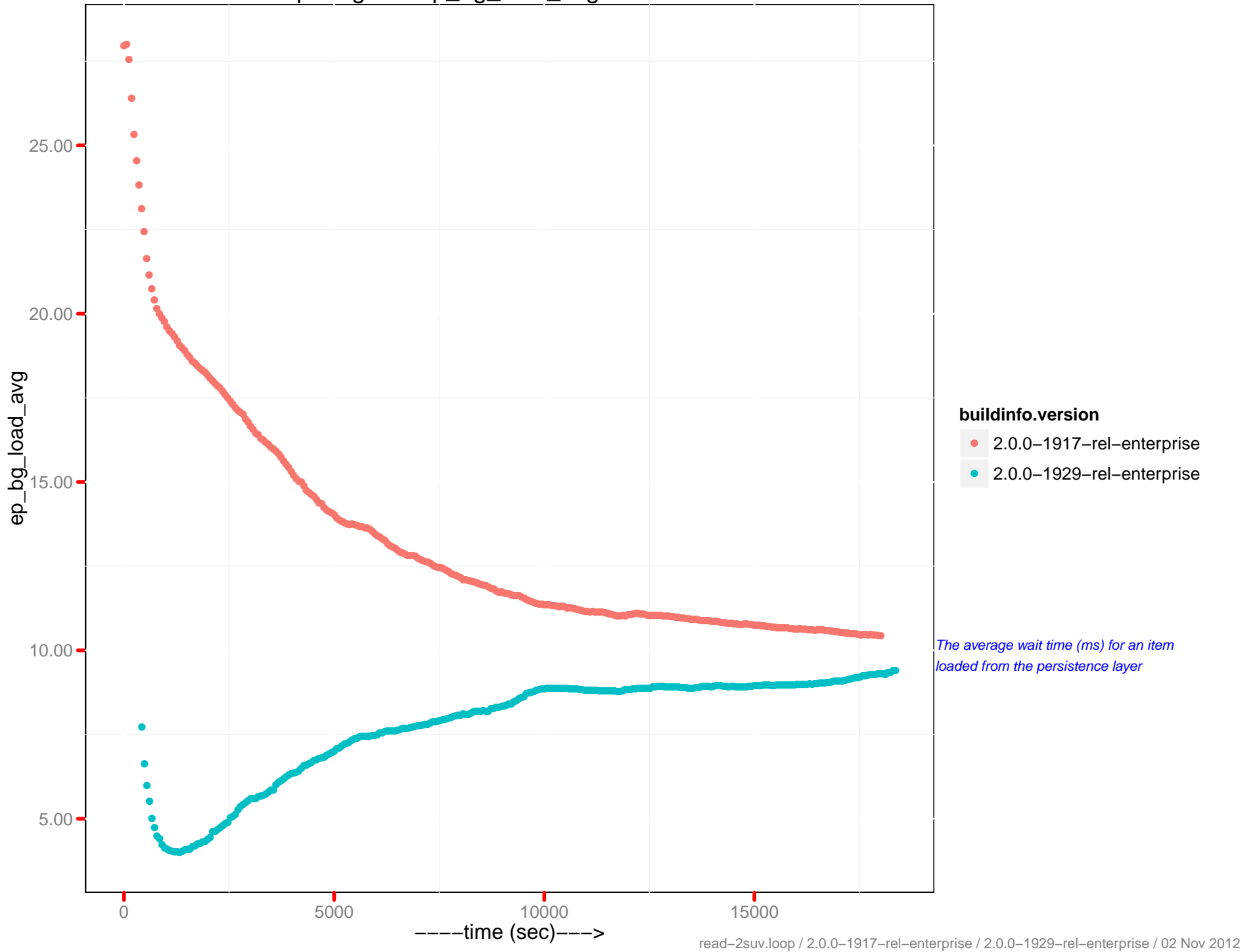
ep-engine : ep_bg_load_avg - 10.2.1.58



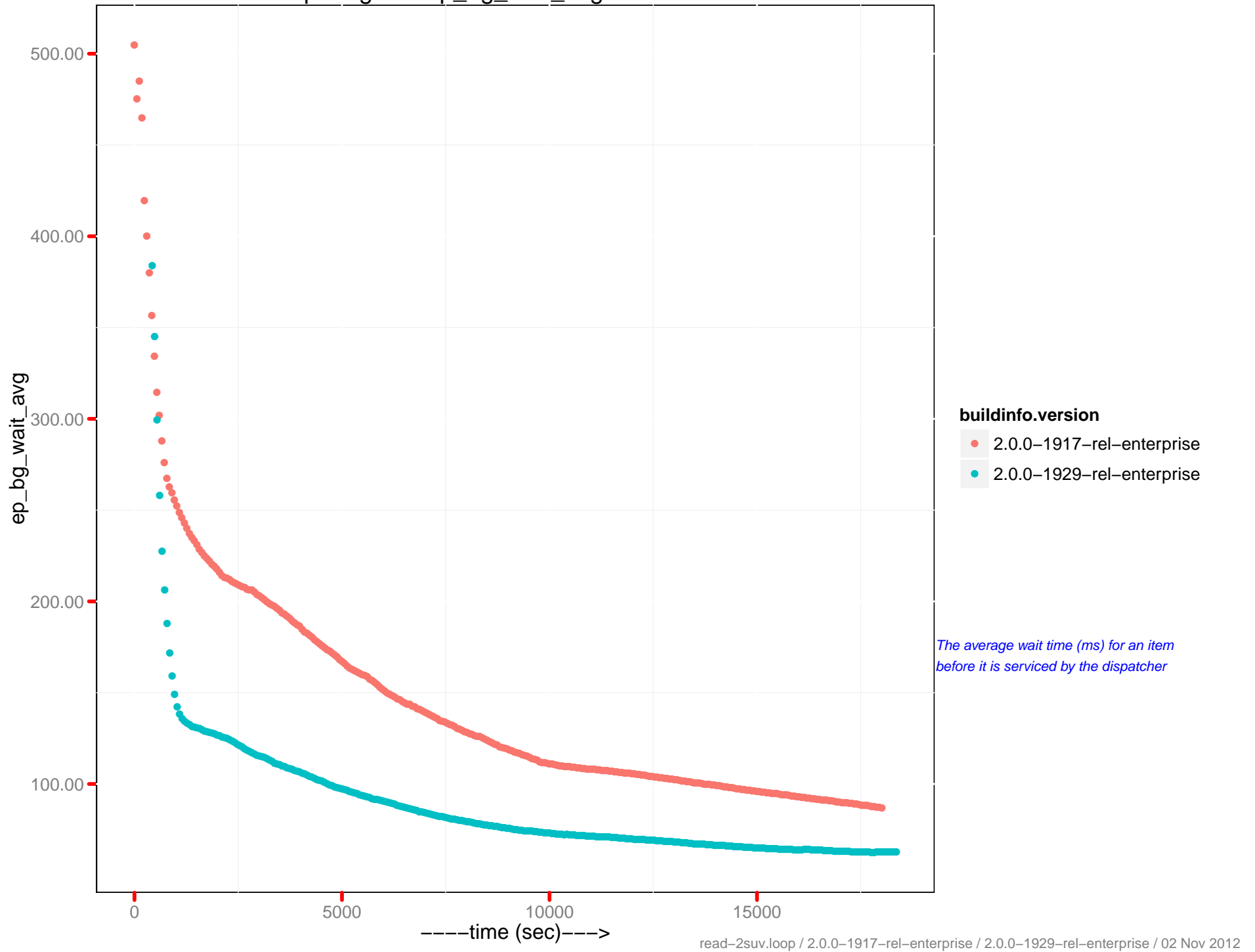
ep-engine : ep_bg_wait_avg - 10.2.1.61



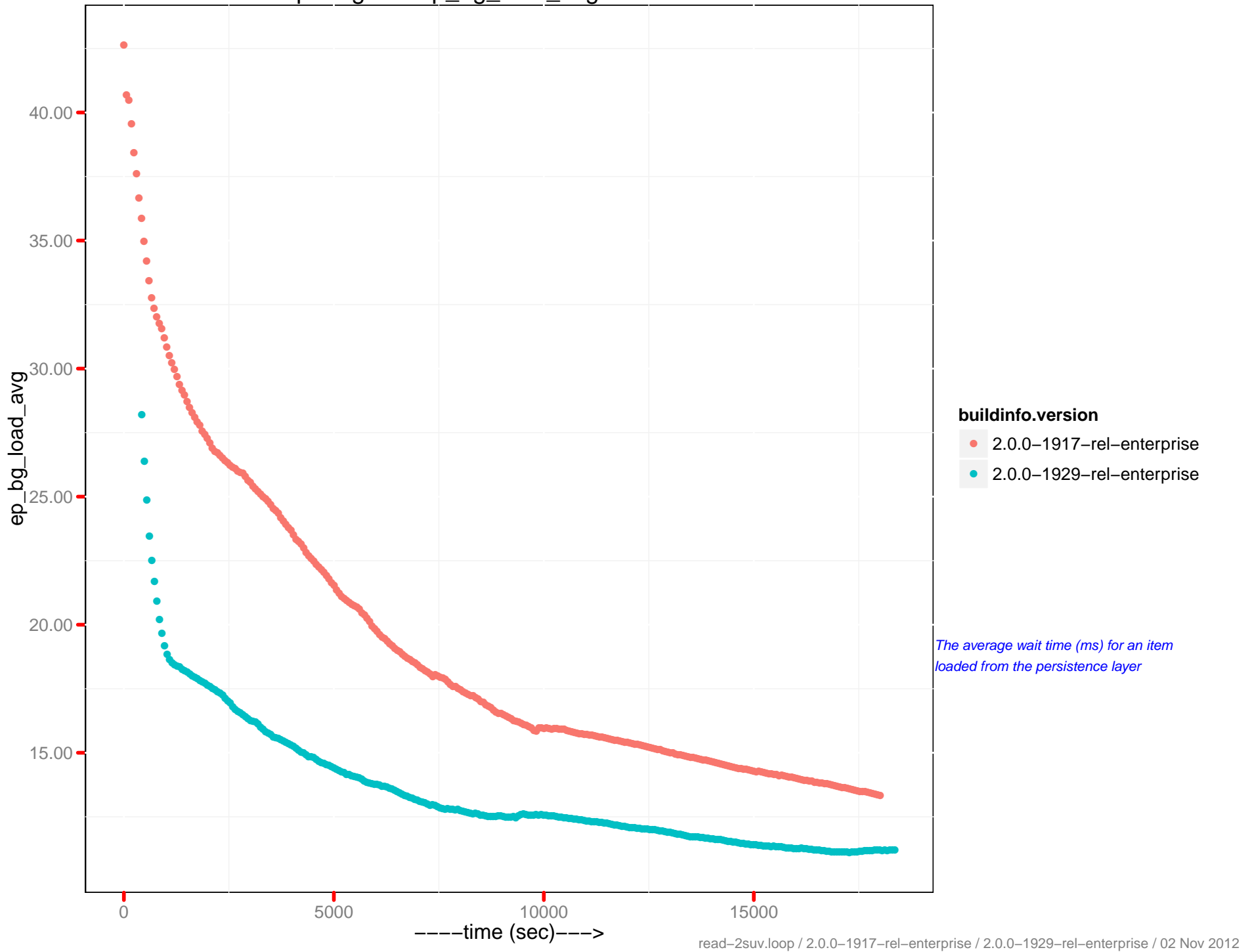
ep-engine : ep_bg_load_avg - 10.2.1.61



ep-engine : ep_bg_wait_avg - 10.2.1.63

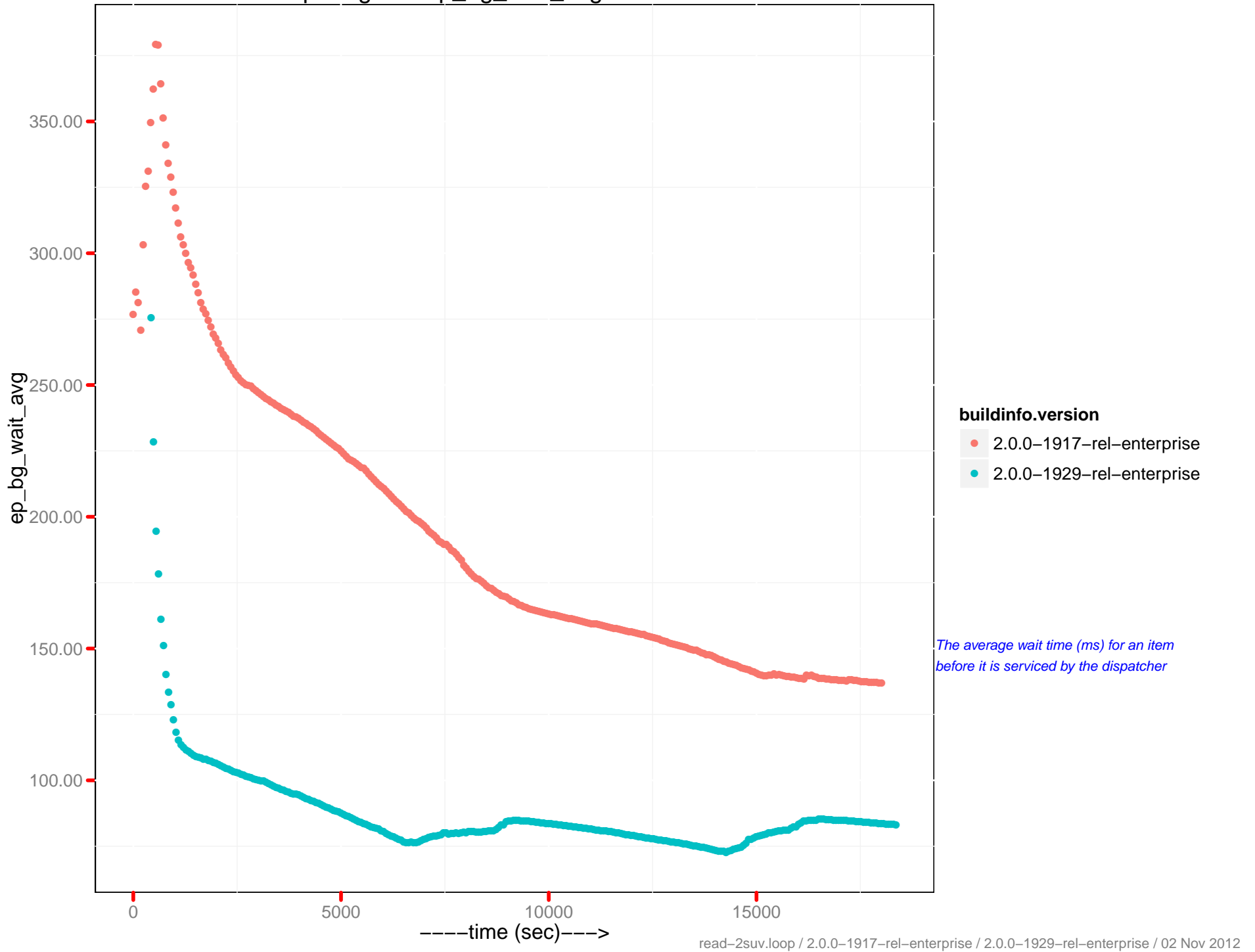


ep-engine : ep_bg_load_avg - 10.2.1.63

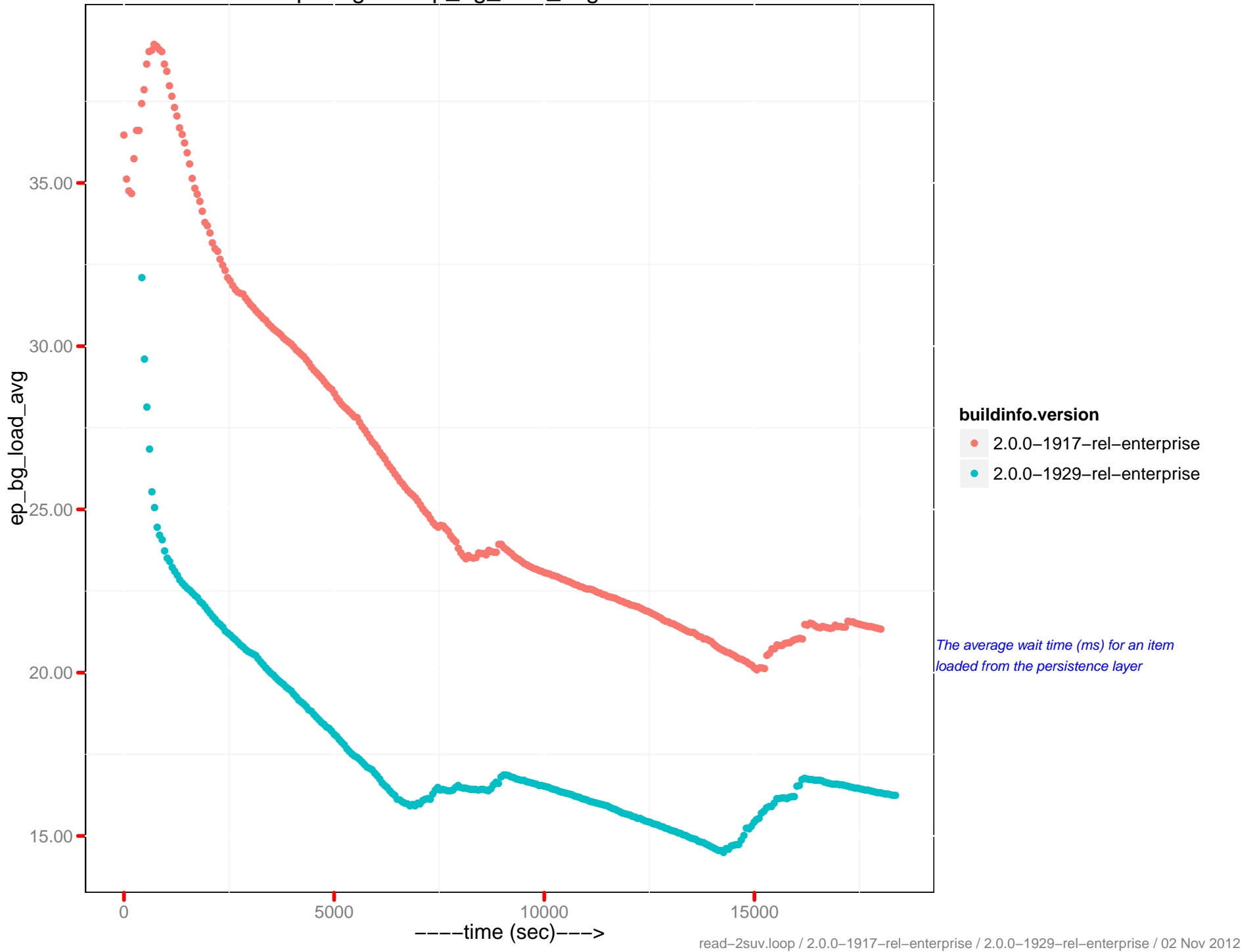


The average wait time (ms) for an item loaded from the persistence layer

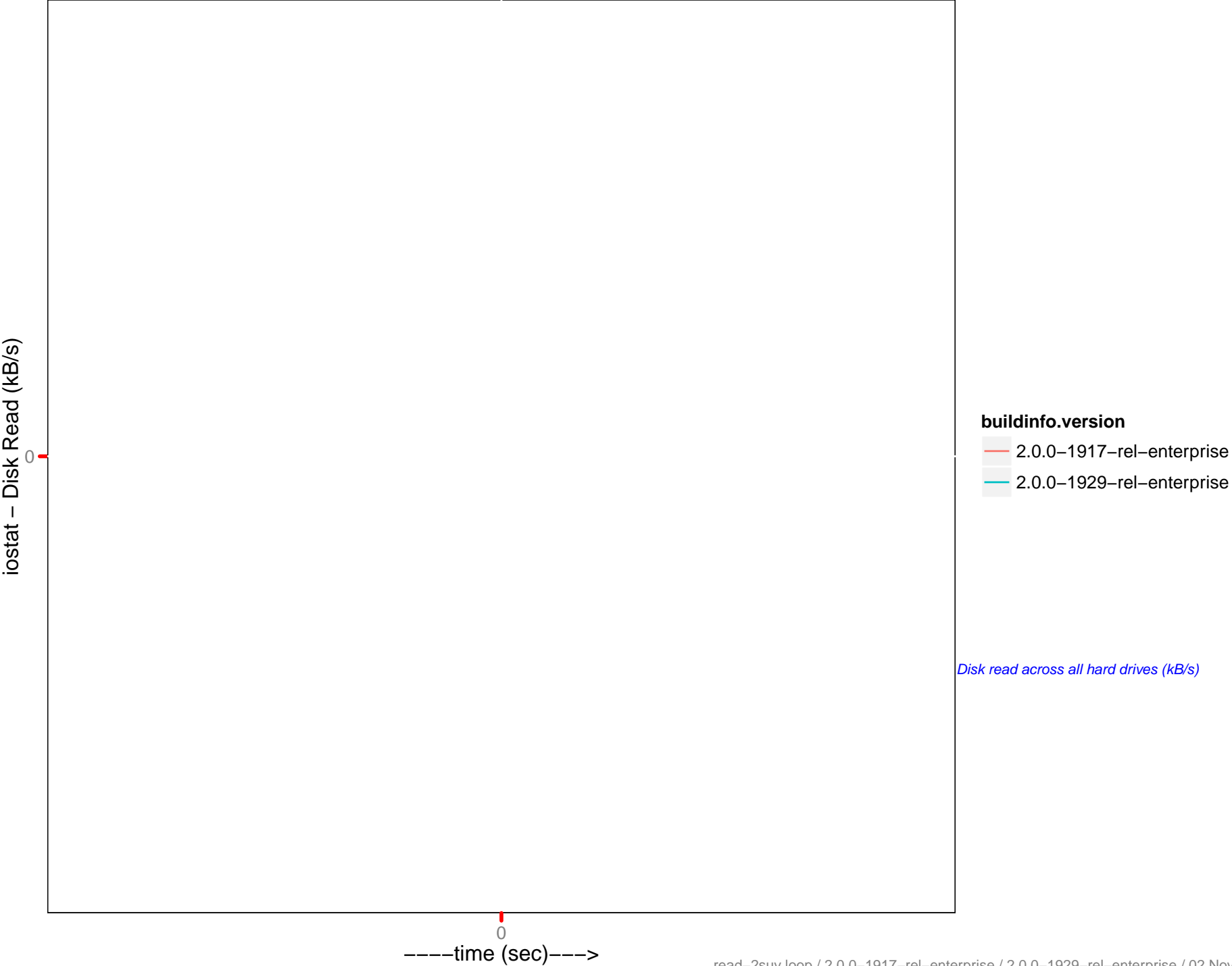
ep-engine : ep_bg_wait_avg - 10.2.1.64



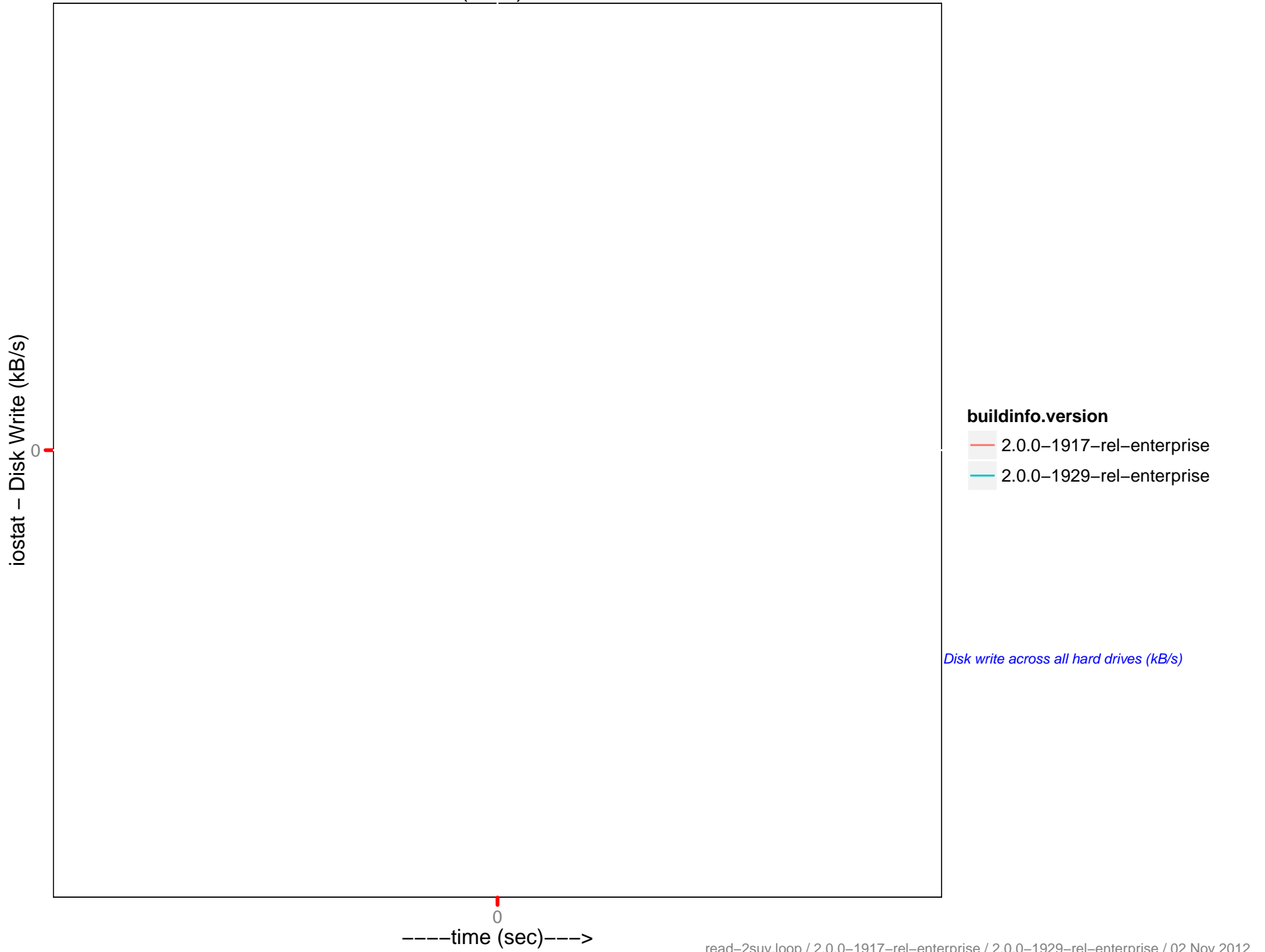
ep-engine : ep_bg_load_avg - 10.2.1.64



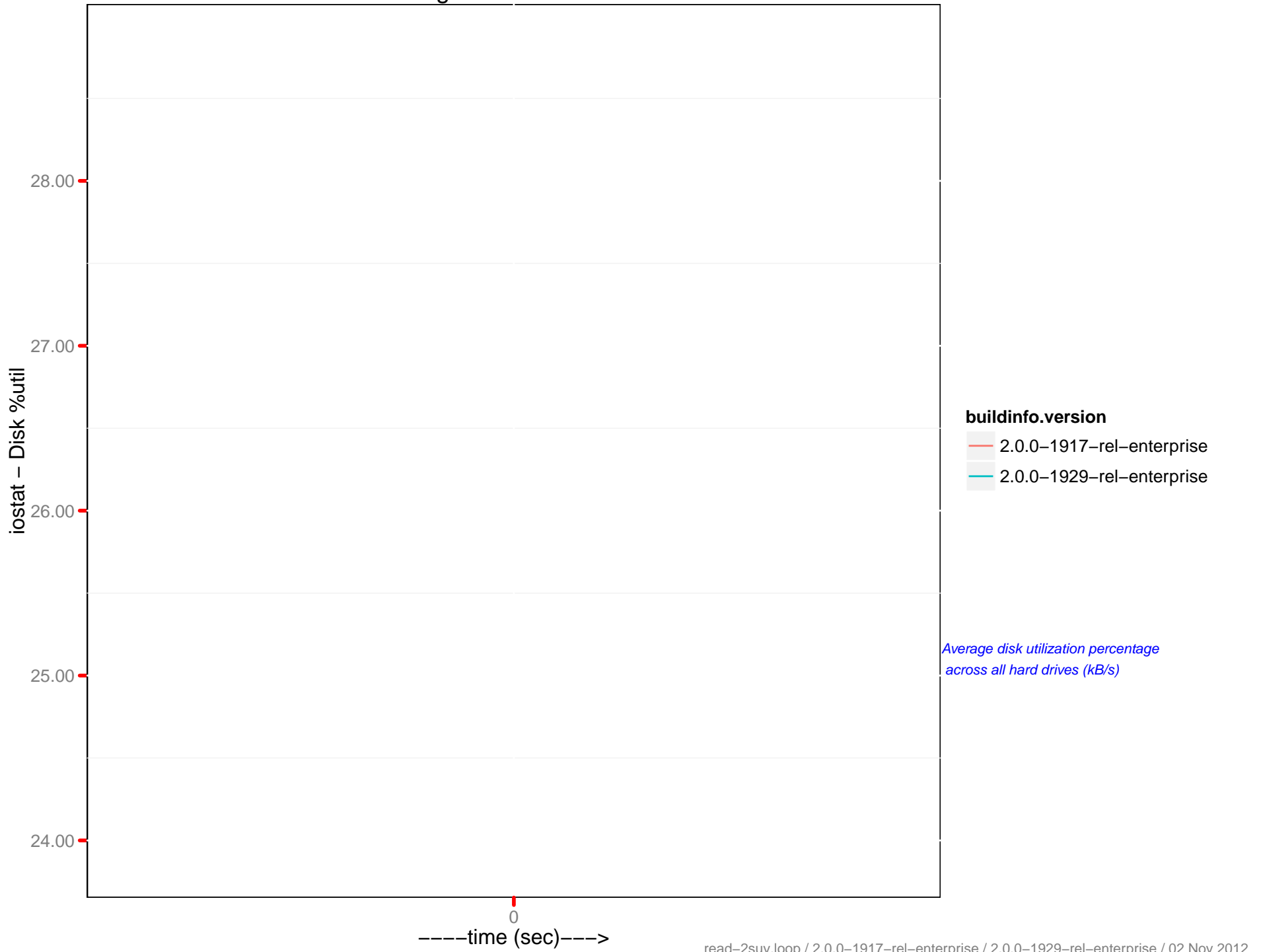
Disk Read (kB/s) : 10.2.1.58



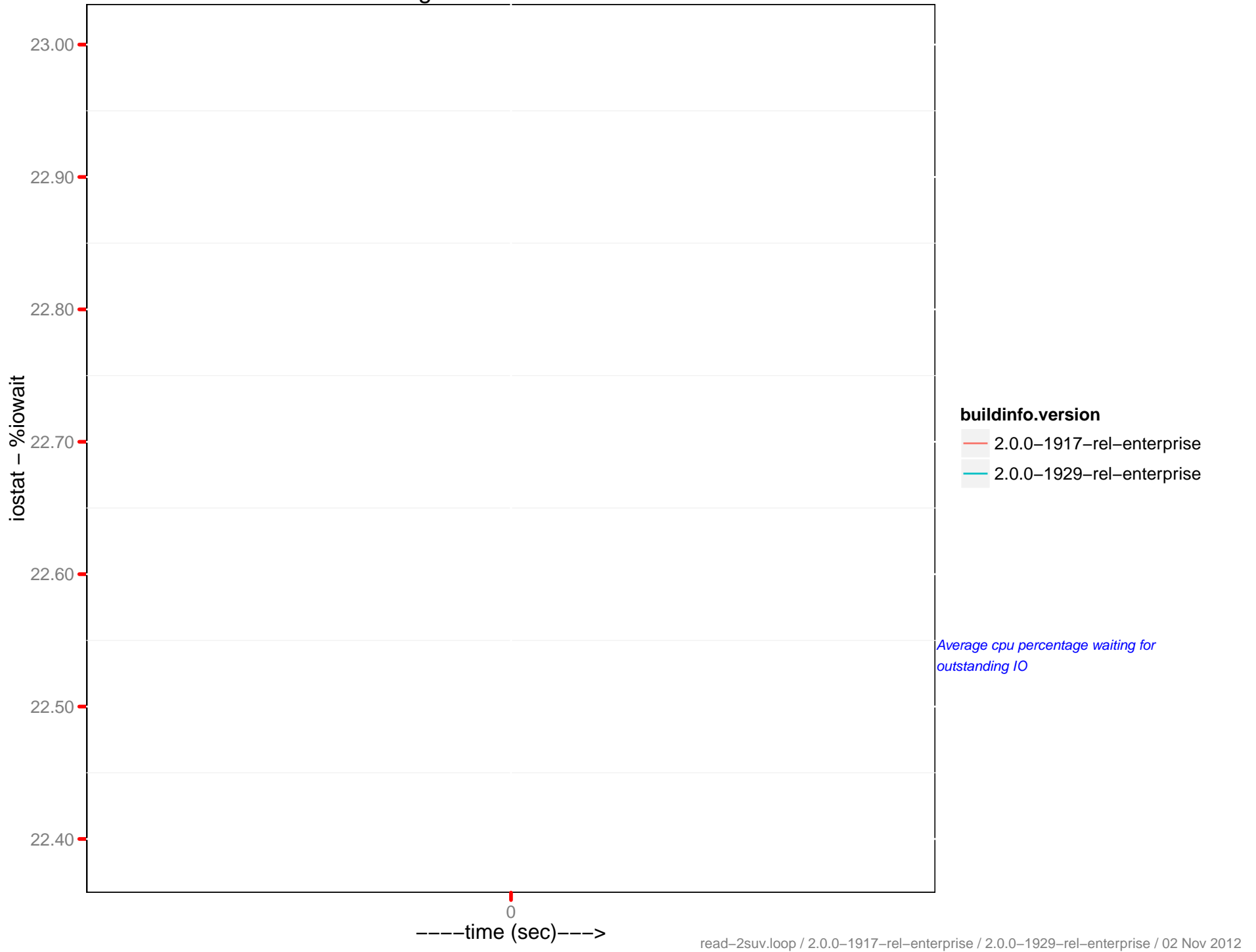
Disk Write (kB/s) : 10.2.1.58



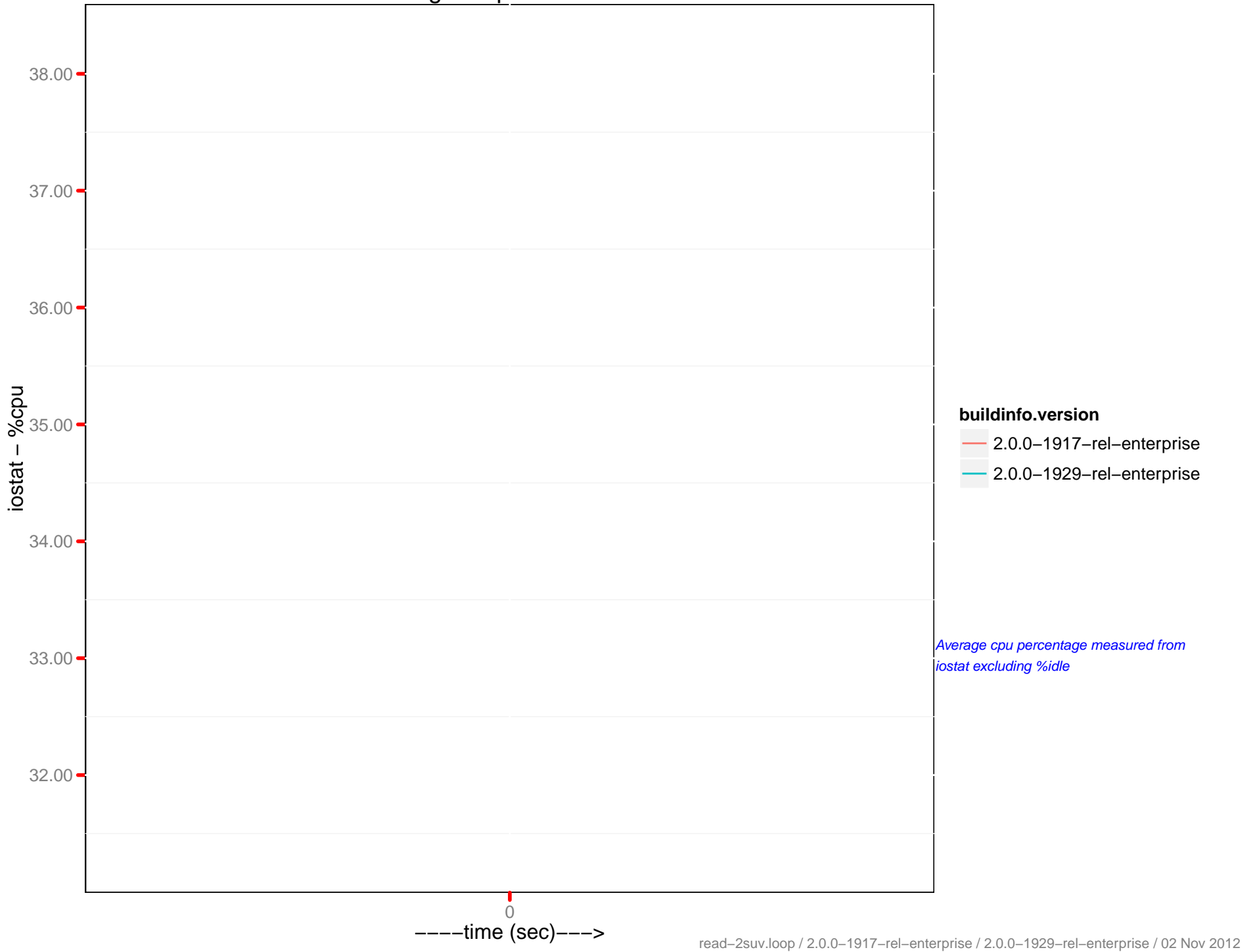
Average %util : 10.2.1.58



Average %iowait : 10.2.1.58



Average %cpu : 10.2.1.58



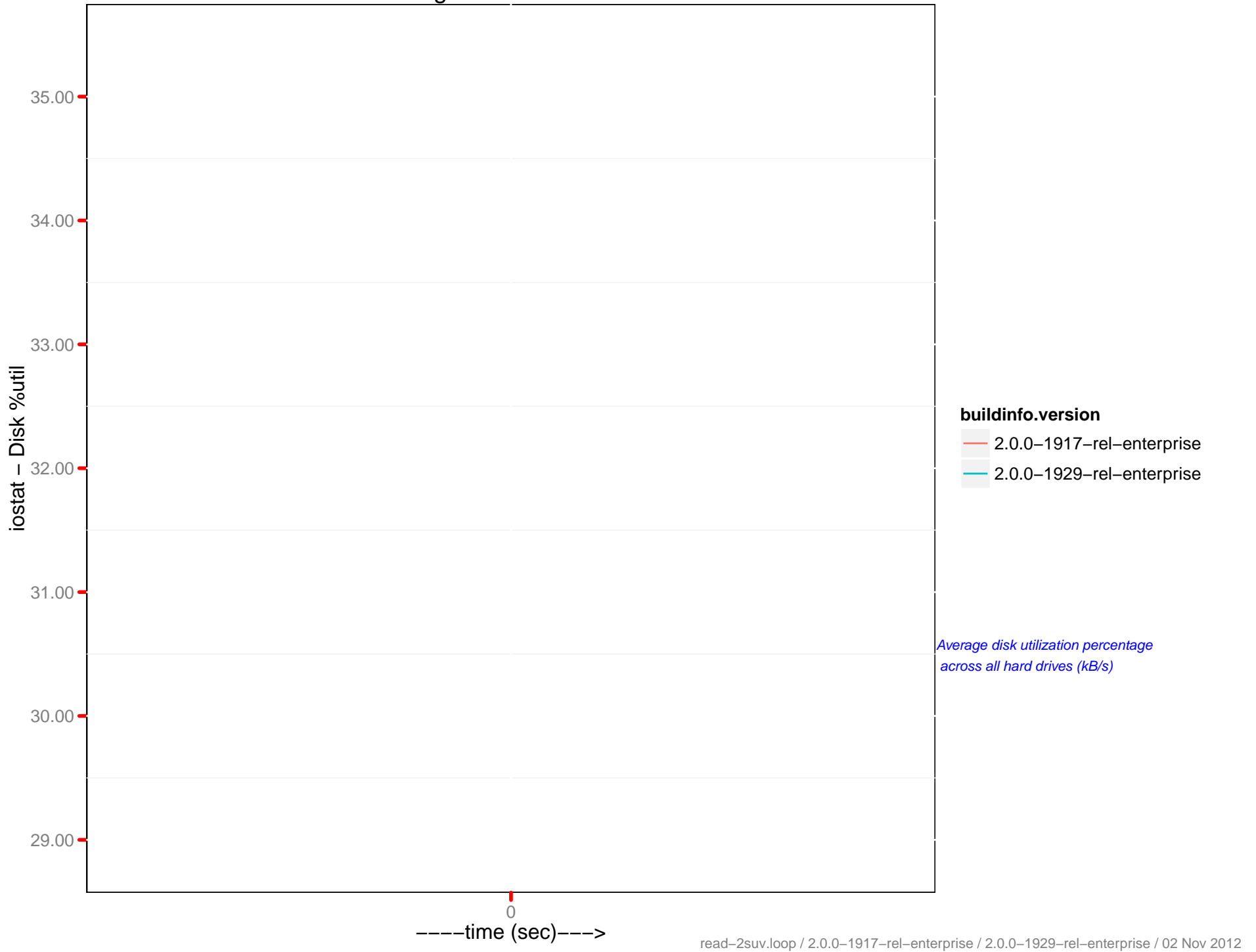
Disk Read (kB/s) : 10.2.1.61



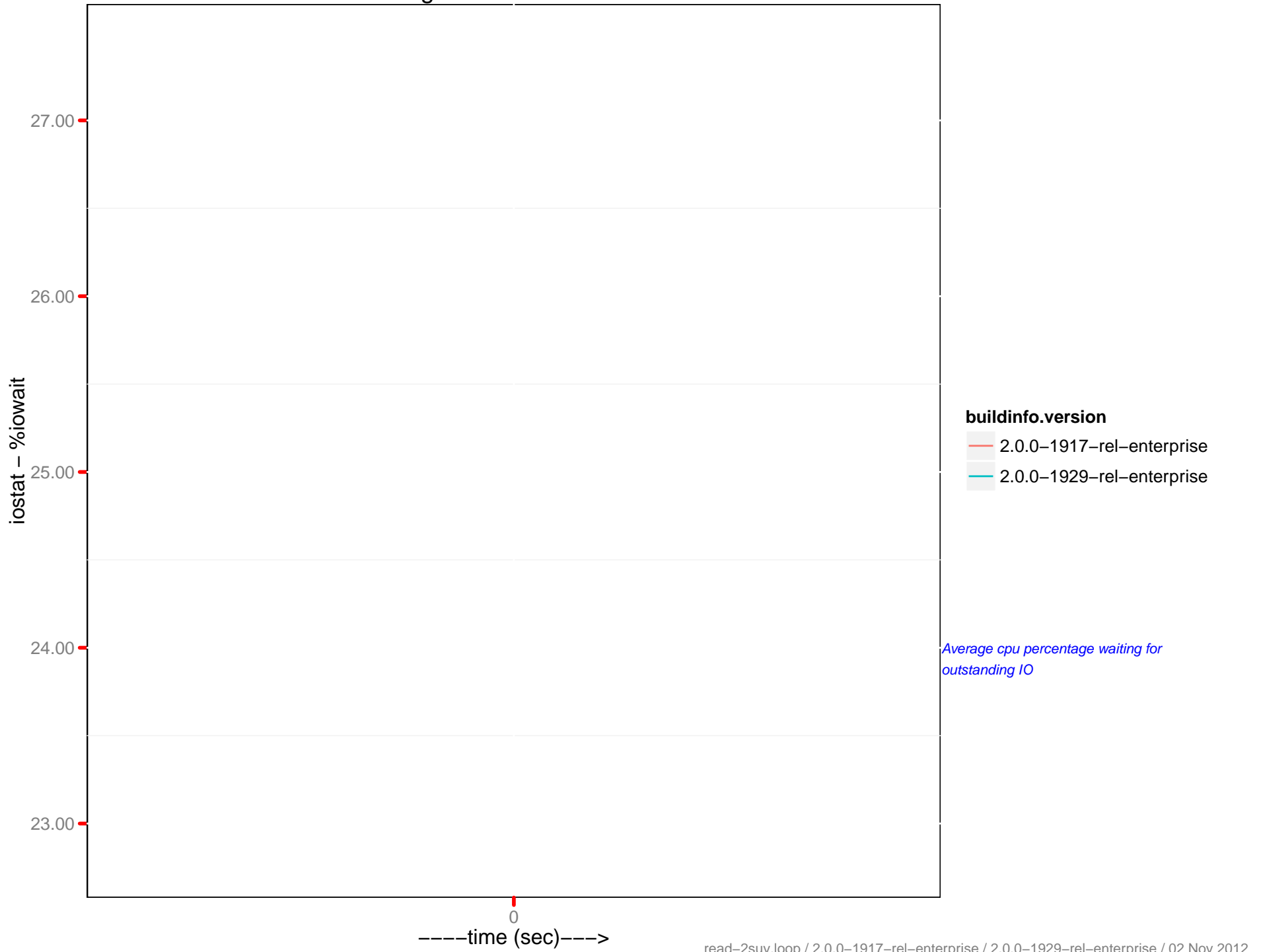
Disk Write (kB/s) : 10.2.1.61



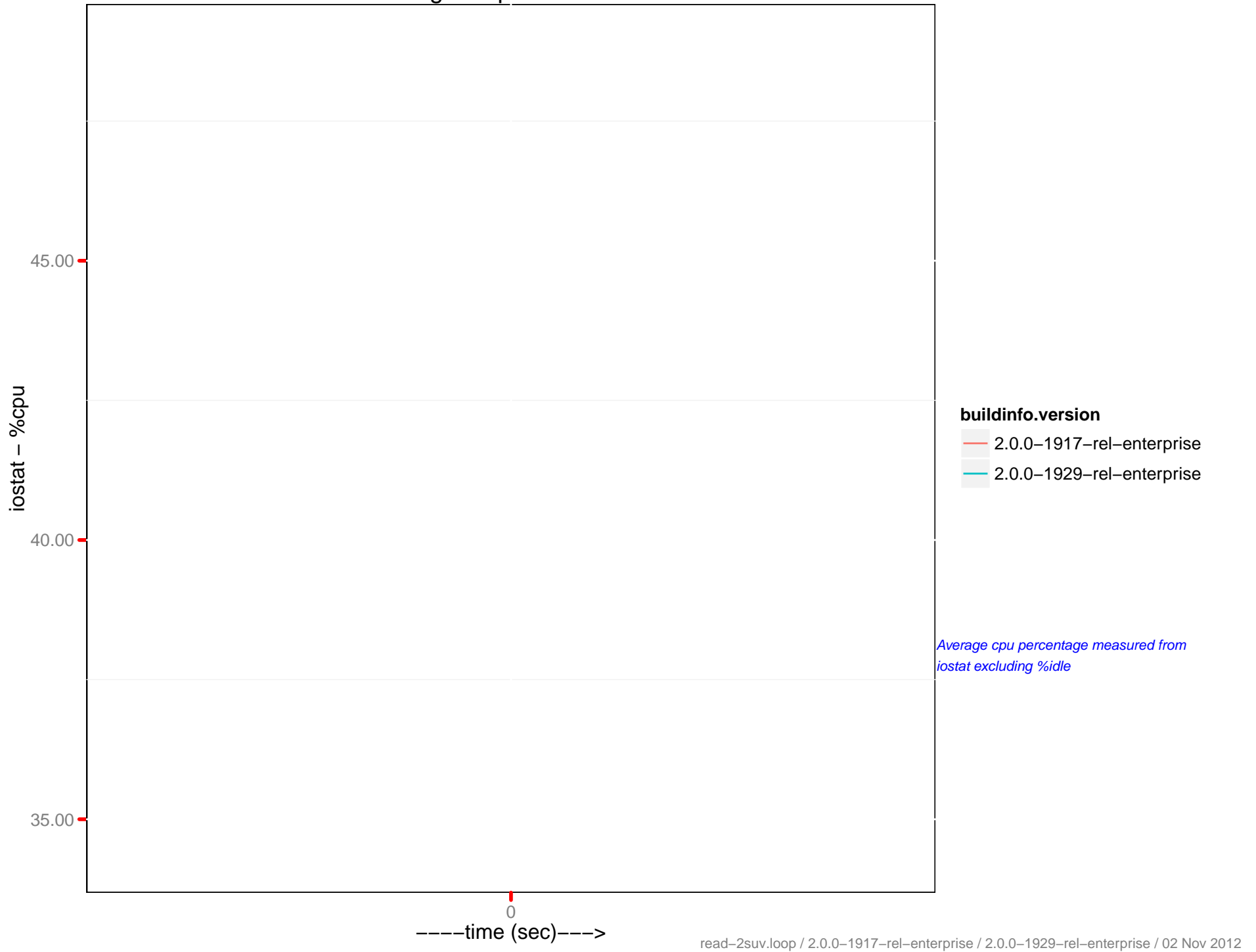
Average %util : 10.2.1.61



Average %iowait : 10.2.1.61



Average %cpu : 10.2.1.61



Disk Read (kB/s) : 10.2.1.63

iostat - Disk Read (kB/s)

buildinfo.version

- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

Disk read across all hard drives (kB/s)

0
----time (sec)---->

Disk Write (kB/s) : 10.2.1.63

iostat - Disk Write (kB/s)

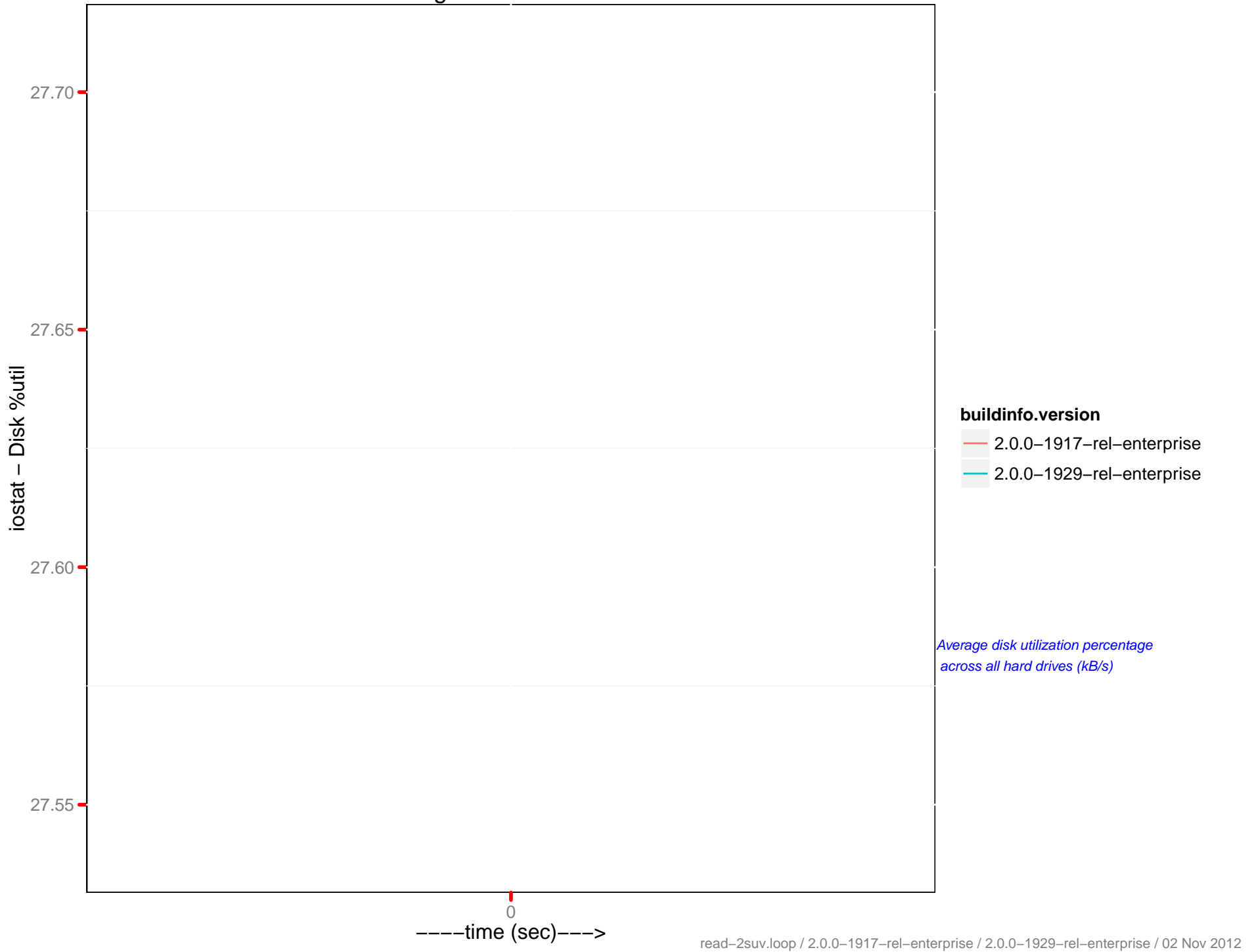
buildinfo.version

- 2.0.0-1917-rel-enterprise
- 2.0.0-1929-rel-enterprise

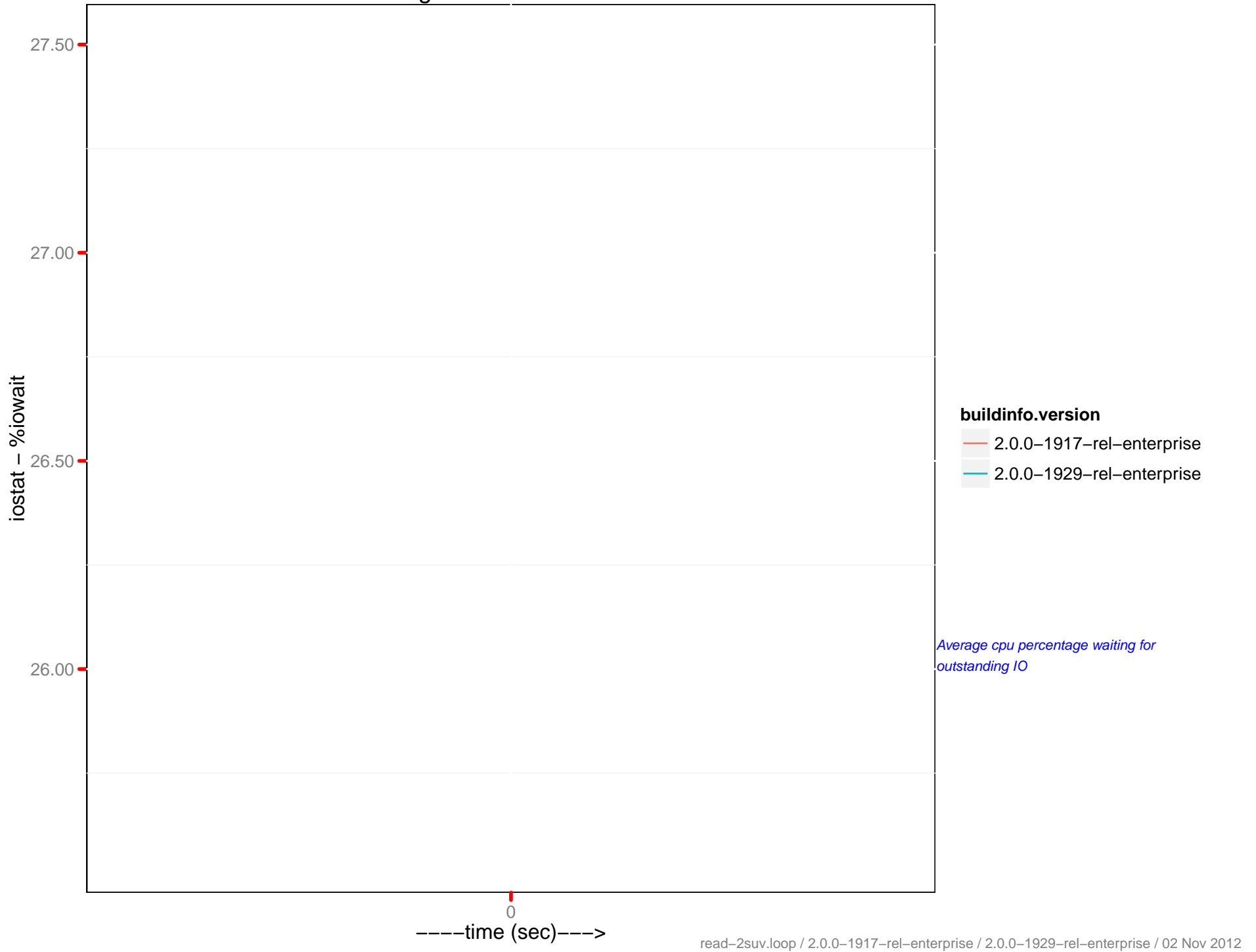
Disk write across all hard drives (kB/s)

0
----time (sec)---->

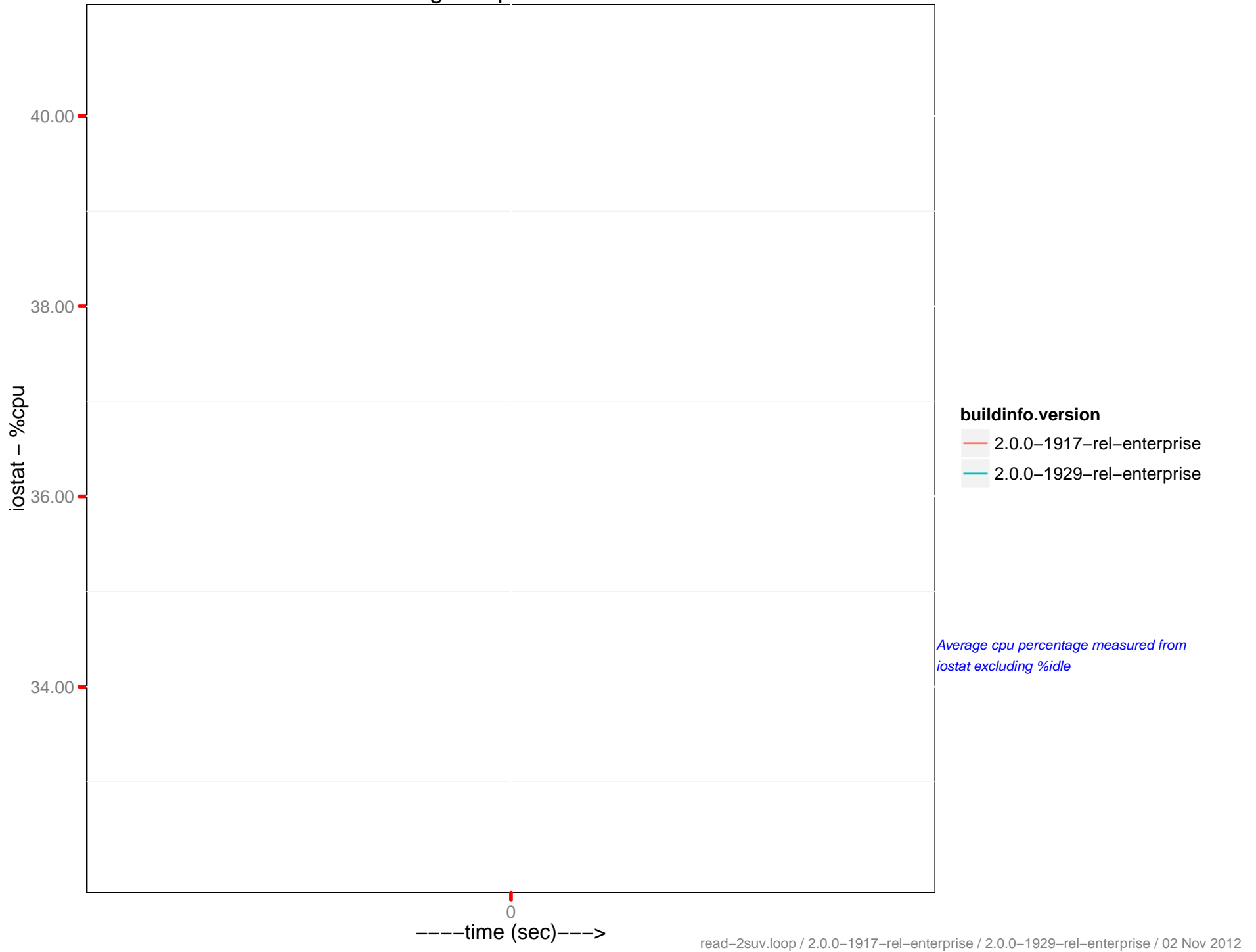
Average %util : 10.2.1.63



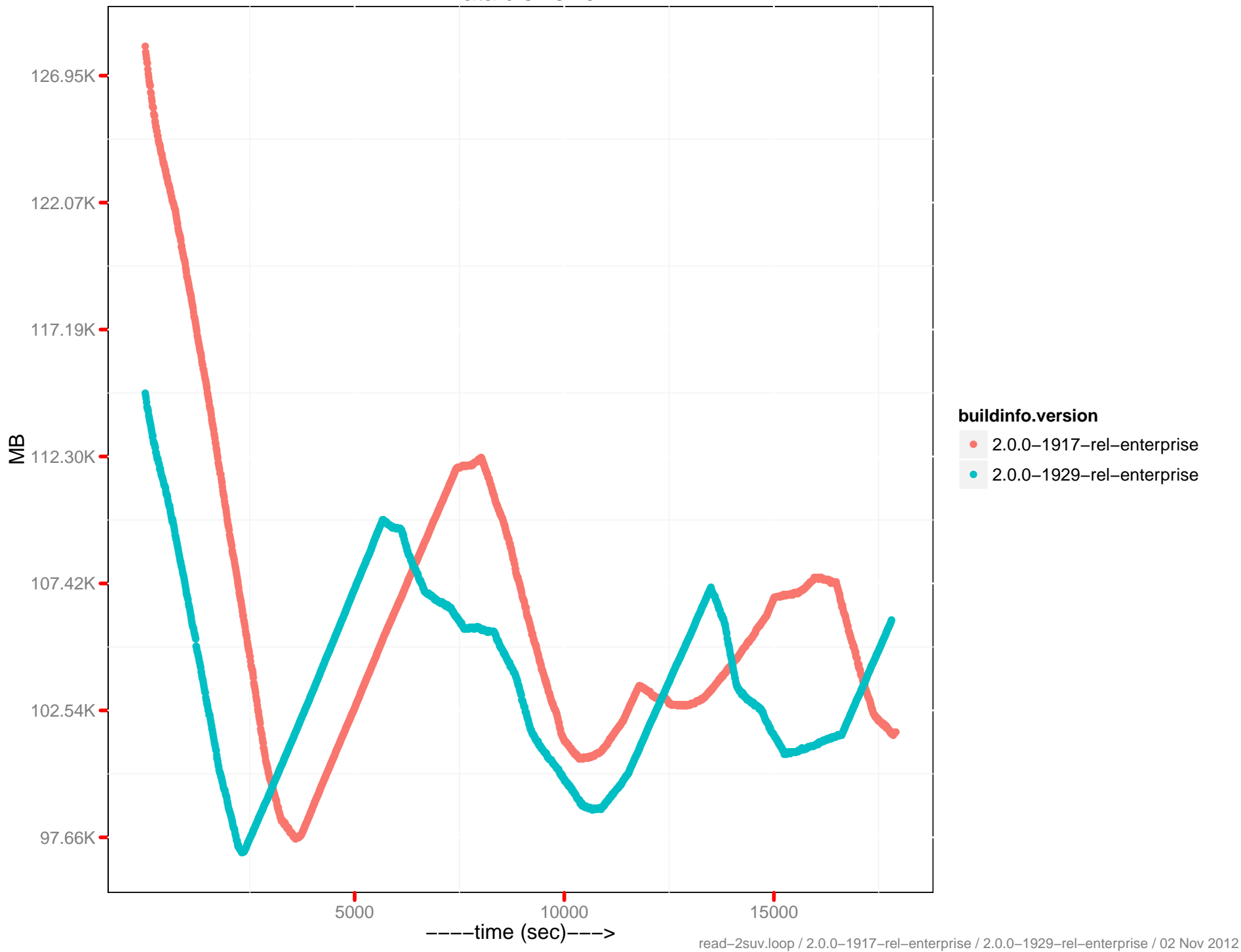
Average %iowait : 10.2.1.63



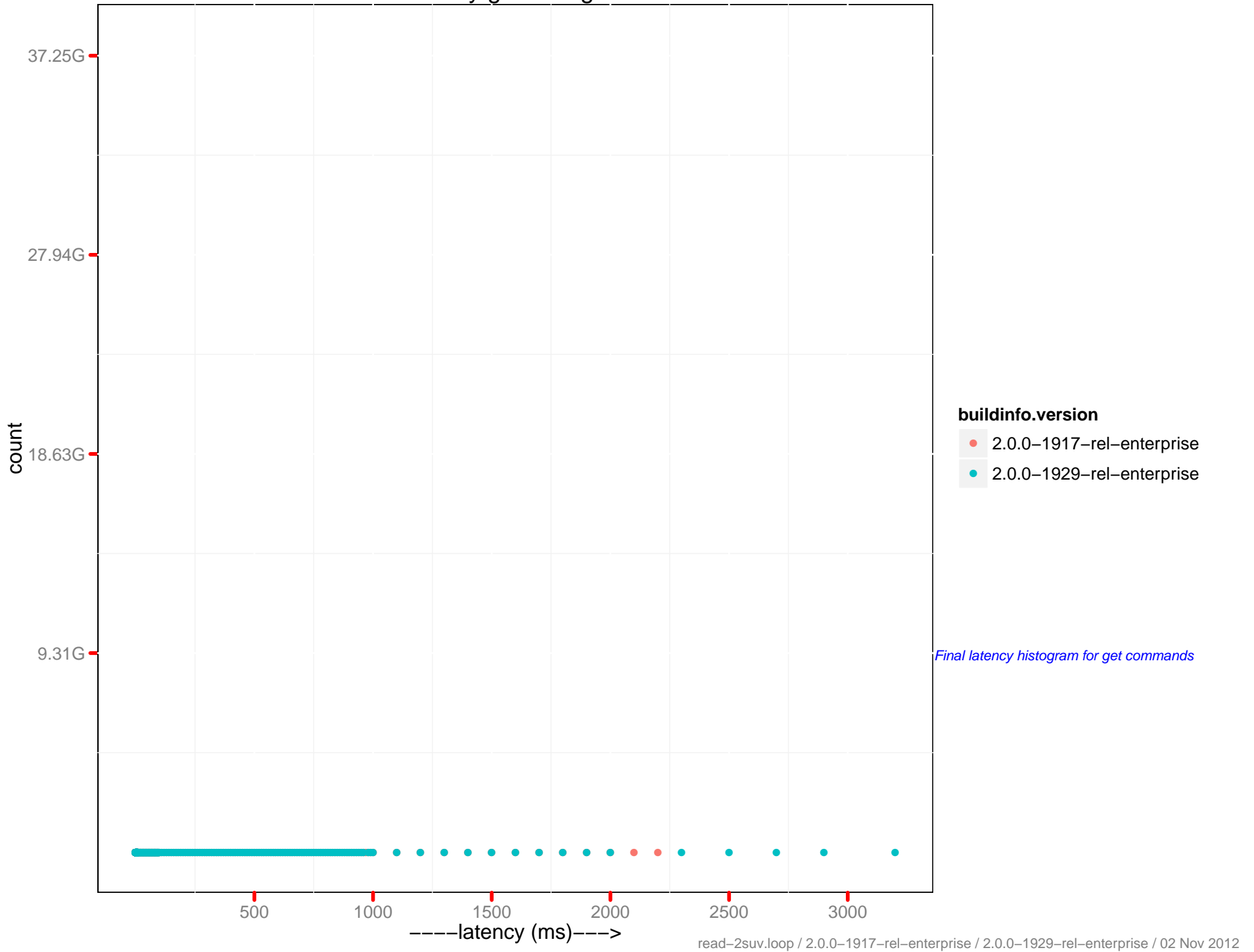
Average %cpu : 10.2.1.63



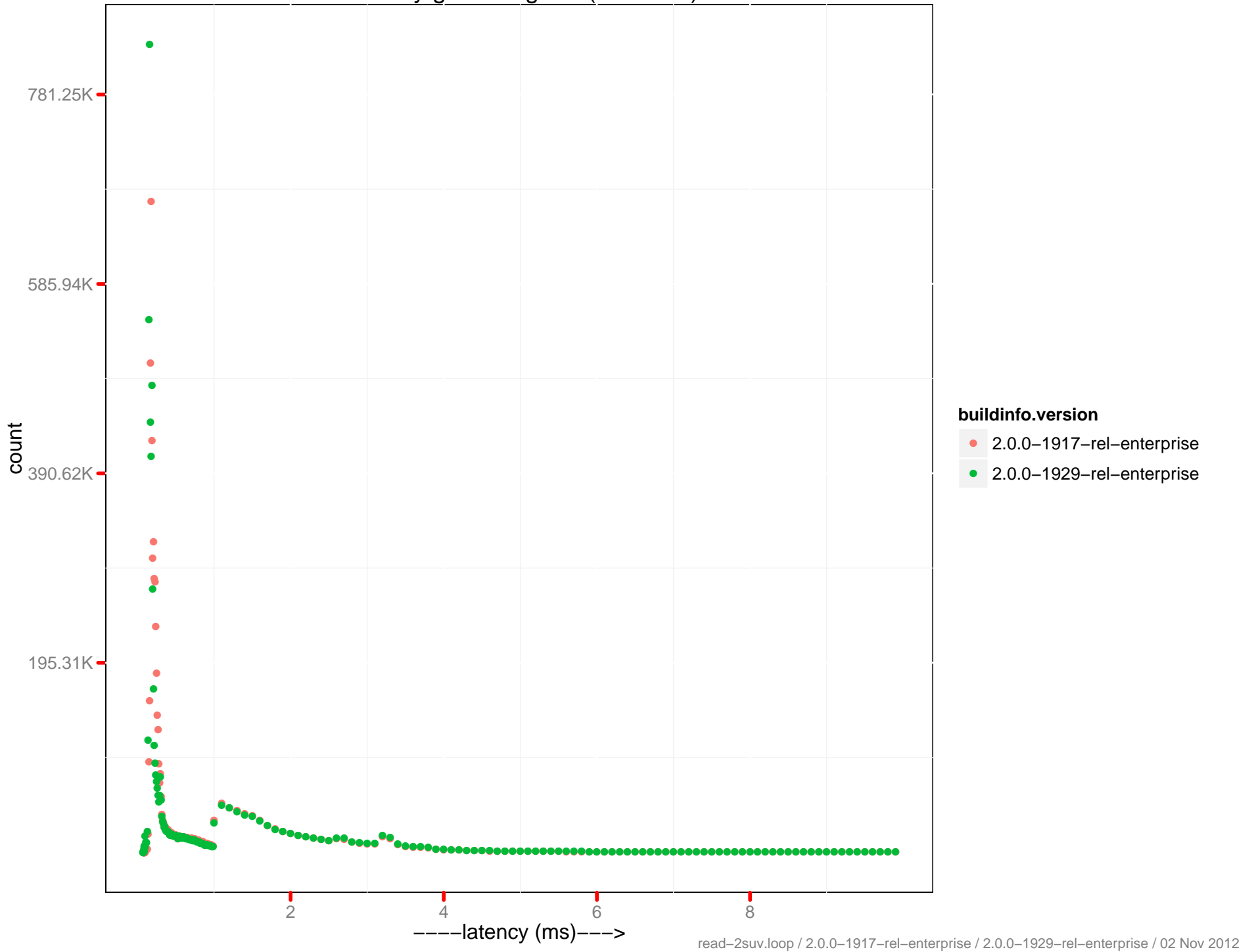
Data disk size



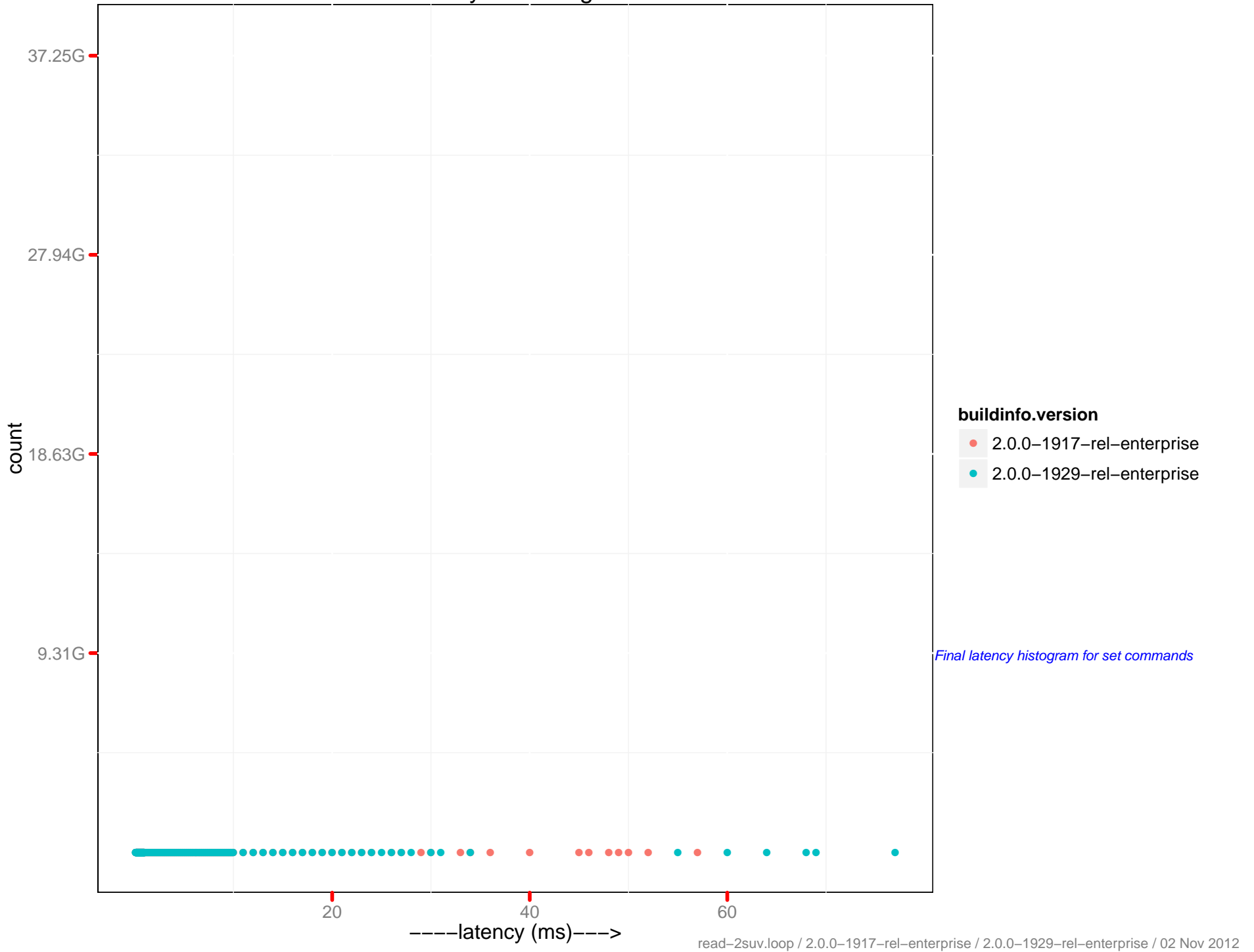
Latency get histogram



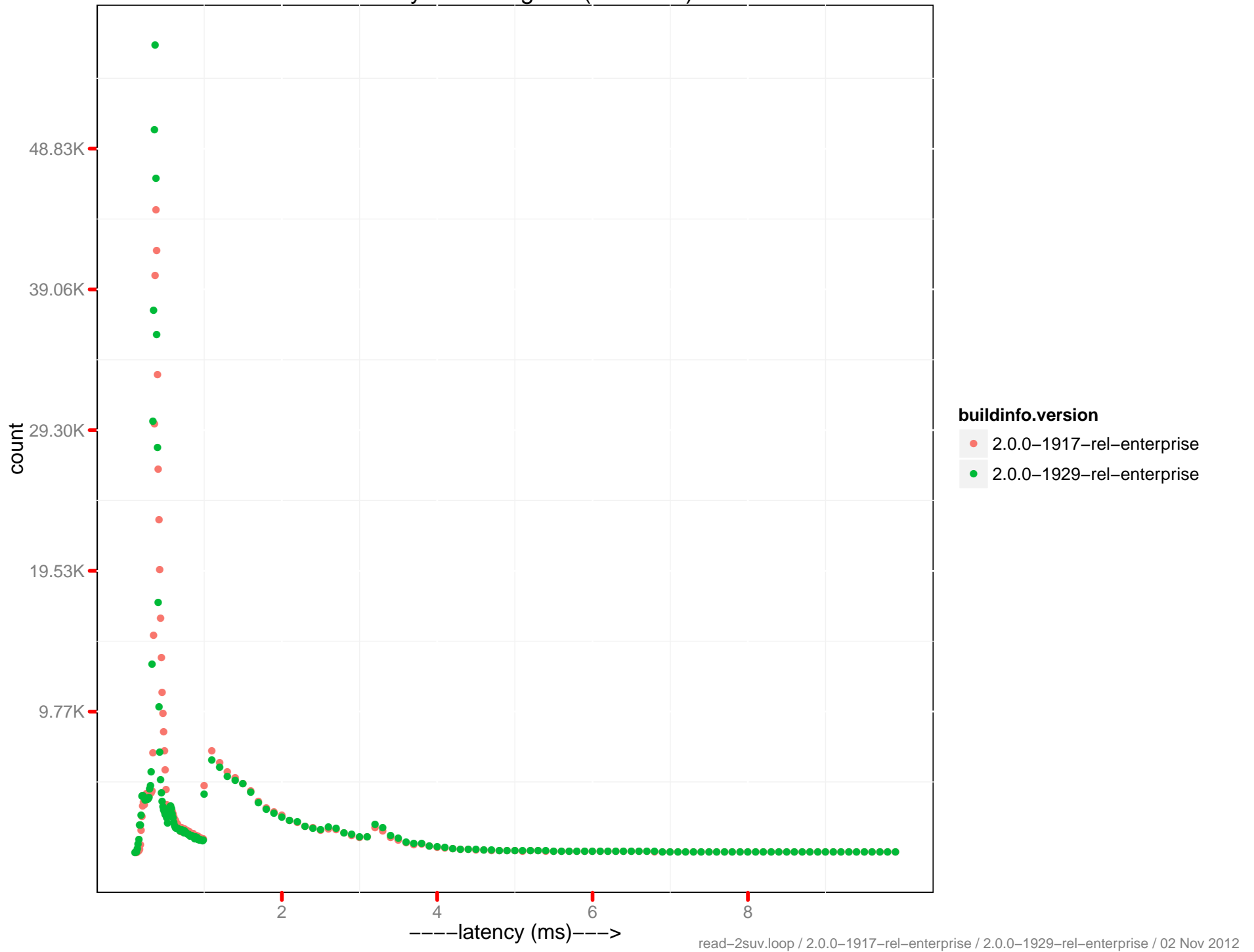
Latency get histogram (0–10 ms)



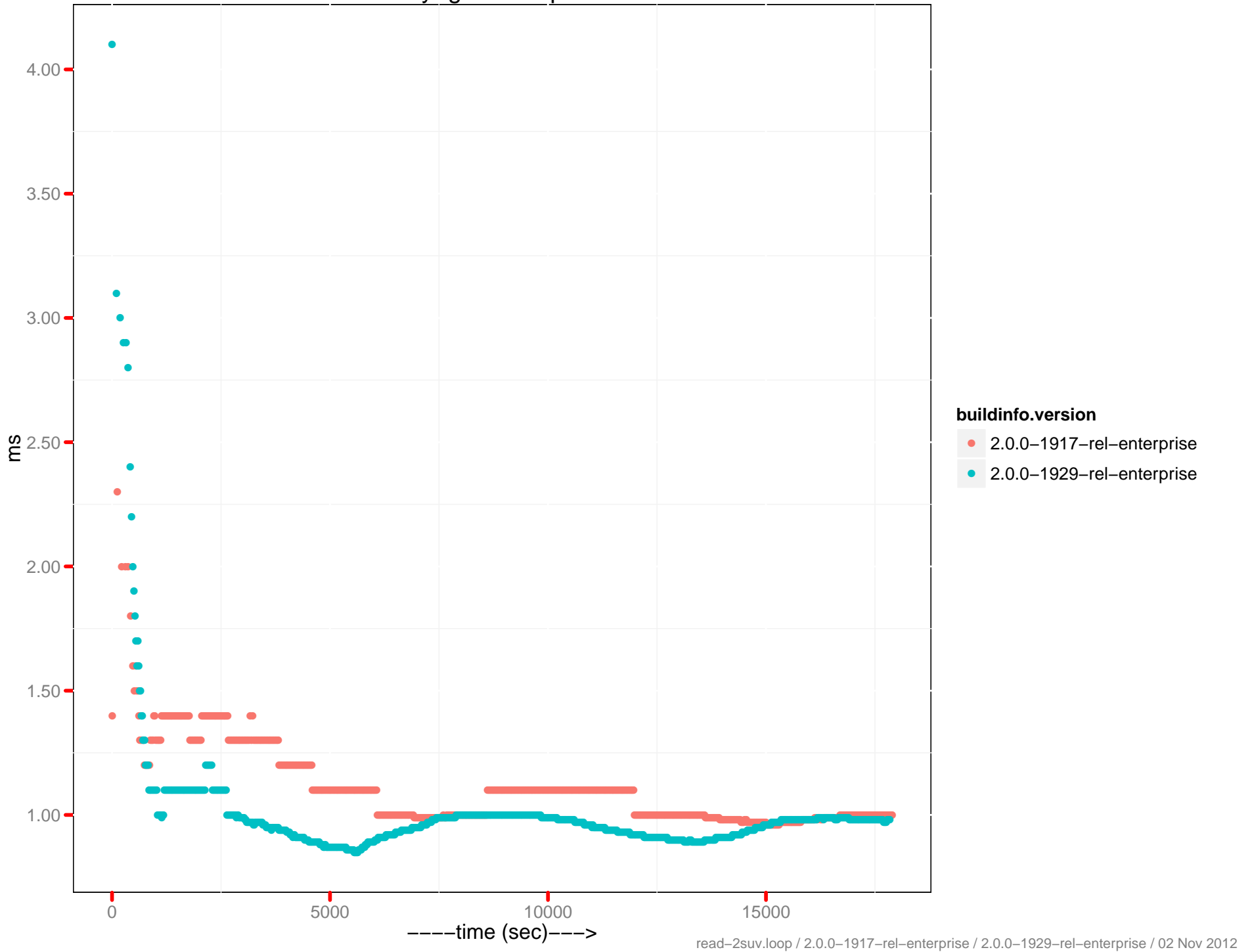
Latency set histogram



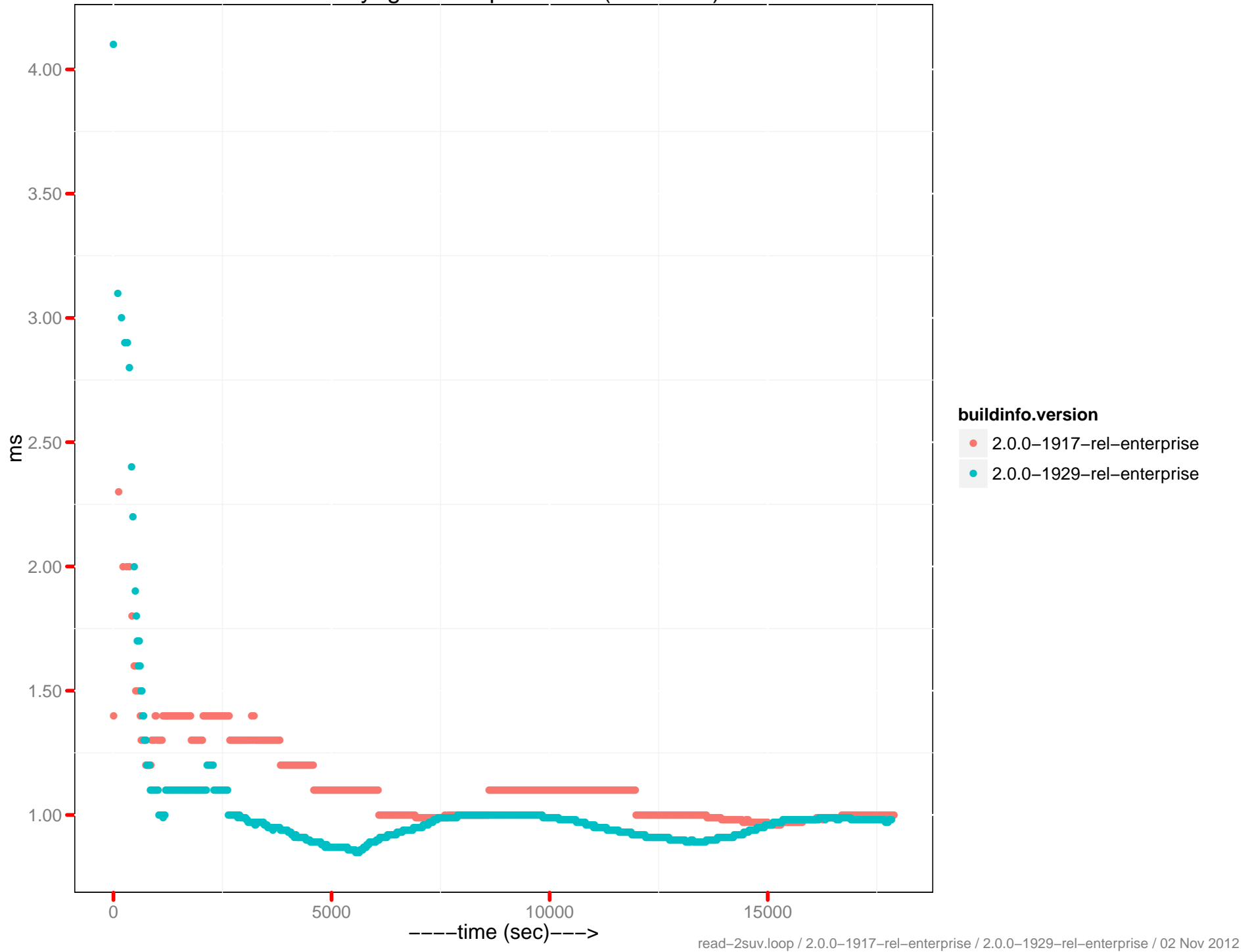
Latency set histogram (0–10 ms)



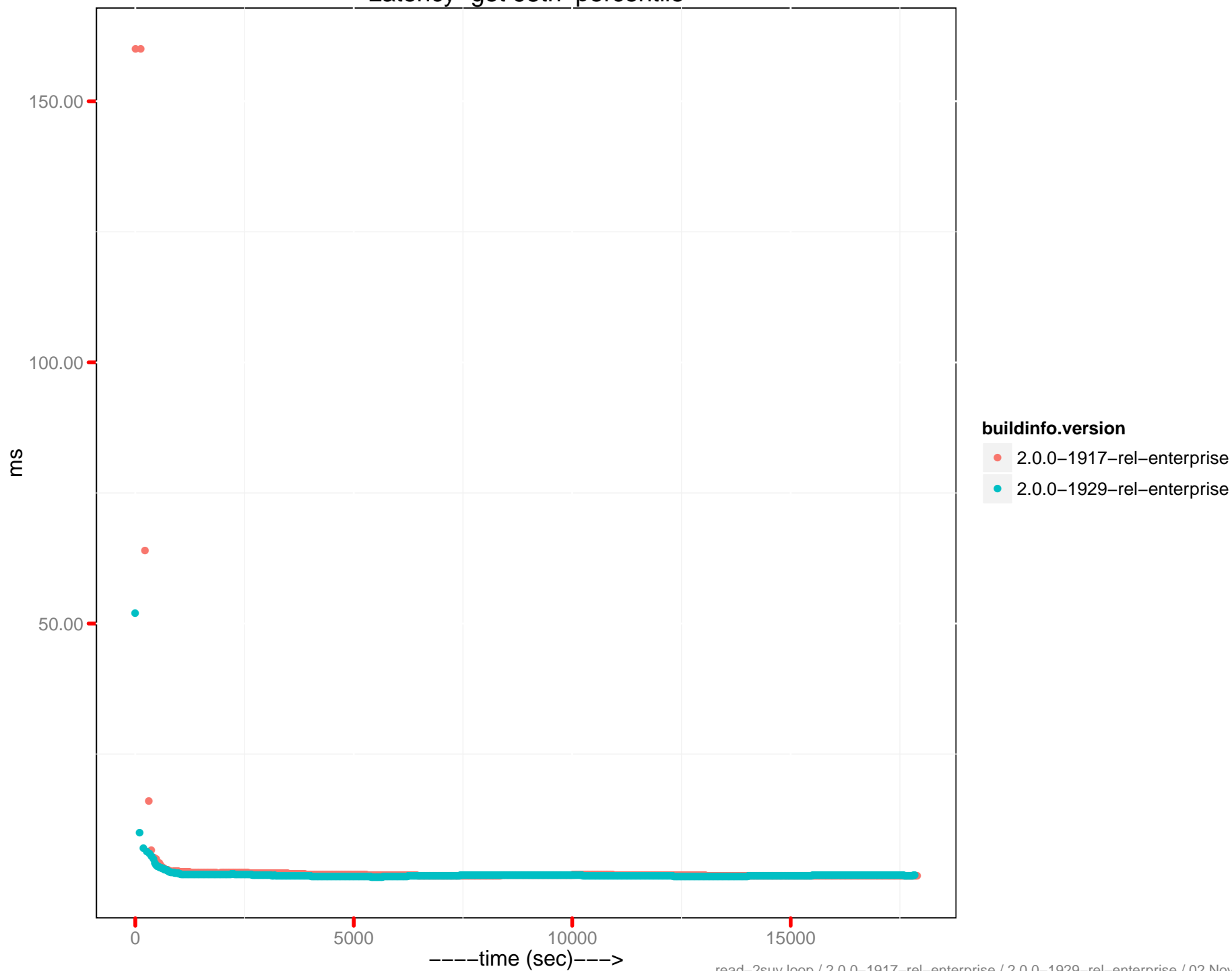
Latency-get 90th percentile



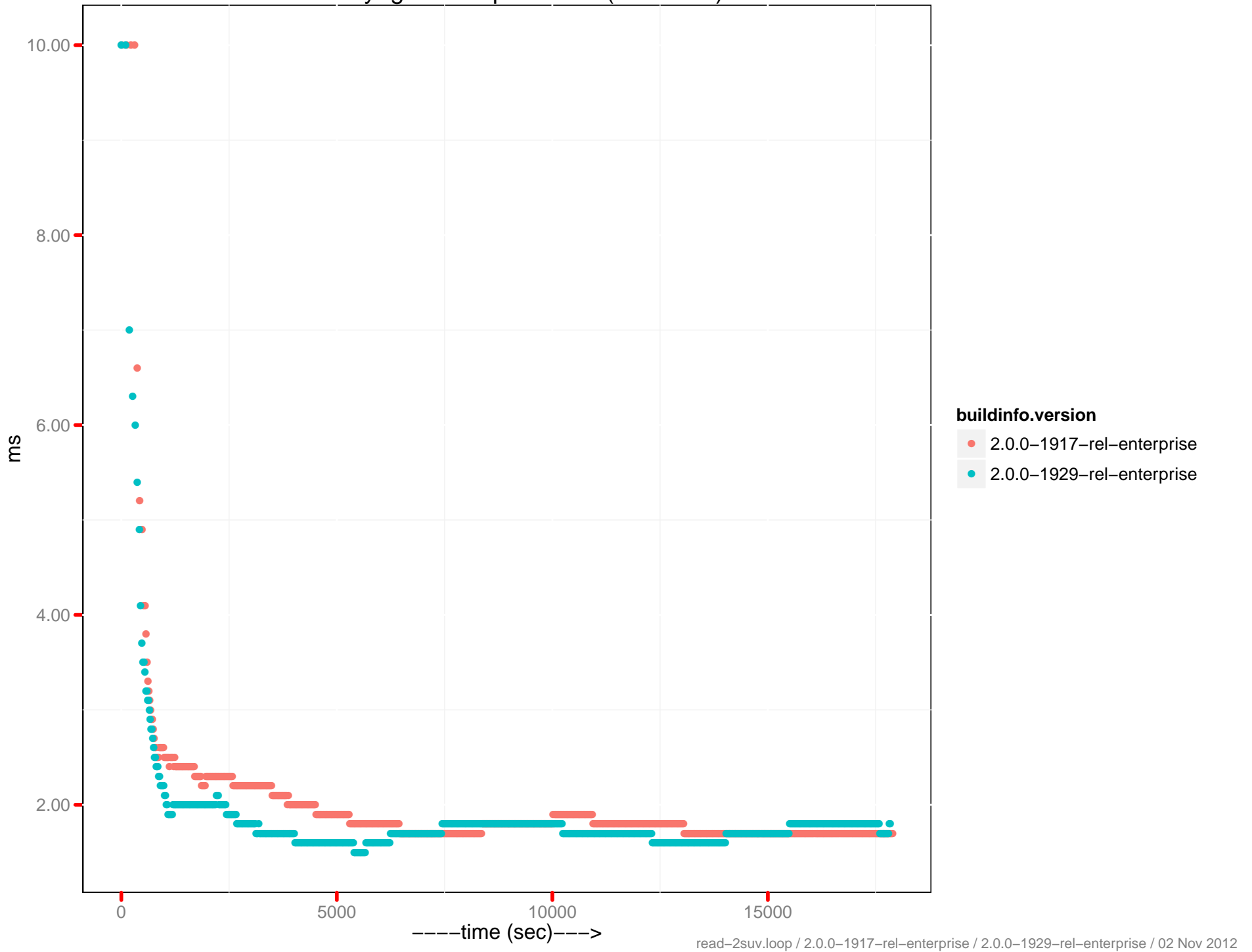
Latency-get 90th percentile (0 - 10ms)



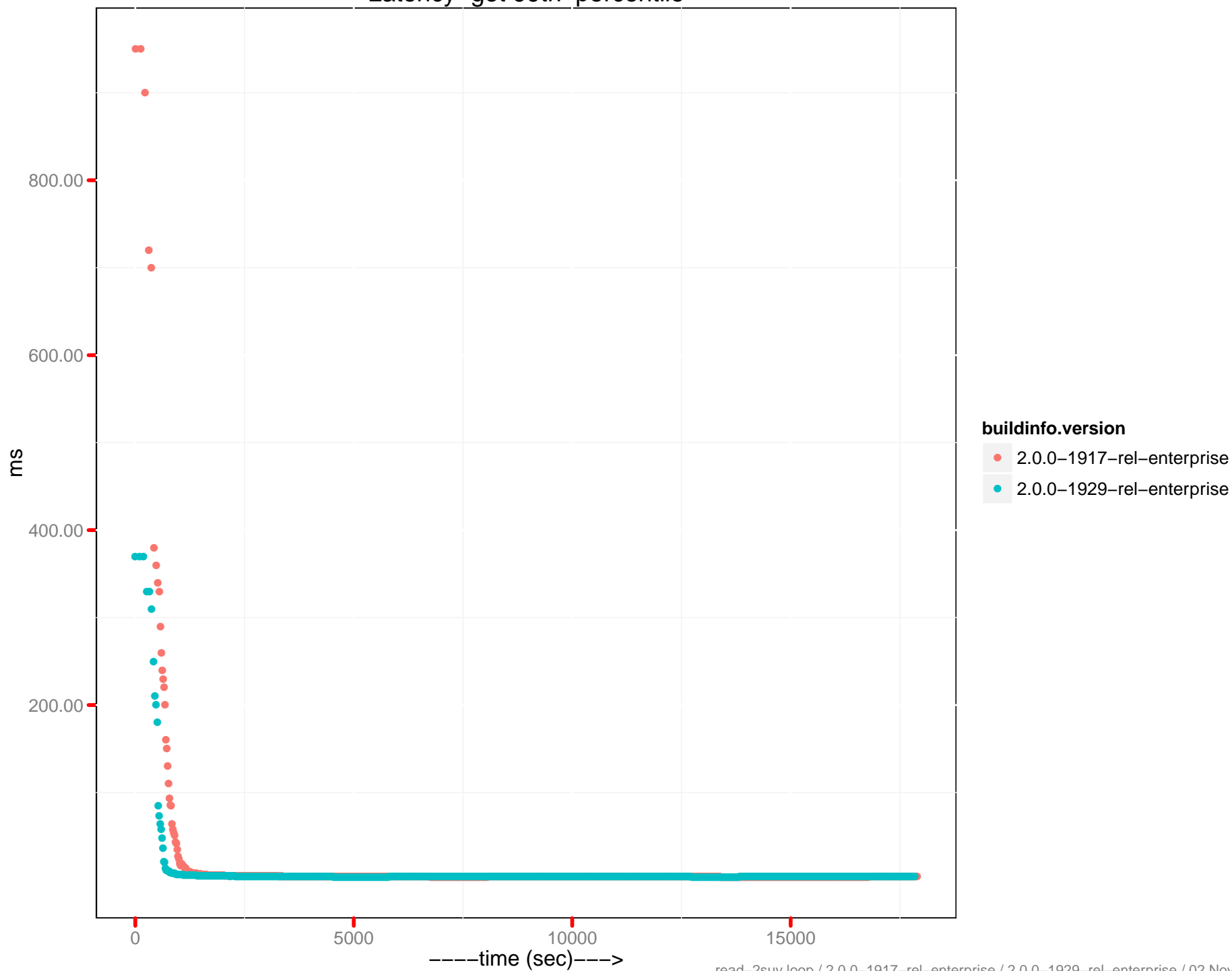
Latency-get 95th percentile



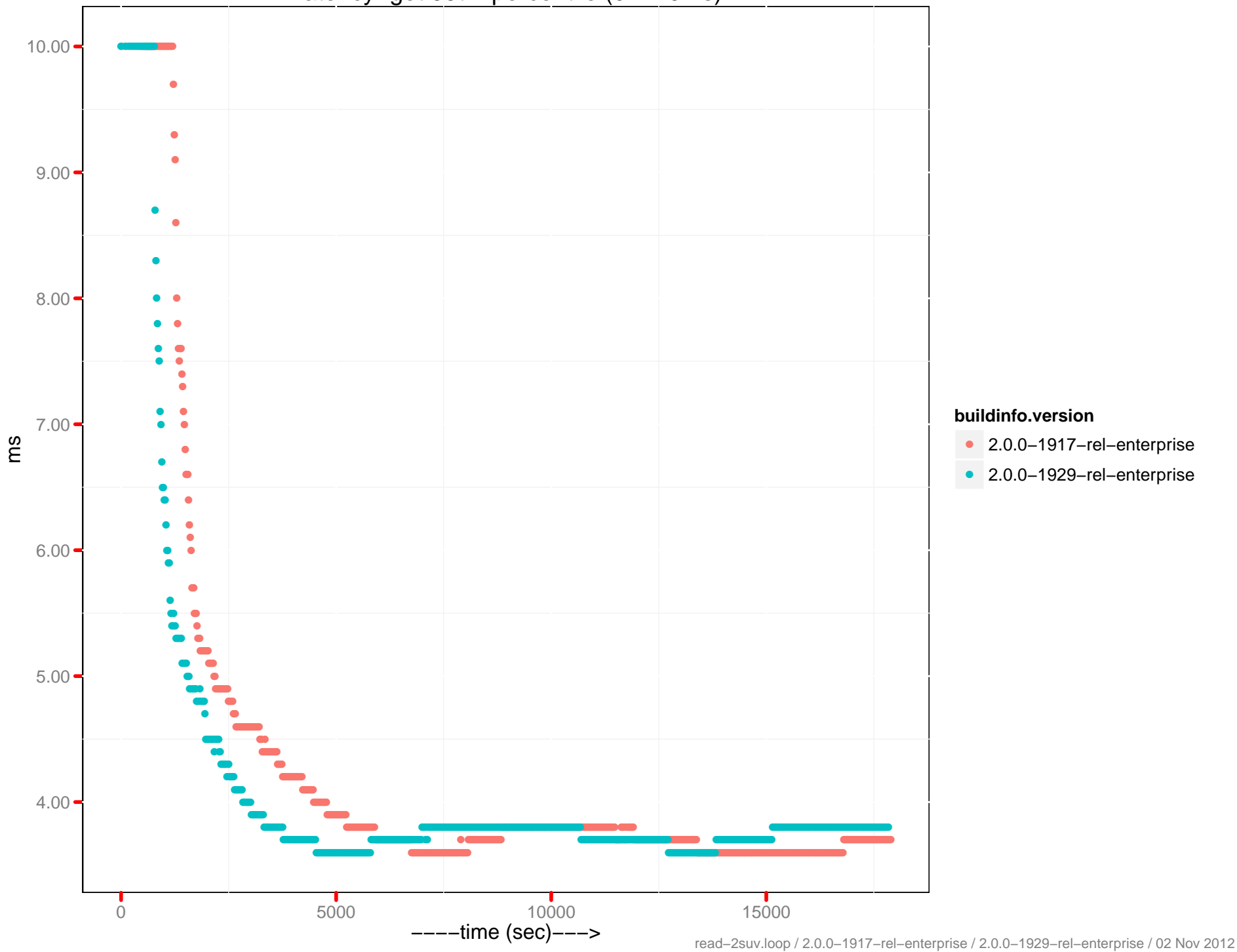
Latency-get 95th percentile (0 - 10ms)



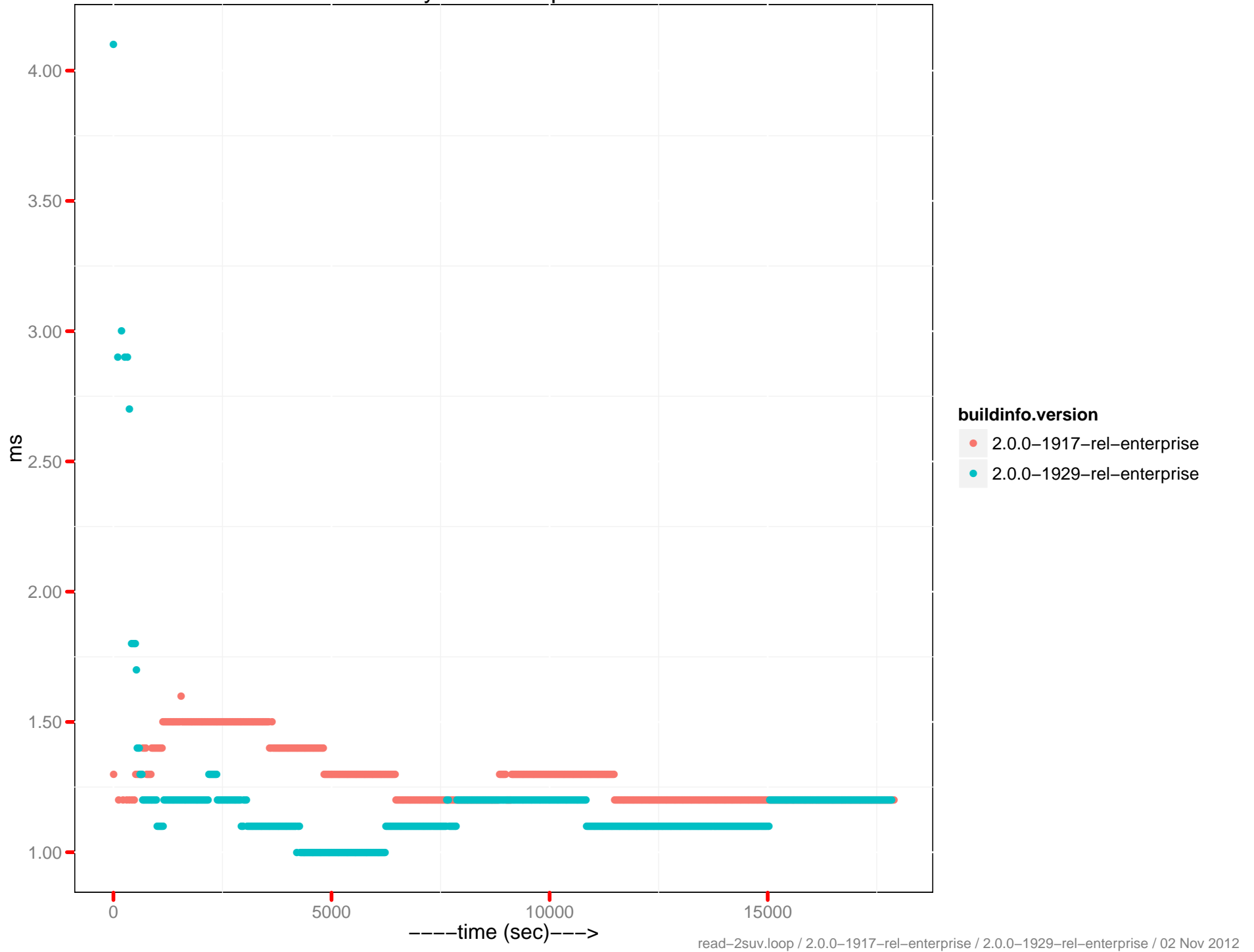
Latency-get 99th percentile



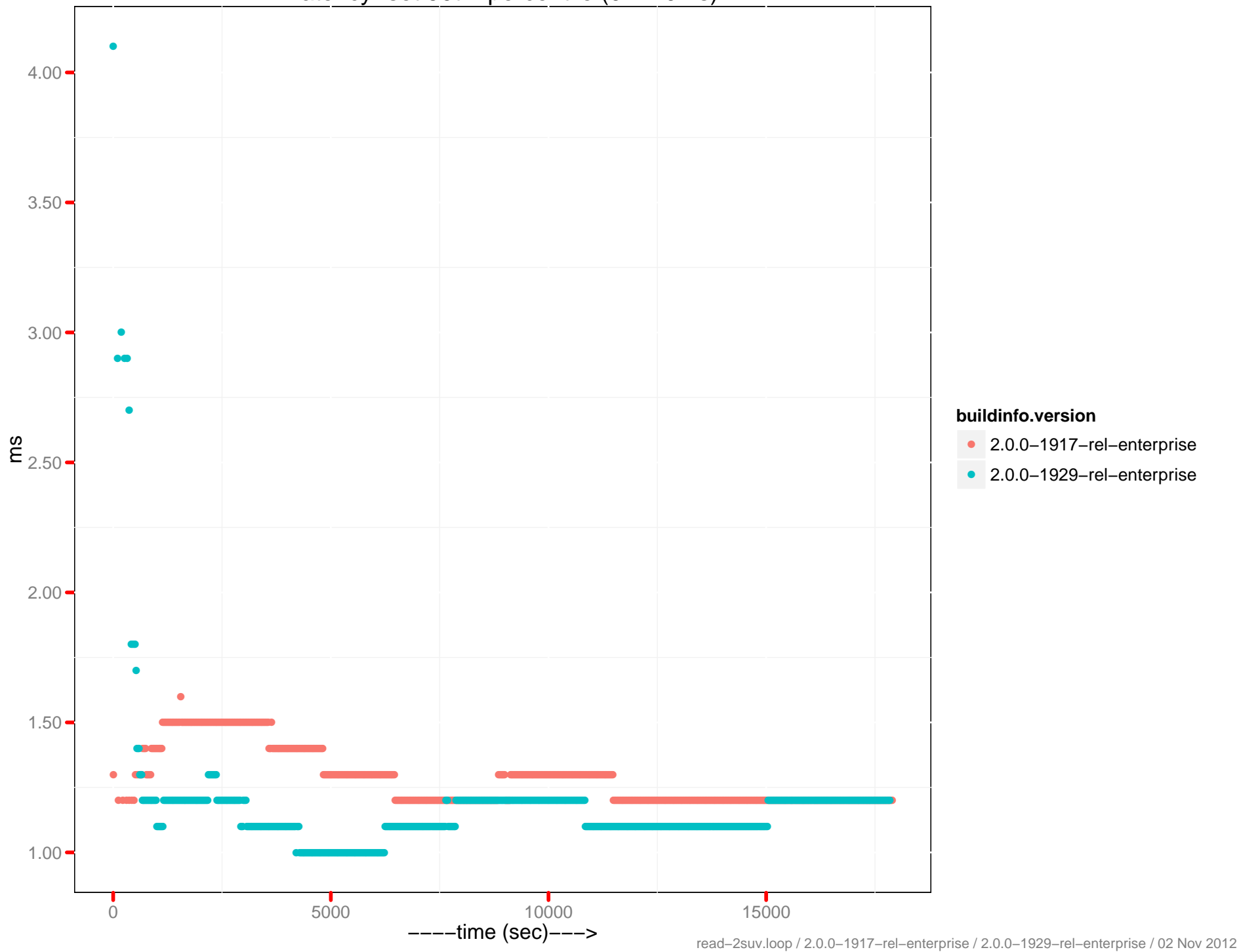
Latency-get 99th percentile (0 - 10ms)



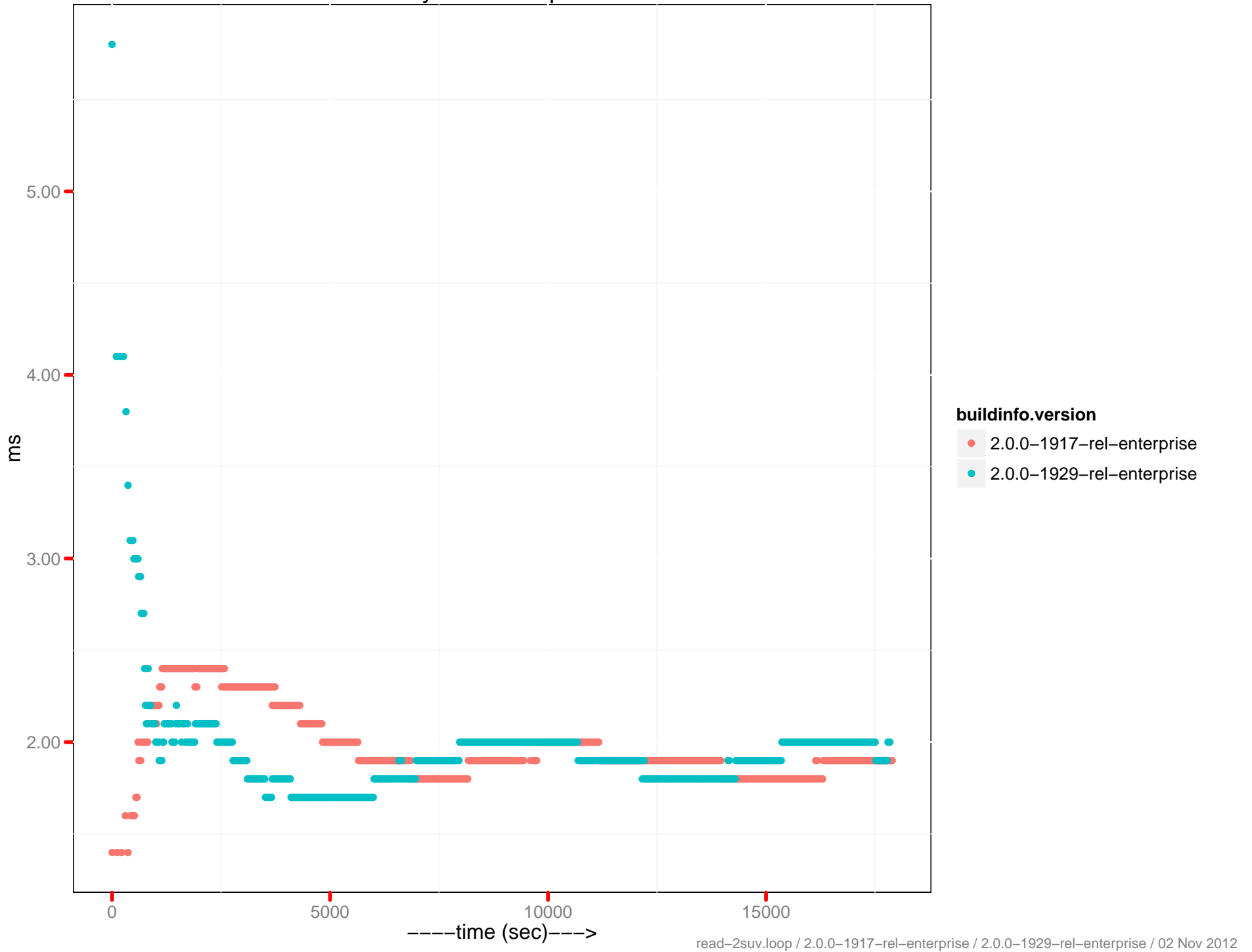
Latency-set 90th percentile



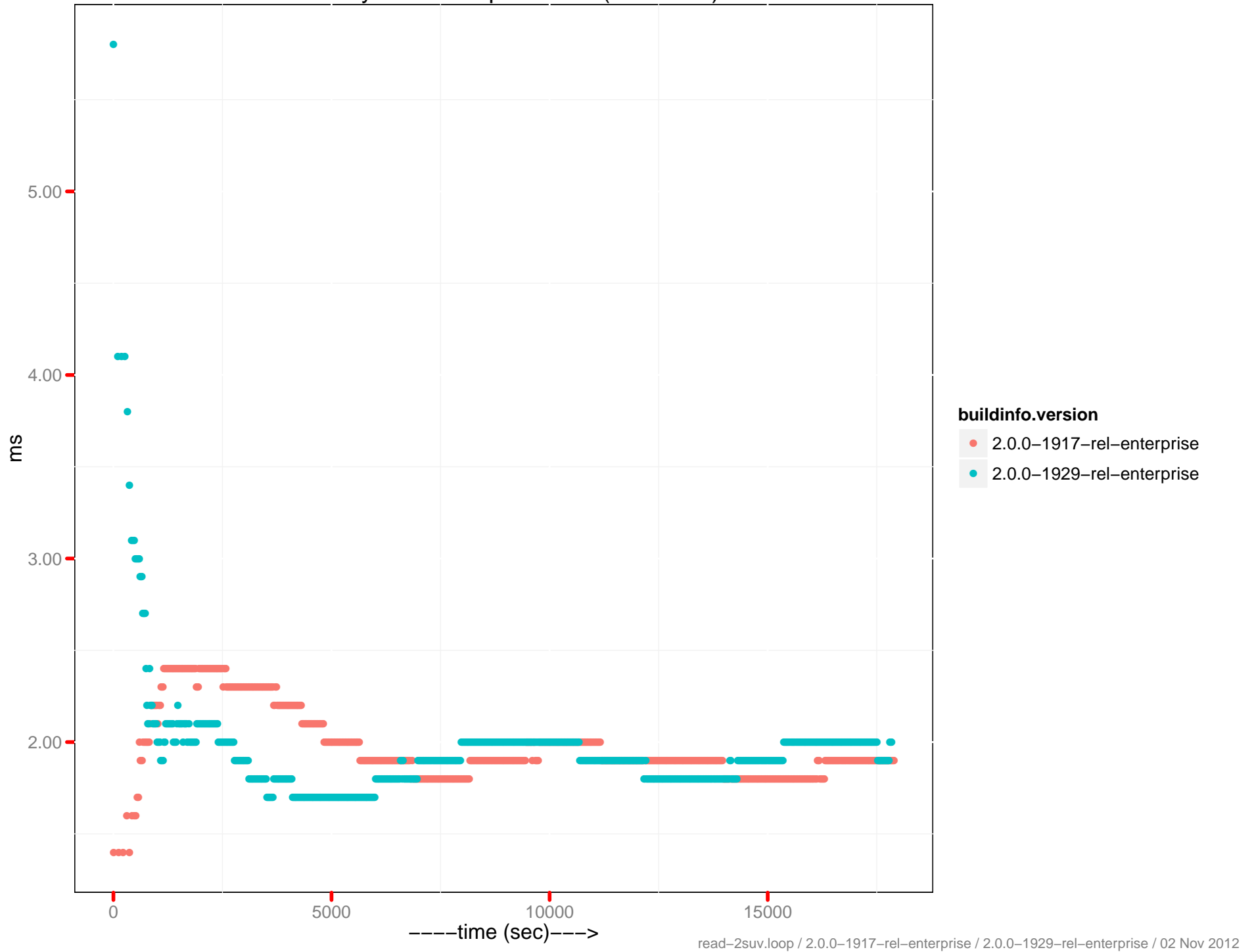
Latency-set 90th percentile (0 - 10ms)



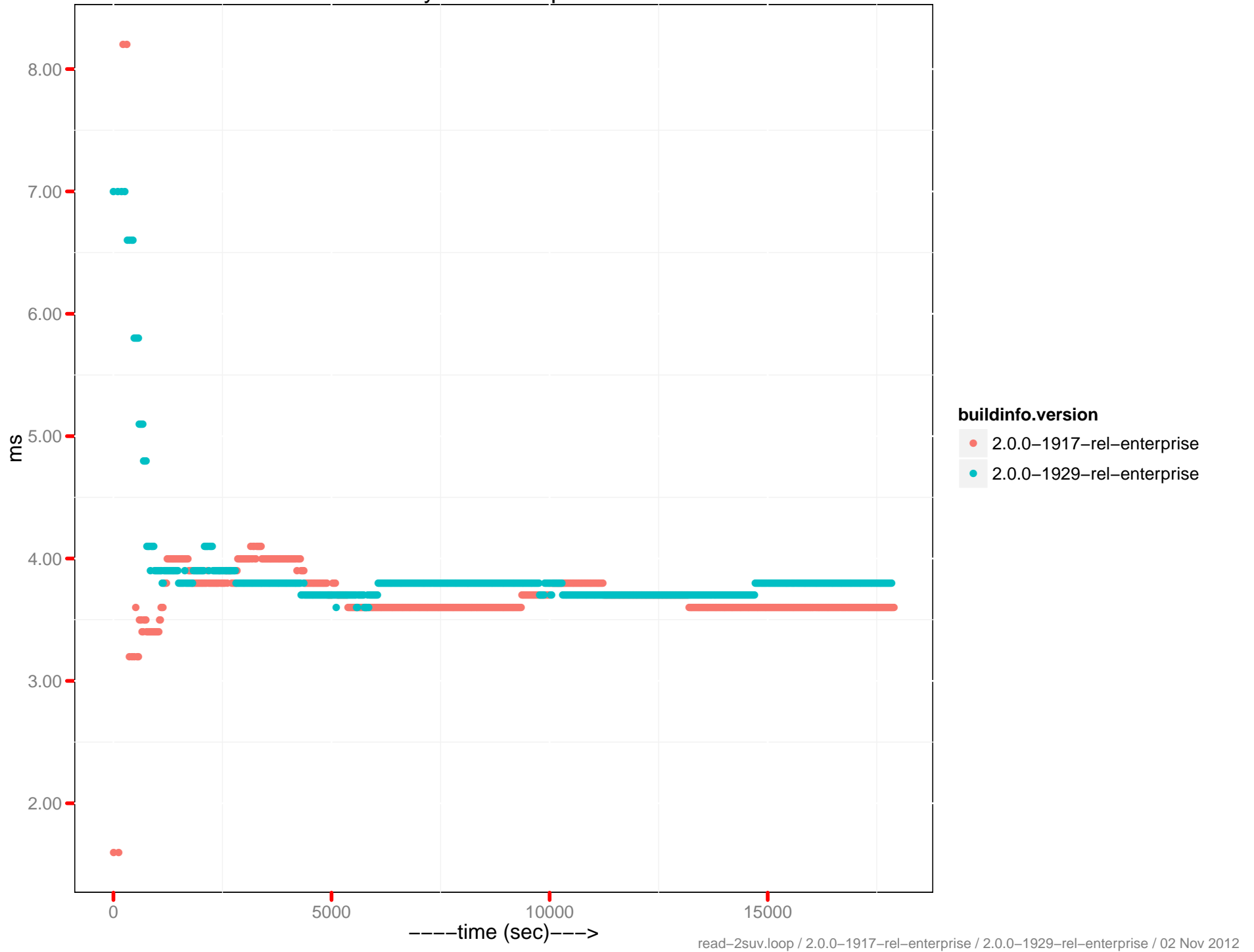
Latency-set 95th percentile



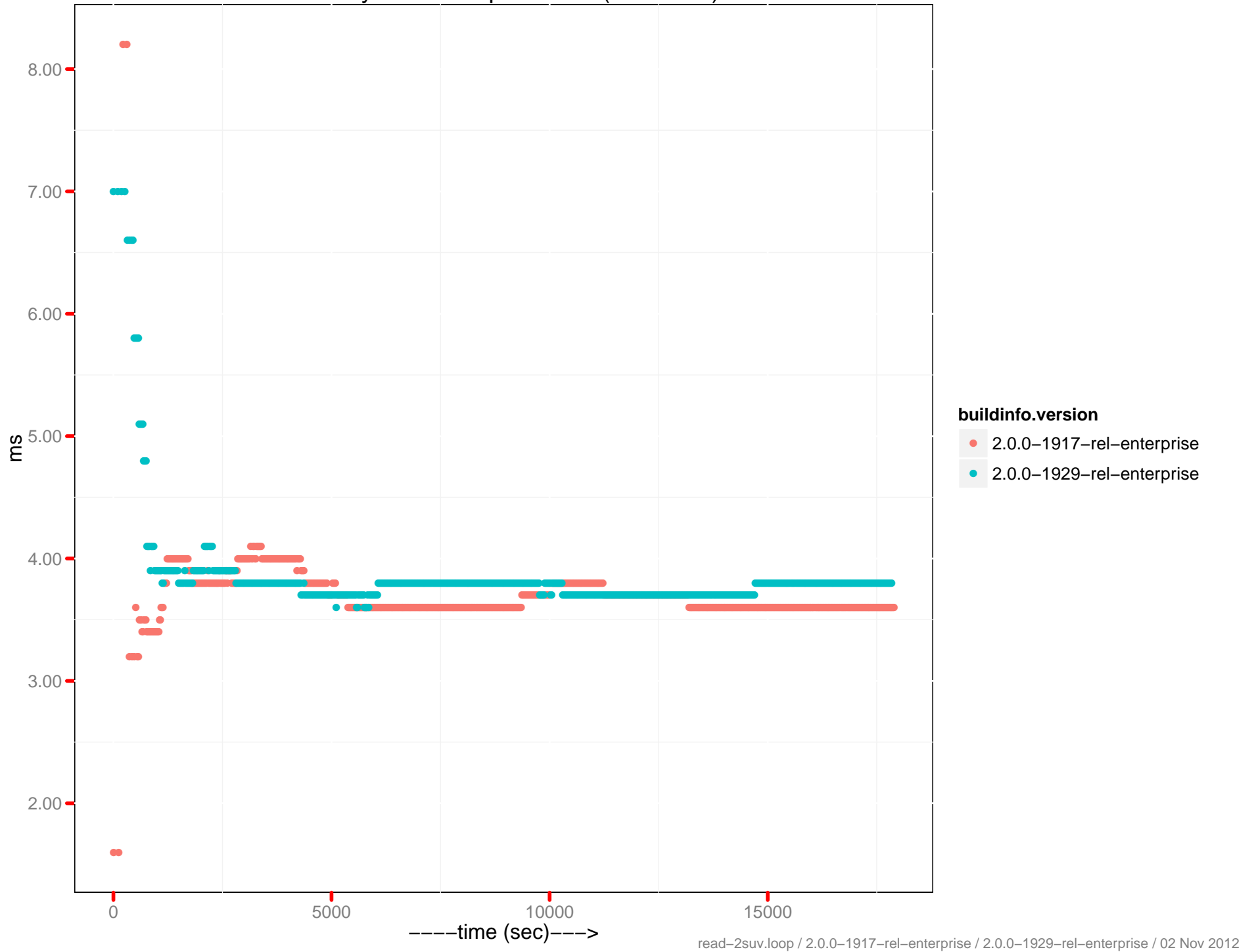
Latency-set 95th percentile (0 - 10ms)



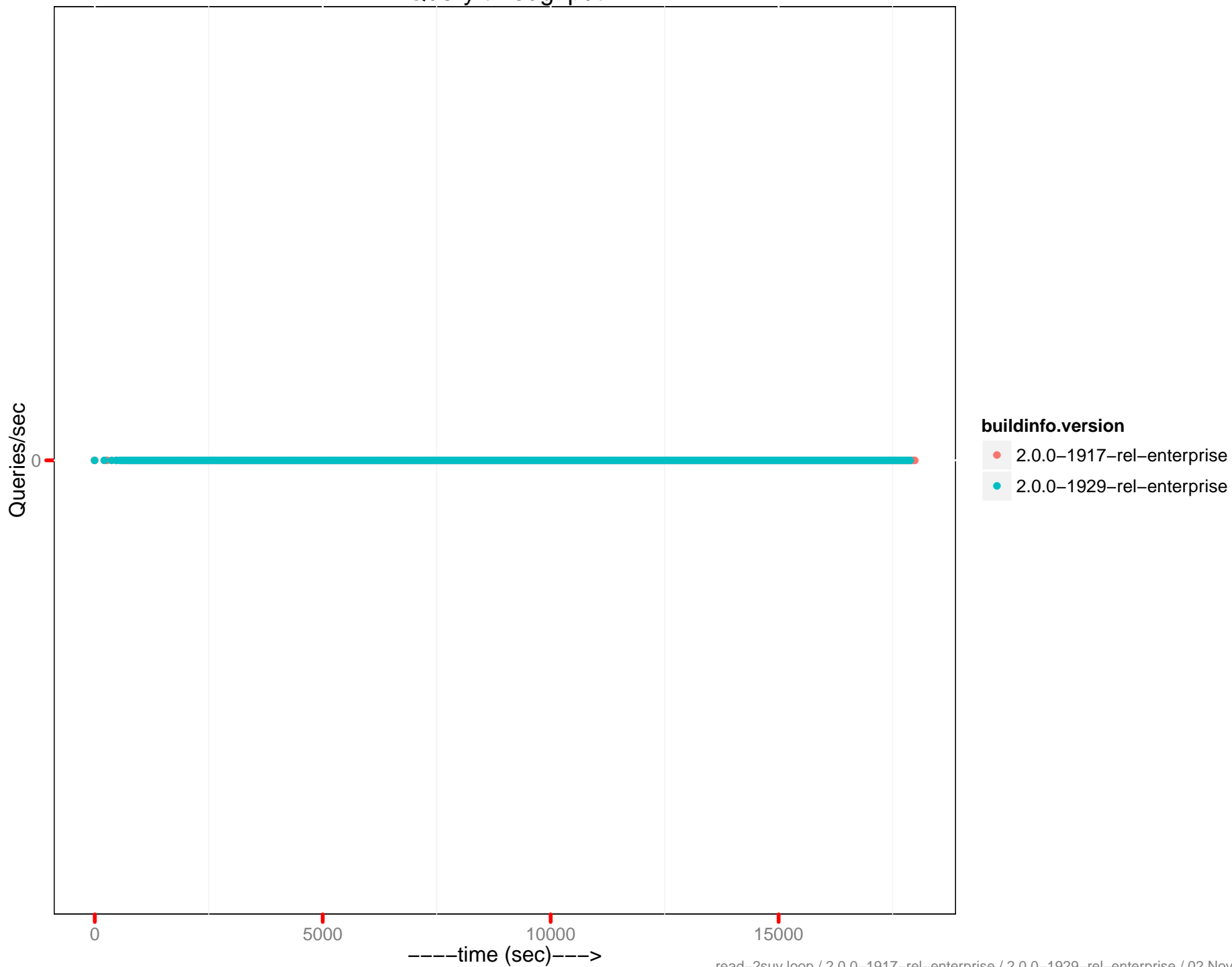
Latency-set 99th percentile



Latency-set 99th percentile (0 - 10ms)



Query throughput



```
read-2suv.conf
# read 12M load, 1M hot reload, 2M access creates, draining
# 30 clients
# speed limit = 15k
#
# system memory: 20G per node

performance.eperf.EPerfClient.test_eperf_read

params:

# general
batch=50
kind=nonjson
mem_quota=20000

# load phase
hot_init_items=2000000
items=20000000

# cbstats collector
cb_stats=1

# access phase
# Read:Insert:Update>Delete Ratio = 90:3:6:1.
ratio_sets=0.1
ratio_misses=0.05
ratio_creates=0.30
ratio_deletes=0.1428
ratio_hot=0.05
ratio_hot_gets=0.99
ratio_hot_sets=0.99
ratio_expirations=0.005
max_creates=8000000

# control (defaults: pytests/performance/perf_defaults.py)
mcsoda_heartbeat=3
mcsoda_max_ops_sec=500
tear_down=1
tear_down_proxy=1
tear_down_bucket=0
tear_down_cluster=1
tear_down_on_setup=0
```

```
terra.ini
[global]
username:root
password:couchbase
port:8091
data_path:/data2
index_path:/data
```

```
[servers]
1:10.2.1.61
2:10.2.1.58
3:10.2.1.63
4:10.2.1.64
```

```
[clients]
1:10.2.1.59
```

```
[membase]
rest_username:Administrator
rest_password:password
```