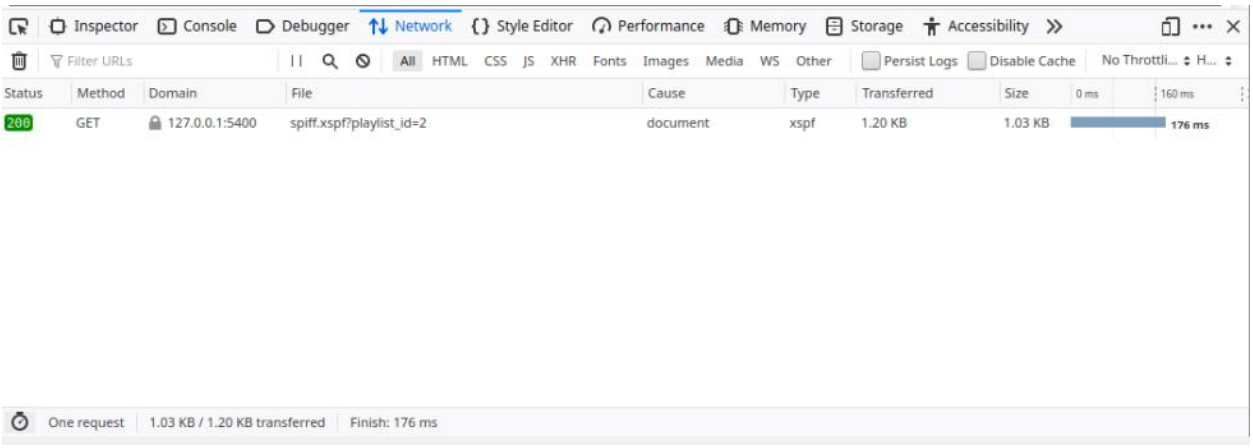
1st Test:
Task: Run memcstat before running any services just to show that the cache is at 0 bytes
Highlight: cache is at 0 bytes

Server: localhost (11211)
pid: 760
uptime: 67948
time: 1576319329
version: 1.5.10
libevent: 2.1.8-stable
pointer_size: 64
rusage_user: 3.839070
rusage_system: 3.490064
max_connections: 1024
curr_connections: 1
total_connections: 23
rejected_connections: 0
connection_structures: 7
reserved_fds: 20
cmd_get: 27
cmd_set: 21
cmd_flush: 1
cmd_touch: 0
get_hits: 6
get_misses: 21
get_expired: 0
get_flushed: 0
delete_misses: 0
delete_hits: 0
incr_misses: 0
incr_hits: 0
decr_misses: 0
decr_hits: 0
cas_misses: 0
cas_hits: 0
cas_badval: 0
touch_hits: 0
touch_misses: 0
auth_cmds: 0
auth_errors: 0
bytes_read: 4570
bytes_written: 16054
limit_maxbytes: 67108864
accepting_conns: 1
listen_disabled_num: 0
time_in_listen_disabled_us: 0
threads: 4
conn_yields: 0
hash_power_level: 16
hash_bytes: 524288
hash_is_expanding: 0
slab_reassign_rescues: 0

slab_reassign_chunk_rescues: 0
slab_reassign_evictions_nomem: 0
slab_reassign_inline_reclaim: 0
slab_reassign_busy_items: 0
slab_reassign_busy_deletes: 0
slab_reassign_running: 0
slabs_moved: 0
lru_crawler_running: 0
lru_crawler_starts: 11985
lru_maintainer_juggles: 191790
malloc_fails: 0
log_worker_dropped: 0
log_worker_written: 0
log_watcher_skipped: 0
log_watcher_sent: 0
bytes: 0
curr_items: 0
total_items: 21
slab_global_page_pool: 0
expired_unfetched: 17
evicted_unfetched: 0
evicted_active: 0
evictions: 0
reclaimed: 21
crawler_reclaimed: 0
crawler_items_checked: 0
lrutail_reflocked: 8
moves_to_cold: 23
moves_to_warm: 2
moves_within_lru: 0
direct_reclaims: 0
lru_bumps_dropped: 0

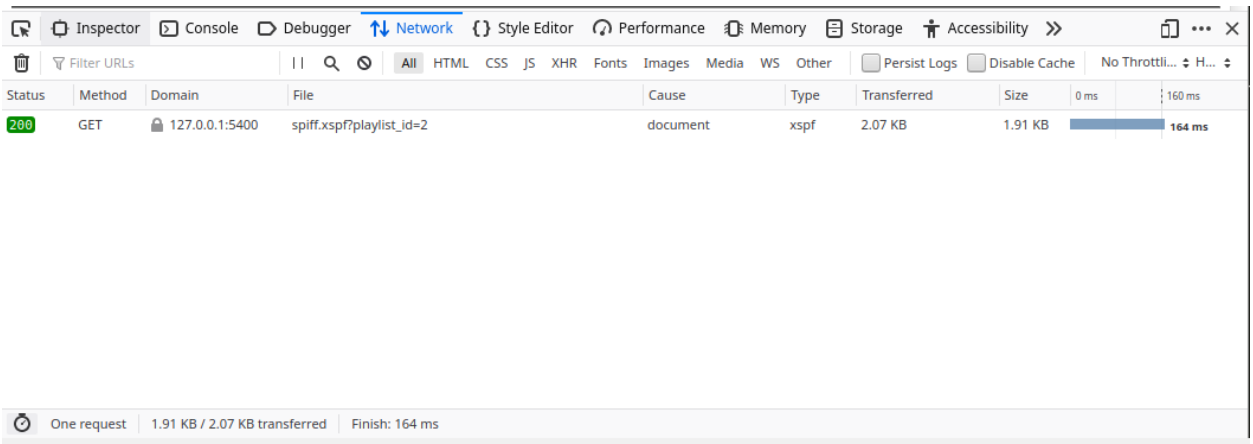
2nd Test:
Task: Run memcstat after first request. Assuming something should be stored in cache now
Highlight: cache is at 1256 bytes
Conclusion: Similar to 1st run the timing here has not yet been improved since the cache has just been filled for the first time on this test



Server: localhost (11211)
- pid: 760
- uptime: 68140
- time: 1576319521
- version: 1.5.10
- libevent: 2.1.8-stable
- pointer_size: 64
- rusage_user: 3.865314
- rusage_system: 3.490064
- max_connections: 1024
- curr_connections: 1
- total_connections: 25
- rejected_connections: 0
- connection_structures: 7
- reserved_fds: 20
- cmd_get: 31
- cmd_set: 25
- cmd_flush: 1
- cmd_touch: 0
- get_hits: 6
- get_misses: 25
- get_expired: 0
- get_flushed: 0
- delete_misses: 0
- delete_hits: 0
- incr_misses: 0
- incr_hits: 0
- decr_misses: 0
- decr_hits: 0
- cas_misses: 0
- cas_hits: 0
- cas_badval: 0
- touch_hits: 0

touch_misses: 0
auth_cmds: 0
auth_errors: 0
bytes_read: 5850
bytes_written: 17993
limit_maxbytes: 67108864
accepting_conns: 1
listen_disabled_num: 0
time_in_listen_disabled_us: 0
threads: 4
conn_yields: 0
hash_power_level: 16
hash_bytes: 524288
hash_is_expanding: 0
slab_reassign_rescues: 0
slab_reassign_chunk_rescues: 0
slab_reassign_evictions_nomem: 0
slab_reassign_inline_reclaim: 0
slab_reassign_busy_items: 0
slab_reassign_busy_deletes: 0
slab_reassign_running: 0
slabs_moved: 0
lru_crawler_running: 0
lru_crawler_starts: 12240
lru_maintainer_juggles: 192560
malloc_fails: 0
log_worker_dropped: 0
log_worker_written: 0
log_watcher_skipped: 0
log_watcher_sent: 0
bytes: 1256
curr_items: 4
total_items: 25
slab_global_page_pool: 0
expired_unfetched: 17
evicted_unfetched: 0
evicted_active: 0
evictions: 0
reclaimed: 21
crawler_reclaimed: 0
crawler_items_checked: 0
lrutail_reflocked: 8
moves_to_cold: 27
moves_to_warm: 2
moves_within_lru: 0
direct_reclaims: 0
lru_bumps_dropped: 0

3rd Test:
Task: Assuming that cache is being utilized. Running memcstat and taking pic of timings, check if time is shorter because its fetching from the cache now
Highlight: cache is at 1256 bytes
Conclusion: Timing was less need to do more tests to verify if cache is being utilized by flushing the cache first on the next test

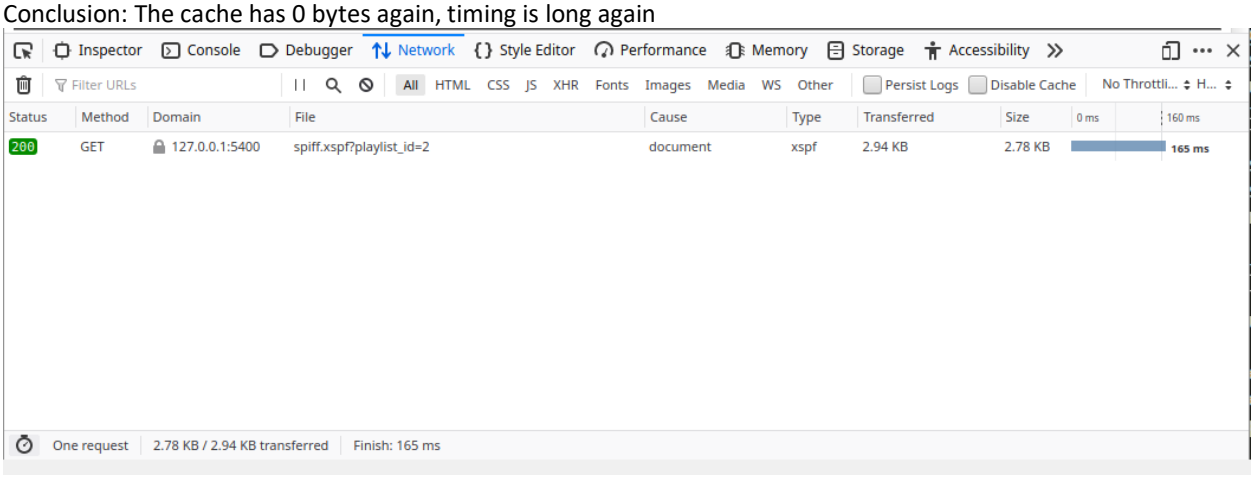


Server: localhost (11211)

pid: 760
uptime: 68282
time: 1576319663
version: 1.5.10
libevent: 2.1.8-stable
pointer_size: 64
rusage_user: 3.885229
rusage_system: 3.490064
max_connections: 1024
curr_connections: 1
total_connections: 27
rejected_connections: 0
connection_structures: 7
reserved_fds: 20
cmd_get: 35
cmd_set: 29
cmd_flush: 1
cmd_touch: 0
get_hits: 6
get_misses: 29
get_expired: 0
get_flushed: 0
delete_misses: 0
delete_hits: 0
incr_misses: 0
incr_hits: 0
decr_misses: 0
decr_hits: 0
cas_misses: 0
cas_hits: 0
cas_badval: 0

touch_hits: 0
touch_misses: 0
auth_cmds: 0
auth_errors: 0
bytes_read: 7130
bytes_written: 19935
limit_maxbytes: 67108864
accepting_conns: 1
listen_disabled_num: 0
time_in_listen_disabled_us: 0
threads: 4
conn_yields: 0
hash_power_level: 16
hash_bytes: 524288
hash_is_expanding: 0
slab_reassign_rescues: 0
slab_reassign_chunk_rescues: 0
slab_reassign_evictions_nomem: 0
slab_reassign_inline_reclaim: 0
slab_reassign_busy_items: 0
slab_reassign_busy_deletes: 0
slab_reassign_running: 0
slabs_moved: 0
lru_crawler_running: 0
lru_crawler_starts: 12240
lru_maintainer_juggles: 193144
malloc_fails: 0
log_worker_dropped: 0
log_worker_written: 0
log_watcher_skipped: 0
log_watcher_sent: 0
bytes: 1256
curr_items: 4
total_items: 29
slab_global_page_pool: 0
expired_unfetched: 21
evicted_unfetched: 0
evicted_active: 0
evictions: 0
reclaimed: 25
crawler_reclaimed: 0
crawler_items_checked: 0
lrutail_reflocked: 8
moves_to_cold: 31
moves_to_warm: 2
moves_within_lru: 0
direct_reclaims: 0
lru_bumps_dropped: 0

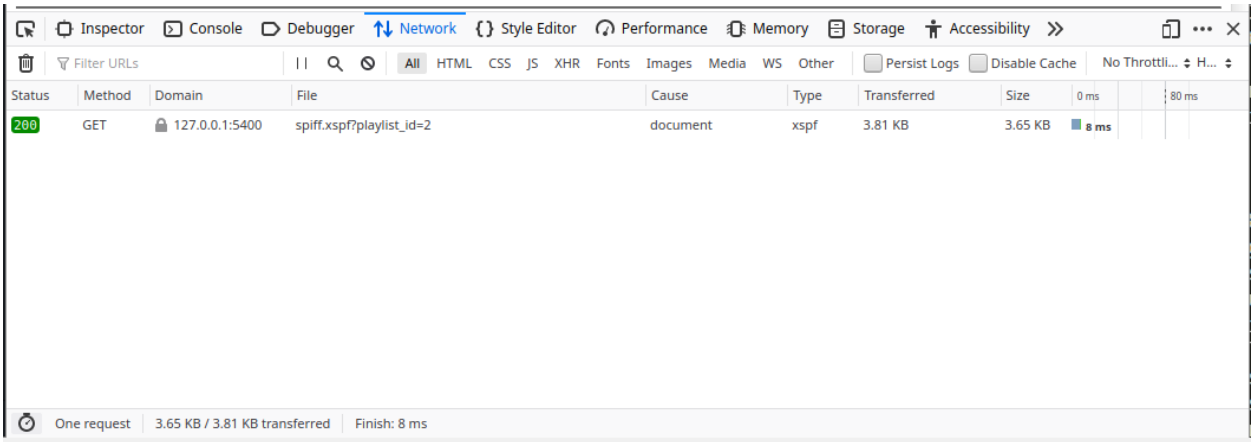
4th Test:
Task: Flush the cache first and check cache to be 0 bytes, do request, check (snap) timings again since it should be similar to the timing from 2nd run
Highlight: cache is at 0 bytes
Conclusion: The cache has 0 bytes again, timing is long again



Server: localhost (11211)
- pid: 760
- uptime: 68338
- time: 1576319719
- version: 1.5.10
- libevent: 2.1.8-stable
- pointer_size: 64
- rusage_user: 3.892616
- rusage_system: 3.490064
- max_connections: 1024
- curr_connections: 1
- total_connections: 29
- rejected_connections: 0
- connection_structures: 7
- reserved_fds: 20
- cmd_get: 35
- cmd_set: 29
- cmd_flush: 2
- cmd_touch: 0
- get_hits: 6
- get_misses: 29
- get_expired: 0
- get_flushed: 0
- delete_misses: 0
- delete_hits: 0
- incr_misses: 0
- incr_hits: 0
- decr_misses: 0
- decr_hits: 0
- cas_misses: 0
- cas_hits: 0
- cas_badval: 0
- touch_hits: 0

touch_misses: 0
auth_cmds: 0
auth_errors: 0
bytes_read: 7171
bytes_written: 21861
limit_maxbytes: 67108864
accepting_conns: 1
listen_disabled_num: 0
time_in_listen_disabled_us: 0
threads: 4
conn_yields: 0
hash_power_level: 16
hash_bytes: 524288
hash_is_expanding: 0
slab_reassign_rescues: 0
slab_reassign_chunk_rescues: 0
slab_reassign_evictions_nomem: 0
slab_reassign_inline_reclaim: 0
slab_reassign_busy_items: 0
slab_reassign_busy_deletes: 0
slab_reassign_running: 0
slabs_moved: 0
lru_crawler_running: 0
lru_crawler_starts: 12240
lru_maintainer_juggles: 193370
malloc_fails: 0
log_worker_dropped: 0
log_worker_written: 0
log_watcher_skipped: 0
log_watcher_sent: 0
bytes: 0
curr_items: 0
total_items: 29
slab_global_page_pool: 0
expired_unfetched: 25
evicted_unfetched: 0
evicted_active: 0
evictions: 0
reclaimed: 29
crawler_reclaimed: 0
crawler_items_checked: 0
lrutail_reflocked: 8
moves_to_cold: 31
moves_to_warm: 2
moves_within_lru: 0
direct_reclaims: 0
lru_bumps_dropped: 0

5th Test:
Task: Similar to 3rd test, this is to show that the cache is being used
Highlight: cache is at 1256 bytes
Conclusion: Timing has improved significantly



Server: localhost (11211)
- pid: 760
- uptime: 68512
- time: 1576319893
- version: 1.5.10
- libevent: 2.1.8-stable
- pointer_size: 64
- rusage_user: 3.915687
- rusage_system: 3.490064
- max_connections: 1024
- curr_connections: 1
- total_connections: 31
- rejected_connections: 0
- connection_structures: 7
- reserved_fds: 20
- cmd_get: 39
- cmd_set: 33
- cmd_flush: 2
- cmd_touch: 0
- get_hits: 6
- get_misses: 33
- get_expired: 0
- get_flushed: 0
- delete_misses: 0
- delete_hits: 0
- incr_misses: 0
- incr_hits: 0
- decr_misses: 0
- decr_hits: 0
- cas_misses: 0
- cas_hits: 0
- cas_badval: 0
- touch_hits: 0
- touch_misses: 0

auth_cmds: 0
auth_errors: 0
bytes_read: 8451
bytes_written: 23800
limit_maxbytes: 67108864
accepting_conns: 1
listen_disabled_num: 0
time_in_listen_disabled_us: 0
threads: 4
conn_yields: 0
hash_power_level: 16
hash_bytes: 524288
hash_is_expanding: 0
slab_reassign_rescues: 0
slab_reassign_chunk_rescues: 0
slab_reassign_evictions_nomem: 0
slab_reassign_inline_reclaim: 0
slab_reassign_busy_items: 0
slab_reassign_busy_deletes: 0
slab_reassign_running: 0
slabs_moved: 0
lru_crawler_running: 0
lru_crawler_starts: 12240
lru_maintainer_juggles: 194070
malloc_fails: 0
log_worker_dropped: 0
log_worker_written: 0
log_watcher_skipped: 0
log_watcher_sent: 0
bytes: 1256
curr_items: 4
total_items: 33
slab_global_page_pool: 0
expired_unfetched: 25
evicted_unfetched: 0
evicted_active: 0
evictions: 0
reclaimed: 29
crawler_reclaimed: 0
crawler_items_checked: 0
lrutail_reflocked: 8
moves_to_cold: 35
moves_to_warm: 2
moves_within_lru: 0
direct_reclaims: 0
lru_bumps_dropped: 0