After upgrading from 14.2.0 to 14.2.1, I've noticed PGs are frequently resetting their scrub and deep scrub time stamps to 0.000000.

It's extra strange because the peers show timestamps for deep scrubs.

1. First entry from a pg list at 7pm
   $ grep 11.2f2 ~/pgs-active.7pm
   11.2f2 691 0 0 0 2897477632 0 0 2091 active+clean  3h  7378'12291 8048:36261  [1,6,37]p1

1. Next Entry 3 minutes later
   $ ceph pg ls active |grep 11.2f2
   11.2f2 695 0 0 0 2914713600 0 0 2091 active+clean  6s  7378'12291 8049:36330  [1,6,37]p1
   [1,6,37]p1 0.000000 0.000000

Not sure if it's related, but this only happens to PG's who's primary OSD is one where osd_numa_node has been set.
"last_epoch_split": 6147,
"last_epoch_marked_full": 0,
"same_up_since": 6126,
"same_interval_since": 6147,
"same_primary_since": 6126,
"last_scrub": "7378'12291",
"last_scrub_stamp": "2019-05-14 21:01:29.172460",
"last_deep_scrub": "6103'12186",
"last_deep_scrub_stamp": "2019-05-14 21:01:29.172460",
"last_clean_scrub_stamp": "2019-05-15 23:08:17.014575"
},
"stats": {
"version": "6103'12264",
"reported_seq": "34823",
"reported_epoch": "6125",
"state": "active+undersized+degraded",
"last_fresh": "2019-05-15 19:16:05.309556",
"last_change": "2019-05-15 19:15:59.342872",
"last_active": "2019-05-15 19:16:05.309556",
"last_peered": "2019-05-15 19:16:05.309556",
"last_became_active": "2019-05-15 19:15:59.342872",
"last_became_peered": "2019-05-15 19:15:59.342872",
"last_unstale": "2019-05-15 19:16:05.309556",
"last_undegraded": "2019-05-15 19:15:59.341684",
"mapping_epoch": 6126,
"log_start": "1087'10200",
"ondisk_log_start": "1087'10200",
"created": 1549,
"last_epoch_clean": 6115,
"parent": "0.0",
"parent_split_bits": 10,
"last_scrub": "6103'12186",
"last_scrub_stamp": "2019-05-14 21:01:29.172460",
"last_deep_scrub": "6103'12186",
"last_deep_scrub_stamp": "2019-05-14 21:01:29.172460",
"last_clean_scrub_stamp": "2019-05-14 21:01:29.172460",
"log_size": 2064,
"ondisk_log_size": 2064,
"stats_invalid": true,
"dirty_stats_invalid": false,
"omap_stats_invalid": false,
"hitset_stats_invalid": false,
"hitset_bytes_stats_invalid": false,
"pin_stats_invalid": false,
"manifest_stats_invalid": true,
"snaptrim_len": 0,
"stat_sum": {
"num_bytes": 2784231424,
"num_objects": 664,
"num_object_clones": 0,
"num_object_copies": 1992,
"num_objects_missing_on_primary": 0,
"num_objects_missing": 0,
"num_objects_degraded": 664,
"num_objects_misplaced": 0,
"num_objects_unfound": 0,
"num_objects_dirty": 664,
"num_whiteouts": 0,
"num_read": 93,
"num_read_kb": 350209,
"num_write": 153,
"num_write_kb": 604160,
"num_scrub_errors": 0,
"num_shallow_scrub_errors": 0,
"num_deep_scrub_errors": 0,
"num_objects_recovered": 129,
"num_bytes_recovered": 540901376,
"num_keys_recovered": 0,
"num_objects_omap": 0,
"num_objects_hit_set_archive": 0,
"num_bytes_hit_set_archive": 0,
"num_flush": 0,
"num_flush_kb": 0,
"num_evict": 0,
"num_evict_kb": 0,
"num_promote": 0,
"num_flush_mode_high": 0,
"num_flush_mode_low": 0,
"num_evict_mode_some": 0,
"num_evict_mode_full": 0,
"num_objects_pinned": 0,
"num_legacy_snapsets": 0,
"num_large_omap_objects": 0,
"num_objects_manifest": 0,
"num_omap_bytes": 0,
"num_omap_keys": 0,
"num_objects_repaired": 0,
"up": [1, 6, 37],
"acting": [1, 6, 37],
"blocked_by": [],
"up_primary": 1,
"acting_primary": 1,
"purged_snaps": []},
"empty": 0,
"dne": 0,
"incomplete": 0,
"last_legacy_started": 6148,
"hit_set_history": {
  "current_last_update": "0'0",
  "history": []}
],
"peer": "37",
"pgid": "11.2f2",
"last_update": "7378'12291",
"last_complete": "7378'12291",
"log_tail": "1087'10200",
"last_user_version": 12264,
"last_backfill": "MAX",
"last_backfill_bitwise": 1,
"purged_snaps": []},
"history": {
  "epoch_created": 1549,
  "epoch_pool_created": 216,
  "last_epoch_started": 6148,
  "last_interval_started": 6147,
  "last_epoch_clean": 6148,
  "last_interval_clean": 6147,
  "last_epoch_split": 6147,
  "last_epoch_masked_full": 0,
  "same_up_since": 6126,
  "same_interval_since": 6147,
  "same_primary_since": 6126,
  "last_scrub": "7378'12291",
  "last_scrub_stamp": "2019-05-14 21:01:29.172460",
  "last_deep_scrub": "6103'12186",
  "last_deep_scrub_stamp": "2019-05-14 21:01:29.172460",
  "last_clean_scrub_stamp": "2019-05-15 23:08:17.014575"},
"state": {
  "version": "6103'12263",
  "reported_seq": "34275",
  "reported_epoch": "6103",
  "state": "active+clean",
  "last_change": "2019-05-14 21:01:29.172506",
  "last_active": "2019-05-15 17:23:41.956141",
"last_became_active": "2019-05-14 20:16:44.641437",
"last_became_peered": "2019-05-14 20:16:44.641437",
"last_undegraded": "2019-05-15 17:23:41.956141",
"mapping_epoch": 6126,
"log_start": "1087'10200",
"ondisk_log_start": "1087'10200",
"created": 1549,
"last_epoch_clean": 6010,
"parent": "0.0",
"parent_split_bits": 10,
"last_scrub": "6103'12186",
"last_scrub_stamp": "2019-05-14 21:01:29.172460",
"last_deep_scrub": "6103'12186",
"last_deep_scrub_stamp": "2019-05-14 21:01:29.172460",
"last_clean_scrub_stamp": "2019-05-14 21:01:29.172460",
"log_size": 2063,
"ondisk_log_size": 2063,
"stats_invalid": true,
"dirty_stats_invalid": false,
"omap_stats_invalid": false,
"hitset_stats_invalid": false,
"hitset_bytes_stats_invalid": false,
"pin_stats_invalid": false,
"manifest_stats_invalid": true,
"naptrnq_len": 0,
"stat_sum": {
  "num_bytes": 2784231424,
  "num_objects": 664,
  "num_object_clones": 0,
  "num_object_copies": 1993,
  "num_objects_missing_on_primary": 0,
  "num_objects_missing": 0,
  "num_objects_degraded": 0,
  "num_objects_missplaced": 0,
  "num_objects_unfound": 0,
  "num_objects_dirty": 664,
  "num_whiteouts": 0,
  "num_read": 93,
  "num_read_kb": 350209,
  "num_write": 153,
  "num_write_kb": 604160,
  "num_scrub_errors": 0,
  "num_shallow_scrub_errors": 0,
  "num_deep_scrub_errors": 0,
  "num_objects_recovered": 0,
  "num_bytesRecovered": 0,
  "num_keys_recovered": 0,
  "num_objects_omap": 0,
  "num_objects_hit_set_archive": 0,
  "num_bytes_hit_set_archive": 0,
  "num_flush": 0,
  "num_flush_kb": 0,
  "num_evict": 0,
  "num_evict_kb": 0,
  "num_promote": 0,
  "num_flush_mode_high": 0,
  "num_flush_mode_low": 0,
  "num_evict_mode_some": 0,
  "num_evict_mode_full": 0,
  "num_objects_pinned": 0,
  "num_legacy_snapsets": 0,
  "num_large_omap_objects": 0,
  "num_objects_manifest": 0,
  "num_omap_bytes": 0,
  "num_omap_keys": 0,
  "num_objects_repaired": 0
},
"up": [1, 6, 37]
The similarity to #40066 is so striking I just had to mention it and create a "Relates to" link.

- Related to Bug #40066: PGs not scrubbed since 0.000000 added

Assignee set to David Zafman

When auto repair is enabled a bug causes a regular scrub to reset time stamps which is only intended to happen when there were errors. This internally forces a deep-scrub in order to eventually auto repair.

- Duplicated by Bug #40066: PGs not scrubbed since 0.000000 added

- Related to deleted (Bug #40066: PGs not scrubbed since 0.000000)

- Backport set to nautilus

- Pull request ID set to 28334

- Status changed from New to In Progress

- Status changed from In Progress to Pending Backport

- Copied to Backport #40667: nautilus: PG scrub stamps reset to 0.000000 added

- Status changed from Pending Backport to Resolved