

Drupal Commerce Performance

Shawn McCabe
smccabe
CTO
Acro Media

Who am I?



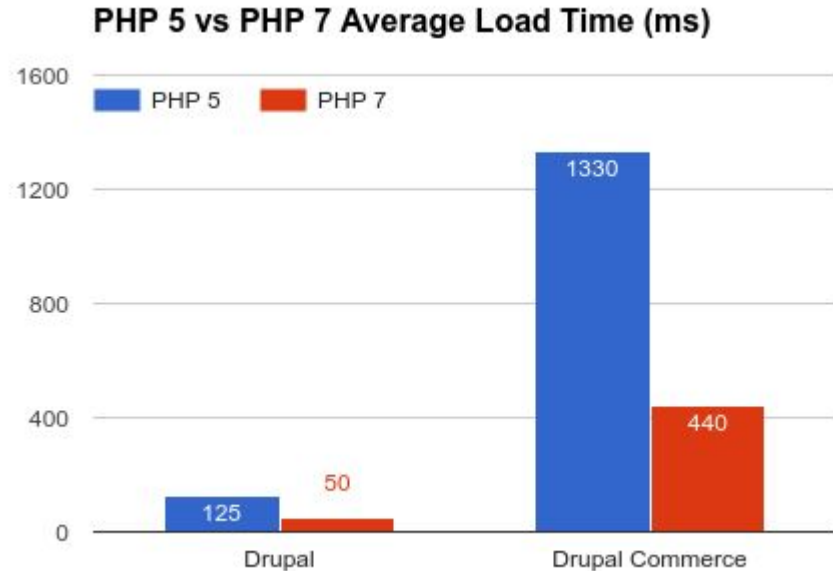
- Drupal 9 Years, Drupal Commerce since Ubercart alpha
- Based in Canada, but all over the world now
- Exclusively Drupal Commerce
- 60 total staff, 40 developers

Why is Commerce slow?



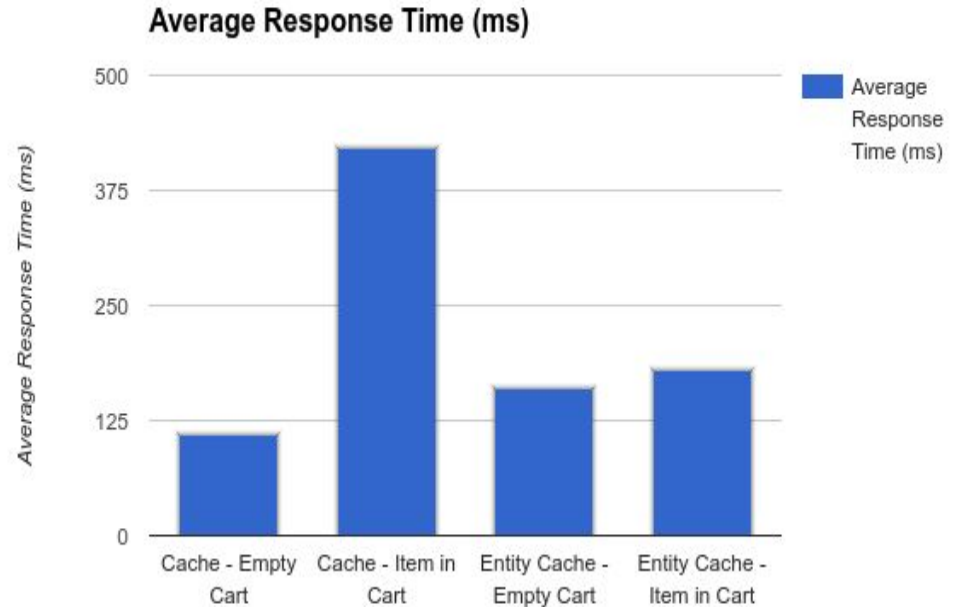
- Almost nothing is anonymous
- Once you have a session, no page cache in Drupal anymore
- Almost all Drupal's standard performance tweaks are based on caching
- Commerce is always “doing stuff” very few static pages

- Yes! It works with Commerce 1.x
- Roughly 2.5x your performance
- 1 patch, pester Ryan Szrama

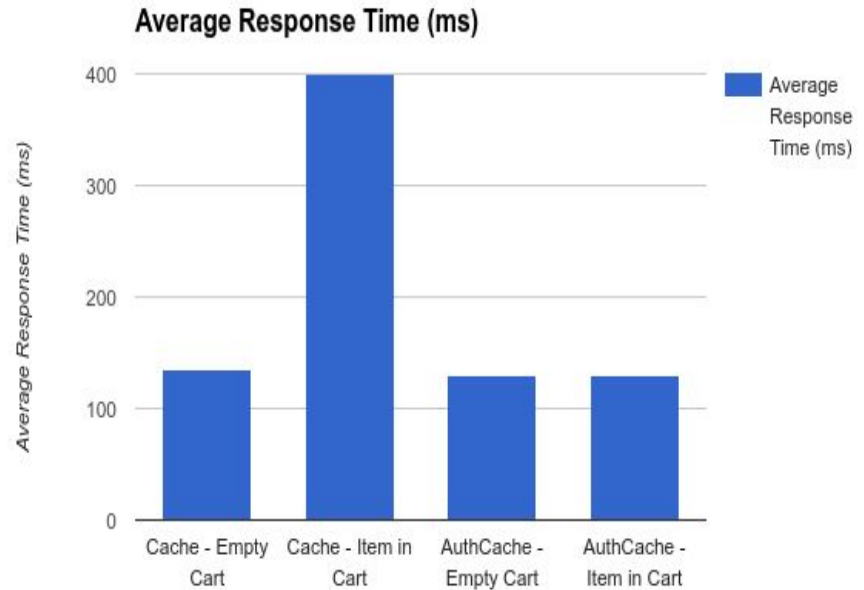


Entity Cache

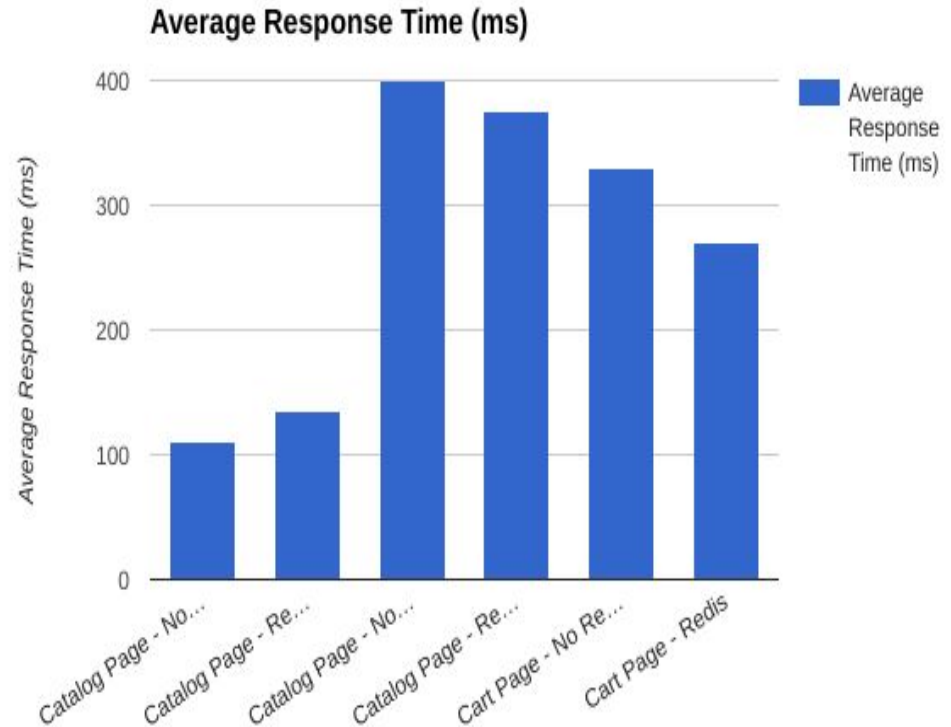
- Good for products, not good for orders
- Products, helps for pages or other big product loads
- Overall, mixed results can cause too much cache load



- Tricky Setup
- Can conflict with custom modules
- Great performance increase if pages can be cached



- Limited improvement if your database isn't overloaded
- Useful if you need to split caching load between database and caching



- Everyone will tell you this is the answer to Drupal speed, but for Commerce, it doesn't help as much.
- Commerce has so much that by default isn't cache, you will get very few hits from varnish.

Order Locking



- Pessimistic order locking
- Based on off default Drupal order locking
- Doesn't help much as far as actual database security as it is only for page load
- Patch
- Remove completely
- <https://www.drupal.org/node/2240427>

Database Locking



- If you notice a ton of field deadlocks, it is the isolation method of your database.
 - `$databases['default']['default']['init_commands']['isolation'] = "SET SESSION tx_isolation='READ-COMMITTED'";`
- Standard problem with Drupal, but more prevalent in commerce because of heavy field usage in entities such as orders and products.
- See apdq for more details
 - <https://www.drupal.org/project/apdq>

Commerce Calculate Price



- Runs every time the price is displayed
- Product catalog pages, product pages, search results
- If you have lots of pricing rules, this gets expensive

All the regular stuff



- Variable sets will kill your variable caching and this gets pricey
- Page cache, block cache, compress js, css
- Database indexes
- Audit your rules
- Check for anything that causes a cache set
 - Especially on pages that can't be cached
 - Commerce Fieldgroup Panes example

Tools and Testing

- New Relic and Blackfire
- XHPProf
- Devel Query Log
- MySQL Slow Query Log
- jMeter, Apache Bench
- Test with sessions!
- Test cart pages, checkout pages

Commerce 2.x Performance



- BigPipe
- Cache Contexts
- Contexts and Varnish <3
- Optimistic Order Locking
- Price Adjustments (with caching!)
- Conditions instead of rules
- HTTP2
- Refreshless
- Web Profiler

Commerce SLA Report



- Monthly report of most common Commerce 1.x modules
- Ever increasing module list
- 2.x version will launch with 2.0



Audio Deluxe

March 2017

Provided by Acro Media Inc.

Code Coverage <>

Drupal Commerce	80%*	Commerce Discount	67%
Commerce Paypal	0%	AD License	0%
AD Checkout	0%		

Code Coverage is the percentage of the lines of code in a module that are covered by automated testing. Ideally you want as close to 100% coverage as possible. This is also only a selection of the modules on the site, picked for this report. Each month we will be adding more modules to the report until the entire site is covered.

* In previous reports, the code coverage showed 90% for Drupal Commerce. This was incorrect as there was a glitch in the process of automated testing. The amount of code coverage has not

Thanks and Sprints

- bojanz, torgospizza, joshmiller, damZ
- Another Session: Decode & Reload
- Commerce Sprinting Friday
- Talk to us at our booth, look the the one that says “Drupal Commerce”
- Get a Drupal Commerce Contributor shirt

