How to Speed Up a Site with 500,000 Attachments

A case study

leipzig 2



About me

I am a WordPress and PHP specialist

I started my first projects in the late 90s.

I worked on projects with millions of page impressions. As technical lead I developed custom themes, plugins, optimized performance and planned coming features.

I am a frequent speaker at WordPress events, and founder and co-host of the Meetup in Dortmund.

Currently I work as Senior Web Developer at Coding Pioneers in Iserlohn.

https://www.linkedin.com/in/christoph-daum/





Preparation for the Workshop

- You need ddev, composer, curl, git cli and an IDE of your choice installed locally
- 2. Clone https://github.com/apermo/performance-workshop
- 3. Run "./setup.sh"
- 4. Wait a few minutes until the login mask opens up



Get to know the Project

Bonedo.de - a portal/magazine for musicians

Started as TYPO3 site

Relaunch as WordPress in 2020

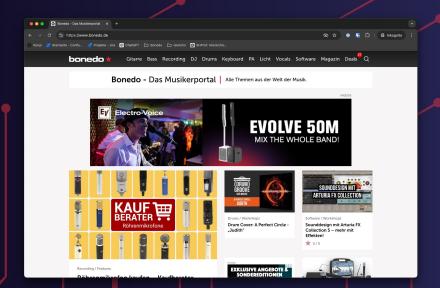
More than 30'000 posts

250'000+ Audio Attachments

300'000+ Image Attachments

I entered the project in May 2024

Frontend speed was ok, Backend speed was ... terrible





Some Numbers

Before

Heartbeat 2.5 s

Saving a post 40+ s

Opening a post 8 s

Fully editable 15+ s





What we won't talk about

- 1. Frontend Caching
- 2. Object Caching
- 3. Server Setup/Scaling



Topics

- 0. WordPress Plugins for profiling & debugging
- 1. Tweaking heartbeat
- 2. Optimizing WordPress Database Tables
- 3. Custom tables and the filter posts_clauses
- 4. Optimizing Taxonomy Updates
- 5. Speed up the media library
- 6. Removing unused features
- 7. Profiling with xhprof
- 8. Redis for php sessions
- 9. Optimizing attachment_url_to_postid()



0. WordPress Plugins for profiling & debuggingQuery Monitor

- **Debug Bar**
- **Debug Bar Actions and Filters Addon**
- **Rewrite Rules Inspector**



1. Tweaking heartbeat

- The default heartbeat fires every 30s
- Main use of heartbeat is locking posts and to log you out once the session expired
- We changed it via 'heartbeat_settings' to
 - Editor to 60s
 - Backend to 180s
 - Frontend to 1h

https://gist.github.com/apermo/







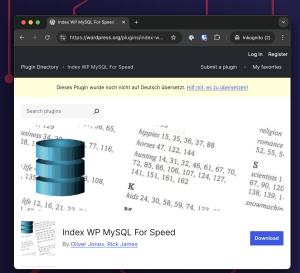
2. Optimizing the WordPress Database

After some research and some conversations I found the

Plugin: Index WP MySQL For Speed

Which was already validated as I found out later

https://wordpress.org/plugins/index-wp-mysql-for-speed/





3. Custom Tables + posts_clauses

- Custom table creation via helper class
- Use via filters (posts_clauses)
- Replacing meta_queries with a simple join

https://gist.github.com/apermo/





4. Optimizing Taxonomy Updates

After reading the blog by 11bytes, on their

1 million product WooCommerce

I optimized the taxonomy update following their example.

https://woo-million.11bytes.de/



5. Speed up the media library

```
- *
- * By default (if this filter does not return an array), a query will be
- * run to determine the months that have media items. This query can be
- * expensive for large media libraries, so it may be desirable for sites to
- * override this behavior.
- *
```

Every time you want to use wp_enqueue_media() in the backend, a rather expensive query is fired. Lasting 0.3s-0.5s on my test system.

Adding a filter to media_library_months_with_files speeds things up by up to 100% of that.



6. Removing unused features

- A feature which was and meant to be a search filter
- It never really worked
- It created 1400 taxonomies on every single request
- It caused about 10% overhead on average



Current status?

Improved, but still not fast

Dead End Ideas:

- Remove orphaned attachments (not enough)
- Remove ACF (too deeply integrated)



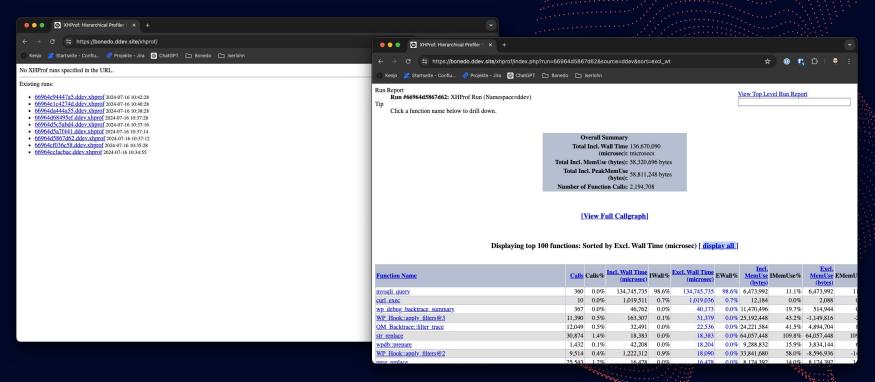
7. Better profiling with xhprof

- Xhprof is great for profiling single requests
- Will not show an overview of request
- Will not show the request URI
- Will not show the database queries





Vanilla Xhprof





xhprof.log

```
[2024-07-16 88:44:16 - 88:44:16] A 8.11 s | https://bonedo.ddev.site/xhprof/?run=669632e8588a3&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 yars, 1.1 kb) | Referrer: /wp/wp-admin/edit.php?post type=test
[2824-87-16 88:46:16 - 88:46:16] A 0.13 s | https://bonedo.ddev.site/xhprof/?run=6696335854f8b&source=ddev | URI: /wp/wp-admin/admin-a1ax.php | POST(6 vars. 1.1 kb) | Referrer: /wp/wp-admin/edit.php?post type=test
[2824-87-16 88:48:16 - 88:48:16] & 0.13 s | https://bonedo.ddev.site/xhprof/?run=669633d855046&source=ddev | URI: /wp/wp-admin/admin-aiax.php | POST(6 vars. 1.1 kb) | Referrer: /wp/wp-admin/edit.php?post type=test
[2024-07-16 08:50:16 - 08:50:16] & 0.16 s | https://bonedo.ddev.site/xhprof/?run=669634485e5d6&source=ddev | URI: /wp/wp-admin/admin-aiax.php | POST(6 vars. 1.1 kb) | Referrer: /wp/wp-admin/edit.php?post_type=test
[2824-87-16 88:52:16 - 88:52:16] A 8.13 s | https://bonedo.ddev.site/xhprof/?run=669634c85788&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp/wp-admin/edit.php?post_type=test
[2824-87-16 88:52:48 - 88:52:49] & 0.12 s | https://bonedo.ddev.site/xhprof/?run=669634e1887a8&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp/wp-admin/edit.php?post_type=test
[2824-87-16 88:52:53 - 88:52:54] A 1.22 s | https://bonedo.ddev.site/xhprof/?run=669634e64beda&source=ddev | URI: /wo/wo-admin/post.php?post=1882483&action=edit | GET | Referrer: /wo/wo-admin/edit.php?post type=test
[2024-07-16 08:52:54 ~ 08:52:54] & 0.14 s | https://bonedo.ddev.site/xhprof/?run=669634e68c65f&source=ddev | URI: /wp/wp-admin/admin-ajax.php?action=wp-compression-test&test=1&_ajax_nonce=21a87b870a61721119774433 | GET | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:54 - 88:52:54] A 0.16 s | https://bonedo.ddev.site/xhprof/?run=669634e693828&source=ddev | URI: /wp-ison/wp/v2/taxonomies?context=edit& locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:54 - 88:52:54 - 88:52:54 - 88:52:54 - 88:52:54 | A 8.10 s | https://bonedo.ddev.site/xhprof/?run=669634e6ad9d5&source=ddev | URI: /wp/wp-admin/admin-ajax.php?action=wp-compression-test&test=no& ajax.nonce=81887b878a&1721119974668 | GET | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 0.26 s | https://bonedo.ddev.site/xbprof/?run=669634e74a662&source=ddev | URI: /wp-ison/wp/v2/block-patterns/categories?_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 0.25 s | https://bonedo.ddev.site/xhprof/?run=669634e74b518&source=ddev | URI: /wp-json/?_fields=description%2Cgnt_offset%2Chome%2Csite_icon_url%2Csite_loqo%2Ctinezone_string%2Curl&_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 0.14 s | https://bonedo.ddev.site/xhprof/?run=669634e76df54&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.5 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-07-16 08:52:55 - 08:52:55] & 0.17 s | https://bonedo.ddev.site/xhprof/?run=669634e774b80&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.8 kb) | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 8.13 s | https://bonedo.ddev.site/xhprof/?run=669634e7914fa&source=ddey | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.8 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 8.15 s | https://bonedo.ddev.site/xhprof/?run=669634e79bc3f&source=ddey | URI: /wp/wp-admin/admin-ajax.oho | POST(7 vars. 1.8 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 8.18 s | https://bonedo.ddev.site/xhprof/?run=66963487bfe27&source=ddey | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.6 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 8.16 s | https://bonedo.ddev.site/xhprof/?run=669634e7c9f2&&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.9 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] & 0.24 s | https://bonedo.ddev.site/xhprof/?run=669634e7cdd77&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 2.8 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:55] A B.84 s | https://bonedo.ddev.site/xhprof/?run=669634e7dc8d3&source=ddev | URI: /wp-json/wp/v2/media/1802534?context=edit&_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:55 - 88:52:55] A 8.19 s | https://bonedo.ddev.site/xhprof/?run=669634e7f8774&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.6 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 08:52:55 - 08:52:56] & 0.20 s | https://bonedo.ddev.site/xhprof/?run=669634e80a0cf&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 2.9 kb) | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:55 - 88:52:56] A 8.19 s | https://bonedo.ddev.site/xhprof/?run=669634e811793&source=ddev | URI: /wp/wp-admin/admin-ajax.ohp | POST(7 vars. 3.1 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:55 - 88:52:56] & 0.19 s | https://bonedo.ddev.site/xhprof/?run=669634e8172bf&source=ddey | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars. 2.5 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2024-07-16 08:52:55 - 08:52:56] & 0.15 s | https://bonedo.ddev.site/xhprof/?run=669634e824c5e&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.7 kb) | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:56 - 88:52:56] & 0.14 s | https://bonedo.ddev.site/xhprof/?run=669634e82eb84&Source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.3 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] & 0.14 s | https://bonedo.ddev.site/xhprof/?run=669634e83784f&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 3.3 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] A 0.13 s | https://bonedo.ddev.site/xhprof/?run=669634e838bbl&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.3 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] & 8.13 s | https://bonedo.ddey.site/xhprof/?run=669634e846ca2&source=ddey | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.3 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] A 8:12 s | https://bonedo.ddev.site/xhprof/?run=669634e84ef24&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 8.4 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] & 8.14 s | https://bonedo.ddev.site/xhprof/?run=669634e85da9d&source=ddey | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars. 2.9 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
12824-87-16 88:52:56 - 88:52:56 | & 9.16 s | https://bonedo.ddev.site/xhprof/?run=669634e863c57&cource=ddev | URI: /wp-json/wp/v2/users/context=view&who=authors&per_page=58&_fields=id%2Cname&_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1892483&action=edit
[2824-87-16 88:52:56 - 88:52:56] A 0.15 s | https://bonedo.ddev.site/xhprof/?run=669634e86f39e&source=ddev | URI: /wp-json/wp/v2/taxonomies?context=edit&per_page=198&_locale=user | GET | Referer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] Δ 8.16 s | https://bonedo.ddev.site/xhprof/?run=669634e87a692&source=ddev | URI: /wp-json/wp/v2/test/1882483?_locale=user | OPTIONS | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 08:52:56 - 08:52:56] A 0.16 s | https://bonedo.ddev.site/xhprof/?run=669634e8884ad&source=ddev | URI: /wp-json/wp/v2/wp_pattern_category?context=view&per_page=180&_fields=id%2Cname%2Cdescription%2Cslug&_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:56 - 88:52:56] A 8.15 s | https://bonedo.ddev.site/xhprof/?run=669634e888ec9&source=ddev | URI: /wo-ison/wp/v2/themes?context=edit&status=active& locale=user | GET | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:52:56 - 88:52:56] & 8.15 s | https://bonedo.ddev.site/xhprof/?run=669634e8944ca&source=ddev | URI: /wo-ison/? fields=description%2Cont offset%2Chome%2Csite icon wrl%2Csite ico
[2824-87-16 88:52:56 - 88:52:56] & 8:14 s | https://bonedo.ddev.site/xhprof/?run=669634e89d3da&source=ddev | URI: /mp-json/mp/v2/users/66?context=view&_fields=id%2Cname&_locale=user | SET | Referer: /mp/mp-admin/post.php?post=1892483&action=edit
[2824-87-16 88:53:82 - 88:53:82] & 0.11 s | https://bonedo.ddev.site/xhprof/?run=669634eeb413e&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(63 vars. 36.7 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:53:82 - 88:53:84] A 1.97 s | https://bonedo.ddev.site/xhprof/?run=669634f8b7c6b&source=ddev | URI: /wp-ison/wp/v2/test/1882483?_locale=user | POST(8 vars, 68.4 kb) | Referer: /wp/wp-admin/post.php?post=1882483&action=edit
[2024-07-16 08:53:04 - 08:53:06] A 1.60 s | https://bonedo.ddev.site/xhprof/?run=669634f260f88&source=ddev | URI: /wp/wp-admin/post=1802483&action=edit&meta-box-loader=1&meta-box-loader=-honce=0d55fdbbb8&_locale=user | POST(67 vars, 0.0 kb) | Referer: /wp/wp-admin/post=1802483&action=edit&meta-box-loader=1&meta-box-loader=-honce=0d55fdbbb8&_locale=user | POST(67 vars, 0.0 kb) | Referer: /wp/wp-admin/post=1802483&action=edit&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=
[2824-87-16 88:53:86 - 88:53:87] A 0.88 s | https://bonedo.ddev.site/xhprof/?run=669634f34536a&source=ddev | URI: /wp/wp-admin/post.php?post=1802483&action=edit&message=4 | GET | Referrer: /wp/wp-admin/post.php?post=1802483&action=edit
[2824-87-16 88:52:55 - 88:53:13] & 18.75 s | https://bonedo.ddev.site/xhorof/?run=669634f9c8567&source=ddev | URI: /wp-ison/wp/v2/blocks?context=edit&per page=188& locale=user | GET | Referer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:53:54 - 88:53:54] A 8.12 s | https://bonedo.ddev.site/xhprof/?run=66963522b8047&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 8.2 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2024-87-16 88:55:54 - 88:55:54] & 0.14 s | https://bonedo.ddev.site/xhprof/?run=6696359ab392e&source=ddev | URI: /wp/wp-admin/admin-ajax.php | PGST(6 vars. 0.2 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
[2824-87-16 88:57:54 - 88:57:54] A 0.14 s | https://bonedo.ddev.site/xhprof/?run-66963612b3abd&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars. 8.2 kb) | Referrer: /wp/wp-admin/post.php?post=1882483&action=edit
```



db.log

http.log

```
[2024-07-16 08:53:07] xhprof id: https://bonedo.ddev.site/xhprof/?run=669634f34536a&source=ddev, 669634f34536a

Total http requests time: 0.2178 s

Total http requests: 2

[0.1086 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)

Headers: none

Body: site=https%3A%2F%2Fbonedo.ddev.site%2Fwp&api_key=123456789abcdef&data%5Bpost_id%5D=0&data%5Bmax_results%5D=50

[0.1092 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)

Headers: none

Body: site=https%3A%2F%2Fbonedo.ddev.site%2Fwp&api_key=123456789abcdef&data%5Bpost_id%5D=0&data%5Bmax_results%5D=5000
```



Additional information with our toolset slow SQL queries

```
Cdgbonedo-web:/tmp/xhprofs more xhprof.log
[2024-07-16 10:34:55 - 10:34:55] $\Delta 0.14 s | https://bonedo.ddev.site/xhprof/?run=66964ccfacbac&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 22.2 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:35:28 - 10:35:28] $\Delta 0.12 s | https://bonedo.ddev.site/xhprof/?run=66964cf836c58&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 82.2 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:35:12] $\Delta 136.67 s | https://bonedo.ddev.site/xhprof/?run=66964d5867d62&source=ddev | URI: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:37:12 - 10:37:14] $\Delta 2.01 s | https://bonedo.ddev.site/xhprof/?run=66964d5867f441&source=ddev | URI: /wp/wp-admin/post.php?post=615818&action=edit&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-loader=1&meta-box-load
```

```
[2824-87-16 18:37:12] xhprof id: 66964d5867d62, https://bonedo.ddev.site/xhprof/?run=66964d5867d62&source=ddev
Total query time: 134.7482 s
Total queries: 358
Queries skipped: 396 (> 0.1 s)
Shown queries 52

[6.0875 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2022/08/2110_Modularsystem_planen_leicht_gemacht_1260x756_v01-1059136.jpg'

[2.4577 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2022/12/2212_Eurorack_erste_Schritte_1260x756_v01.jpg'

[2.3583 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2020/67/An_109PMS12.png'

[3.6287 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2020/67/An_109PMS12.png'
```



Additional information with our toolset blocking sessions

st&test=no&_ajax_nonce=81a87b870a&1721127340486 GET Referrer: /v
cale=user GET Referrer: /wp/wp-admin/post.php?post=615818&action
er GET Referrer: /wp/wp-admin/post.php?post=615818&action=edit
er GET Referrer: /wp/wp-admin/post.php?post=615818&action=edit
Cname%2Csite_icon%2Csite_icon_url%2Csite_logo%2Ctimezone_string%2Cur
Referrer: /wp/wp-admin/post.php?post=615818&action=edit

			- \			
Function Name	Calls	Calls%	Inc	. Wall Time (microsec)	IWall%	Excl. Wall Time (microsec)
curl exec	154	0.0%		14,278,594	89.8%	14,270,510
mysqli query	285	0.0%		313,581	2.0%	313,581
WP Hook::apply filters@2	22,531	1.0%		340,726	2.1%	65,066

Function Name	Calls	Calls%	Incl. Wall Time (microsec)	IWall%	Excl. Wall Tin
session start	1	0.0%	15,892,880	99.1%	15,892,88
preg match	1,488	0.5%	7,126	0.0%	7,12
WP Translation File MO::parse file	8	0.0%	8,281	0.1%	TAT
WP Hook::apply filters@2	3.392	1.0%	7,378	0.0%	

Xhprof with our toolset



https://github.com/coding-pioneers/xhprof-toolset



8. Redis for PHP Sessions

- By default session_start() is blocking
 Multiple requests in short succession will slow each other down
- session_start() is used by Ninja Firewall*
- Using Redis for sessions will prevent this

*) With Ninja Firewall 4.7, they released a new kind of session management, which might actually fix this issue.



9. Optimizing attachment_url_to_postid()

SELECT post_id, meta_value FROM wp_postmeta WHERE

meta_key = '_wp_attached_file' AND meta_value =

'/2024/11/wordcamp_netherlands.jpg'

Whooping 4s In words: four seconds



9. Optimizing attachment_url_to_postid()

Evaluated adding an index to wp_postmeta

Used a custom table and a custom query.

Added the query to a custom table using 'query'

And created a ticket for a better bypass

https://core.trac.wordpress.org/ticket/61383

Was released with 6.7 earlier this month



Updated Numbers

	Before	After
Heartbeat	2.5 s	0.7 s
Saving a post	40+ s	9 s
Opening a post	8 s	2 s
Fully editable	15+ s	4 s





– Anthony Burill



