Bachelorproef:
Improving Drupal's page loading performance

Wim Leers

Promotor: Prof. dr. Wim Lamotte
Co-promotor: dr. Peter Quax
Begeleiders: Stijn Agten & Maarten Wijnants

Overzicht

- Drupal Episodes module

- Drupal Episodes Server module

- Daemon

- Drupal CDN module

- Planning

- Vragen?

Drupal Episodes module

Episodes:

```
pageready – 1388ms
totaltime – 1388ms
backend – 492ms
                                frontend – 896ms
                                domready – 795ms
                                    episodes – 36ms
                                        css – 63ms
                                            headerjs – 394ms
```
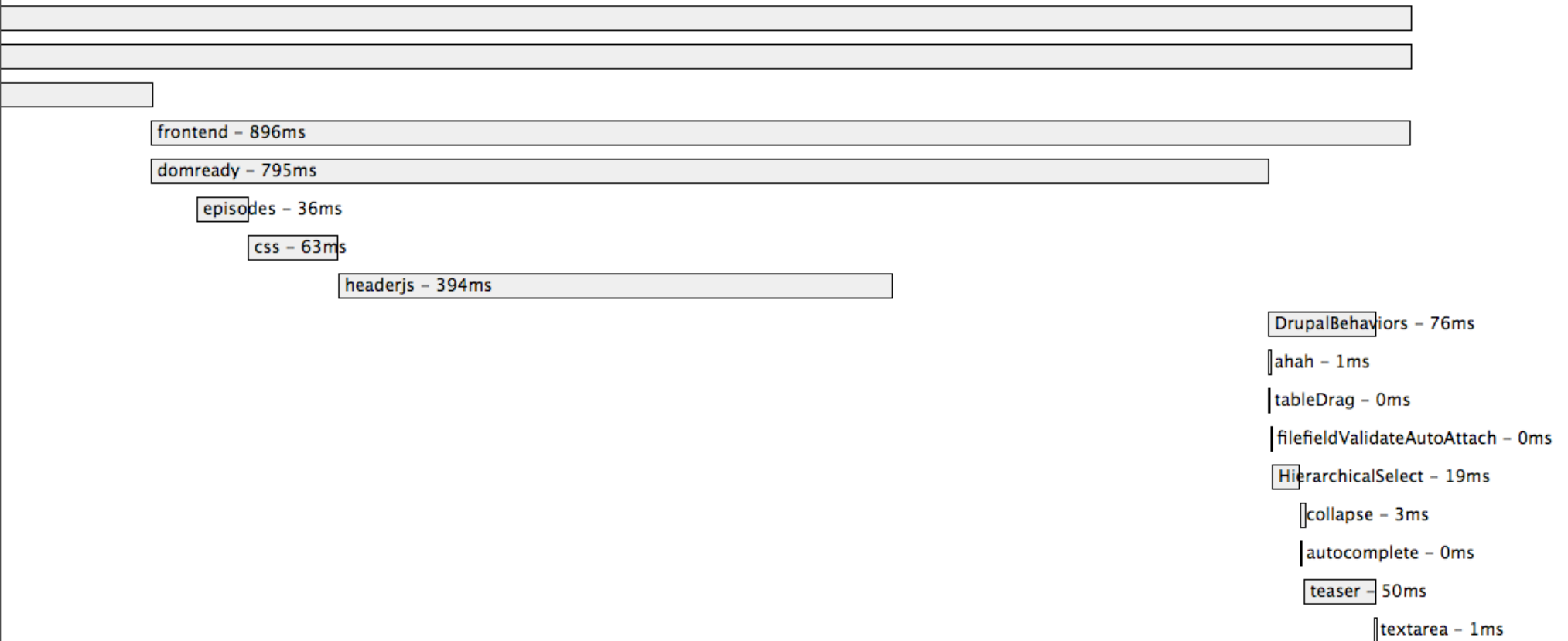
Drupal Episodes module

frontend – 896ms

domready – 795ms

episodes – 36ms

css – 63ms

headerjs – 394ms

DrupalBehaviors – 76ms

ahah – 1ms

tableDrag – 0ms

filefieldValidateAutoAttach – 0ms

HierarchicalSelect – 19ms

collapse – 3ms

autocomplete – 0ms

teaser – 50ms

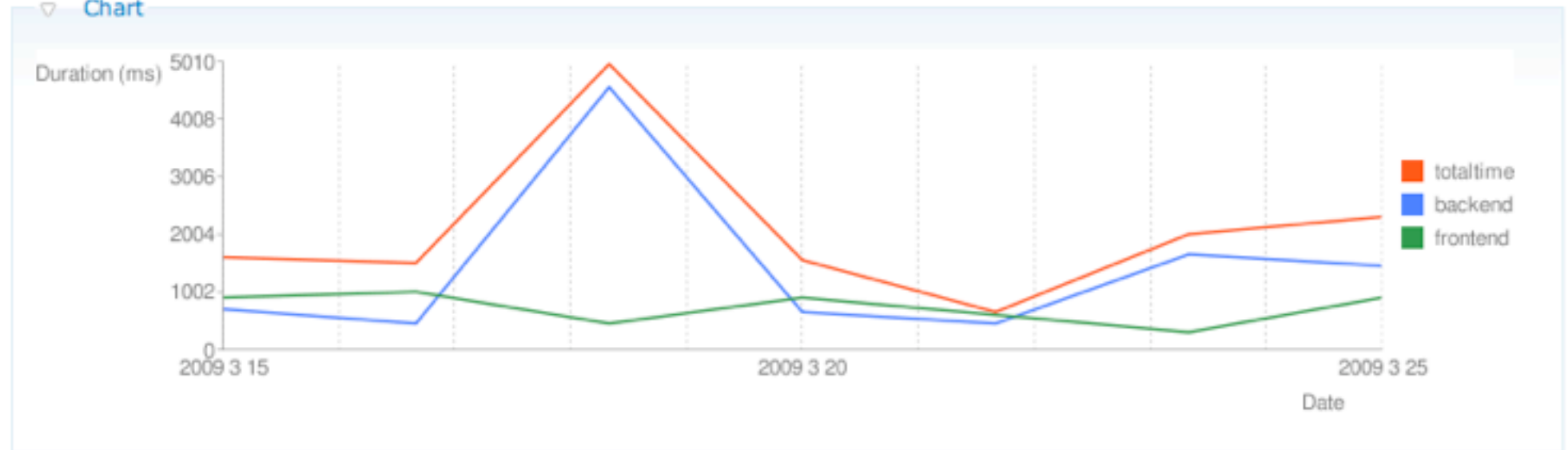textarea – 1ms

Drupal Episodes module

Drupal Episodes Server module

Reports

3750 episode measurements have been collected over 379 page views (58 of which also contain measurements of the back-end) **since Sunday, March 15, 2009 - 01:15.**
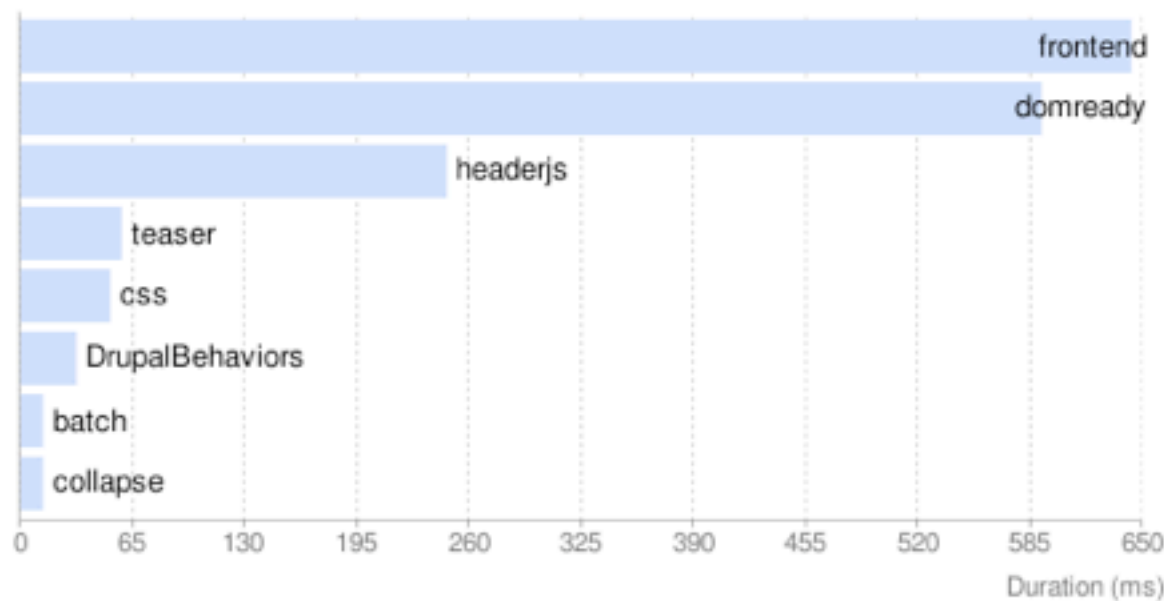
Page loading performance

▽ Chart

Duration (ms)

5010

4008

3006

2004

1002

0

2009 3 15   2009 3 20   2009 3 25

Date

■ totaltime
■ backend
■ frontend

▷ Table

Episodes

1002

0

2009 3 15   2009 3 20   2009 3 25

Date

▷ Table

Episodes

▽ Chart

Not displayed in this chart:

○ episodes that need less than 10 ms

○ episodes that contain other episodes

frontend
domready
headerjs
teaser
css
DrupalBehaviors
batch
collapse

| 0 | 65 | 130 | 195 | 260 | 325 | 390 | 455 | 520 | 585 | 650 |

Duration (ms)

▷ Table

Daemon

- Gedaan

  - filter.py & pathscanner.py

  - fsmonitory.py (fsmonitor_inotify.py, fsmonitor_fsevents.py, fsmonitor_polling.py)

  - transporter.py (transporter_ftp.py, transporter_s3.py, transporter_cf.py)

  - processor.py (image_optimizer.py, unique_filename_md5.py, unique_filename_mtime.py)

- Nog te doen: config_parser.py, persistent_queue.py, arbitrator.py, naam bedenken, beperkte testfase

Drupal CDN module

- Gedaan

  - core patch: niet de "finale" oplossing o.w.v. gebrek aan consensus

- Nog te doen:

  - config_parser.py + filter.py porten naar PHP

  - synced_files.db van daemon gebruiken

Planning

- voltooien daemon code + bijbehorende tekst: 6 mei

- voltooien Drupal CDN module + bijbehorende tekst: 10 mei

- einde beperkte testfase: 20 mei

Vragen?

http://wimleers.com/tags/bachelor-thesis