

Core - Bug # 54982

Epic # 55070 (Accepted): Workpackages

Epic # 55065 (New): WP: Overall System Performance (Backend and Frontend)

Bug # 52949 (Resolved): Speed decrease since 4.5

Status:	Resolved	Priority:	Should have
Author:	Rupert Germann	Category:	Performance
Created:	2014-01-14	Assigned To:	Alexander Opitz
Updated:	2015-03-03	Due date:	
TYPO3 Version:	6.2		
PHP Version:	5.4		
Complexity:			
Is Regression:	Yes		
Sprint Focus:			
Subject:	Performance of eID-scripts in TYPO3 6.2		
Description	<p>Compared to TYPO3 4.5 Eid calls in TYPO3 6.2 are very slow.</p> <p>I made some tests with a simple extension which only includes and executes a mostly empty php file via the Eid mechanism. tests where made with apache bench on a Windows machine.</p> <p>ab comandline was: <code>ab.exe -n 1000 -c 8 "url"</code></p> <p>APC off requests/s TYPO3 6.2 20 TYPO3 4.5.30 79</p> <p>APC On (shm size = 64m) requests/s TYPO3 6.2 23 TYPO3 4.5.30 147</p> <p>you see that 6.2 is roundabout 4 times slower with APC disbled and more than 6 times slower with APC enabled. If I analyze this calls with a profiler I see that most of the time is wasted in the classloader cache.</p> <p>Possible solutions:</p> <p>optimize the classloader performance. move the Eid Hook to an earlier place in the bootstrapping sequence.</p>		

History

#1 - 2014-01-14 15:27 - Rupert Germann

- Target version set to 6.2.0

#2 - 2014-01-14 16:37 - Markus Klein

- Parent task set to #52949

#3 - 2014-01-20 16:32 - Ingo Schmitt

- Category set to Performance

#4 - 2014-02-24 11:49 - Alexander Opitz

Hi Rupert,

I'd like to take a look into this. Can you please add your Test Extension as zip file here?

Also I'd like to know more about your used software versions of PHP, apc, apache.

I don't think it will work to move the Eid hook in bootstrapping before class loader, course else we wouldn't have classes. ;)

#5 - 2014-05-13 12:50 - Oliver Hader

- Status changed from New to Needs Feedback

Is this still valid? A lot of things have been optimized with the help of the performance workpackage in February and March 2014...

#6 - 2014-09-07 17:32 - Stephan Großberndt

- File `eid_test.zip` added

This is still valid. Even if the difference is less now - still about 2 times slower with and without APC.

I have created a eID-Test-Extension with four very simple test cases:

Requests per second [#/sec] (mean)

Version: Non-APC || APC

`/index.php?eID=eid_test`

4.5.36-dev: 81.87 || 95.25

6.2.-dev: 42.51 || 49.87

`/index.php?eID=eid_test_db`

4.5.36-dev: 74.19 || 92.10

6.2.-dev: 40.27 || 45.61

`/index.php?eID=eid_test_feuser`

4.5.36-dev: 45.05 || 74.01

6.2.-dev: 30.28 || 37.88

`/index.php?eID=eid_test_db_feuser`

4.5.36-dev: 81.52 || 100.15

6.2.-dev: 41.07 || 47.75

The extension directory also contains a logs/eid_test.bat with the ab.exe calls and subdirectories logs/apc logs/non-apc with the full ab.exe reports

These tests were run with xampp-win32-1.8.2-6-VC9-installer.exe - Apache 2.4.10, MySQL 5.5.39, PHP 5.4.31

APC tests were run with php_apc-3.1.10-5.4-vc9-x86.zip - ts/php_apc.dll, apc.shm_size = "256M"

As you can see there is a huge performance penalty if you use tslib_eidtools::initFeUser() and do not use tslib_eidtools::connectDB() before!

#7 - 2014-09-07 17:54 - Stephan Großberndt

So I just found out it is not necessary since 6.1 to do tslib_eidtools::connectDB(), it just does
\\TYPO3\CMS\Core\Utility\GeneralUtility::logDeprecatedFunction in 6.1 and later.

So you may just ignore the _db tests, but anyway - the difference is there.

Time per request: [ms] (mean)

Version: Non-APC || APC

/index.php?eID=eid_test_feuser

4.5.36-dev: 177.570 || 108.093

6.2.-dev: 264.232 || 211.180

#8 - 2014-09-11 16:07 - Alexander Opitz

- Status changed from Needs Feedback to Accepted

- Assigned To set to Alexander Opitz

- Target version deleted (6.2.0)

#9 - 2015-01-24 16:22 - Marcus Schwemer

Hi,

we run into the same issue using the extension "powermail_cond".

It would be very good if there would be some progress.

TIA

Marcus

#10 - 2015-03-02 20:26 - Wouter Wolters

- Status changed from Accepted to Needs Feedback

Please re-check the speed with 6.2.10. With the new classloading mechanism this should be faster now.

#11 - 2015-03-02 21:55 - Stephan Großberndt

- Subject changed from Very bad Eld Performance in TYPO3 6.2 to Very bad eID-Performance in TYPO3 6.2

On the same machine as before:

Requests per second [#/sec] (mean)

Version: No-Cache || APC || PHP 5.5 opcache

/index.php?eID=eid_test

4.5.36-dev PHP 5.4: 81.87 || 95.25 || -

6.2.4 PHP 5.4: 42.51 || 49.87 || -

6.2.4 PHP 5.5: 61.30 || - || 332.89

6.2.11-dev PHP 5.5: 63.08 || - || 361.36

7.2-dev PHP 5.5: 65.42 || - || 426.56

/index.php?eID=eid_test_feuser

4.5.36-dev PHP 5.4: 45.05 || 74.01 || -

6.2.4 PHP 5.4: 30.28 || 37.88 || -

6.2.4 PHP 5.5: 44.34 || - || 191.62

6.2.11-dev PHP 5.5: 45.36 || - || 200.01

7.2-dev PHP 5.5: 46.36 || - || 216.01

For 7.2-dev I used in eid_test_feuser.php

```
<?php
```

```
$feUserObj = TYPO3\CMS\Frontend\Utility\EidUtility::initFeUser(); // Initialize FE user object
```

```
var_dump('eid_test_feuser!');
```

Whereas one might conclude: Performance is marginally better in TYPO3, update PHP to 5.5 and **use php_opcache!**

Until now I used the standard debian PHP packages but now I consider using dotdeb.org...

#12 - 2015-03-02 22:16 - Alexander Opitz

Can you please add TYPO3 4.5 with PHP 5.5 for comparision?

#13 - 2015-03-02 22:51 - Stephan Großberndt

Requests per second [#/sec] (mean)

Version: No-Cache || APC || PHP 5.5 opcache

/index.php?eID=eid_test

4.5.36-dev PHP 5.4: 81.87 || 95.25 || -

6.2.4 PHP 5.4: 42.51 || 49.87 || -

4.5.41-dev PHP 5.5: 88.06 || - || 175.04

6.2.4 PHP 5.5: 61.30 || - || 332.89

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4/5

6.2.11-dev PHP 5.5: 63.08 || - || 361.36

7.2-dev PHP 5.5: 65.42 || - || 426.56

/index.php?eID=eid_test_feuser

4.5.36-dev PHP 5.4: 45.05 || 74.01 || -

6.2.4 PHP 5.4: 30.28 || 37.88 || -

4.5.41-dev PHP 5.5: 53.34 || - || 137.76

6.2.4 PHP 5.5: 44.34 || - || 191.62

6.2.11-dev PHP 5.5: 45.36 || - || 200.01

7.2-dev PHP 5.5: 46.36 || - || 216.01

#14 - 2015-03-03 14:40 - Christian Kuhn

- *Status changed from Needs Feedback to Resolved*

Neat results :) I guess we can finally close this one then :)

#15 - 2015-03-03 15:36 - Alexander Opitz

I'm a bit puzzled.

for PHP5.5 and /index.php?eID=eid_test

4.5 is 88:63 better then 6.2 without cache but with opcache 4.5 is 137:200 slower then 6.2? This means opcache fastens 6.2 so much better then 4.5?

Really?

#16 - 2015-03-03 16:24 - Stephan Großberndt

- *Subject changed from Very bad eID-Performance in TYPO3 6.2 to Performance of eID-scripts in TYPO3 6.2*

Those were my results. The test extension is in this ticket, scripts as well. Test it yourself :-)

Files

eid_test.zip	16.2 kB	2014-09-07	Stephan Großberndt
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