

## Core - Task # 54990

Epic # 55070 (Accepted): Workpackages

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

Story # 55073 (Closed): review autoloader and language cache

<b>Status:</b>	Resolved	<b>Priority:</b>	Should have
<b>Author:</b>	Rupert Germann	<b>Category:</b>	Performance
<b>Created:</b>	2014-01-14	<b>Assigned To:</b>	
<b>Updated:</b>	2015-01-24	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.2		
<b>PHP Version:</b>	5.4		
<b>Complexity:</b>			
<b>Sprint Focus:</b>			
<b>Subject:</b>	ClassLoader cache ist too slow, no matter which CF Backend is used		
<b>Description</b>	<p>while Profiling a 6.2 installation with XHProf I found that the most expensive part of the request is always the classloader cache - no matter which CF backend is used for it.</p> <p>the attached callgraphs both show the delivery of a cached page, one with the default configuration (simple file backend) and one with the classloader cache Backend set to memcached.</p> <p>In both cases we see that either <code>file_get_contents()</code> or <code>Memcach::get()</code> is the most expensive function.</p> <p>the request times (mesured with the adminPanel) are almost the same in both cases: ~155ms with simple file backend and 150 ms with memcache</p> <p>Since memcache should be way faster than the filesystem I think there's a lot of room for optimizing in the classloader.</p>		
<b>Related issues:</b>	related to Core - Bug # 55029: Class Loader fails if entry in class cache is ... <b>Closed</b> <b>2014-01-15</b>		

### History

#### #1 - 2014-01-14 17:09 - Markus Klein

- Parent task set to #52949

#### #2 - 2014-01-15 11:59 - Helmut Hummel

Hi Rupi,

Rupert Germann wrote:

*Since memcache should be way faster than the filesystem I think there's a lot of room for optimizing in the classloader.*

I'm looking at the graph and the code and really asking myself where the room is for optimizing. Given the cache is populated, the code is pretty straightforward and only does 3 things:

1. lookup the cache entry
2. get the cache entry
3. require the class file

Can you elaborate how this could be optimized?

**#3 - 2014-01-15 12:08 - Helmut Hummel**

Rupert Germann wrote:

| *In both cases we see that either `file_get_contents()` or `Memcach::get()` is the most expensive function.*

The memcache backend is also [not optimal](#) here. Can you check the performance with an APC backend?

**#4 - 2014-01-15 14:16 - Helmut Hummel**

Numbers from my Server for incl wall time of loadClass

1. SimpleFileBackend: 61,557
2. ApcBackend: 23,505

APC is roughly 3 times faster

**#5 - 2014-01-15 22:41 - Helmut Hummel**

- Status changed from New to Needs Feedback

**#6 - 2014-01-15 23:20 - Helmut Hummel**

- Status changed from Needs Feedback to New

**#7 - 2014-01-16 16:38 - Ingo Schmitt**

- Parent task changed from #52949 to #55073

**#8 - 2014-01-20 16:33 - Ingo Schmitt**

- Category set to Performance

**#9 - 2014-01-20 17:52 - Rupert Germann**

Yes, indeed APC is way faster here.

But the point is: I don't want to use accelerators just to make a site usable.

In case I really need an accelerator because my site has a huge load than I'm already out of options.

**#10 - 2015-01-24 09:40 - Mathias Schreiber**

- Status changed from New to Resolved

composer classloader solves this

**Files**

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callgraph_filesystem.png	2.8 MB	2014-01-14	Rupert Germann
callgraph_memcached.png	2.2 MB	2014-01-14	Rupert Germann