

## Core - Bug # 63668

Bug # 63692 (Accepted): Memory consumption while bulk inserting

<b>Status:</b>	Resolved	<b>Priority:</b>	Must have
<b>Author:</b>	Stephan Großberndt	<b>Category:</b>	Performance
<b>Created:</b>	2014-12-08	<b>Assigned To:</b>	
<b>Updated:</b>	2014-12-12	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.2		
<b>PHP Version:</b>			
<b>Complexity:</b>	easy		
<b>Is Regression:</b>	No		
<b>Sprint Focus:</b>			
<b>Subject:</b>	High memory consumption in DataHandler->fillInFieldArray while bulk inserting		
<b>Description</b>			
<p>DataHandler-&gt;fillInFieldArray calls</p> <pre>\$eFile = \TYPO3\CMS\Core\Html\RteHtmlParser::evalWriteFile(\$vconf['spec']['static_write'], array_merge(\$currentRecord, \$fieldArray));</pre> <p>for each field of each record to insert. In each call array_merge(\$currentRecord, \$fieldArray) is done only to throw it away again immediately and do nothing in most cases - does anyone use staticFileEditPath? I don't think so:</p> <p><a href="http://forum.typo3.org/index.php/t/195196/">http://forum.typo3.org/index.php/t/195196/</a></p> <pre>\$types_fieldConfig = BackendUtility::getTCATypes(\$table, \$currentRecord); \$typeString = BackendUtility::getTCATypeValue(\$table, \$currentRecord); if (is_array(\$types_fieldConfig)) {     foreach (\$types_fieldConfig as \$vconf) {         // Write file configuration:         // inserted array_merge(\$currentRecord,\$fieldArray) 170502         \$eFile = \TYPO3\CMS\Core\Html\RteHtmlParser::evalWriteFile(\$vconf['spec']['static_write'], array_merge(\$currentRecord, \$fieldArray));         // RTE transformations:         if (!\$this-&gt;dontProcessTransformations) {         }     } }</pre> <p>Instead of unconditionally merging and throwing away again only merge if static_write is enabled</p> <pre>\$types_fieldConfig = BackendUtility::getTCATypes(\$table, \$currentRecord); \$typeString = BackendUtility::getTCATypeValue(\$table, \$currentRecord); if (is_array(\$types_fieldConfig)) {     foreach (\$types_fieldConfig as \$vconf) {         if (is_array(\$vconf['spec']['static_write']) &amp;&amp; \$GLOBALS['TYPO3_CONF_VARS']['BE']['staticFileEditPath']) {             // only do array_merge if static_write is enabled             \$eFile = \TYPO3\CMS\Core\Html\RteHtmlParser::evalWriteFile(\$vconf['spec']['static_write'], array_merge(\$currentRecord, \$fieldArray));         } else {             \$eFile = null;         }         // RTE transformations:         if (!\$this-&gt;dontProcessTransformations) {         }     } }</pre>			

I think even more easy optimizations are possible here (keep array\_merge and do not create again in \$mixedRec = array\_merge(\$currentRecord, \$fieldArray);) but this is only executed if static\_write is enabled anyway.

For bulk insert of 6500 records:

- 98000 calls less
- 0.5 seconds faster
- memory usage of array\_merge()-Function down from 128MB to 6MB

#### Related issues:

related to Core - Task # 63818: Remove staticFileEditPath magic

Resolved

2014-12-12

#### Associated revisions

##### Revision c1965e21 - 2014-12-12 20:31 - Stephan Großberndt

[BUGFIX] Better performance for bulk inserts without static\_write

In DataHandler->fillInFieldArray for every record to insert or update current and new data are merged to be handed over to the static\_write functionality. If this functionality is disabled (which is the default) the merged data is discarded again.

Checks if the static\_write functionality is enabled and merges data only if it is enabled. This drastically lowers memory usage for bulk operations.

In master, the static\_write functionality was removed completely, for 6.2 the performance of this code section is improved.

Resolves: #63668

Releases: 6.2

Change-Id: I625a771a98a5f79bab3a8d22464895fcbdcf4068

Reviewed-on: <http://review.typo3.org/35370>

Reviewed-by: Christian Kuhn <[loli@schwarzbu.ch](mailto:loli@schwarzbu.ch)>

Tested-by: Christian Kuhn <[loli@schwarzbu.ch](mailto:loli@schwarzbu.ch)>

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##### Revision 4dd99fee - 2014-12-12 21:52 - Christian Kuhn

[!!!][TASK] Remove static file edit magic

Configuring RTE fields TCA in defaultExtras section with static\_write enabled the DataHandler to write content to specific sections of files in a specific directory.

This feature is documented and existed for a long time, but is not used in the wild. Searching for keywords just revealed a very outdated demo page, the according core source and documentation. No extension or real live use case was found and even a call for feedback on this by Benni half a year ago got no answers.

The patch removes this feature without substitution and improves DataHandler performance as a nice side effect.

Resolves: #63818

Resolves: #63668

Releases: master

Change-Id: I5532ba1565370baeb03ce074c8ab8036a0936d5b

Reviewed-on: <http://review.typo3.org/35369>

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Tested-by: Christian Kuhn <[loli@schwarzbu.ch](mailto:loli@schwarzbu.ch)>

## History

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### #1 - 2014-12-09 07:04 - Philipp Gampe

- Parent task set to #63692

### #2 - 2014-12-09 14:52 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 1 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/35192>

### #3 - 2014-12-12 15:32 - Gerrit Code Review

Patch set 2 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/35192>

### #4 - 2014-12-12 20:08 - Gerrit Code Review

Patch set 2 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/35369>

### #5 - 2014-12-12 20:13 - Gerrit Code Review

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/35370>

### #6 - 2014-12-12 20:14 - Gerrit Code Review

Patch set 3 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <http://review.typo3.org/35369>

**#7 - 2014-12-12 20:16 - Christian Kuhn**

the patch for master was abandoned, the issue is solved with #63818  
for 6.2, the patch was re-pushed.

**#8 - 2014-12-12 20:18 - Gerrit Code Review**

Patch set 4 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/35369>

**#9 - 2014-12-12 21:00 - Stephan Großberndt**

- *Status changed from Under Review to Resolved*  
- *% Done changed from 0 to 100*

Applied in changeset commit:c1965e2166e580a68d539aa4382f4d3367035d8d.

**#10 - 2014-12-12 21:45 - Gerrit Code Review**

- *Status changed from Resolved to Under Review*

Patch set 3 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/35192>

**#11 - 2014-12-12 22:00 - Christian Kuhn**

- *Status changed from Under Review to Resolved*

Applied in changeset commit:4dd99fee1f24f4106a153743fb59f98dbae268b5.