# Core - Bug # 63670

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

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|---|---|---|---|
| **Status:** | Resolved | **Priority:** | Must have |
| **Author:** | Stephan Großberndt | **Category:** | Performance |
| **Created:** | 2014-12-08 | **Assigned To:** | |
| **Updated:** | 2015-03-31 | **Due date:** | |

| | |
|---|---|
| **TYPO3 Version:** | 6.2 |
| **PHP Version:** | |
| **Complexity:** | |
| **Is Regression:** | No |
| **Sprint Focus:** | |

| | |
|---|---|
| **Subject:** | High memory consumption in DataHandler->checkValue_input while bulk inserting |

**Description**

In DataHandler->checkValue_input for each input value of each record to insert is executed.

```
// Process evaluation settings:
$evalCodesArray = GeneralUtility::trimExplode(',', $tcaFieldConf['eval'], TRUE);
```

While this may seem minor introducing a cache here helps:

```
public function checkValue_input($res, $value, $tcaFieldConf, $PP, $field = '') {
    static $evalCodesCache = array();

    [...]
    // Process evaluation settings:
    if ($evalCodesCache[$tcaFieldConf['eval']]) {
        $evalCodesArray = $evalCodesCache[$tcaFieldConf['eval']];
    } else {
        $evalCodesArray = GeneralUtility::trimExplode(',', $tcaFieldConf['eval'], TRUE);
        $evalCodesCache[$tcaFieldConf['eval']] = $evalCodesArray;
    }
```

For bulk inserting of 6500 records:
  - 2 calls instead of 44646 to trimExplode from this function
  - 0.7 sec faster
  - memory_usage of trimExplode down by 17MB

## Associated revisions

**Revision 5acee1d3 - 2015-03-18 21:25 - Stephan Großberndt**

[BUGFIX] DataHandler: Cache TCA field eval array

Introduce a runtime cache for the eval values of TCA input and text

fields. This improves performance for bulk inserts since

DataHandler->checkValue_input and checkValue_text are called for each

according field of each record and the available evaluations do not

change during a call. If no eval is set, do not execute

checkValue_*_Eval functions at all.

Additionally align usages of getMemoryCache() to runtimeCache and
keys of nestedElementCalls and elementsToBeDeleted in cache_runtime.

Resolves: #63670
Releases: master, 6.2
Change-Id: I3d2122a61e3194402743fa0b364d6bd80d4e72dc
Reviewed-on: http://review.typo3.org/35186
Reviewed-by: Nicole Cordes <typo3@cordes.co>
Reviewed-by: Markus Klein <klein.t3@reelworx.at>
Tested-by: Markus Klein <klein.t3@reelworx.at>
Reviewed-by: Jigal van Hemert <jigal.van.hemert@typo3.org>
Tested-by: Jigal van Hemert <jigal.van.hemert@typo3.org>


**Revision 4a9e5fdb - 2015-03-19 00:24 - Nicole Cordes**

[FOLLOWUP][BUGFIX] DataHandler: Cache TCA field eval array

This fixes failing functional tests.

Resolves: #63670
Releases: master
Change-Id: Ief6ec0d6a1d2f45a7b8cb512741af722807aad9d
Reviewed-on: http://review.typo3.org/37937
Reviewed-by: Stephan Großberndt <stephan@grossberndt.de>
Reviewed-by: Markus Klein <klein.t3@reelworx.at>
Tested-by: Markus Klein <klein.t3@reelworx.at>


**Revision c1bb6311 - 2015-03-31 18:53 - Stephan Großberndt**

[BUGFIX] DataHandler: Cache TCA field eval array

Introduce a runtime cache for the eval values of TCA input and text
fields. This improves performance for bulk inserts since
DataHandler->checkValue_input and checkValue_text are called for each
according field of each record and the available evaluations do not
change during a call. If no eval is set, do not execute
checkValue_*_Eval functions at all.

Additionally align usages of getMemoryCache() to runtimeCache and
keys of nestedElementCalls and elementsToBeDeleted in cache_runtime.

Resolves: #63670
Releases: master, 6.2
Change-Id: I3d2122a61e3194402743fa0b364d6bd80d4e72dc
Reviewed-on: http://review.typo3.org/37963
Reviewed-by: Markus Klein <klein.t3@reelworx.at>
Tested-by: Markus Klein <klein.t3@reelworx.at>


**History**

**#1 - 2014-12-09 07:03 - Philipp Gampe**

*- Parent task set to #63692*

**#2 - 2014-12-09 12:51 - 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/35186

**#3 - 2014-12-09 13:14 - 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/35186

**#4 - 2014-12-09 13:35 - 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/35186

**#5 - 2014-12-11 10:42 - 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/35186

**#6 - 2014-12-11 10:44 - Gerrit Code Review**

Patch set 5 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#7 - 2014-12-11 11:35 - Gerrit Code Review**

Patch set 6 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#8 - 2014-12-11 13:56 - Gerrit Code Review**

Patch set 7 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#9 - 2014-12-24 01:22 - Gerrit Code Review**

Patch set 8 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#10 - 2015-01-05 15:40 - Gerrit Code Review**

Patch set 9 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#11 - 2015-01-05 16:39 - Stephan Großberndt**

*- File eval.txt added*

**#12 - 2015-01-10 00:53 - Gerrit Code Review**

Patch set 10 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#13 - 2015-01-11 13:44 - Gerrit Code Review**

Patch set 11 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#14 - 2015-01-16 12:45 - Gerrit Code Review**

Patch set 12 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#15 - 2015-01-21 13:48 - Gerrit Code Review**

Patch set 13 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#16 - 2015-01-28 01:47 - Gerrit Code Review**

Patch set 14 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#17 - 2015-03-05 20:33 - Gerrit Code Review**

Patch set 15 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35186

**#18 - 2015-03-18 21:31 - Stephan Großberndt**

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

Applied in changeset commit:5acee1d3cec4dd807d41800a9bc4b82faf80286c.

**#19 - 2015-03-18 22:44 - Gerrit Code Review**

*- Status changed from Resolved 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/37937

**#20 - 2015-03-18 23:17 - 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/37937

**#21 - 2015-03-18 23:25 - 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/37937

**#22 - 2015-03-19 00:30 - Nicole Cordes**

*- Status changed from Under Review to Resolved*

Applied in changeset commit:4a9e5fdb0f5ef41f5eed88200b906a4a800300b4.

**#23 - 2015-03-19 20:52 - Gerrit Code Review**

*- Status changed from Resolved to Under 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/37963

**#24 - 2015-03-31 19:00 - Stephan Großberndt**

*- Status changed from Under Review to Resolved*

Applied in changeset commit:c1bb6311afc3477e449460193eda3a6c6826d38d.

**Files**

| | | | | |
|---|---|---|---|---|
| eval.txt | | 7.7 kB | 2015-01-05 | Stephan Großberndt |