# Core - Bug # 63782

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

| | | | |
|---|---|---|---|
| **Status:** | Resolved | **Priority:** | Should have |
| **Author:** | Stephan Großberndt | **Category:** | Performance |
| **Created:** | 2014-12-11 | **Assigned To:** | Stephan Großberndt |
| **Updated:** | 2015-03-03 | **Due date:** | |

| | |
|---|---|
| **TYPO3 Version:** | 6.2 |
| **PHP Version:** | |
| **Complexity:** | medium |
| **Is Regression:** | No |
| **Sprint Focus:** | |
| **Subject:** | Do not fetch all columns in ReferenceIndex->generateRefIndexData |

**Description**

Currently ReferenceIndex->generateRefIndexData fetches all data from each table and selects afterwards which fields and their contents are looked at searching for relations.

```
public function generateRefIndexData($table, $uid) {
    if (isset($GLOBALS['TCA'][$table])) {
        // Get raw record from DB:
        $record = $GLOBALS['TYPO3_DB']->exec_SELECTgetSingleRow('*', $table, 'uid=' . (int)$uid);
```

If the fields are selected beforehand using the information from the TCA a lot less data is fetched. This improves the speed of building the reference index as standalone task as well as when bulk inserting many records.

**Associated revisions**

**Revision 4eccaf60 - 2015-03-02 21:21 - Stephan Großberndt**

[BUGFIX] Do not fetch records from tables without references

If no field of a table can contain a reference by its TCA definition
do not fetch record from this table at all. For tables with fields
which can possibly contain references fetch only these fields instead
of all.

Cache list of fields which don't have to be checked in the local member
'nonRelationFields' instead of recreating the list for each and every
record.

Don't try to update references for tables sys_log, sys_history and
tx_extensionmanager_domain_model_extension since they cannot contain
references and usually have a big amount of records.

Introduce some early returns to make code more readable.

Improves performance for both bulk inserts and updating the reference
index from the command line.

Resolves: #63676

Resolves: #63782

Releases: master, 6.2

Change-Id: Ibc6f988bfde6042339595bf7b3e18125c64ae72d

Reviewed-on: http://review.typo3.org/35191

Reviewed-by: Frank Nägler <typo3@naegler.net>

Tested-by: Frank Nägler <typo3@naegler.net>

Reviewed-by: Anja Leichsenring <aleichsenring@ab-softlab.de>

Tested-by: Anja Leichsenring <aleichsenring@ab-softlab.de>


**Revision 223e0876 - 2015-03-03 20:54 - Stephan Großberndt**

[BUGFIX] Do not fetch records from tables without references

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Change-Id: Ibc6f988bfde6042339595bf7b3e18125c64ae72d

Reviewed-on: http://review.typo3.org/37478

Reviewed-by: Nicole Cordes <typo3@cordes.co>

Tested-by: Nicole Cordes <typo3@cordes.co>


**History**

**#1 - 2014-12-11 16:54 - Mathias Schreiber**

*- Parent task set to #63692*


**#2 - 2014-12-11 18:04 - Gerrit Code Review**

*- Status changed from New to Under 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/35191

**#3 - 2014-12-12 12:24 - 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/35191


**#4 - 2014-12-12 12:32 - 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/35191


**#5 - 2015-01-11 13:27 - 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/35191


**#6 - 2015-01-11 13:29 - 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/35191


**#7 - 2015-01-16 13:20 - 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/35191


**#8 - 2015-01-16 14:38 - 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/35191


**#9 - 2015-01-19 22:37 - 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/35191


**#10 - 2015-01-23 13:01 - 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/35191


**#11 - 2015-01-23 16:16 - 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/35191

**#12 - 2015-01-23 16:24 - 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/35191


**#13 - 2015-01-23 18:08 - 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/35191


**#14 - 2015-01-23 20:00 - Gerrit Code Review**

Patch set 16 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#15 - 2015-01-23 20:13 - Gerrit Code Review**

Patch set 17 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#16 - 2015-01-23 20:36 - Gerrit Code Review**

Patch set 18 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#17 - 2015-01-23 20:40 - Gerrit Code Review**

Patch set 19 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#18 - 2015-02-26 21:44 - Gerrit Code Review**

Patch set 20 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#19 - 2015-02-27 08:57 - Gerrit Code Review**

Patch set 21 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#20 - 2015-02-27 11:07 - Gerrit Code Review**

Patch set 22 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191

**#21 - 2015-02-27 11:27 - Gerrit Code Review**

Patch set 23 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#22 - 2015-02-27 11:30 - Gerrit Code Review**

Patch set 24 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#23 - 2015-02-27 12:59 - Gerrit Code Review**

Patch set 25 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#24 - 2015-03-02 18:21 - Gerrit Code Review**

Patch set 26 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#25 - 2015-03-02 20:53 - Gerrit Code Review**

Patch set 27 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at http://review.typo3.org/35191


**#26 - 2015-03-02 21:30 - Stephan Großberndt**
*- Status changed from Under Review to Resolved*
*- % Done changed from 0 to 100*


Applied in changeset commit:4eccaf60b7102a9300674834a8feee3803b85f9c.


**#27 - 2015-03-02 22:20 - 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/37478


**#28 - 2015-03-02 22:55 - Gerrit Code Review**

Patch set 2 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/37478


**#29 - 2015-03-03 21:00 - Stephan Großberndt**

*- Status changed from Under Review to Resolved*

Applied in changeset commit:223e0876e1fc81e896b032f9b526c86b961c017d.