

Core - Bug # 63676

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

Status:	Resolved	Priority:	Must have
Author:	Stephan Großberndt	Category:	Performance
Created:	2014-12-08	Assigned To:	
Updated:	2015-03-03	Due date:	
TYPO3 Version:	6.2		
PHP Version:			
Complexity:	no-brainer		
Is Regression:	No		
Sprint Focus:			
Subject:	High memory consumption for nonFields in ReferenceIndex->getRelations while bulk inserting		
Description			
<p>For each call of every record to get Relations from with ReferenceIndex->getRelations</p> <pre>public function getRelations(\$table, \$row, \$onlyField = "") { // Initialize: \$uid = \$row['uid']; \$nonFields = explode(',', 'uid,perms_userid,perms_groupid,perms_user,perms_group,perms_everybody,pid');</pre> <p>a static list of nonFields is initialized by exploding a string. Using a property instead</p> <pre>protected \$nonRelationFields = array('uid', 'perms_userid', 'perms_groupid', 'perms_user', 'perms_group', 'perms_everybody', 'pid'); [...] if (!in_array(\$field, \$this->nonRelationFields) && is_array(\$GLOBALS['TCA'][\$table]['columns'][\$field]) && (!\$onlyField \$onlyField === \$field)) {</pre> <p>reduced for bulk inserting of 6500 records</p> <ul style="list-style-type: none">- 10MB less ram used- 6500 calls less - obvious :-)			

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: lbc6f988bfde6042339595bf7b3e18125c64ae72d

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 <leichsenring@ab-softlab.de>

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

Revision 223e0876 - 2015-03-03 20:54 - 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.

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Change-Id: lbc6f988bfde6042339595bf7b3e18125c64ae72d

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

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

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

History

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

- Parent task set to #63692

#2 - 2014-12-09 14:42 - 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/35191>

#3 - 2014-12-11 17:50 - 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/35191>

#4 - 2014-12-11 18:01 - 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/35191>

#5 - 2014-12-11 18:04 - 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/35191>

#6 - 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>

#7 - 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>

#8 - 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>

#9 - 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>

#10 - 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>

#11 - 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>

#12 - 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>

#13 - 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>

#14 - 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>

#15 - 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>

#16 - 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>

#17 - 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>

#18 - 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>

#19 - 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>

#20 - 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>

#21 - 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>

#22 - 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>

#23 - 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>

#24 - 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>

#25 - 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>

#26 - 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>

#27 - 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>

#28 - 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>

#29 - 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.

#30 - 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>

#31 - 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>

#32 - 2015-03-03 21:00 - Stephan Großberndt

- *Status changed from Under Review to Resolved*

Applied in changeset commit:223e0876e1fc81e896b032f9b526c86b961c017d.