

Core - Bug # 63675

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

Status:	Closed	Priority:	Should have
Author:	Stephan Großberndt	Category:	Performance
Created:	2014-12-08	Assigned To:	
Updated:	2015-04-13	Due date:	
TYPO3 Version:	6.2		
PHP Version:			
Complexity:			
Is Regression:	No		
Sprint Focus:	Stabilization Sprint		
Subject:	High memory consumption for softRefs in ReferenceIndex->getRelations while bulk inserting		
Description			
<p>For every field of every record ReferenceIndex->getRelations executes:</p> <pre>// Soft References: if (strlen(\$value) && (\$softRefs = BackendUtility::explodeSoftRefParserList(\$conf['softref']))) {</pre> <p>The return value of explodeSoftRefParserList is not dependent on the record itself, but only table and field. Introducing a cache for softRefs</p> <pre>public function getRelations(\$table, \$row, \$onlyField = "") { static \$softRef_cache = array(); [...] // Soft References: if (isset(\$softRef_cache[\$table . 'f' . \$field])) { \$softRefs = \$softRef_cache[\$table . 'f' . \$field]; } else { \$softRefs = BackendUtility::explodeSoftRefParserList(\$conf['softref']); \$softRef_cache[\$table . 'f' . \$field] = \$softRefs; } if (strlen(\$value) && \$softRefs) {</pre> <p>reduces when inserting 6500 records:</p> <ul style="list-style-type: none">- 8 instead of 51,024 calls to explodeSoftRefParserList- 0.52 seconds faster- 4kb used instead of 2,5MB			

Associated revisions

Revision 72c3dec5 - 2015-04-13 16:58 - Stephan Großberndt

[BUGFIX] Cache results of explodeSoftRefParserList()

BackendUtility::explodeSoftRefParserList() is called with a very

limited set of input parameters, but processing is rather expensive.

Introduce a runtime cache to avoid processing the softrefs over and over.

This especially speeds up calls from `ReferenceIndex::getRelations()`, which is called many times.

Resolves: #63675

Releases: master, 6.2

Change-Id: I34a4392533828667c1b63b1ecb4ca12580e05e06

Reviewed-on: <http://review.typo3.org/35190>

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: Andreas Fernandez <andreas.fernandez@aspedia.de>

Reviewed-by: Xavier Perseguers <xavier@typo3.org>

Tested-by: Xavier Perseguers <xavier@typo3.org>

Revision 5a15c87f - 2015-04-13 17:32 - Stephan Großberndt

[BUGFIX] Cache results of `explodeSoftRefParserList()`

`BackendUtility::explodeSoftRefParserList()` is called with a very limited set of input parameters, but processing is rather expensive.

Introduce a runtime cache to avoid processing the softrefs over and over.

This especially speeds up calls from `ReferenceIndex::getRelations()`, which is called many times.

Resolves: #63675

Releases: master, 6.2

Change-Id: I34a4392533828667c1b63b1ecb4ca12580e05e06

Reviewed-on: <http://review.typo3.org/38662>

Reviewed-by: Xavier Perseguers <xavier@typo3.org>

Tested-by: Xavier Perseguers <xavier@typo3.org>

Reviewed-by: Andreas Fernandez <andreas.fernandez@aspedia.de>

Tested-by: Andreas Fernandez <andreas.fernandez@aspedia.de>

History

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

- Parent task set to #63692

#2 - 2014-12-09 14:34 - 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/35190>

#3 - 2014-12-09 18:20 - Philipp Gampe

- Subject changed from *High memory consumption in ReferenceIndex->getRelations while bulk inserting* to *High memory consumption for softRefs in ReferenceIndex->getRelations* while bulk inserting

#4 - 2014-12-10 18:32 - 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/35190>

#5 - 2015-01-09 12:13 - 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/35190>

#6 - 2015-01-10 00:20 - 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/35190>

#7 - 2015-01-10 00:23 - 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/35190>

#8 - 2015-01-10 00:24 - 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/35190>

#9 - 2015-01-16 12:07 - 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/35190>

#10 - 2015-01-16 12:24 - 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/35190>

#11 - 2015-01-16 15:08 - 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/35190>

#12 - 2015-01-21 13:57 - 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/35190>

#13 - 2015-03-05 20:58 - 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/35190>

#14 - 2015-04-13 16:07 - Stephan Großberndt

- *Target version changed from next-patchlevel to 6.2.12*
- *Sprint Focus set to Stabilization Sprint*

#15 - 2015-04-13 16:58 - 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/38662>

#16 - 2015-04-13 17:00 - Stephan Großberndt

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

Applied in changeset commit:72c3dec560e8f0c5bbdf668b342d5c99937801f1.

#17 - 2015-04-13 17:04 - Xavier Perseguers

- *Status changed from Resolved to Under Review*
- *% Done changed from 100 to 80*

Still not ready for 6.2

#18 - 2015-04-13 17:32 - 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/38662>

#19 - 2015-04-13 17:49 - Andreas Fernandez

- *Status changed from Under Review to Closed*

Merged