

TYPO3 Core - Bug #32756

Massive Memory Leak in 4.5.8+ / 4.6

2011-12-21 16:41 - Ronny Vorpahl

Status:	Closed	Start date:	2011-12-21
Priority:	Must have	Due date:	
Assignee:		% Done:	100%
Category:	Performance	Estimated time:	0.00 hour
Target version:		Complexity:	hard
TYPO3 Version:	4.5	Is Regression:	
PHP Version:		Sprint Focus:	
Tags:			

Description

This Bug is caused by the fix for [#15984](#)

... due to patched tslib_fe::checkPageGroupAccess used by tslib_cObj::getTreeList

When a treelist is built by tslib_cObj::getTreeList, the access rights are checked using tslib_fe::checkPageGroupAccess. Due to the Patch [#15984](#) the rootline is now loaded for EVERY PAGE IN THIS TREELIST, just to check the rights of the parent pages.

It seems the PHP Garbage collection fails in this case causing a memory limit exception. The implementation of tslib_pageSelect::getRootLine itself seems to be alright.

An example (limited test case):

Creating a full treelist of 537 pages in 4 levels (1+14+138+384 pages) resulted in over 10330 calls of tslib_DB::execSelectQuery and 10330 tslib_DB::sql_fetch_assoc just for tslib_pageSelect::getRootLine. The memory limit had to be raised to 1GB or the call failed with an exception.

This case was experienced in multiple PHP 5.3 environments.

xhprof PHP-Profiler including compared callgraphs are available. Two solution(s) are also on their way, but are still work in progress.

Please contact us for further details ...

Related issues:

Related to TYPO3 Core - Bug #34800: Page tree not responding	Closed	2012-03-13
Follows TYPO3 Core - Bug #15984: menu.showAccessRestrictedPages doesn't repl...	Accepted	2006-04-05

Associated revisions

Revision 8ae86045 - 2012-03-18 19:28 - Helmut Hummel

Revert "[BUGFIX] showAccessRestrictedPages doesn't replace links to restricted subpages"

Commit 3dd43f601820dac0d5009c0b06f1501899253b51 introduced a major performance overhead and is reverted for now.

Change-Id: I41311fb2769db1b5d45c249f5bdf90aba60220fc

Releases: 4.8, 4.7, 4.6, 4.5

Resolves: #32756

Reviewed-on: <http://review.typo3.org/9552>

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision b5d1b802 - 2012-03-18 19:33 - Helmut Hummel

Revert "[BUGFIX] showAccessRestrictedPages doesn't replace links to restricted subpages"

Commit 94feeb2596244bc463afd428aab41353eb1740a4 introduced a major performance overhead and is reverted for now.

Change-Id: Ia2aca9c0670a318681c94b5fafa89b8ac8e9b6f4

Releases: 4.8, 4.7, 4.6, 4.5

Resolves: #32756
Reviewed-on: <http://review.typo3.org/9730>
Reviewed-by: Christian Kuhn
Tested-by: Christian Kuhn

Revision a4c09665 - 2012-03-18 19:37 - Helmut Hummel

Revert "[BUGFIX] showAccessRestrictedPages doesn't replace links to restricted subpages"

Commit 94feeb2596244bc463afd428aab41353eb1740a4 introduced a major performance overhead and is reverted for now.

Change-Id: I4c4022fb6cd7c34c7054f25af2fe4d83133bf519
Releases: 4.8, 4.7, 4.6, 4.5
Resolves: #32756
Reviewed-on: <http://review.typo3.org/9731>
Reviewed-by: Christian Kuhn
Tested-by: Christian Kuhn

Revision 9a0afe6e - 2012-03-18 19:42 - Helmut Hummel

Revert "[BUGFIX] showAccessRestrictedPages doesn't replace links to restricted subpages"

Commit 94feeb2596244bc463afd428aab41353eb1740a4 introduced a major performance overhead and is reverted for now.

Change-Id: Iaaa8895bf2ccfcf875b32e3d0773c111672e80ae
Releases: 4.8, 4.7, 4.6, 4.5
Resolves: #32756
Reviewed-on: <http://review.typo3.org/9732>
Reviewed-by: Christian Kuhn
Tested-by: Christian Kuhn

History

#1 - 2011-12-21 17:05 - Ronny Vorpahl

- Assignee set to Steffen Kamper

#2 - 2011-12-21 17:38 - Steffen Gebert

- Assignee deleted (Steffen Kamper)
- Priority changed from Must have to Should have
- Target version deleted (4.5.11)

Thanks for your report, Ronny. Please do not assign issues to anybody - especially not to inactive people!

#3 - 2011-12-21 19:58 - Markus Klein

And can you please simply post the "further details" here, so that everybody in the community has access to these details?

#4 - 2011-12-22 15:20 - Ronny Vorpahl

- File patch_32756.diff added
- File xhprof_PHP-Profiler_getTreeList_4.5.7.htm added
- File xhprof_PHP-Profiler_getTreeList_4.5.9.htm added

Some further Details:

The correct call order is:
- tslib_cObj::getTreeList
- tslib_fe::checkEnableFields
- tslib_fe::checkPageGroupAccess
- t3lib_pageSelect::getRootLine
- t3lib_DB::execSelectQuery + t3lib_DB::sql_fetch_assoc

The appended patch bypasses the getRootLine-functionality for getTreeList by using own functionality - it behaves now like 4.5.7.

The appended xhprof PHP-Profiler show the behavior of getTreeList using the unpatched Typo3-sources 4.5.7 and 4.5.9

#5 - 2011-12-30 11:36 - Helmut Hummel

- Category changed from Pagetree to Backend API

#6 - 2011-12-30 11:44 - Helmut Hummel

- Category changed from Backend API to Performance

- Priority changed from Should have to Must have

[#15984](#) introduced a performance nightmare. I would rather revert this "fix" until there is a solution which does not have such a huge impact.

#7 - 2012-01-07 22:14 - Jigal van Hemert

The implementation of `getTreeList` is a bit illogical: it gets the child elements recursively, so it goes from top to bottom. Yet for each element it checks the rootline for access properties (thus it goes back from bottom to top!).

If the recursion is removed the loop for the sublevels can check the access from its own data. Only the starting page needs to check the rootline for inherited properties.

#8 - 2012-03-06 13:44 - Andreas Otto †

Helmut Hummel wrote:

[#15984](#) introduced a performance nightmare. I would rather revert this "fix" until there is a solution which does not have such a huge impact.

Today 4.5.12 was released and the performance nightmare still exists.

What else than reverting [#15984](#) can be done?

And please remember that 4.5 is a LTS release and should be a bit more stable than it currently is.

#9 - 2012-03-18 19:26 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 2 for branch **TYPO3_4-5** has been pushed to the review server.

It is available at <http://review.typo3.org/9552>

#10 - 2012-03-18 19:32 - Gerrit Code Review

Patch set 1 for branch **TYPO3_4-6** has been pushed to the review server.

It is available at <http://review.typo3.org/9730>

#11 - 2012-03-18 19:36 - Gerrit Code Review

Patch set 1 for branch **TYPO3_4-7** has been pushed to the review server.

It is available at <http://review.typo3.org/9731>

#12 - 2012-03-18 19:41 - Gerrit Code Review

Patch set 1 for branch **master** has been pushed to the review server.

It is available at <http://review.typo3.org/9732>

#13 - 2012-03-18 19:45 - Christian Kuhn

The patch of [#15984](#) is reverted now in all branches.

#14 - 2012-03-19 02:30 - Helmut Hummel

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [9a0afe6ed0173715cea8fc666c414b6aaf454982](#).

#15 - 2018-10-02 12:19 - Benni Mack

- Status changed from Resolved to Closed

Files

patch_32756.diff	2.25 KB	2011-12-22	Ronny Vorpahl
xhprof_PHP-Profiler_getTreeList_4.5.7.htm	34.7 KB	2011-12-22	Ronny Vorpahl
xhprof_PHP-Profiler_getTreeList_4.5.9.htm	40.5 KB	2011-12-22	Ronny Vorpahl