

Core - Bug # 63669

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:	2014-12-14	Due date:	
TYPO3 Version:	6.2		
PHP Version:			
Complexity:	easy		
Is Regression:	No		
Sprint Focus:			
Subject:	High memory consumption in DatabaseConnection->getDateTimeFormats while bulk inserting		
Description			
Multiple calls from			
<ul style="list-style-type: none">- sysext/backend/Classes/Form/DataPreprocessor.php- sysext/backend/Classes/Utility/BackendUtility.php- sysext/core/Classes/DataHandling/DataHandler.php			
do \$dateTimeFormats = \$GLOBALS['TYPO3_DB']->getDateTimeFormats(\$table);			
Currently there is no table handling implemented, but for EACH CALL of every field of every record to insert a new array is generated:			
<pre>public function getDateTimeFormats(\$table) { return array('date' => array('empty' => '0000-00-00', 'format' => 'Y-m-d'), 'datetime' => array('empty' => '0000-00-00 00:00:00', 'format' => 'Y-m-d H:i:s')); }</pre>			
Instead of creating this array multiple times it should be created as a property of the class:			
<pre>/** * the date and time formats compatible with the database in general * * @var array */ protected \$dateTimeFormats = array('date' => array('empty' => '0000-00-00',</pre>			

```

        'format' => 'Y-m-d'
    ),
    'datetime' => array(
        'empty' => '0000-00-00 00:00:00',
        'format' => 'Y-m-d H:i:s'
    )
);

public function getDateFormats($table) {
    return $this->dateFormats;
}

```

For bulk insert of 6500 records:

- memory usage of getDateFormats() down from 79MB to 2kB

Associated revisions

Revision c90a324a - 2014-12-14 17:37 - Stephan Großberndt

[BUGFIX] Better performance of DatabaseConnection->getDateFormats

Currently each call to DatabaseConnection->getDateFormats creates a new array with default dateFormats. Put this information into a static class member and return this instead.

Resolves: #63669

Releases: master, 6.2

Change-Id: I457ad6b68fb6919782f349550e9efd07143d0de7

Reviewed-on: <http://review.typo3.org/35197>

Reviewed-by: Alexander Opitz <opitz.alexander@googlemail.com>

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Reviewed-by: Stephan Großberndt <stephan@grossberndt.de>

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Reviewed-by: Andreas Fernandez <a.fernandez@scripting-base.de>

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

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

Revision 2523f3c6 - 2014-12-14 17:37 - Stephan Großberndt

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Change-Id: I457ad6b68fb6919782f349550e9efd07143d0de7

Reviewed-on: <http://review.typo3.org/35427>

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

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

History

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

- Parent task set to #63692

#2 - 2014-12-09 15:42 - 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/35197>

#3 - 2014-12-09 21:24 - 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/35197>

#4 - 2014-12-14 17:37 - 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/35427>

#5 - 2014-12-14 18:00 - Stephan Großberndt

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset commit:c90a324afb7f4a43b601af24bfeaa1aca3e0a628.