

## Core - Bug # 60494

<b>Status:</b>	Resolved	<b>Priority:</b>	Should have		
<b>Author:</b>	Martin Schnabel	<b>Category:</b>			
<b>Created:</b>	2014-07-23	<b>Assigned To:</b>			
<b>Updated:</b>	2014-08-02	<b>Due date:</b>			
<b>TYPO3 Version:</b>	6.2				
<b>PHP Version:</b>	5.3				
<b>Complexity:</b>					
<b>Is Regression:</b>					
<b>Sprint Focus:</b>					
<b>Subject:</b>	editing gridelement in foreign language exhausts memory on large sites				
<b>Description</b>					
<p>I have a site with very many pages. tt_content has about 14000 rows. When editing a gridelement in a foreign language typo3 takes too much memory. I had to set memory_limit to 512M.</p> <p>With some debugging I found out that the problem is inside TYPO3\CMS\Backend\Utility\BackendUtility::getProcessedValue when it is called for \$col = 'tx_gridelements_children'. The array \$rParts gets very large because it is filled with all uids of tt_content where tx_gridelements_children is 0. For my site that means about 10000 elements. In the later processing of the uids php runs out of memory.</p> <p>As a workaground I used the hook inside BackendUtility::getProcessedValue by setting</p> <pre>1\$GLOBALS['TYPO3_CONF_VARS']['SC_OPTIONS']['t3lib/class.t3lib_befunc.php']['preProcessValue'][] = '&amp;WV\ImgReloaded\Hooks\GridElementsFix-&gt;preProcessValue';</pre> <p>inside ext_tables.php (inside an extension of mine)</p> <p>The hook sets the field type to flex that no processing by BackendUtility::getProcessedValue will be done:</p> <pre>1&lt;?php 2 3namespace WV\ImgReloaded\Hooks; 4 5// Hook done in ext_tables.php 6 7class GridElementsFix { 8 9    public function preProcessValue(&amp;\$params, &amp;\$ref) { 10        if (is_array(\$params) &amp;&amp; array_key_exists('foreign_field', \$params) &amp;&amp; \$params['foreign_field'] == ' tx_gridelements_container') { 11            \$params['type'] = 'flex'; 12        } 13    } 14 15}</pre> <p>I know the workaround is ugly. I hope someone can find a better fix.</p> <p>(I had gridelements rev 1824f01414736595970f12f239fa76f4850288b3)</p>					

**Related issues:**

related to Core - Bug # 59671: IRRE related child records are not listed (com...

**Resolved****2014-06-19****Associated revisions****Revision 169f8b91 - 2014-08-02 12:59 - Jo Hasenau**

[BUGFIX] Fetch related records for existing uids only

Before fetching related records from a foreign table, we must ensure that there is a uid to be considered, since otherwise we will fetch any record having a 0 value for that field.

There are method calls in the core, that don't provide a uid, so the default value 0 is used, i.e. when fetching children of translated gridelements, causing memory outage when tt\_content is > 10000 records.

Resolves: #60494

Releases: 6.3, 6.2

Change-Id: I1105964f98f79074bb37dc1921180b493fac4bc6

Reviewed-on: <http://review.typo3.org/31781>

Reviewed-by: Sascha Egerer <[sascha@sascha-egerer.de](mailto:sascha@sascha-egerer.de)>

Tested-by: Sascha Egerer <[sascha@sascha-egerer.de](mailto:sascha@sascha-egerer.de)>

Reviewed-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

Tested-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

**Revision 14fc7504 - 2014-08-02 12:59 - Jo Hasenau**

[BUGFIX] Fetch related records for existing uids only

Before fetching related records from a foreign table, we must ensure that there is a uid to be considered, since otherwise we will fetch any record having a 0 value for that field.

There are method calls in the core, that don't provide a uid, so the default value 0 is used, i.e. when fetching children of translated gridelements, causing memory outage when tt\_content is > 10000 records.

Resolves: #60494

Releases: 6.3, 6.2

Change-Id: I1105964f98f79074bb37dc1921180b493fac4bc6

Reviewed-on: <http://review.typo3.org/31947>

Reviewed-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

Tested-by: Markus Klein <[klein.t3@reelworx.at](mailto:klein.t3@reelworx.at)>

**History****#1 - 2014-07-23 13:14 - Jo Hasenau**

- Status changed from New to Needs Feedback

IMHO this is a core bug, since the original type is "inline" and I don't see a good reason, why getProcessedValue should consider each element having a value of 0 here.

## #2 - 2014-07-23 13:25 - Jo Hasenau

The problem seems to be that \$uid is 0 in this case and therefor

```
$records = self::getRecordsByField($theColConf['foreign_table'], $theColConf['foreign_field'], $uid);
```

fetches each record that is NOT child of a container.

So the question is, why is getProcessedValue called with a 0 value here.

## #3 - 2014-07-23 13:35 - Jo Hasenau

This is the definition of the method

```
/**
 * Returns a human readable output of a value from a record
 * For instance a database record relation would be looked up to display the title-value of that record. A checkbox with a "1" value would be
 "Yes", etc.
 * $table/$col is tablename and fieldname
 * REMEMBER to pass the output through htmlspecialchars() if you output it to the browser! (To protect it from XSS attacks and be XHTML
 compliant)
 *
 * @param string $table Table name, present in TCA
 * @param string $col Field name, present in TCA
 * @param string $value The value of that field from a selected record
 * @param integer $fixed_lgd_chars The max amount of characters the value may occupy
 * @param boolean $defaultPassthrough Flag means that values for columns that has no conversion will just be pass through directly
 (otherwise cropped to 200 chars or returned as "N/A")
 * @param boolean $noRecordLookup If set, no records will be looked up, UIDs are just shown.
 * @param integer $uid Uid of the current record
 * @param boolean $forceResult If BackendUtility::getRecordTitle is used to process the value, this parameter is forwarded.
 * @return string
 */
static public function getProcessedValue($table, $col, $value, $fixed_lgd_chars = 0, $defaultPassthrough = 0, $noRecordLookup = FALSE,
$uid = 0, $forceResult = TRUE) {
```

And these are different use cases and how it is called:

```
$defaultLanguageValue = BackendUtility::getProcessedValue($table, $field, $this->defaultLanguageData[$table . ':' . $row['uid']][$field], 0, 1);

$defaultLanguageValue = BackendUtility::getProcessedValue($table, $field, $this->additionalPreviewLanguageData[$table . ':' .
$row['uid']][$previewLanguage['uid']][$field], 0, 1);

$diffrs = $t3lib_diff_Obj->makeDiffDisplay(
    BackendUtility::getProcessedValue($table, $field, $dLVal['old'][$field], 0, 1),
    BackendUtility::getProcessedValue($table, $field, $dLVal['new'][$field], 0, 1)
);
```

As you can see they are using just 5 out of the 8 possible parameters, so \$uid will always be 0, which is just plain wrong for the case of inline elements

pointing to a foreign table.

I will move this to the core tracker.

**#4 - 2014-07-23 13:43 - Jo Hasenau**

*- Project changed from Grid Elements to Core*

**#5 - 2014-07-23 13:44 - Jo Hasenau**

This is not just about Gridelements, but AFAICS about any element using fields of type inline.

**#6 - 2014-07-23 13:49 - Jo Hasenau**

IMHO it should be enough to introduce a check for \$uid being available in line 2080 of typo3/sysext/backend/Classes/Utility/BackendUtility.php, since we need to check that for existing uids only.

**#7 - 2014-07-24 20:57 - Gerrit Code Review**

*- Status changed from Needs Feedback 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/31781>

**#8 - 2014-08-02 12:59 - 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/31947>

**#9 - 2014-08-02 13:00 - Jo Hasenau**

*- Status changed from Under Review to Resolved*

*- % Done changed from 0 to 100*

Applied in changeset commit:169f8b912751998b72236be85f1ff77e092ae8a2.