

TYPO3 Core - Bug #44518

Caching problem with Gifbuilder

2013-01-14 19:14 - Martin W.

Status:	Closed	Start date:	2013-01-14
Priority:	Must have	Due date:	
Assignee:		% Done:	100%
Category:	Image Generation / GIFBUILDER	Estimated time:	0.00 hour
Target version:	Candidate for patchlevel	Complexity:	
TYPO3 Version:	8	Is Regression:	No
PHP Version:	7.1	Sprint Focus:	
Tags:			

Description

I had a cachingproblem with the Gifbuilder. Everytime I cleared the cache, a new image was generated although the TS-setup wasn't changed.

Here my the TS-Code:

```
file = GIFBUILDER
file{
quality = 100
XY = [10.w],[10.h]
format = png
10 = IMAGE
10{
file.import.data = register:ORIG_FILENAME
file.maxH = 760m
file.maxW = 940m
}
20 = IMAGE
20{
file = fileadmin/img/wasserT.png
offset = [10.w]/2 - 25, [10.h] - 45
}
}
```

(Without the second layer I hadn't the problem (without 20).)

In typo3/sysex/frontend/Classes/Imaging/GifBuilder.php
I figured out that the generated filename was different every run.

```
@ public function fileName($pre) {
...
// WARNING: In PHP5 I discovered that rendering with freetype of Japanese letters was totally corrupt.
// Not only the wrong glyphs are printed but also some memory stack overflow resulted in strange additional
// chars - and finally the reason for this investigation: The Bounding box data was changing all the time
// resulting in new images being generated all the time. With PHP4 it works fine.
return $this->tempPath . $pre . $meaningfulPrefix . \TYPO3\CMS\Core\Utility\GeneralUtility::shortMD5(serialize($this->setup)) . '.' . $this->extension();
}@
```

(the comment shows that the problem already appeared in a different way)

The problem is the md5hash of \$this->setup. \$this->setup is an array witch contains 2 objects ['BBOX']['originalFile'] and ['BBOX']['originalFile']. These objects are different after the cache was cleared.

My solution: copy \$this->setup to \$this->setupLight and remove these objects from setupLight. I've done this in:

```

@
public function start($conf, $data) {
...
    // BBOX (the fileInfo) is to big and different each run: $this->fileName() generates a
    new file every run, because it uses a md5hash of this array
    // ['BBOX']['originalFile'] and ['BBOX']['originalFile'] are Objects (to big and diffe
    rent each run)
    // $this->setupLight is used now in $this->fileName()
        //
        $this->setupLight = $this->setup;
        foreach ($sKeyArray as $theKey) {
            $this->setupLight[$theKey . '.']['BBOX']['originalFile']='';
            $this->setupLight[$theKey . '.']['BBOX']['processedFile']='';
        }
        //
        // Get trivial data
        $XY = \TYPO3\CMS\Core\Utility\GeneralUtility::intExplode(',', $this->setup['XY']);
        $maxWidth = isset($this->setup['maxWidth.']) ? intval($this->cObj->stdWrap($this->setu
        p['maxWidth'], $this->setup['maxWidth.'])) : intval($this->setup['maxWidth']);
        $maxHeight = isset($this->setup['maxHeight.']) ? intval($this->cObj->stdWrap($this->se
        tup['maxHeight'], $this->setup['maxHeight.'])) : intval($this->setup['maxHeight']);
        $XY[0] = \TYPO3\CMS\Core\Utility\MathUtility::forceIntegerInRange($XY[0], 1, $maxWidth
        ? $maxWidth : 2000);
        $XY[1] = \TYPO3\CMS\Core\Utility\MathUtility::forceIntegerInRange($XY[1], 1, $maxHeigh
        t ? $maxHeight : 2000);
        $this->XY = $XY;
        $this->w = $XY[0];
        $this->h = $XY[1];
        $this->OFFSET = \TYPO3\CMS\Core\Utility\GeneralUtility::intExplode(',', $this->setup['
        offset']);
        // this sets the workArea
        $this->setWorkArea($this->setup['workArea']);
        // this sets the default to the current;
        $this->defaultWorkArea = $this->workArea;
    }
}
@

```

then I changed in function fileName():

```

return $this->tempPath . $pre . $meaningfulPrefix . \TYPO3\CMS\Core\Utility\GeneralUtility::shortMD5(serialize($this->setup)) . '.' .
$this->extension();

```

to

```

return $this->tempPath . $pre . $meaningfulPrefix . \TYPO3\CMS\Core\Utility\GeneralUtility::shortMD5(serialize($this->setupLight)) .
'.' . $this->extension();

```

Related issues:

Related to TYPO3 Core - Bug #86947: Gifbuilder: combine images generates dupl...

Closed

2018-11-17

Associated revisions

Revision 7d5e5944 - 2019-03-09 14:48 - Markus Klösges

[BUGFIX] GifBuilder returns already generated images

When combining image files with gifbuilder, the hash to identify the resulting file is now stable with respect to the fact whether the files are cropped or scaled in the current request or already cropped before. That leads to stable hashes whenever the same images are processed with the same configuration, and allows reuse as intended.

Also ensure that fileInfo returned from ContentObjectRenderer contains width and height information as int, when they are returned from database as that may lead to different serialized representations of the configuration

Resolves: #44518

Resolves: #86947
Resolves: #87224
Releases: 8.7, 9.5, master
Change-Id: I833585034cacaf5a0ad66ba3ff04ac3920421085
Reviewed-on: <https://review.typo3.org/c/59644>
Tested-by: TYPO3com <noreply@typo3.com>
Tested-by: Guido Schmechel <guido.schmechel@brandung.de>
Tested-by: Benni Mack <benni@typo3.org>
Reviewed-by: Oliver Klee <typo3-coding@oliverklee.de>
Reviewed-by: Guido Schmechel <guido.schmechel@brandung.de>
Reviewed-by: Wouter Wolters <typo3@wouterwolters.nl>
Reviewed-by: Stephan Großberndt <stephan.grossberndt@typo3.org>
Reviewed-by: Benni Mack <benni@typo3.org>

Revision 8d584f74 - 2019-03-09 15:34 - Markus Klösges

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Releases: 8.7, 9.5, master
Change-Id: I833585034cacaf5a0ad66ba3ff04ac3920421085
Reviewed-on: <https://review.typo3.org/c/59956>
Tested-by: TYPO3com <noreply@typo3.com>
Tested-by: Benni Mack <benni@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>
Reviewed-by: Benni Mack <benni@typo3.org>

Revision 5bb260cb - 2019-03-09 20:00 - Markus Klösges

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Releases: 8.7, 9.5, master
Change-Id: I833585034cacaf5a0ad66ba3ff04ac3920421085
Reviewed-on: <https://review.typo3.org/c/59959>
Reviewed-by: Oliver Klee <typo3-coding@oliverklee.de>
Reviewed-by: Benni Mack <benni@typo3.org>
Tested-by: TYPO3com <noreply@typo3.com>
Tested-by: Benni Mack <benni@typo3.org>

History

#1 - 2015-01-13 13:24 - Mathias Schreiber

- Target version set to 7.2 (Frontend)
- Is Regression set to No

#2 - 2015-06-15 17:44 - Benni Mack

- Target version changed from 7.2 (Frontend) to 7.4 (Backend)

#3 - 2015-08-05 10:27 - Susanne Moog

- Target version changed from 7.4 (Backend) to 7.5

#4 - 2015-09-24 20:42 - Benni Mack

- Target version changed from 7.5 to 7 LTS

#5 - 2015-10-28 13:38 - Mathias Schreiber

- Category changed from Caching to Image Cropping

- Target version deleted (7 LTS)

#6 - 2017-10-26 15:50 - Susanne Moog

- Category changed from Image Cropping to Image Generation / GIFBUILDER

#7 - 2018-12-01 14:06 - Thomas Oliver Moll

- Priority changed from Should have to Must have

- Target version set to Candidate for patchlevel

- TYPO3 Version changed from 6.0 to 8

- PHP Version changed from 5.3 to 7.1

Hi,
this is a very old Bug, but it was never really solved or it is back with TYPO 3 8.7.

We recently updated our huge Installations from 7.6 to 8.7 and we now run into issues with the Gifbulder.

We use Gifbuilder to render metadata into images. This data doesn't change often, but Gifbulder creates the same Image over and over with different hashes.

Like Martin, I traced it back to that [BBOX] part in the setup array that is sent through md5 to get the hash.

BBOX changes constantly and is HUGE! I wrote it via print_r into Text-Files and my disk filled up instantly because these text files had 32MB each and there were thousands of them.

The BBOX part is included by the Gifbuilder layers, that load Images. The patch above seemed not to be working for me, but what I did was very similar:

```
$setupLight=this.setup
unset($setupLight[10.][BBOX]['originalFile'])
unset($setupLight[10.][BBOX]['processedFile'])
unset($setupLight[10.][BBOX]['fileHash'])
```

and then I changed the code to use \$setupLight instead of the original to create the Hash.

Our Images have the included Image always on Layer 10, so I did not have to iterate over the whole array.

Setting the entries to " did not work for me, but unset worked fine.

I don't have the code at hand, so I had to write it here by memory, I hope there are not too many syntax errors after all, I'm not a php coder.

I'm not sure why the FileHash within the BBOX changes as well, I did not find any differences that (I thought) mattered. But this is hard to say when you compare two 32MB text files with scrambled order and many RECURSION in it.

Getting rid of the 2 subtrees and the filehash resulted in much smaller setup arrays (the text file size went down to 1800 Bytes and such like)

Please inform me, If I should open a new issue instead opening this 6 year old one.

I can provide a patch that works on the same iterating principle like Martins does, but I'm not sure if there is a smarter way not to use too much data for hashing, after all I firstly create a copy of that huge array, and delete the unnecessary bits afterwards

Cheers
TOM

#8 - 2018-12-21 11:09 - Thomas Oliver Moll

- Related to Bug #86947: Gifbuilder: combine images generates duplicate images of the same picture. added

#9 - 2019-02-05 13:31 - 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 <https://review.typo3.org/59644>

#10 - 2019-02-05 13:39 - 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 <https://review.typo3.org/59644>

#11 - 2019-02-05 13:41 - 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 <https://review.typo3.org/59644>

#12 - 2019-02-05 13:41 - 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 <https://review.typo3.org/59644>

#13 - 2019-02-05 14:37 - 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 <https://review.typo3.org/59644>

#14 - 2019-02-05 14:40 - 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 <https://review.typo3.org/59644>

#15 - 2019-02-05 15:02 - 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 <https://review.typo3.org/59644>

#16 - 2019-02-07 14:33 - 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 <https://review.typo3.org/59644>

#17 - 2019-02-07 16:29 - 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 <https://review.typo3.org/59644>

#18 - 2019-02-17 10:33 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+59644>

#19 - 2019-02-17 11:29 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+59644>

#20 - 2019-02-17 11:31 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+59644>

#21 - 2019-03-01 10:22 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+59644>

#22 - 2019-03-09 14:48 - Gerrit Code Review

Patch set 1 for branch **9.5** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+59956>

#23 - 2019-03-09 15:00 - Markus Klösges

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [7d5e5944e3a044d4e993028ad3bdd45a1f96d9e6](#).

#24 - 2019-03-09 15:40 - Gerrit Code Review

- Status changed from Resolved to Under Review

Patch set 1 for branch **TYPO3_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+59959>

#25 - 2019-03-09 16:00 - Markus Klösger

- Status changed from Under Review to Resolved

Applied in changeset [8d584f7436b33950908b26e1aa3ffcb387d817c9](#).

#26 - 2019-03-09 16:13 - Gerrit Code Review

- Status changed from Resolved to Under Review

Patch set 2 for branch **TYPO3_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+59959>

#27 - 2019-03-09 20:30 - Markus Klösger

- Status changed from Under Review to Resolved

Applied in changeset [5bb260cb0170355d23ff696c1bc3c2d2caffa37b](#).

#28 - 2019-05-07 12:17 - Benni Mack

- Status changed from Resolved to Closed