Status:	Resolved	Priority:	Must have
Author:	Sebastian Wojtowicz	Category:	Validation
Created:	2012-05-21	Assigned To:	Karsten Dambekalns
Updated:	2012-06-20	Due date:	
PHP Version:	5.3		
las patch:	No		
Complexity:			
Affected Flow vers	sion: Git master		
Subject:	PersistenceManager->validateObject() ==> to many calls/loops/recursions somewhere in a subcall		
Description			
In a nutshell			
The problem is, rig objects of course, b	nce (it's vocabularies). ght now it takes already 25 seconds o out still 25 seconds is way to much). add 5000 vocabularies. This would tak	-	hly 10 elements (with all their sub sub sub fail at some point because of missing
Testcase			
Having no idea wha	at causes it I created a small test-case	at https://github.com/Allisone/	Wojtowicz.AddALot
There you have a n	nodel hierarchy like this:		
	d D, so that As have Bs, Bs have Cs a	and Cs have Ds.	
	ne you can then call one of the followir h having a C, each C having a D	ng commands.	
	h having x/y Bs, each having a C, each	h C having a D	
I can see in the xde	ebug profiler output		
For 1. and x=20: 64	180 calls are being made to TYPO3\FL		
	d y=4: 79656 calls are being made to h 5 Bs being added to an A)	TYPO3\FLOW3\Error\Result->	mergeProperty()
Doing a small adjus command call.	stment so that each B has 2 Cs (instea	ad of one), I can see already 23	31576 mergeProperty() calls in the 2.
TYPO3\FLOW3\Pe		er\validateObject() and TYPO	at someone finds that bug, either between 3\FLOW3\Error\Result->mergeProperty() or a be related to validation
More			
For more details loo	ok at my provided testcase (+READM	Ξ):	
For more details loo	ok at my provided testcase (+READMI Allisone/Wojtowicz.AddALot	Ξ):	

Associated revisions

Revision 26e4b3fa - 2012-05-30 14:41 - Karsten Dambekalns

related to TYPO3.Flow - Bug # 34154: ObjectValidator has exponential growth f...

[BUGFIX] Avoid validating instances more often than needed

Resolved

2012-02-21

The GenericObjectValidator uses a static variable to store objects being validated. Objects were still validated over and over because at the end of isValid() they were detached again.

This change replaces that detach() call with another concept. Now any validator implementing the new ObjectValidatorInterface can be given an SpIObjectStorage to keep track of instances already validated.

If you reset that container when it makes sense (before you actively validate objects) you can avoid validating single instances more than once in one validation run but still validate at various points on your logic flow.

If you have implemented your own object validator you should implement the new ObjectValidatorInterface - the easiest way is to extend the GenericObjectValidator, if you haven't done that so far.

Change-ld: I7f437207e27593425b1fbdfc340a442e685a317f Fixes: #37363 Related: #34154 Releases: 1.1, 1.2

Revision 632685da - 2012-05-30 15:06 - Karsten Dambekalns

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Change-Id: I7f437207e27593425b1fbdfc340a442e685a317f Fixes: #37363 Related: #34154 Releases: 1.1, 1.2

Revision fdc462b0 - 2012-05-30 15:45 - Karsten Dambekalns

[TASK] Make extending GenericObjectValidator easier

This change moves the check for already validated objects out of the isValid() method and into validate() instead. Since in custom validators isValid() is the method to implement, this makes correct implementation less error-prone.

Change-ld: I16981ff9d2177cb4949d0fc3fcbd815f7c99cbc5 Related: #37363 Releases: 1.1, 1.2

Revision ed3788b3 - 2012-06-18 17:49 - Karsten Dambekalns

[TASK] Make extending GenericObjectValidator easier

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History

#1 - 2012-05-21 17:00 - Karsten Dambekalns

- Target version changed from 1.1 beta 2 to 1.1

#2 - 2012-05-22 00:52 - Sebastian Wojtowicz

I really have problems going through all this recursive code, so I made some effort to visualize what is going on...

https://gist.github.com/942e34ef00da89b1f459

You can see the call tree for the first command (20 Bs with 1 Cs with 1 Ds) and for the second command (4 As with 5 Bs with 1 Cs with 1 Ds).

I've ignored calls where no further recursion occurred.

I'm still not able to tell where the problem is, but at least this will keep you from loosing your head while fighting these reoccurring calls.

#3 - 2012-05-22 09:26 - Karsten Dambekalns

- Status changed from New to Needs Feedback
- Assigned To set to Karsten Dambekalns

Just to make sure: have you tried the changes listed at <u>https://review.typo3.org/#/q/topic:34145-validation-optimisation,n,z</u> - and if not, could you do that?

#4 - 2012-05-22 12:43 - Sebastian Wojtowicz

just found that place in the code myself and wanted to report it here, to hear what you think about the fact that this seems to be called over and over again and that it should not be instancesCurrentlyUnderValidation but some kind of wasValidated...

and now that I see the patch, I realize that I tried it already (ChristianM pointed me to it as well)... but it didn't work before, made no difference. And I tried it twice, even though I was convinced it could not effect my case because I have no validators at all.

Well... obviously I messed up, don't know how, cause this patch is working. It's the right fix. Also checked the profiler output numbers. All good now. On one hand I could bite my ass that somehow I messed up the first 2 times I tried that patch (how ?). On the other hand, I wouldn't have known now, how to use xdebug, debug with PhpStorm, what is and how to use kCachegrind, and how the validation is done :D Just hope I didn't wasted your time :(and that I'm better equipped for the next bug I find ;)

#5 - 2012-05-22 14:03 - Karsten Dambekalns

- Status changed from Needs Feedback to Accepted

Thanks for checking again!

#6 - 2012-05-22 14:36 - Gerrit Code Review

- Status changed from Accepted to Under Review

Patch set 9 for branch **master** has been pushed to the review server. It is available at <u>http://review.typo3.org/9197</u>

#7 - 2012-05-25 09:40 - Karsten Dambekalns

- Target version changed from 1.1 to 1.1 RC1

#8 - 2012-05-30 14:15 - Gerrit Code Review

Patch set 10 for branch **master** has been pushed to the review server. It is available at <u>http://review.typo3.org/9197</u>

#9 - 2012-05-30 14:43 - Gerrit Code Review

Patch set 11 for branch **master** has been pushed to the review server. It is available at <u>http://review.typo3.org/9197</u>

#10 - 2012-05-30 15:07 - Gerrit Code Review

Patch set 1 for branch **FLOW3-1.1** has been pushed to the review server. It is available at <u>http://review.typo3.org/11737</u>

#11 - 2012-05-30 15:38 - Karsten Dambekalns

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset commit:26e4b3fa846c50fdbdc7908c11eda0756ed85f2c.

#12 - 2012-06-20 20:53 - Karsten Dambekalns

- Target version changed from 1.1 RC1 to 1.1 beta 3