

D4Science Infrastructure - Task #9826

issue sharelatex (can't compile a whole report)

Sep 27, 2017 12:26 PM - TAHA IMZILEN

Status:	Closed	Start date:	Sep 27, 2017
Priority:	Normal	Due date:	
Assignee:	TAHA IMZILEN	% Done:	100%
Category:	Application	Estimated time:	0.00 hour
Target version:	Sharelatex		
Infrastructure:	Production		
Description Hi Gianpaolo, ShareLatex can not compile a whole report! I get an error message: <i>Server Error Sorry, something went wrong and your project could not be compiled. Please try again in a few moments.</i> it works when i compile the different parts .can there be a memory issue? for information, to compile this report on R online, the size of the data generated is about 8 GB. I already shared the project 'fad_drift' with you, and the file name is (test_compile.Rtex) Thanks for your help			

History

#1 - Sep 27, 2017 01:17 PM - Gianpaolo Coro

- Assignee changed from Gianpaolo Coro to _InfraScience Systems Engineer

I ask to our system admins: do you see memory leaks?

#2 - Sep 27, 2017 01:22 PM - Andrea Dell'Amico

Gianpaolo Coro wrote:

I ask to our system admins: do you see memory leaks?

I should investigate while the compilation is running. It's possible that it consumes all the available memory but I have to check. From the logs nothing strange happened.

#3 - Oct 04, 2017 10:08 AM - TAHA IMZILEN

Dear Andrea,
is there any progress on this issue please?
Thank you...

#4 - Oct 04, 2017 12:49 PM - Andrea Dell'Amico

TAHA IMZILEN wrote:

Dear Andrea,
is there any progress on this issue please?
Thank you...

@taha.imzilen@ird.fr I need to know when you try to compile that document. Because no error is logged when a compilation fails, I have to watch what's happening while the compilation is running. If you can tell me when you can start another one, I'll check what happens.

#5 - Oct 12, 2017 07:12 PM - Andrea Dell'Amico

- Infrastructure Production added

@taha.imzilen@ird.fr can you communicate in advance when you'll try to compile the document again so that I can check what's happening?

#6 - Oct 13, 2017 01:25 PM - TAHA IMZILEN

@andrea.dellamico@isti.cnr.it , I'm off work this week, we can try that next week. I will keep you informed for this.
Thank you

#7 - Oct 13, 2017 03:46 PM - Julien Barde

@taha.imzilen@ird.fr perhaps you should just share the sharelatex project with Andrea...

#8 - Oct 17, 2017 03:37 PM - TAHA IMZILEN

Dear @andrea.dellamico@isti.cnr.it , can we try to compile the document this afternoon?
as @julien.barde@ird.fr suggests, I shared the project with you, this can make things easier.

#9 - Oct 17, 2017 03:45 PM - Andrea Dell'Amico

I can see the project. I'll try to compile it later in the afternoon.

#10 - Oct 17, 2017 04:45 PM - Andrea Dell'Amico

The compiler times out while waiting something that I've not identified yet. You are trying to process more than a GB of data, btw:

```
ls -ltrah
total 1.5G
drwxr-xr-x 4 www-data www-data 118 Oct 17 13:39 ..
drwxr-xr-x 2 www-data www-data 27 Oct 17 13:39 oldshit
drwxr-xr-x 2 www-data www-data 4.0K Oct 17 13:39 figures
drwxr-xr-x 2 www-data www-data 4.0K Oct 17 13:55 cache
-rw-r--r-- 1 www-data www-data 0 Oct 17 13:56 output.out
-rw-r--r-- 1 www-data www-data 63 Oct 17 13:56 output.xwm
-rw-r--r-- 1 www-data www-data 1.1K Oct 17 13:56 output.aux
-rw-r--r-- 1 www-data www-data 30K Oct 17 13:56 output.flx
-rw-r--r-- 1 www-data www-data 3.9K Oct 17 13:56 output.synctex.gz
-rw-r--r-- 1 www-data www-data 29K Oct 17 13:56 output.fdb_latexmk
drwxr-xr-x 3 www-data www-data 17 Oct 17 13:56 .cache
-rw-r--r-- 1 www-data www-data 29K Oct 17 14:29 elsarticle-num.bst
-rw-r--r-- 1 www-data www-data 27K Oct 17 14:29 elsarticle-num-names.bst
-rw-r--r-- 1 www-data www-data 11K Oct 17 14:29 test_compile.Rtex
-rw-r--r-- 1 www-data www-data 5.5K Oct 17 14:29 numcompress.sty
-rw-r--r-- 1 www-data www-data 19K Oct 17 14:29 fad_drift_article_pnas_appendix.Rtex
-rw-r--r-- 1 www-data www-data 100K Oct 17 14:29 fad_drift_article_pnas.Rtex
-rw-r--r-- 1 www-data www-data 7.4K Oct 17 14:29 workspace_interaction.r
-rw-r--r-- 1 www-data www-data 18K Oct 17 14:29 functions_FADsDrifters_oscar.R
-rw-r--r-- 1 www-data www-data 3.2K Oct 17 14:29 dist_spat_data_with_clean_labels.R
-rw-r--r-- 1 www-data www-data 770 Oct 17 14:29 steptime_freq.R
-rw-r--r-- 1 www-data www-data 3.9K Oct 17 14:29 smooth_scatterplot_UVspeed_greens.R
-rw-r--r-- 1 www-data www-data 7.7K Oct 17 14:29 speed_map.R
-rw-r--r-- 1 www-data www-data 4.0K Oct 17 14:29 ErrorMov_freq.R
-rw-r--r-- 1 www-data www-data 2.7K Oct 17 14:29 ErrorMov_freq_manu.R
-rw-r--r-- 1 www-data www-data 3.0K Oct 17 14:29 subData_by_Longhurst.R
-rw-r--r-- 1 www-data www-data 5.1K Oct 17 14:29 spatial_distribution_of_correlation_func.R
-rw-r--r-- 1 www-data www-data 159K Oct 17 14:29 fad_drift.bib
-rw-r--r-- 1 www-data www-data 18K Oct 17 14:29 pnas-new.bst
-rw-r--r-- 1 www-data www-data 28K Oct 17 14:29 elsarticle-harv.bst
-rw-r--r-- 1 www-data www-data 26K Oct 17 14:29 elsarticle.cls
-rw-r--r-- 1 www-data www-data 15K Oct 17 14:29 pnas-new.cls
-rw-r--r-- 1 www-data www-data 1.5K Oct 17 14:30 pnasresearcharticle.sty
-rw-r--r-- 1 www-data www-data 664K Oct 17 14:30 fig_drifter_fad_design.png
-rw-r--r-- 1 www-data www-data 2.4M Oct 17 14:30 Longhurst_world_v4_2010.zip
-rw-r--r-- 1 www-data www-data 164 Oct 17 14:30 Longhurst_world_v4_2010.sbx
-rw-r--r-- 1 www-data www-data 652 Oct 17 14:30 Longhurst_world_v4_2010.sbn
-rw-r--r-- 1 www-data www-data 145 Oct 17 14:30 Longhurst_world_v4_2010.prj
-rw-r--r-- 1 www-data www-data 5.7K Oct 17 14:30 Longhurst_world_v4_2010.dbf
-rw-r--r-- 1 www-data www-data 2.9M Oct 17 14:30 Longhurst_world_v4_2010.shp
-rw-r--r-- 1 www-data www-data 532 Oct 17 14:30 Longhurst_world_v4_2010.shx
-rw-r--r-- 1 www-data www-data 8.3K Oct 17 14:30 Longhurst_world_v4_2010.shp.xml
-rw-r--r-- 1 www-data www-data 2.4M Oct 17 14:30 cwp_grid_shape.zip
-rw-r--r-- 1 www-data www-data 256 Oct 17 14:30 cwp_grid.prj
-rw-r--r-- 1 www-data www-data 11M Oct 17 14:30 cwp_grid.dbf
-rw-r--r-- 1 www-data www-data 9.3M Oct 17 14:30 cwp_grid.shp
-rw-r--r-- 1 www-data www-data 560K Oct 17 14:30 cwp_grid.shx
-rw-r--r-- 1 www-data www-data 163M Oct 17 14:30 dataFADs_atlantic_2008_2014_last.zip
-rw-r--r-- 1 www-data www-data 403M Oct 17 14:30 dataFADs_atlantic_2008_2014_last.csv
-rw-r--r-- 1 www-data www-data 241M Oct 17 14:33 dataFADs_indian_2008_2014_last.zip
drwxr-xr-x 6 www-data www-data 4.0K Oct 17 14:33 .
-rw-r--r-- 1 www-data www-data 658M Oct 17 14:33 dataFADs_indian_2008_2014_last.csv
```

#11 - Oct 17, 2017 04:45 PM - Andrea Dell'Amico

- Status changed from New to In Progress

#12 - Oct 17, 2017 06:23 PM - Andrea Dell'Amico

It seems that I had success to compile the test document. I tried as a draft first, and then in regular mode. I then tried to compile fad_drift_article_pnas.Rtex, also in draft mode. It failed, the error starts here:

```
LaTeX Info: Redefining \microtypecontext on input line 9.
```

```
Package microtype Warning: `draft' option active.
(microtype)                Disabling all micro-typographic extensions.
(microtype)                This might lead to different line and page breaks.
```

```
! LaTeX Error: Environment knitrout undefined.
```

```
See the LaTeX manual or LaTeX Companion for explanation.
Type H <return> for immediate help.
...
```

```
l.15 \begin{knitrout}
```

```
Your command was ignored.
Type I <command> <return> to replace it with another command,
or <return> to continue without it.
```

```
! Package xcolor Error: Undefined color `fgcolor'.
```

```
See the xcolor package documentation for explanation.
Type H <return> for immediate help.
...
```

```
l.16 ...}{rgb}{0.969, 0.969, 0.969}\color{fgcolor}
                                         \begin{kframe}
```

```
Try typing <return> to proceed.
If that doesn't work, type X <return> to quit.
```

```
! LaTeX Error: Environment kframe undefined.
```

```
See the LaTeX manual or LaTeX Companion for explanation.
Type H <return> for immediate help.
...
```

I'll try to upload the full log.

#13 - Oct 17, 2017 07:00 PM - Andrea Dell'Amico

- File output.log added

#14 - Oct 17, 2017 07:06 PM - Andrea Dell'Amico

I've also found a sharelatex document that gives hints on how to debug compilation timeouts:
https://www.sharelatex.com/learn/Debugging_Compilation_timeout_errors

#15 - Oct 17, 2017 07:43 PM - Andrea Dell'Amico

I was trying to see if the compilation completes after the web interface fails, but a compilation of the test file was triggered and it killed the other one. I'll retry tomorrow.

#16 - Oct 18, 2017 01:17 AM - Pasquale Pagano

- Tracker changed from Support to Project Activity

#17 - Oct 18, 2017 01:28 PM - Andrea Dell'Amico

- File fad_drift_article_pnas-output.log added

OK, I renamed all the Rtex files other than the main one so that entering the project does not start the compilation of the *wrong* document. With the draft option active, the compilation fails but sometimes ends without timeouts, so the error logs are available on the dashboard. I'm attaching a full one anyway, and some other logs from the system where it seems that the R computations fails. Then the latex compilation starts (and fails, but probably because of the previous R errors).

The R computation error is:

```
label: Error_Displacements_Longhurst (with options)
List of 8
 $ fig.width : num 6
 $ fig.height: num 4
 $ out.width : chr "0.5\\textwidth"
 $ message   : logi FALSE
 $ cache      : logi TRUE
 $ echo       : logi FALSE
 $ results    : chr "hide"
 $ fig.show   : chr "hide"

|.....| 100%
inline R code fragments

Quitting from lines 1252-1427 (fad_drift_article_pnas.Rtex)
Error in parse(text = code, keep.source = FALSE) :
  <text>:1:39: unexpected symbol
1: prettyNum(nrow(u_vel), big.mark = ',')nrow
      ^
Calls: knit ... inline_exec -> withVisible -> eval -> parse_only -> parse
In addition: There were 14 warnings (use warnings() to see them)
```

#18 - Oct 18, 2017 03:17 PM - Andrea Dell'Amico

@taha.imzilen@ird.fr can you find anything useful to you into the logs? If want to repeat the procedure, compiling the document as draft produces a readable log file almost at every run.

#19 - Oct 19, 2017 12:33 AM - TAHA IMZILEN

@andrea.dellamico@isti.cnr.it , I am still looking into the logs, I have no idea what's the matter. For the R computation error, i checked in Rstudio and i didn't get any error.

#20 - Oct 19, 2017 12:35 AM - TAHA IMZILEN

I confess I am a little lost, can we first compile only the first part of the document (up to line 378) to read all the data without compiling the R computations ? it may help to understand what's happen!

#21 - Oct 26, 2017 11:35 PM - Gianpaolo Coro

- Assignee changed from *_InfraScience Systems Engineer* to *Gianpaolo Coro*

Hi Taha, since Andrea has verified nothing is wrong at server side, I will try to give it a look.

#22 - Oct 27, 2017 12:43 AM - Gianpaolo Coro

I have shared the new 'fad_drift_compilation' project with you and I'm going step-by-step. I'm stuck at line 90 because there is something wrong with the zip file in your /Home/taha.imzilen/Workspace/FAD_Drifter/ folder and the readOGR function fails. Could you give it a look please?

I would go in the same way adding one piece of code at time and seeing if there are warnings or errors. When one of these is met, we can check what's happening.

#23 - Oct 27, 2017 11:51 AM - TAHA IMZILEN

Hi Gianpaolo,
thanks for your help!

I checked, the function downloadFileWS download an empty zip file.
file.exists('Longhurst_world_v4_2010.zip') == TRUE
file.size('Longhurst_world_v4_2010.zip') == 0

#24 - Oct 27, 2017 01:24 PM - Gianpaolo Coro

Could you upload it again on the Workspace, please?

#25 - Oct 30, 2017 10:02 AM - TAHA IMZILEN

Hi Gianpaolo,
ok, it's done.
Thank you!

#26 - Oct 30, 2017 11:20 AM - Gianpaolo Coro

Hi Taha, the issue was that the R code was not using the workspace_interaction.r source, but only the ShareLatex default one which is obsolete (@andrea.dellamico@isti.cnr.it is it possible to update it?). If you notice, in the CheckWSInteraction example previously shared with you, I had

explicitly sourced this file.

Thus, in order to solve the zero-size downloading issue, it was sufficient to add these lines to the code (I have modified the original fad_drift project too at lines 56-59):

```
dataDriftersWS <- '/Home/taha.imzilen/Workspace/FAD_Drifter'  
username<- 'taha.imzilen'  
token <- '<your token obfuscated>'  
source("workspace_interaction.r")
```

However, the compilation process of the overall ShareLatex document time outs due to the huge amount of prerequisite software that is downloaded before the compilation. I think the online ShareLatex technology was not designed for this kind of application (you are too ahead of the times :-)).

I see two alternative ways to go forward:

- 1 - split the document into several documents or projects;
- 2 - collect all the auxiliary scripts and material in one zip file and just do one download before the compilation.

#27 - Oct 30, 2017 11:49 AM - TAHA IMZILEN

yes i agree! I already thought about doing this and creating a single zip to download.
I will change that and I will keep you informed.
thank you

#28 - Oct 30, 2017 01:39 PM - Andrea Dell'Amico

Gianpaolo Coro wrote:

Hi Taha, the issue was that the R code was not using the workspace_interaction.r source, but only the ShareLatex default one which is obsolete (is it possible to update it?). If you notice, in the CheckWSInteraction example previously shared with you, I had explicitly sourced this file.

Done, I also ensured that it will be always up to date.

#29 - Dec 11, 2017 01:05 PM - Gianpaolo Coro

- Assignee changed from Gianpaolo Coro to TAHA IMZILEN
- Priority changed from High to Normal

Any news about changing the compilation approach, @taha.imzilen@ird.fr ? In its current status, I think we cannot manage this compilation.

#30 - Jan 09, 2018 05:16 PM - TAHA IMZILEN

Hi @gianpaolo.coro@isti.cnr.it ,
I tried to collect all scripts and material in one zip file and do one download before the compilation and it works much better on Rstudio but still not work on sharelatex. i get the same message error :
'Server Error Sorry, something went wrong and your project could not be compiled. Please try again in a few moments.'
I will split the main document into several documents by using the subfiles package and let you know as soon as possible .
PS: sorry for the delay, i didn't see your message and i didn't receive any notification.
Thank you

#31 - Jul 30, 2018 05:46 PM - Luca Frosini

- Tracker changed from Project Activity to Task
- Project changed from 8 to D4Science Infrastructure
- Category set to Application
- Target version changed from WP08 to Sharelatex
- Infrastructure Production added

@gianpaolo.coro@isti.cnr.it can you check this ticket please

#32 - Jul 30, 2018 08:15 PM - Andrea Dell'Amico

- Status changed from In Progress to Closed
- % Done changed from 0 to 100

It's a resources problem, that document requires more resources that we have available.

Files

output.log	266 KB	Oct 17, 2017	Andrea Dell'Amico
fad_drift_article_pnas-output.log	266 KB	Oct 18, 2017	Andrea Dell'Amico