

## Redmine - Defect #12510

### Issues PDF export: Spent time/Float-values aren't rounded to 2 digits

2012-12-05 11:39 - Luboš Schrámek

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	PDF export	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	4.0.0	<b>Affected version:</b>	2.6.0
<b>Resolution:</b>	Fixed		
<b>Description</b>			
Hello,			
<b>How to simulate problem?</b>			
<ul style="list-style-type: none"><li>- add Spent time column to issues</li><li>- modify Spent time in some issue to 2.45</li><li>- export table to PDF</li></ul>			
There will be a columns Spent time with 2.45000004768372. I hope there are missing some number format func(), can you please fix this problem? I am making these exports for customers and it looks bad.			
Thanks.			
<b>Related issues:</b>			
Related to Redmine - Defect # 13780: Spent hours have excessive fraction in P...		<b>Closed</b>	
Related to Redmine - Defect # 28233: IssuesPdfHelperTest fails when run in is...		<b>Closed</b>	

#### Associated revisions

##### Revision 17059 - 2017-12-06 15:25 - Go MAEDA

Fix: Round floats to 2 digits when rendering an issue list to PDF (#12510).

Patch by Holger Just and Marius BALTEANU.

##### Revision 17063 - 2017-12-07 12:46 - Toshi MARUYAMA

svn propset svn:eol-style native test/unit/lib/redmine/export/pdf/issues\_pdf\_test.rb (#12510)

##### Revision 17065 - 2017-12-07 13:03 - Toshi MARUYAMA

code clean up IssuesPdfHelperTest (#12510)

- remove extra empty lines
- remove trailing white space
- replace tab to two spaces

##### Revision 17077 - 2017-12-07 15:28 - Toshi MARUYAMA

add copyright header to test/unit/lib/redmine/helpers/url\_test.rb (#12510)



**#7 - 2013-02-19 15:21 - Filou Centrinov**

Please, could you fix this with redmine 2.3?

**#8 - 2013-02-19 16:46 - Daniel Felix**

Filou Centrinov wrote:

| *UPDATE: No. It does not relate to #12680.*

Why not? It seems for me to be again some floating point error, which we've encounter many times in different systems.

**#9 - 2013-02-19 18:11 - Filou Centrinov**

Daniel Felix wrote:

| *Why not? It seems for me to be again some floating point error, which we've encounter many times in different systems.*

The difference is: In #12680 the number is too big, so the floating precision can not be provided. In this issue we are within the floating precision, so the correct presentation should be provided.

The problem is internal caused by displaying a value with a higher precision then the value originaly had. So 0.1 becomes 0.100000001490116, because the type of variable had a precision of 32bit that allows only 8 positions after decimal point. Therefore this problem can easily fixed by: "%.2f" % value

See: attachment:"pdf.rb.patch"

**#10 - 2013-02-20 14:30 - Filou Centrinov**

In /lib/redmine/i18n.rb is a function called l\_hours to format hours into a value+label string. If this function would'nt be used in /app/view/issues/show.html.erb you get the same effect of displayed spent time.

So l\_hours fixes the same "bug", but with an additional label.

**#11 - 2013-03-06 12:37 - Filou Centrinov**

- *File pdf.rb.patch added*

**#12 - 2013-07-15 20:59 - Filou Centrinov**

Please fix this. It's a small fix. ... or make it to a candidate.

**#13 - 2013-07-16 08:31 - Etienne Massip**

- *Status changed from New to Confirmed*

- *Target version set to Candidate for next minor release*

I can confirm the defect although I'm not fond of the patch, is it possible to fix every single float value display at once rather than specific attributes?

Edit: confirmed with MRI 1.9.3

#### #14 - 2013-08-05 09:55 - David Lukas Müller

+1

For the particular issue I've observed that on Redmine 2.3.1 I had the following time entries:

- 3.50h
- 1.25h
- 0.30h (I think I've entered "0:20")

And that is what I see:

- 5.05 with Web User Interface (HTML) --> **good**
- 5.050000011920929 with PDF-Export --> **should be improved**
- "spent\_hours":5.050000011920929 with REST API (JSON) using http://myhost/redmine/issues/1234.json --> **should be improved**

#### #15 - 2013-08-05 12:06 - Toshi MARUYAMA

- File web-edit.png added

David Lukas Müller wrote:

- 5.05 with Web User Interface (HTML) --> **good**

Web edit form has same problem.

web-edit.png

#### #16 - 2013-08-05 12:09 - Toshi MARUYAMA

You can see by following change.

```
diff --git a/app/views/issues/_attributes.html.erb b/app/views/issues/_attributes.html.erb
--- a/app/views/issues/_attributes.html.erb
+++ b/app/views/issues/_attributes.html.erb
@@ -63,7 +63,7 @@
<% end %>

<% if @issue.safe_attribute? 'estimated_hours' %>
- <p><%= f.text_field :estimated_hours, :size => 3, :disabled => !@issue.leaf?, :required => @issue.required_attribute?('estimated_hours') %>
<%= l(:field_hours) %></p>
+ <p><%= f.text_field :estimated_hours, :size => 6, :disabled => !@issue.leaf?, :required => @issue.required_attribute?('estimated_hours') %>
<%= l(:field_hours) %></p>
<% end %>

<% if @issue.safe_attribute?('done_ratio') && @issue.leaf? && Issue.use_field_for_done_ratio? %>
```

#### #17 - 2014-10-29 15:35 - Holger Just

- File 0001-Round-floats-to-2-digits-when-rendering-an-issue-lis.patch added

The attached patch (which was extracted from [Planio](#)) fixes this issue for all float values in table cells. This patch thus addresses the concerns of

Etienne above.

The patch works against current trunk but should apply similarly to earlier versions. The used method is the one used in the `QueriesHelper#column_value` method and thus should produce results similar to it.

**#18 - 2014-10-29 15:39 - Jan from Planio [www.plan.io](http://www.plan.io)**

- Assignee set to Jean-Baptiste Barth

In case you were still looking for easy fixes :)

**#19 - 2014-11-02 23:07 - Jean-Baptiste Barth**

- Affected version changed from 2.1.2 to 2.6.0

I do :) First I'll try to add some tests to this part of the code but no pb I'll merge it after.

**#20 - 2016-12-19 17:17 - Olivier Houdas**

Tested on 3.3.1, still occurs.

**#21 - 2017-11-15 14:38 - S. Ruttloff**

Problem still exists in Redmine 3.3.2, but could fix it here:

`/lib/redmine/export/pdf/issues_pdf_helper.rb`

Search for

```
if value.is_a?(Date)
  format_date(value)
elsif value.is_a?(Time)
  format_time(value)
else
  value
end
```

and replace by

```
if value.is_a?(Date)
  format_date(value)
elsif value.is_a?(Time)
  format_time(value)
elsif value.is_a?(Float)
  sprintf "%.2f", value
else
  value
end
```

**#22 - 2017-11-27 01:47 - Marius BALTEANU**

- File *0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17037.patch* added
- File *before.png* added
- File *after.png* added
- Assignee deleted (*Jean-Baptiste Barth*)

Tested on current trunk (r17037) and the issue still occurs.

I've updated the patch from Holger Just to apply cleanly. I think that we can fix this issue in the next release.

**Before:**

*before.png*

**After:**

*after.png*

**#23 - 2017-12-05 08:54 - Mischa The Evil**

We might want some test coverage added if there isn't any yet, as Jean-Baptiste already suggested.

**#24 - 2017-12-05 23:18 - Marius BALTEANU**

- File *deleted (0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17037.patch)*

**#25 - 2017-12-05 23:20 - Marius BALTEANU**

- File *0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17055.patch* added

Mischa The Evil wrote:

| *We might want some test coverage added if there isn't any yet, as Jean-Baptiste already suggested.*

Attached an updated patch that contains the fix and a test strictly for this scenario. On top of this patch, we can add more tests in the future to improve the coverage.

**#26 - 2017-12-06 00:30 - Mischa The Evil**

- Subject changed from *Issues PDF export - Spent time to Issues PDF export: Spent time/Float-values aren't rounded to 2 digits.*
- Target version changed from *Candidate for next minor release* to *4.1.0*

Thanks Holger and Marius.

**#27 - 2017-12-06 07:43 - Marius BALTEANU**

- File *deleted (0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17055.patch)*

**#28 - 2017-12-06 07:43 - Marius BALTEANU**

- File 0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17055.patch added

I had a typo in my previous patch.

Maybe we can deliver this fix earlier than Redmine 4.

**#29 - 2017-12-06 13:30 - Go MAEDA**

Marius, thank you for adding a test. But I encountered the following error. Could you look into it?

```
$ ruby test/unit/lib/redmine/export/pdf/issues_pdf_test.rb
```

```
Run options: --seed 32491
```

```
# Running:
```

```
F
```

```
Failure:
```

```
IssuesPdfHelperTest#test_fetch_row_values_should_round_float_values [test/unit/lib/redmine/export/pdf/issues_pdf_test.rb:32]:
```

```
--- expected
```

```
+++ actual
```

```
@@ -1 +1 @@
```

```
-["2", "Add ingredients categories", "4.34"]
```

```
+["2", "Add ingredients categories", "0.00"]
```

```
bin/rails test test/unit/lib/redmine/export/pdf/issues_pdf_test.rb:23
```

```
Finished in 0.658523s, 1.5185 runs/s, 1.5185 assertions/s.
```

```
1 runs, 1 assertions, 1 failures, 0 errors, 0 skips
```

**#30 - 2017-12-06 14:28 - Marius BALTEANU**

- File deleted (0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17055.patch)

**#31 - 2017-12-06 14:32 - Marius BALTEANU**

- File 0001-Round-floats-to-2-digits-when-rendering-an-issue-lis\_r17055.patch added

It should be fine now.

**#32 - 2017-12-06 15:31 - Go MAEDA**

- Status changed from Confirmed to Closed

- Assignee set to Go MAEDA

- Target version changed from 4.1.0 to 4.0.0

- Resolution set to Fixed

Committed in the trunk (r17059). Thank you.

**#33 - 2017-12-17 06:27 - Toshi MARUYAMA**

- Subject changed from *Issues PDF export: Spent time/Float-values aren't rounded to 2 digits.* to *Issues PDF export: Spent time/Float-values aren't rounded to 2 digits*

**#34 - 2018-02-22 11:30 - Marius BALTEANU**

- Related to Defect #28233: *IssuesPdfHelperTest fails when run in isolation added*

**#35 - 2018-02-24 10:35 - Go MAEDA**

A fix for `issues_pdf_test` was submitted as #28233. I committed the fix in r17212.

**Files**

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export.pdf	311 KB	2012-12-07	fangzheng (方 Zheng)
pdf.patch	436 Bytes	2013-02-12	Filou Centrinov
pdf.rb.patch	531 Bytes	2013-03-06	Filou Centrinov
web-edit.png	4.52 KB	2013-08-05	Toshi MARUYAMA
0001-Round-floats-to-2-digits-when-rendering-an-issue-lis.patch	739 Bytes	2014-10-29	Holger Just
before.png	79.7 KB	2017-11-27	Marius BALTEANU
after.png	63.8 KB	2017-11-27	Marius BALTEANU
0001-Round-floats-to-2-digits-when-rendering-an-issue-lis_r17055.patch	21 KB	2017-12-06	Marius BALTEANU