

Redmine - Defect #37151

The done ratio of a parent issue may not be 100% even if all subtasks have a done ratio of 100%

2022-05-24 02:44 - Go MAEDA

Status: Closed	Start date:
Priority: Normal	Due date:
Assignee: Go MAEDA	% Done: 0%
Category: Issues	Estimated time: 0.00 hour
Target version: 5.0.2	Affected version:
Resolution: Fixed	
Description	
The steps to reproduce: 1. Create an issue 2. Create 11 subtasks for the issue 3. Set the done ratio of all subtasks to 100% 4. Set the estimated time for 10 subtasks to 10 hours and 1 subtask to 9 hours (this means that the total estimated hours will be 109 hours) parent.png subtasks.png	
Related issues:	
Related to Redmine - Defect # 27848: The progress exceeding 99.5% is displaye...	Closed
Related to Redmine - Defect # 33576: Done ratio of a parent issue may be show...	Closed

Associated revisions

Revision 21626 - 2022-06-08 17:40 - Go MAEDA

The done ratio of a parent issue may not be 100% even if all subtasks have a done ratio of 100% (#37151).

Patch by Go MAEDA.

Revision 21628 - 2022-06-10 11:17 - Go MAEDA

Merged r21626 from the trunk to 5.0-stable (#37151).

History

#1 - 2022-05-24 03:07 - Go MAEDA

- Related to Defect #27848: The progress exceeding 99.5% is displayed as 100% added

#2 - 2022-05-24 04:02 - Go MAEDA

The following change works in the reported case.

```
diff --git a/app/models/issue.rb b/app/models/issue.rb
index ab9f794db..d957d5933 100644
--- a/app/models/issue.rb
+++ b/app/models/issue.rb
@@ -1851,7 +1851,7 @@ class Issue < ActiveRecord::Base
```



```

end
done = children.sum do |c|
-   estimated = (c.total_estimated_hours || 0.0).to_d
+   estimated = Rational(c.total_estimated_hours.to_f.to_s)
  estimated = average unless estimated > 0.0
  ratio = c.closed? ? 100 : (c.done_ratio || 0)
  estimated * ratio
end
-   progress = done / (average * children.count)
+   progress = Rational(done, average * children.count)
  p.done_ratio = progress.floor
end
end

```

```

irb(main):023:0> done
=> (10900/1)
irb(main):024:0> average
=> (109/11)
irb(main):025:0> children.count
=> 11
irb(main):026:0> progress
=> (100/1)
irb(main):027:0> progress.floor
=> 100

```

#5 - 2022-05-24 10:41 - Go MAEDA

- File 37151.patch added

Attaching a patch.

#6 - 2022-05-24 11:30 - Go MAEDA

- Target version set to Candidate for next minor release

#7 - 2022-05-24 11:46 - Holger Just

I think your latter patch with the Rationals is more correct than mixing Decimals and Floats would be. Thank you Maeda-san!

As a slight optimization however, I don't think it is necessary to use to_s in the numbers before parsing the Rationals. I think Kernel#Rational also accepts Floats and Integers at least down to Ruby 2.4.

Thus, I believe this should be functionally equivalent to your patch in #37151#note-5 above:

```

diff --git a/app/models/issue.rb b/app/models/issue.rb
index ab9f794db..519b26fd8 100644
--- a/app/models/issue.rb
+++ b/app/models/issue.rb
@@ -1838,19 +1838,20 @@ class Issue < ActiveRecord::Base
  if children.any?
    child_with_total_estimated_hours = children.select {|c| c.total_estimated_hours.to_f > 0.0}

```

```

if child_with_total_estimated_hours.any?
-   average =
-   child_with_total_estimated_hours.sum(&:total_estimated_hours).to_d /
-   child_with_total_estimated_hours.count
+   average = Rational(
+   child_with_total_estimated_hours.sum(&:total_estimated_hours),
+   child_with_total_estimated_hours.count
+   )
else
-   average = BigDecimal('1.0')
+   average = Rational(1)
end
done = children.sum do |c|
-   estimated = (c.total_estimated_hours || 0.0).to_d
-   estimated = average unless estimated > 0.0
+   estimated = Rational(c.total_estimated_hours.to_f)
+   estimated = average unless estimated > 0
ratio = c.closed? ? 100 : (c.done_ratio || 0)
estimated * ratio
end
progress = done / (average * children.count)
p.done_ratio = progress.floor
end
end

```

#8 - 2022-05-24 16:32 - Go MAEDA

Holger Just wrote:

As a slight optimization however, I don't think it is necessary to use to_s in the numbers before parsing the Rationals. I think Kernel#Rational also accepts Floats and Integers at least down to Ruby 2.4.

Thank you for optimizing the patch. But I found that it breaks an existing test.

Failure:

IssueSubtaskingTest#test_done_ratio_of_parent_with_completed_children_should_not_be_99 [test/unit/issue_subtasking_test.rb:250]:

Expected: 100

Actual: 99

rails test test/unit/issue_subtasking_test.rb:244

This is because the value of Rational("8.1") and Rational(8.1) are not the same. Rational("8.1") represents 0.8 while Rational(8.1) represents 8.09999999999999964472.... So, I think it is safe to convert a float value to string before passing the value to Kernel.#Rational.

```
irb(main):001:0> Rational("0.1")
```

```
=> (1/10)
```

```
irb(main):002:0> Rational(0.1)
```

```
=> (3602879701896397/36028797018963968)
```

#9 - 2022-05-25 01:49 - Go MAEDA

Using Float#to_d instead of Float#to_s also works as expected. It may be better because using Float#to_d makes it clear that floating-point errors are taken into account.

```
diff --git a/app/models/issue.rb b/app/models/issue.rb
index ab9f794db..2b488c0fd 100644
--- a/app/models/issue.rb
+++ b/app/models/issue.rb
@@ -1838,19 +1838,20 @@ class Issue < ActiveRecord::Base
  if children.any?
    child_with_total_estimated_hours = children.select {|c| c.total_estimated_hours.to_f > 0.0}
    if child_with_total_estimated_hours.any?
-     average =
-     child_with_total_estimated_hours.sum(&:total_estimated_hours).to_d /
-     child_with_total_estimated_hours.count
+     average = Rational(
+     child_with_total_estimated_hours.sum(&:total_estimated_hours).to_d,
+     child_with_total_estimated_hours.count
+     )
    else
-     average = BigDecimal('1.0')
+     average = Rational(1)
    end
    done = children.sum do |c|
-     estimated = (c.total_estimated_hours || 0.0).to_d
+     estimated = Rational(c.total_estimated_hours&.to_d || 0)
    estimated = average unless estimated > 0.0
    ratio = c.closed? ? 100 : (c.done_ratio || 0)
    estimated * ratio
  end
-   progress = done / (average * children.count)
+   progress = Rational(done, average * children.count)
  p.done_ratio = progress.floor
end
end
```

#10 - 2022-05-26 16:31 - Go MAEDA

- File 37151-v2.patch added
- Target version changed from Candidate for next minor release to 5.0.2

Setting the target version to 5.0.2.

#11 - 2022-06-08 17:40 - Go MAEDA

- Status changed from New to Resolved
- Assignee set to Go MAEDA
- Resolution set to Fixed

Committed the patch.

#12 - 2022-06-10 11:17 - Go MAEDA

- Status changed from Resolved to Closed

Merged to 5.0-stable in r21628.

Files

parent.png	264 KB	2022-05-24	Go MAEDA
subtasks.png	171 KB	2022-05-24	Go MAEDA
37151.patch	2.58 KB	2022-05-24	Go MAEDA
37151-v2.patch	1.37 KB	2022-05-26	Go MAEDA