

Redmine - Defect #32915

Internal Server Error occurred when exporting gantt chart to png on Windows

2020-01-29 05:11 - Anonymous

Status:	New	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Gantt	Estimated time:	0.00 hour
Target version:		Affected version:	4.1.0
Resolution:			
Description			
<p>Redmine 4.0.4 using RMagick was fine. However, Redmine 4.1.0 using MiniMagick does not work.</p> <p>production.log of Redmine 4.1.0 is this:</p> <pre>Started GET "/redmine/projects/some_project/issues/gantt.png?..." for (IP) at (date) Processing by GanttsController#show as PNG Parameters: {...} Current user: admin (id=1) Completed 500 Internal Server Error in 290ms (ActiveRecord: 63.0ms) Errno::E2BIG (Arg list too long - convert): lib/redmine/helpers/gantt.rb:381:in `to_image' app/controllers/gantts_controller.rb:44:in `block (2 levels) in show' app/controllers/gantts_controller.rb:42:in `show'</pre> <p>On Windows, the ImageMagick's "convert" command length is too long, and then error occurred. I want to shorten the command length or split the command if Redmine keeps using Minimagick. And there should be some exception code as below:</p> <pre>--- a\lib\redmine\helpers\gantt.rb +++ b\lib\redmine\helpers\gantt.rb @@ -488,4 +488,15 @@ end img.to_blob + rescue + MiniMagick::Tool::Convert.new do gc + # create error message image + gc.size('%dx%d' % [200, 50]) + gc.xc('white') + gc.stroke('transparent').fill('red') + # and draw error message + gc.draw('text %d,%d %s' % [10, 20, Redmine::Utils::Shell.shell_quote('Gantt size too bi g.')] + gc << img.path + end + img.to_blob ensure img.destroy! if img</pre> <p>For some reason, I have to keep using Redmine on Windows...</p>			

History

#1 - 2020-01-31 05:17 - Anonymous

To work on Windows, divided the MiniMagick "convert" block.

This patch can display up to about 200 issues.

However, the subjects() and lines() functions create "convert" commands internally, so these couldn't be divided.

```
--- a/lib/redmine/helpers/gantt.rb
+++ b/lib/redmine/helpers/gantt.rb
@@ -386,4 +386,11 @@
     gc.stroke('transparent')
     subjects(:image => gc, :top => (headers_height + 20), :indent => 4, :format => :image)
+   gc << img.path
+   gc.call
+   end
+   # Make blocks smaller for windows
+   MiniMagick::Tool::Convert.new do |gc|
+     gc << img.path
+     gc.font(font_path) if font_path.present?
+     # Months headers
+     month_f = @date_from
@@ -472,4 +479,11 @@
     0, 0, subject_width + g_width, g_height + headers_height - 1
  ])
+   gc << img.path
+   gc.call
+   end
+   # Make blocks smaller for windows
+   MiniMagick::Tool::Convert.new do |gc|
+     gc << img.path
+     gc.font(font_path) if font_path.present?
+     # content
+     top = headers_height + 20
```

#2 - 2020-02-07 06:37 - Anonymous

Changed to split MiniMagick's "convert" command on Windows only.

To do so, changed the "convert" object (gc) to an instance variable (@gc), and added an @minimagick_command_max instance variable for the command splitting.

```
@@ -90,4 +90,6 @@
    @max_rows = Setting.gantt_items_limit.blank? ? nil : Setting.gantt_items_limit.to_i
  end
+  @gc = nil
+  @minimagick_command_max = Redmine::Platform.mswin? ? 1000 : -1
  end

@@ -379,11 +381,11 @@
  font_path = Redmine::Configuration['minimagick_font_path'].presence || Redmine::Configuration['rmagic
k_font_path'].presence
  img = MiniMagick::Image.create("#{format}", false)
-  MiniMagick::Tool::Convert.new do |gc|
-    gc.size('%dx%d' % [subject_width + g_width + 1, height])
-    gc.xc('white')
-    gc.font(font_path) if font_path.present?
+  @gc = MiniMagick::Tool::Convert.new
+  @gc.size('%dx%d' % [subject_width + g_width + 1, height])
+  @gc.xc('white')
+  @gc.font(font_path) if font_path.present?
+  # Subjects
-  gc.stroke('transparent')
-  subjects(:image => gc, :top => (headers_height + 20), :indent => 4, :format => :image)
+  @gc.stroke('transparent')
+  subjects(:image => @gc, :top => (headers_height + 20), :indent => 4, :format => :image, :img_path =
> img.path, :font_path => font_path)
+  # Months headers
+  month_f = @date_from
@@ -391,14 +393,14 @@
  @months.times do
    width = ((month_f >> 1) - month_f) * zoom
-    gc.fill('white')
-    gc.stroke('grey')
-    gc.strokewidth(1)
-    gc.draw('rectangle %d,%d %d,%d' % [
+    @gc.fill('white')
+    @gc.stroke('grey')
+    @gc.strokewidth(1)
+    @gc.draw('rectangle %d,%d %d,%d' % [
      left, 0, left + width, height
```

```

    ])
-   gc.fill('black')
-   gc.stroke('transparent')
-   gc.strokewidth(1)
-   gc.draw('text %d,%d %s' % [
+   @gc.fill('black')
+   @gc.stroke('transparent')
+   @gc.strokewidth(1)
+   @gc.draw('text %d,%d %s' % [
      left.round + 8, 14, Redmine::Utils::Shell.shell_quote("#{month_f.year}-#{month_f.month}")
    ])
@@ -417,8 +419,8 @@
    week_f = @date_from + (7 - @date_from.cwday + 1)
    width = (7 - @date_from.cwday + 1) * zoom
-   gc.fill('white')
-   gc.stroke('grey')
-   gc.strokewidth(1)
-   gc.draw('rectangle %d,%d %d,%d' % [
+   @gc.fill('white')
+   @gc.stroke('grey')
+   @gc.strokewidth(1)
+   @gc.draw('rectangle %d,%d %d,%d' % [
      left, header_height, left + width, 2 * header_height + g_height - 1
    ])
@@ -427,14 +429,14 @@
    while week_f <= date_to
      width = (week_f + 6 <= date_to) ? 7 * zoom : (date_to - week_f + 1) * zoom
-   gc.fill('white')
-   gc.stroke('grey')
-   gc.strokewidth(1)
-   gc.draw('rectangle %d,%d %d,%d' % [
+   @gc.fill('white')
+   @gc.stroke('grey')
+   @gc.strokewidth(1)
+   @gc.draw('rectangle %d,%d %d,%d' % [
      left.round, header_height, left.round + width, 2 * header_height + g_height - 1
    ])
-   gc.fill('black')
-   gc.stroke('transparent')
-   gc.strokewidth(1)
-   gc.draw('text %d,%d %s' % [
+   @gc.fill('black')
+   @gc.stroke('transparent')
+   @gc.strokewidth(1)
+   @gc.draw('text %d,%d %s' % [
      left.round + 2, header_height + 14, Redmine::Utils::Shell.shell_quote(week_f.cweek.to_s)
    ])
@@ -450,10 +452,18 @@
    (date_to - @date_from + 1).to_i.times do
      width = zoom
-   gc.fill(non_working_week_days.include?(wday) ? '#eee' : 'white')
-   gc.stroke('#ddd')
-   gc.strokewidth(1)
-   gc.draw('rectangle %d,%d %d,%d' % [
+   @gc.fill(non_working_week_days.include?(wday) ? '#eee' : 'white')
+   @gc.stroke('#ddd')
+   @gc.strokewidth(1)
+   @gc.draw('rectangle %d,%d %d,%d' % [
      left, 2 * header_height, left + width, 2 * header_height + g_height - 1
    ])
+   # Make blocks smaller for windows
+   if (@minimagick_command_max > 0) && (@gc.command.length > @minimagick_command_max)
+     @gc << img.path
+     @gc.call
+     @gc = MiniMagick::Tool::Convert.new
+     @gc << img.path
+     @gc.font(font_path) if font_path.present?
+   end
    left = left + width
    wday = wday + 1
@@ -462,29 +472,45 @@
  end
  # border
- gc.fill('transparent')
- gc.stroke('grey')

```

```

-         gc.strokewidth(1)
-         gc.draw('rectangle %d,%d %d,%d' % [
+         @gc.fill('transparent')
+         @gc.stroke('grey')
+         @gc.strokewidth(1)
+         @gc.draw('rectangle %d,%d %d,%d' % [
            0, 0, subject_width + g_width, headers_height
        ])
-         gc.stroke('black')
-         gc.draw('rectangle %d,%d %d,%d' % [
+         @gc.stroke('black')
+         @gc.draw('rectangle %d,%d %d,%d' % [
            0, 0, subject_width + g_width, g_height + headers_height - 1
        ])
        # content
        top = headers_height + 20
-         gc.stroke('transparent')
-         lines(:image => gc, :top => top, :zoom => zoom,
-             :subject_width => subject_width, :format => :image)
+         @gc.stroke('transparent')
+         lines(:image => @gc, :top => top, :zoom => zoom,
+             :subject_width => subject_width, :format => :image, :img_path => img.path, :font_path => font
_path)
        # today red line
        if User.current.today >= @date_from and User.current.today <= date_to
-         gc.stroke('red')
+         @gc.stroke('red')
            x = (User.current.today - @date_from + 1) * zoom + subject_width
-         gc.draw('line %g,%g %g,%g' % [
+         @gc.draw('line %g,%g %g,%g' % [
            x, headers_height, x, headers_height + g_height - 1
        ])
        end
-         gc << img.path
-         end
+         @gc << img.path
+         @gc.call
+         img.to_blob
+         rescue
+         @gc = MiniMagick::Tool::Convert.new
+         # create error message image
+         @gc.size('%dx%d' % [600, 120])
+         @gc.xc('white')
+         @gc.stroke('transparent').fill('red')
+         @gc.pointsize(20)
+         # and draw error message
+         err_message = <<"EOS"
+Image generation failed.
+There may be too much issues.
+Please decrease the number of issues.
+EOS
+         @gc.draw('text %d,%d %s' % [10, 40, Redmine::Utils::Shell.shell_quote(err_message)])
+         @gc << img.path
+         img.to_blob
        ensure
@@ -803,10 +829,18 @@

def image_subject(params, subject, options={})
-     params[:image].fill('black')
-     params[:image].stroke('transparent')
-     params[:image].strokewidth(1)
-     params[:image].draw('text %d,%d %s' % [
+     @gc.fill('black')
+     @gc.stroke('transparent')
+     @gc.strokewidth(1)
+     @gc.draw('text %d,%d %s' % [
        params[:indent], params[:top] + 2, Redmine::Utils::Shell.shell_quote(subject)
    ])
+     # Make blocks smaller for windows
+     if (@minimagick_command_max > 0) && (@gc.command.length > @minimagick_command_max)
+         @gc << params[:img_path]
+         @gc.call
+         @gc = MiniMagick::Tool::Convert.new
+         @gc << params[:img_path]
+         @gc.font(params[:font_path]) if params[:font_path].present?

```

```

+     end
+     end

@@ -992,6 +1026,6 @@
+     # Renders the task bar, with progress and late
+     if coords[:bar_start] && coords[:bar_end]
-     params[:image].fill('#aaa')
-     params[:image].draw('rectangle %d,%d %d,%d' % [
+     @gc.fill('#aaa')
+     @gc.draw('rectangle %d,%d %d,%d' % [
+       params[:subject_width] + coords[:bar_start],
+       params[:top],
@@ -1000,6 +1034,6 @@
+     ])
+     if coords[:bar_late_end]
-     params[:image].fill('#f66')
-     params[:image].draw('rectangle %d,%d %d,%d' % [
+     @gc.fill('#f66')
+     @gc.draw('rectangle %d,%d %d,%d' % [
+       params[:subject_width] + coords[:bar_start],
+       params[:top],
@@ -1009,6 +1043,6 @@
+     end
+     if coords[:bar_progress_end]
-     params[:image].fill('#00c600')
-     params[:image].draw('rectangle %d,%d %d,%d' % [
+     @gc.fill('#00c600')
+     @gc.draw('rectangle %d,%d %d,%d' % [
+       params[:subject_width] + coords[:bar_start],
+       params[:top],
@@ -1023,6 +1057,6 @@
+     x = params[:subject_width] + coords[:start]
+     y = params[:top] - height / 2
-     params[:image].fill('blue')
-     params[:image].draw('polygon %d,%d %d,%d %d,%d %d,%d' % [
+     @gc.fill('blue')
+     @gc.draw('polygon %d,%d %d,%d %d,%d %d,%d' % [
+       x - 4, y,
+       x, y - 4,
@@ -1034,6 +1068,6 @@
+     x = params[:subject_width] + coords[:end] + params[:zoom]
+     y = params[:top] - height / 2
-     params[:image].fill('blue')
-     params[:image].draw('polygon %d,%d %d,%d %d,%d %d,%d' % [
+     @gc.fill('blue')
+     @gc.draw('polygon %d,%d %d,%d %d,%d %d,%d' % [
+       x - 4, y,
+       x, y - 4,
@@ -1045,9 +1079,17 @@
+     # Renders the label on the right
+     if label
-     params[:image].fill('black')
-     params[:image].draw('text %d,%d %s' % [
+     @gc.fill('black')
+     @gc.draw('text %d,%d %s' % [
+       params[:subject_width] + (coords[:bar_end] || 0) + 5, params[:top] + 1, Redmine::Utils::Shell.shell_quote(label)
+     ])
+     end
+     # Make blocks smaller for windows
+     if (@minimagick_command_max > 0) && (@gc.command.length > @minimagick_command_max)
+     @gc << params[:img_path]
+     @gc.call
+     @gc = MiniMagick::Tool::Convert.new
+     @gc << params[:img_path]
+     @gc.font(params[:font_path]) if params[:font_path].present?
+     end
+     end
+     end
end

```

#3 - 2020-02-07 08:39 - Go MAEDA

- Subject changed from Internal Server Error occurred when exporting gantt chart to png to Internal Server Error occurred when exporting gantt chart to png on Windows

#4 - 2021-09-17 05:30 - ☐ ☐

taca tadocolo wrote:

Changed to split MiniMagick's "convert" command on Windows only.

To do so, changed the "convert" object (gc) to an instance variable (@gc), and added an @minimagick_command_max instance variable for the command splitting.

[...]

hello☐ taca tadocolo

"@gc.size('%dx%d' % [subject_width + g_width + 1, height])" build error was occurred.

how to fix it☐