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Subject: Re: Raster Control

Posted by [mrjt](#) on Tue, 01 Apr 2008 13:11:19 GMT

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I'm opening an image that doesn't require thumbnails to be shown and is smaller than the window. This causes 3/4 divide by ZERO errors for various reasons. I appreciate that this is kind of the opposite to how the control is supposed to be used though.

- In RasterThumbsCtrl::CalcScale:

```
int RasterThumbsCtrl::CalcScale(int imScale, int rasterWidth, int maxPageHeight)
{
    // calculates scale factor based on max thumb width
    // slightly smaller than ctrl width
    int maxScaledWidth = iscale(GetSize().cx, THUMBS_HSIZE_MUL, THUMBS_HSIZE_DIV);
    return iscale(maxScaledWidth, 1000, rasterWidth);
```

```
} // END RasterThumbsCtrl::CalcScale() With no thumbnails GetSize().cx is 0 since you have
previously set the splitter pos to 0. imageScale is then set to 0 and causes a DIVIDE_BY_ZERO.
Adding the following after the call to CalcSize in RasterBaseCtrl::Layout
```

```
if (!imageScale) {
    inside = false;
    return;
} fixes it.
```

- Also RasterBaseCtrl::Layout. You need !0 checks for vScrollMax and hScrollMax on the two lines that do:

hScrollBar.Set(iscale(hScrollPos, scaledRasterWidth, hScrollMax)); and the vertical equivalent. I don't really understand what's going on here, but I can't see how this could ever work since vScrollMax should always start as 0.

- RasterBaseCtrl::PaintCache. Add a check for imageScale == 0 at the start of the function.

- ImageCache::Fill, caused when you resize the window down to nothing. Change first line to: `if(imageBuffer.IsEmpty() || !imageBuffer.GetSize().cx || !imageBuffer.GetSize().cy)`

Then everything works very nicely .

You also may want to investigate Upp::Scroller. Not sure if this'll help in your case but it's worth a look.

James

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