Subject: Re: Incomplete ouput PNG files.
Posted by lecacheux.alain on Thu, 15 Dec 2011 10:32:47 GMT
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On 15 déc, 11:22, alx < lecacheux.al...@wanadoo.fr> wrote:
> On 14 déc, 23:21, David Fanning <n...@dfanning.com> wrote:
>
>
>
>
>
>> Mark Piper writes:
>>> This is a slightly different workflow, but could you please try setting
>>> the BUFFER keyword in your call to IMAGE? E.g.,
>>> p = image(data, /buffer)
>>> p.save, 'this image.png'
>>> p.close
>
>>> The graphic will be rendered in an offscreen buffer. I have a hunch that
>>> this may help, since this feels like a tricky (to me, at least) X server
>>> issue.
>> I was curious to see how Coyote Graphics output would
>> stack up against the output from these function graphics
>> routines. But I wanted to be able to compare apples
>> to apples, so I spent some time today modifying the
>> Coyote Graphic routines so that I could control
>> the output file parameters, and in particular, the
>> resolution of the output.
>> This is now done with cgWindow_SetDefs, just like
  it is for cgWindow. In my first comparisons, I noticed
>> that the function graphics output was a bit darker
>> than the Coyote Graphics output, so I defined a new
>> keyword for PS_START, called DEFAULT_THICKNESS so that
>> I can set the default line and character thickness for
>> the PostScript output. I set the default to 3 to better
>> match the function graphics output.
>
>> Anyway, you will need an updated Coyote Library to run
   the program described, if you want to play around with this:
>
     http://www.idlcoyote.com/programs/zip_files/coyoteprograms.z ip
>>
>
>> This is tagged release 1.5.1, if you are using the Subversion
>> repository.
>
```

- >> So, here is the program. I'm doing a simple plot command and
- >> saving the data as JPEG, PNG, and encapsulated PostScript files.
- >> (Coyote Graphics routines actually produce landscape PostScript
- >> files, which function graphics commands do not, so I am using
- >> encapsulated PostScript for my comparisons. Both will produce
- >> encapsulated output in Portrait mode.) I've saved the files
- >> at 600 dpi, 300 dpi and 75 dpi.

>

>> I was careful to make sure I was using the same size window

>> in both cases, 640 in X and 512 in Y.

>

- >> In general, I can't really tell much difference in the output.
- >> The title is set too close to the plot, but that has always
- >> been the case in direct graphics. That is about the only
- >> difference that really jumps out at me.

>

- >> A couple of odd things. The PostScript files are all the
- >> same size at every resolution. They are 11KB for Coyote
- >> Graphics output and 9 KB for function graphics output.
- >> Here is a table of values in KM. The size values are
- >> a comparison of the output. You can see that Coyote
- >> Graphics routines are consistently larger in dimensions,
- >> but smaller in total size. I don't know how to account for
- >> this. In any case, the visual output is comparable so
- >> I assume this is just a different way of setting the
- >> resolution. The XSIZE and YSIZE dimensions are for the
- >> JPEG file in every case, but the comparable PNG file
- >> has the same dimensions.

>

>>	EF	PS	JPEG	PN	G XSI	ZE YSIZE
>>	cg75	11	39	63	717	573
>>	fg75	9	39	33	667	534
>						
	cg300		227	46	2867	2292
>>	fg300	9	254	165	2669	2135
>						
	cg600		568	131	5733	3 4583
>>	fg600	9	736	379	5339	4271

- >> I guess the bottom line is that I am EXTREMELY happy
- >> with the performance of Coyote Graphics in this
- >> comparison. Not only are my routines faster, but the output
- >> I care about is essentially identical to the output
- >> from function graphics routines. As an added bonus,
- >> my output files are significantly smaller at high
- >> resolution. I don't know why this would be the case.

>> Here is the code I used, if you want to try this for

```
>> yourself:
    http://www.idlcoyote.com/misc/compare_resolution.pro
>>
>> Cheers,
>> David
>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming:http://www.idlcoyote.com/
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
> I could note that the "p.save"d PNG file size is depending on the
> window size when using an open NG graphics window. I guess that the
> saved graphic file will depend on the off-screen buffer size when
> BUFFER keyword is used. But what is this size? I could not find the
> answer in 8.1 documentation. Maybe larger that Coyote's one
> (IDLgrBuffer has a maximum size of 82192x8192)?
> alx.- Masquer le texte des messages précédents -
> - Afficher le texte des messages précédents -
```

sorry, please read 8192x8192 in my previous message.