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Subject: Re: Crowd support wanted for adding metadata to READ\_PNG and WRITE\_PNG

Posted by [andrewcool777](#) on Tue, 27 Sep 2016 00:33:56 GMT

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On Tuesday, 6 September 2016 21:18:06 UTC+9:30, Markus Schmassmann wrote:

> On 09/05/2016 05:11 AM, andrewcool777@gmail.com wrote:

>> The PNG image format is a wonderful thing. Lossless, but with user  
>> selectable variable compression, 8 or 16bit image data, and most  
>> importantly, the ability to have user-defined metadata!

>>

>> Yet for some reason, in their infinite wisdom, RSI never provided the  
>> functionality to read or write the metadata when they wrote the  
>> routines! :-(

>>

>> I run a number of airglow cameras, provided by the great guys at Keo  
>> Scientific, and the images are saved as PNG files, with a basic set  
>> of metadata. Now I've been able to write IDL code to extract that  
>> metadata, and write PNG files with (extended, modified) metadata, as  
>> reported previously, but it's quite (read \_very\_) slow, and would  
>> definitely be better off done within the IDL Read\_PNG and Write\_PNG  
>> routines!

>>

>> However, as I'm the only IDL user on the planet to request this  
>> feature, I'm told by Harris Support that it won't happen unless more  
>> users put their hands up and say "Me too, please!"

>>

>> So here's my plea to you. If you think it might be a Good Thing to  
>> have IDL's own PNG routines handle the reading and writing of user  
>> supplied metadata, please submit a Feature Request to  
>> support@harris.com to this effect.

>>

>> Many Hosannas will be said in your name for doing so...

> Hi Andrew

>

> Having experienced tediously slow read in of FITS-files/headers and  
> having spent some time optimizing these read-in routines i wonder,  
> whether you could increase your PNG read-in routine speed by up to 2  
> order of magnitudes by providing the structure templates for the  
> metadata instead of using many create\_struct() calls on runtime. But  
> obviously i can't tell without seeing the code.

>

> Markus

Hi Markus,

PNG Metadata is nothing like FITS. The metadata has to be read in chunks, byte by byte, and the image data has to be compressed/decompressed byte by byte on the fly, which is the big

consumer of time. There are no `create_struct()` calls involved.

Andrew

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