
Subject: Re: JPEG2000 compression

Posted by [Emmanuel Christophe](#) on Thu, 14 Apr 2005 14:41:14 GMT

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Roberto Monaco a i½crit :

> I have a question regarding JPEG2000:

>

> How do you control compression ratio when you save an image as JPEG2000
> using the IDL object?

>

> The following is curious: within a Photoshop plug-in I use to save JPEG2000
> images, "they" define a compression factor. If I save the same image with
> different compressions ratios (e.g. 1:1, 1:10, 1:40) I obviously get big
> differences in the resulting file sizes. But if you read these files into
> IDL objects, surprisingly all properties are exactly the same!! Same
> dimensions for the data array, same bit_depth, same number of layers, etc.
> ?? This does not make any sense to me ... I must be overlooking at something
> stupid?

>

> Thanks for any tips.

> Roberto

>

>

I got this problem before, I only manage to get lossless jpeg2000
compression directly with IDL. I went around this problem by calling one
free implementation of jpeg2000 (using spawn): jasper

;creating source j2k file from idl data (image)

```
im_jpeg=obj_new('IDLffJPEG2000',filenamesrc,/write)
```

```
im_jpeg->SetProperty, bit_depth=16, signed=1, reversible=1
```

```
im_jpeg->SetData, image
```

```
OBJ_DESTROY, im_jpeg
```

;compressing file

```
spawn,'jasper -f '+filenamesrc+'-F '+filamenew+' -T jpc -O rate=0.2'
```

;reopening in IDL

```
im_jpeg2=obj_new('IDLffJPEG2000',filamenew,/read)
```

```
imnew=intarr(ns,nl)
```

```
imnew=im_jpeg2->GetData()
```

Hope this help,
Emmanuel
