
Subject: Re: write JPEG

Posted by [davidf](#) on Mon, 15 Jan 2001 15:10:58 GMT

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Michael Prinzler (michael.prinzler@tu-cottbus.de) writes:

> How can I specify the resolution 72dpi (default) to 300 dpi while storing an
> image with write_jpeg?

You can't specify the resolution when you write the file,
but you can save the size of the image you write. You
don't say what kind of display you are using, so I'll
use as an example TVREAD from my web page, which doesn't
care.

<http://www.dfanning.com/programs/tvread.pro>

Read the image from the display window:

```
image = TVREAD()
```

I presume this is a 24-bit image (i.e., that you are using
a 24-bit graphics card), but if it is not, you have to make
it one, since this is what WRITE_JPEG expects. (If you need
help, there are articles on my web page that should you how
to do this. For example: <http://www.dfanning.com/tips/jpeg.html>.)

So the factors we are looking for, assuming a pixel
interleaved image, are:

```
s = Size(image, /Dimensions)
newx = Round(300.0 * s[1] / 72)
newy = Round(300.0 * s[2] / 72)
```

So,

```
highResImage = Congrid(image, 3, newx, newy, /Interp)
```

And then write it:

```
Write_JPEG, 'myfile.jpg', highResImage, True=1
```

> and (if you are veeery kind) :
> what means "No application/appld is present for use with LIVE_EXPORT."?
> This error message appears, if I start this (test)-code :
> pro live
> device,retain=2,decomposed=0
> window,1, Title = 'test'

```
> a=dist(512)
> tv,a
> live_export,Filename='test'
> wdelete,1
> end
```

Don't know. I don't use the Live Tools. And I can't make out from the program exactly what it is you are trying to do. :-(

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: write JPEG

Posted by [davidf](#) on Mon, 15 Jan 2001 15:31:17 GMT

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David Fanning (davidf@dfanning.com) writes:

```
> You can't specify the resolution when you write the file,
> but you can save the size of the image you write.
```

I don't know what the heck *this* means. After a total collapse in the third set of my morning tennis, I think I was still winded. :-(

It should have read something like this:

You can't specify the resolution when you write the file, but you can specify the resolution of the image by changing its size before you write to the file.

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Subject: Re: write JPEG

Posted by [hahn](#) on Tue, 16 Jan 2001 10:19:29 GMT

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davidf@dfanning.com (David Fanning) wrote:

> It should have read something like this:

>

> You can't specify the resolution when you write the file,
> but you can specify the resolution of the image by
> changing its size before you write to the file.

Hm, actually this may not help. All that write_jped does is to encode the bitmap and write it into the file. A JFIF file has a header that contains the size of the picture when it will be printed by some other software.

If I cannot set the size of the encoded picture I will need some more steps later to specify it. Even worse, some software will resample the bitmap before printing and I have either supply parameters for this step or - worse - I can't control it.

For a test I did

```
write_jpeg, "c:\temp\look.jpg", Bytscl(Dist(100))
```

and got a tiny file. Opening it with PaintShop Pro it tells me the file has 72 DPI and a size of 100/72 inches.

Unfortunately there are more bitmap formats supported by IDL that do not allow to pass the picture size for printing. However, write_bmp does: Keyword header_define

It would be a great improvement to add this feature to the other write_<your flavour> procedures.

Norbert
