
Subject: Re: tiff to eps
Posted by [Jo Klein](#) on Thu, 26 Apr 2007 17:28:03 GMT
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Hi Florian,
Postscript isn't a good format for raster data. It only has limited support for data compression. In Level 2, LZW compression can be used, but this is not implemented by many converters (due to now obsolete patent issues, amongst other reasons). Thus, file size will usually increase significantly when you convert from lossy formats, such as jpg. You can try free converters, such as imconv and convert, to see if they produce smaller PS files, I'm not sure if any of those support compression. Hope this helps,
Jo

Subject: Re: tiff to eps
Posted by [JD Smith](#) on Thu, 26 Apr 2007 17:31:40 GMT
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On Thu, 26 Apr 2007 09:56:11 -0700, ebertf wrote:

> Hi,
> is there a simple way to convert a tiff or Jpg Picture into encapsuled
> postscript using IDL without blowing up the size (1MB -> 20 MB That
> usually happens when using Corel Draw). I want to include the
> postscript into Latex Code. (For example a fotograph.)

The problem is most conversion tools put raw uncompressed data in the postscript file, which is a big waste (but was the only way to do it in PS level 1). Others are better, e.g. tiff2ps from the libtiff library, or imgtops. Arxiv.org gives some recommendations for avoiding the "bloat":

<http://arxiv.org/help/bitmap/software#imgtops>

I believe Level 2 postscript can wrap compressed JPEG data directly.

<http://imgtops.sourceforge.net/>

has more info.

JD

Subject: Re: tiff to eps
Posted by [Foldy Lajos](#) on Thu, 26 Apr 2007 17:49:51 GMT

On Thu, 26 Apr 2007, ebertf@gmx.de wrote:

> Hi,
> is there a simple way to convert a tiff or Jpg Picture into encapsuled
> postscript using IDL without blowing up the size (1MB -> 20 MB That
> usually happens when using Corel Draw). I want to include the
> postscript into Latex Code. (For example a fotograph.)
> Thanks for ideas!
> Regards
> Florian
>

You can use pdflatex, which can include JPEG images natively.

regards,
lajos

Subject: Re: tiff to eps

Posted by [David Fanning](#) on Thu, 26 Apr 2007 18:17:37 GMT

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ebertf@gmx.de writes:

> is there a simple way to convert a tiff or Jpg Picture into encapsuled
> postscript using IDL without blowing up the size (1MB -> 20 MB That
> usually happens when using Corel Draw). I want to include the
> postscript into Latex Code. (For example a fotograph.)

I would guess it depends entirely on how big you want
the PostScript image to be. Why don't you try it and
see? It is only a couple of commands:

```
Read_JPEG, filename, image
Set_Plot, 'PS'
Device, /color, bits=8, /encap, xsize=5, ysize=3.5, /inches
TVImge, image
Device, /Close
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: tiff to eps
Posted by [mchinand](#) on Thu, 26 Apr 2007 18:55:23 GMT
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In article <Pine.LNX.4.64.0704261944020.5885@bifur.rmki.kfki.hu>,

>
> On Thu, 26 Apr 2007, ebertf@gmx.de wrote:
>
>> Hi,
>> is there a simple way to convert a tiff or Jpg Picture into encapsuled
>> postscript using IDL without blowing up the size (1MB -> 20 MB That
>> usually happens when using Corel Draw). I want to include the
>> postscript into Latex Code. (For example a fotograph.)
>> Thanks for ideas!
>> Regards
>> Florian
>>
>
> You can use pdflatex, which can include JPEG images natively.
>

There's also jpeg2ps which just wraps the jpeg image data w/ the necessary Postscript without uncompressing the image.

<http://www.pdflib.com/download/free-software/jpeg2ps/>

--
Michael Chinander
m-chinander@uchicago.edu
Department of Radiology
University of Chicago

Subject: Re: tiff to eps
Posted by [mchinand](#) on Thu, 26 Apr 2007 19:14:05 GMT
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In article <MPG.209ab4667a64d0a0989f62@news.frii.com>,
David Fanning <news@dfanning.com> wrote:
> David Fanning writes:
>
>> I would guess it depends entirely on how big you want
>> the PostScript image to be. Why don't you try it and

```
>> see? It is only a couple of commands:
>>
>> Read_JPEG, filename, image
>> Set_Plot, 'PS'
>> Device, /color, bits=8, /encap, xsize=5, ysize=3.5, /inches
>> TVImge, image
>> Device, /Close
>
> Well, lots of good non-IDL solutions. But in my little
> test, using the rose.jpg file from the IDL distribution.
> I got a file that weighed in at a hefty 204 KBytes. :-)
>
```

Considering that rose.jpg is only 5756 bytes, that's quite an increase.

```
prompt> ls -l rose.jpg
-rw-r--r-- 1 xfs users 5756 Jun 29 2005 rose.jpg
```

Subject: Re: tiff to eps
Posted by [mchinand](#) on Thu, 26 Apr 2007 19:19:33 GMT
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In article <1S6Yh.6\$25.138@news.uchicago.edu>,
Mike Chinander <mchinand@midway.uchicago.edu> wrote:
> In article <MPG.209ab4667a64d0a0989f62@news.frii.com>,
> David Fanning <news@dfanning.com> wrote:
>> David Fanning writes:
>>
>>> I would guess it depends entirely on how big you want
>>> the PostScript image to be. Why don't you try it and
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>>
>
> Considering that rose.jpg is only 5756 bytes, that's quite an increase.
>
> prompt> ls -l rose.jpg
> -rw-r--r-- 1 xfs users 5756 Jun 29 2005 rose.jpg

Forgot to include the comparison to using jpeg2ps

```
prompt> jpeg2ps /usr/local/packages/rsi/idl_6.2_i586/examples/data/rose.jpg > rose.eps
Note on file '/usr/local/packages/rsi/idl_6.2_i586/examples/data/rose.jpg': 227x149 pixel, 3 color
components
```

```
prompt> ls -l rose.eps
-rw-r--r-- 1 user group 8272 Apr 26 14:18 rose.eps
```

Only 8272 bytes.

--Mike

Subject: Re: tiff to eps
Posted by [David Fanning](#) on Thu, 26 Apr 2007 20:07:23 GMT
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David Fanning writes:

```
> I would guess it depends entirely on how big you want
> the PostScript image to be. Why don't you try it and
> see? It is only a couple of commands:
>
> Read_JPEG, filename, image
> Set_Plot, 'PS'
> Device, /color, bits=8, /encap, xsize=5, ysize=3.5, /inches
> TVImge, image
> Device, /Close
```

Well, lots of good non-IDL solutions. But in my little test, using the rose.jpg file from the IDL distribution. I got a file that weighed in at a hefty 204 KBytes. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: tiff to eps
Posted by [Carsten Lechte](#) on Fri, 27 Apr 2007 14:23:29 GMT

Mike Chinander wrote:

```
> prompt> ls -l rose.eps  
> -rw-r--r-- 1 user group 8272 Apr 26 14:18 rose.eps  
>  
> Only 8272 bytes.
```

And that is mostly caused by the overhead of coding binary data into printable characters.

chl
