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Subject: Re: Complicated Latex typesetting for IDL legend  
Posted by [Timm Weitkamp](#) on Tue, 23 Nov 2010 15:19:02 GMT  
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On Nov 23, 2:44 pm, jimbo <james.a.gord...@googlemail.com> wrote:  
> I would like to include the following LaTeX command in the legend of a  
> plot in IDL...  
>  
>  $\widetilde{B^{ijk}_{0}}$   
>  
> however TeXtoIDL("...") and IDL 8's internal '\$...\$' system does not  
> support the  $\widetilde{\phantom{x}}$  command. Is there a way of including this  
> symbol into eg the TeXtoIDL lookup table, or of including the whole  
> character in another way (maybe I crop it as an image and manually  
> place it into the legend using TV - last resort)?  
>  
> I assume this sort of issue has come up before, but have not found an  
> obvious fix in this case.  
>  
> I have tried code such as...  
>  
> B\_tilde == '!3 !s \$B^{ijk}\_{0}\$ !r !u ~ !n'  
>  
> which gives a B with a tilde above, however the tilde is not stretched  
> to cover the superscript as well, and is not positioned high enough to  
> even sit well above the B let alone the whole symbol. I should add  
> that this is postscript output to a .esp plot  
>  
> Any ideas would be great  
>  
> Thanks

I doubt that this is possible using only IDL. Have you considered using psfrag?

Timm

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Subject: Re: Complicated Latex typesetting for IDL legend  
Posted by [pgrigis](#) on Tue, 23 Nov 2010 15:27:00 GMT  
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If you want anything more than basic stuff, do use psfrag.

That will allow you to put any LaTeX formula into your plot.

IDL own symbols are very limited.

Ciao,  
Paolo

On Nov 23, 10:19 am, Timm Weitkamp <weitk...@esrf.fr> wrote:

> On Nov 23, 2:44 pm, jimbo <james.a.gord...@gmail.com> wrote:

>

>

>

>> I would like to include the following LaTeX command in the legend of a  
>> plot in IDL...

>

>>  $\widetilde{B^{ijk}}_0$

>

>> however TeXtoIDL(...) and IDL 8's internal '\$...\$' system does not  
>> support the  $\widetilde{\phantom{x}}$  command. Is there a way of including this  
>> symbol into eg the TeXtoIDL lookup table, or of including the whole  
>> character in another way (maybe I crop it as an image and manually  
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>

>> Any ideas would be great

>

>> Thanks

>

> I doubt that this is possible using only IDL. Have you considered  
> using psfrag?

>

> Timm

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Subject: Re: Complicated Latex typesetting for IDL legend

Posted by [penteado](#) on Tue, 23 Nov 2010 15:48:34 GMT

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On Nov 23, 1:27 pm, Paolo <pgri...@gmail.com> wrote:

- > If you want anything more then basic stuff, do use psfrag.
- >
- > That will allow you to put any LaTeX formula into your plot.
- >
- > IDL own symbols are very limited.

I have for some time intended to make something similar to what mathurl (<http://mathurl.com/>) does. But so far never had the time to do it. The hard part would be handle the external dependency on LaTeX in a reasonably tolerable and platform-independent way. Maybe with JLaTeXMath through an IDL\_Java bridge.

Ideally the LaTeX output should be vectorial, not bitmap. But drawing the vectors might also be tricky, depending on how they are provided.

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Subject: Re: Complicated Latex typesetting for IDL ledgend  
Posted by [jimbo](#) on Tue, 23 Nov 2010 16:21:48 GMT  
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On Nov 23, 3:48 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

- > On Nov 23, 1:27 pm, Paolo <pgri...@gmail.com> wrote:
- >
- >> If you want anything more then basic stuff, do use psfrag.
- >
- >> That will allow you to put any LaTeX formula into your plot.
- >
- >> IDL own symbols are very limited.
- >
- > I have for some time intended to make something similar to what
- > mathurl (<http://mathurl.com/>) does. But so far never had the time to
- > do it. The hard part would be handle the external dependency on LaTeX
- > in a reasonably tolerable and platform-independent way. Maybe with
- > JLaTeXMath through an IDL\_Java bridge.
- >
- > Ideally the LaTeX output should be vectorial, not bitmap. But drawing
- > the vectors might also be tricky, depending on how they are provided.

Thank you,

PSFrag looks interesting - not a package I have come across, but seems to do the job. I think you are on to something with a mathurl type system - I would certainly rather write the whole string in Latex format and just include the output image as the title say, so the spacing etc. is correct. As you say however, scaling bitmaps is obviously less than ideal unless you can tie the latex fontsize to the charsize tag in IDL?

Again, thanks for the prompt replies

J

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