Subject: Re: union or overlap of two plots
Posted by kedmond on Tue, 22 Jul 2008 14:59:25 GMT
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Chris,

Thanks for the quick response. Your solution worked amazingly well....now I have to sit and figure out why! To make the min() function work, I had to set y1 and y2 equal to their transpose() since min() wants the data to be in vector form. Once I did that, your instructions work as stated.

Thanks again.

-Kazem

On Jul 22, 4:31 am, Spon <christoph.b...@gmail.com> wrote:
> On Jul 22, 3:00 am, kedmond <kedm...@gmail.com> wrote:
>
>> Hello,
>> I have two plots of data on the same axes. I need to figure out
>> the area of their overlap. I think defining the data as two polygons
>> and using polyfillv() would help, but I'm not sure about how to do
>> this. I was also considering finding all of the interceptions between
>> the two plots, and using tsum() to calculate the area of each
>> subsection of overlap. Anyways, if there's an easier way, I'd
>> appreciate it.
>
>> -kedmond
>
> How about something like this:
>
> plot, x, y1
> oplot, x, y2
>
> ymin = min([[y1], [y2]], dim=2)
> oplot, x, ymin, thick = 2
>
> auc = int_tabulated(x, ymin)
>
> Regards,
> Chris