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Subject: Fill intersection of two contours

Posted by [burkina](#) on Wed, 22 Aug 2007 15:06:23 GMT

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Hi,

I have a number of contours on the same plane. Given certain conditions (i.e. values for the levels), I am interested in the intersection of these contours, i.e. the region in my parameter space which satisfies all the conditions on all the contours.

While this is easy to identify visually, I cannot find a 'clean' way to fill this region in my IDL plot. The only thing I can think of is to produce a function in the same parameter space which is 1 where all the conditions are fulfilled and 0 elsewhere and then fill the contours of this function. But I'm not sure how actually the contour procedure works and it's likely that this region will not exactly coincide with the intersection of the other contours.

Do you know how to do that?

Note that the contours are not necessarily closed, because the parameter space is limited, so it may happen that the boundaries of the region to fill are represented in some parts by the axes themselves.

Thanks,

Stefano

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