Subject: Re: correlation question
Posted by Helder Marchetto on Wed, 04 Nov 2015 17:27:46 GMT
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Hi,
Sorry I didn't explain myself properly.
I'm looking for a IDL way to do this:

```
Similarity = fltarr(xs,us)
RefCurve = {array of n elements}
data = {array of xs,us,n elements}
for i=0,xs-1 do begin
  for j=0,ys-1 do begin
     Similarity = "correlation between reform(data[i,j,*]) and RefCurve"
  endfor
endfor
```

With correlation I mean a 1 if the two curves (arrays) are similar (e.g.two lines with slope 1), a zero (or -1) if the lines are perpendicular.

[Sorry, but I'm writing from a mobile device...]

By thresholding (e.g. at gt 0.9) the resulting Similarity image I can "see" where the evolution of the [xs,ys] slices in data resembles that of RefCurve.

Did I make myself clear? If not, I have to come up with a practical example... Sorry if my explanation is so poor.

Cheers, Helder