

---

Subject: Re: Point of intersection

Posted by [Bob\[3\]](#) on Wed, 30 Jul 2008 16:14:05 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On Jul 30, 11:46 am, kishore1...@gmail.com wrote:

> Hello,

>

> I hope this is simple question for experienced guys.

> How to find out perfect point of intersection of x value and

> corresponding y value.

> For example:

> x1=[0.1,0.2,0.6,0.7]

> x2=[0.5,0.4,0.5,0.3]

> y=[1,2,3,4]

> plot,x1,y,xran=[0.,0.8]

> oplot,x2,y

>

> In this, two plots are intersection at one point, how to find out that

> particular intersection x and y value.

>

> Thanking you,

>

> Kishore

The lines cross where  $(x1(i)-x2(i))$  changes sign.

ie. between the indices given by  $\text{MAX}(\text{WHERE}((x2-x1)>0))$  and  $\text{MIN}(\text{WHERE}((x2-x1)<0))$

The exact intersection can then be found by determining the intersection of the 2 straight lines defined by those points.

Bob.

---