Subject: Re: correct way to use INTERPOLATE function Posted by pgrigis on Fri, 21 Sep 2007 20:26:10 GMT

View Forum Message <> Reply to Message

```
Ryan. wrote:
```

- >> PLOT, Congrid(smallarray, N_Elements(largearray)), largearray
- >
- > If I do that I get the same result:
- > PLOT, CONGRID(smallarray, N_ELEMENTS(largearray), 1, 1) <- With our
- > without the INTERP keyword

>

- > I want to *stretch* the small array so that it has the same number of
- > elements as the large one so I can plot it and all the new points to
- > be interpolated linearly between each point. Evenly spaced points is
- > fine for my purposes.

For that purpose, you can also use INTERPOL (rather than INTERPOLATE). Here's an example:

```
x=findgen(6)/5
y=[0.,2,2,5,6,10]
;first data set
plot,x,y,psym=-6
x2=findgen(100)/100
z=interpol(y,x,x2)
;the z array is interpolated linearly from the point in y
oplot,x2,z,psym=-4
```

Is that waht you are trying to do?

Cheers, Paolo

PS: switching to google groups as it turns out newsgroup server are not supported at my new institution... at least the RSS feed can be shown in thunderbird in such a way as to look kind of similar as it should when using a real newsgroup server... but I am wondering whether there is a way of using a fixed size font in the google groups "post message" interface...

```
>
> Ryan.
```