
Subject: Re: How to calculate the abscissa values for the given vertical values

Posted by [Wout De Nolf](#) on Mon, 05 Oct 2009 13:10:04 GMT

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On Mon, 5 Oct 2009 01:56:20 -0700 (PDT), "duxiyu@gmail.com"

<duxiyu@gmail.com> wrote:

> Hi, all.

> I want to calculate the abscissa values for the given vertical values.

>

> For example,

> `x = findgen(1000)/1000*4*pi`

> `y = cos(x)`

> I want to get the abscissa values for $y=0$.

> For this example, the results should be $[\pi/2, 3\pi/2, 5\pi/2, 7\pi/2]$.

> $\pi/2$].

> But how can I get it by IDL codes?

>

> Best wishes,

> jdu

Just for this function:

```
print,(indgen(ceil(max(x)/!pi))+1)*!pi/2
```

What do you need exactly? You can always find the answer analytically
no?
