
Subject: Re: unwrap modulo 2pi

Posted by [Pavel A. Romashkin](#) on Wed, 07 Feb 2001 20:39:11 GMT

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I just don't see that you can do this at all. Modulo operator discards information about the number of multiples of B from A, leaving only the remainder of the division operation. For example, if:

```
c = [2., 4., 6., 1.71681, 3.71681, 5.71681]
```

```
b = 2*!PI
```

; Each of the following A will produce the given

; C through "C=A mod B" :

```
a=[2.,4.,6.,8.,10.,12.]
```

```
a=[2.,4.,6.,8.,10.,12.] + b
```

```
a=[2.,4.,6.,8.,10.,12.] +2*b
```

```
a=[2.,4.,6.,8.,10.,12.] & a[3:5] = a[3:5] + 3*b
```

Unless I am missing something, I see no way how a unique solution can be obtained from the *remainder of division* and *divisor*. But I studied arithmetics a long time ago :-)

Cheers,
Pavel

graham_wilson@my-deja.com wrote:

>

> My appologies for not being explicit enough...

>

> IDL> a=[2,4,6,8,10,12]

> IDL> a=[2.,4.,6.,8.,10.,12.]

> IDL> b=2*!PI

> IDL> c=a mod b

> IDL> print, c

> 2.00000 4.00000 6.00000 1.71681 3.71681 5.71681

>

> What I mean by 'unwrapping' is: Given I know 'c' and 'b' how do I

> explicitly find a?

>

> GW

>

> In article <3A817F92.1DBCDCCA@noaa.gov>,

> "Pavel A. Romashkin" <pavel.romashkin@noaa.gov> wrote:

>> I am sorry, but I am still a little behind here, please bear with me.

>> Must be the lack of coffe. What is the "unwrapping of the function

>> mod(x,y)" ? I might think of a solution if I knew what I am looking

> at.
>>
>> Cheers,
>> Pavel
>
> Sent via Deja.com
> <http://www.deja.com/>
