
Subject: Re: endless loop problem

Posted by [Wasit.Weather](#) on Mon, 07 Dec 2009 01:20:54 GMT

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On Dec 6, 5:52 pm, David Fanning <n...@dfanning.com> wrote:

> pp writes:

>

> .

>

>> L does not change because you are calculating the same thing over and
>> over again. L only depends on EC[0] and EC[1], and neither changes
>> when you go through the loop. So if L does not happen to be
>> <1.2840277, the loop will never end.

>

> And it is not likely that it will **ever** be 1.2840277!

>

> http://www.dfanning.com/math_tips/sky_is_falling.html

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I should have given more explanations on this. L changes over each iteration. There is no problem. I missed one letter, here is the corrected one.

```
;E1 = Unit vector, known
```

```
; Z is known matrix
```

```
REPEAT BEGIN
```

```
  EC = Z##E1
```

```
  L = sqrt(EC[0]+EC[1])
```

```
  E1 = EC/L
```

```
  print,L
```

```
;Keep going until nothing is moved.
```

```
ENDREP UNTIL L LT 1.2840277
```

I am struggling to find eigenvalues and eigenvectors manually, instead of IDL routines.

I think it might be a problem as David pointed out. But there should be a value less than or greater than that value, right?

Thanks
