
Subject: Re: Can I de-loop?

Posted by [eddie haskell](#) on Thu, 15 Jul 1999 07:00:00 GMT

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Bested yet again. Bob's answer seems to run about 50% faster than my solution for a large number of elements. Good answer Bob and thanks!!

David, you can keep your job. I could conceivably work FOR you but I don't think I would want to work AS you. You do way more for this community than any mortal person should do. (not that I want you to quit) :-)

Cheers,
eddie

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Subject: Re: Can I de-loop?

Posted by [davidf](#) on Thu, 15 Jul 1999 07:00:00 GMT

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Eddie Haskell (haskell@see.signature.edu) writes:

> You should check this thread later as I should point out that over 95%
> of my suggestions to this newsgroup do not end up helping the original
> question. Either my solution is too specific for the problem or someone
> else soon posts a better solution.

Oh, well. You should try putting this stuff on a web page. :-)

Cheers,

David

--

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

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Subject: Re: Can I de-loop?

Posted by [eddie haskell](#) on Thu, 15 Jul 1999 07:00:00 GMT

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I have a suggestion for the first of your quandries:

> a) I am adding a constant amount K to several elements N of array A.
> The elements Ni are not unique; if an Ni is repeated, I want to add it
> to A each time. For instance, given
>
> A = [0,1,2]
> N = [2,2,2]
> K = 4
>
> I want the result A = [0,1,14], not A = [0,1,6]

```
IDL> A[min(N):max(N)] = A[min(N):max(N)] + K*histogram(N)
```

```
IDL> print,A
```

```
0    1    14
```

This seems to be at least twice as fast as the loop with the time difference increasing as the number of elements in A and N increase, at least for the values I played around with (up to 100,000 elements).

You should check this thread later as I should point out that over 95% of my suggestions to this newsgroup do not end up helping the original question. Either my solution is too specific for the problem or someone else soon posts a better solution. I hope for the latter as I can also learn something that way.

Cheers,
eddie

```
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-----
```

Subject: Re: Can I de-loop?

Posted by [R.G. Stockwell](#) on Thu, 15 Jul 1999 07:00:00 GMT

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In article <7mje9s\$263\$1@nnrp1.deja.com>,
throop@colorado.edu wrote:>For instance, given

```
>  
> A = [0,1,2]  
> N = [2,2,2]  
> K = 4  
>  
> I want the result A = [0,1,14], not A = [0,1,6]
```

I'll take this one guys (using the non-gender-specific meaning!).
Woohoo! My first "use histogram" posting!

```
A = [0,1,2]  
N = [2,2,2]  
n = n(sort(n)) ; you may need this, not sure of your application  
K = 4
```

```
print,a  
a = a + k * histogram(n, binsize=1, min=0, max=n_elements(a)-1)  
print,a
```

This may not be general enough for your application, but
you get the idea. Always use histogram if possible.

Cheers,
bob

Sent via Deja.com <http://www.deja.com/>
Share what you know. Learn what you don't.
