
Subject: another request for help with getting rid of for loops...

Posted by [davede10](#) on Tue, 15 Aug 2006 13:53:36 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi everyone,

i read alot about eliminating for loops in idl , and yet i can't get rid of this simple loop .

here is what i'm trying to do (multiply each plane in a data cube by a number):

any idea?

```
A=fltarr(100,100,10) ;my data cube
```

```
A(*,*,*)=1.
```

```
b=findgen(10) ;just a culumn of numbers
```

```
c=a
```

```
for i=0,9 do c(*,*,i)=A(*,*,i)*B(i)
```

thanks,

david

Subject: Re: another request for help with getting rid of for loops...

Posted by [Marshall Perrin](#) on Sat, 19 Aug 2006 20:51:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

davede10@gmail.com <davede10@gmail.com> wrote:

> Hi everyone,

> i read alot about eliminating for loops in idl , and yet i can't get

> rid of this simple loop .

> here is what i'm trying to do (multiply each plane in a data cube by a number):

> any idea?

>

> A=fltarr(100,100,10) ;my data cube

> A(*,*,*)=1.

> b=findgen(10) ;just a culumn of numbers

> c=a

> for i=0,9 do c(*,*,i)=A(*,*,i)*B(i)

Another trick you might want to know about is the zero subscript one:

```
for i=0,9 do c[0,0,i]=A[*,* ,i]*B[i]
```

Doesn't look like it should work, does it? But it does, and is often faster than the version with *'s on both sides, due to the way IDL internally handles building array index lists.

- Marshall
