
Subject: Re: How to change the increment of FOR loop?
Posted by [Allan Whiteford](#) on Thu, 12 Mar 2009 12:24:39 GMT
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Filip Lajos wrote:

```
>
> On Wed, 11 Mar 2009, Hu wrote:
>
>> Hi, there
>> I got a question relating to the variational increment of FOR
>> Statement. I used the code like this:
>> ;; begin
>> increment =20
>> FOR j = 0, N-1, increment DO BEGIN
>>   IF a gt 0 THEN BEGIN
>>     ;.....
>>     increment=10
>>   ENDIF ELSE BEGIN
>>     ;.....
>>     increment=12
>>   ENDELSE
>> ENDFOR
>> ;; end
>>
>> But the increment have not changed according to IF... ELSE ...
>> statement..
>> What I want is to change the increment according to different
>> conditions. that is, if variable a is greater than 0, the increment of
>> the FOR loop will be 10 , not its default value 20.....
>>
>> Is there any solution to this problem?
>
>
> increment is evaluated only once, before the loop starts (and it is
> copied to a temporary variable you can not reach). You have to create a
> loop manually:
>
> j=0
> increment=20
> while 1 do begin
>
>   IF a gt 0 THEN BEGIN
>     ;.....
>     increment=10
>   ENDIF ELSE BEGIN
>     ;.....
>     increment=12
>   ENDELSE
```

```
>  
> j=j+increment  
> if j ge n then break  
>  
> endwhile  
>  
>  
> regards,  
> lajos
```

Although probably something like:

```
j=0  
increment=20  
while ((j+=increment) lt n) do begin
```

```
    IF a gt 0 THEN BEGIN  
        ;.....  
        increment=10  
    ENDIF ELSE BEGIN  
        ;.....  
        increment=12  
    ENDELSE
```

```
endwhile
```

is easier to recognise as a "loop" from the point of view of understanding the code later for maintenance.

Thanks,

Allan
