Subject: Re: How to change the increment of FOR loop?
Posted by Foldy Lajos on Fri, 13 Mar 2009 10:31:00 GMT

View Forum Message <> Reply to Message

On Thu, 12 Mar 2009, Allan Whiteford wrote:

> FÖLDY 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.
```

It is not the same loop :-) j starts from increment insted of 0. In this
form you should use j=-increment.

regards,
lajos