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Subject: Re: CONTINUE from function within loop  
Posted by [spluque](#) on Wed, 13 Nov 2013 15:21:37 GMT  
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On Tuesday, November 12, 2013 11:40:34 PM UTC-6, Craig Markwardt wrote:

> On Wednesday, November 13, 2013 12:19:43 AM UTC-5, Sebastian Luque wrote:

>

>> Hi,

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>

>> I read the CATCH and ON\_ERROR help pages, but I can't see how to handle the following situation. Say we have a FOR loop where a function is called for each iteration:

>

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>

>> FOR i=0, 10 DO BEGIN

>

>>

>

>>     print, myfun(i)

>

>>

>

>> ENDFOR

>

>>

>

>>

>

>>

>

>> I would like MYFUN to continue with the next iteration if it runs into an error. Naively, this should show what I'm looking for:

>

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```

>
>> FUNCTION MYFUN, X
>
>>   [BODY]
>
>>   IF [condition] THEN BEGIN
>
>>       message, 'A problem with X', /informational
>
>>       CONTINUE
>
>>   ENDIF
>
>>   [REST IF OK]
>
>>   RETURN, [something]
>
>> END
>
>>
>
>> But, of course, CONTINUE only works within an FOR/ENDFOR block, not this way. How
does one accomplish this?
>
>
>
> You're right, because CONTINUE only works within the same lexical scope.
>
>
>
> You could do this by putting a CATCH within your main loop, which will catch your MESSAGE
within MYFUN. That's a little dangerous because it will catch *every* error though.
>
>
>
> A better practice is to return a separate status variable MYFUN indicating success or failure,
and have the main loop check the variable and decide what to do.
>
>
>
> Something like this...
>
> function myfun, x, status=status
>
>   status = -1
>
>   ;; Failure case
>
>

```

```
> if [condition] then return, !values,d_nan
>
> [ rest of MYFUN ]
>
> ;; Success case
>
> status = 1
>
> return, [something]
>
> end
>
>
>
> for i = 0, 10 do begin
>
>   y = myfun(x, status=status)
>
>   if status LT 0 then continue
>
>   print, y
>
> endfor
>
```

This is a very clean solution!

Thanks,  
Seb

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