
Subject: Convert Function to Procedure

Posted by [dmfl0590](#) on Tue, 17 May 2016 16:33:50 GMT

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Hi

I have the following function:

```
FUNCTION CREATE_NEW, Im1, Im2, B, step=step, itmax=itmax
Bnew = B
ffd_precompute, Im1, size(REFORM(B[0,*,*]), /dimensions)
ffd_grad_precompute, size(REFORM(B[0,*,*]), /dimensions)
for it=1L, itmax do begin
    FIRST_FUN, Im1, Im2, Bnew, G=G
    Bnew = SECOND_FUN(Im1, Im2, Bnew, G, conv=converged, step=step)
    if converged then return, Bnew
endfor
return, Bnew
END
```

Then I changed this Function to Procedure like this:

```
PRO CREATE_NEW, Im1, Im2, B, step=step, itmax=itmax
Breg = B
ffd_precompute, Im1, size(REFORM(B[0,*,*]), /dimensions)
ffd_grad_precompute, size(REFORM(B[0,*,*]), /dimensions)
for it=1L, itmax do begin
    FIRST_FUN, Im1, Im2, Bnew, G=G
    Bnew = SECOND_FUN(Im1, Im2, Bnew, G, conv=converged, step=step)
    if converged then begin
        B=Bnew
        return
    endif
endfor
B=Bnew
END
```

I don't get the same results for some reason. I thought that I can put the output variables in the calling statement. The output variable in this case is the B. However, I don't get the output variable. Can anyone help with this?
