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Subject: resolve\_routine and the IDL search path  
Posted by [robert.dimeo](#) on Fri, 27 Jun 2003 12:52:12 GMT  
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Hi,

I am having (what I believe are) path resolution difficulties. In a runtime widget program I wish to have the user type in their own .PRO file, save it, and press a button to compile it and run it. In a fitting application I am working on I want the user to be able to write their own complex fitting functions in IDL syntax that can be compiled after the runtime application has been launched. When I run this application in the IDLDE there are no problems because the new .PRO file can be found and can be compiled with RESOLVE\_ROUTINE. I can then run the program by using CALL\_PROCEDURE. However when I run the program as a runtime application from a .SAV file I always get an error message stating that states "ATTEMPT TO CALL UNDEFINED PROCEDURE/FUNCTION: <.pro filename>".

I have distilled out the essential features of the code that generates this problem in the short example below. Any thoughts would be greatly appreciated!

Thanks,

Rob

Save the following file as DUMB\_PLOT.PRO into a directory c:\my\_dir\  
This is the file to be compiled at runtime upon pressing a button.

```
.....  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
pro dumb_plot  
plot,findgen(10),psym = 4  
end  
.....  
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

Save this main widget application as TEST\_COMPILE.PRO. This is the procedure that gets stored in a .SAV file and is run as a runtime application.

```
pro test_compile_event,event  
uname = widget_info(event.id,/uname)  
case uname of  
'QUIT': widget_control,event.top,/destroy  
'PLOT': begin  
    catch,theError
```

```

if theError ne 0 then begin
  catch,/cancel
  ok = dialog_message(!error_state.msg,/error)
  return
endif
this_file = 'dumb_plot'
strout = 'Valid file: '+string(file_test(this_file+'.pro'))
void = dialog_message(dialog_parent = event.top, $
  strout,/info)
resolve_routine,this_file+'.pro'
call_procedure,this_file
end
else:
endcase
end
.....
pro test_compile
; The location of this file is in the directory shown below.
; Note also that the IDL procedure called DUMB_PLOT.PRO is located
; in this directory too. When I compile and save the file as a .SAV
; file I store it in this directory as TEST_COMPILE.SAV.
dir = 'c:\my_dir'
cd,dir
!path = !path + path_sep(/search_path)+dir
tlb = widget_base(/col,title = 'TEST APPLICATION',/tlb_frame_attr)
void = widget_button(tlb,value = 'QUIT',uname = 'QUIT')
void = widget_button(tlb,value = 'COMPILE DUMB_PLOT.PRO AND RUN', $
  uname = 'PLOT')
widget_control,tlb,/realize
xmanager,'test_compile',tlb,/no_block
end

```

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