Subject: Re: compiling many routines at once
Posted by Robbie on Fri, 01 Jun 2007 22:42:34 GMT
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The way that you compile in IDL is ultimately about personal preference and coding style. Things like 'resolve_all' will pick up most things, but will miss objects and functions called using execute/ call_procedure/call_function

You can simply run your program and pray that you covered every line of code. Resolve all and then save, /ROUTINE.

A project is toublesome if you are importing a large amount of external code. I have had difficulties when I wanted to 'merge' or update an external project. Particularly when there are more than just .pro files.

My personal favourite is to compile all .pro files within a given pathspec. After all, this is the same method that IDL uses to locate routines. Why not use it to compile them as well? I prefer this method because I can incorporate it into my WIX (Windows Installer XML) build scripts.

Robbie

Example usage:
nmacomplile, 'itools.sav',['lib/itools','lib/igamma.pro'], ROOT_DIR=!
DIR

```
pro nmacompile, target, source, ROOT_DIR=root_dir,
ITRESOLVE=itresolve, NO_SAVE=no_save

if (keyword_set(itresolve)) then ITRESOLVE

ThisRoutine = Routine_Info('nmacompile', /Source)

if (n_elements(root_dir) eq 0) then $

 root_dir = FILE_DIRNAME(FILE_DIRNAME(FILE_DIRNAME(ThisRoutine.path)))

for i=0,n_elements(source)-1 do begin

 path = FILEPATH(source[i],ROOT_DIR=root_dir)

 if (file_test(path,/DIRECTORY)) then $

  programs = FILE_BASENAME(FILE_SEARCH(path, "*.pro"),'.pro') $
```

```
 else $
  programs = FILE_BASENAME(path,'.pro')
 help, CALLS=calls
 for j=0,n_elements(calls)-1 do calls[j] = (strsplit(calls[j], ' ',/
EXTRACT))[0]
 for j=0,n_elements(programs) -1 do begin
  inds = where(strupcase(programs[j]) eq calls,count)
  if (count gt 0) then continue


  catch, errorvalue
  if (errorvalue ne 0) then begin
   catch, /CANCEL
  endif else begin
   RESOLVE_ROUTINE, programs[j], /EITHER
  endelse
  catch, /cancel
 endfor
endfor
RESOLVE_ALL, /CONTINUE_ON_ERROR
catch, /cancel
if (~ keyword_set(no_save)) then $
 save, FILENAME=target, /ROUTINES
end
```