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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 troublesome 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:

```
nmacompile, '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

```

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