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Subject: Re: Nice ways to compile  
Posted by [JD Smith](#) on Tue, 12 Apr 2005 01:18:58 GMT  
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On Mon, 11 Apr 2005 13:42:43 -0500, Michael A. Miller wrote:

> I make save files by creating an idl script that compiles all the  
> codes that my application uses (or at least those that I can  
> remember!). I include resolve\_all and resolve\_all, /class for  
> all the classes that I need. Then I do a save and exit. So  
> making a save set is just a command like "idl make\_save\_file.pro"  
> (see below). This has all the elegance of makefile that is  
> maintained by hand, which is to say, very little. I've  
> considered trying to make a preprocessor that creates header  
> files so I can use makedepend. If incremental compilation were  
> possible (that is, loading compiled code, instead of having to  
> compile in order to make code available), that would be useful,  
> but with IDL, it doesn't seem necessary.  
>  
> Usually I create my make\_save\_file.pro's from listings of all the  
> \*.pro files in the directories where I know I've got code  
> components for a given application. That makes save files with  
> cruft that is never used, but it hasn't (yet) left me with  
> anything missing.

When creating a SAV file, I go through and compile all my code one procedure at a time, as below. First I regularize the path, then I go through all ".pro" files, pruning any rejects, and compile them. Only then do I call RESOLVE\_ALL, and write out the binary. Since path caching tends to mess up dynamic path changes, I tend to do this in a new IDL session.

Does anyone else get TRNLOG and SETLOG errors when RESOLVE\_ALL runs? As near as I can tell, these are some obsolete VMS routines that seem to sneak in somehow (through NasaLIB, I believe).

JD

```
pro compile_cubism
  FORWARD_FUNCTION TRNLOG
  @cubism_dir
  ps=path_sep()
  bindir=filepath(ROOT=cubism_dir,'bin')
  if file_test(filepath(ROOT=bindir,'cubism_vm.sav')) then $
    file_delete,filepath(ROOT=bindir,'cubism_vm.sav')

;; Go one level up and compile everything
sourcepath=cubism_dir
```

```

sourcepath=strmid(sourcepath,0,strpos(sourcepath,ps,/REVERSE_SEARCH))

;; Normalize path
path=strsplit(!PATH,':',/EXTRACT)
wh=where((sp=strpos(path,ps+'nasa',/REVERSE_SEARCH)) ne -1)
nasa=strmid(path[wh[0]],0,sp[wh[0]]+5)
!PATH=expand_path('<IDL_DEFAULT>'+":"+sourcepath+'+'+nasa)

files=file_search(sourcepath,'*.pro')
skip_files=['cubism_dir','cubism_version','compile_cubism', $
            ps+'scraps'+ps,'CVS'+ps]
resolve_routine,'XManager',/COMPILE_FULL_FILE
skip=0
for i=0,n_elements(files)-1 do begin
    for j=0,n_elements(skip_files)-1 do begin
        if strpos(files[i],skip_files[j]) ne -1 then begin
            print,'Skipping '+files[i]
            skip=1
            break
        endif
    endfor
    if skip then begin
        skip=0
        continue
    endif
    print,'Compiling '+files[i]
    routine=strmid(files[i],0,strpos(files[i],".pro",/REVERSE_SEARCH))
    routine=strmid(routine,strpos(files[i],ps,/REVERSE_SEARCH)+1 )
    resolve_routine,routine,/EITHER,/NO_RECOMPILE,/COMPILE_FULL_FILE
endfor
resolve_all,/CONTINUE_ON_ERROR
save,/ROUTINES,FILENAME=filepath(ROOT=bindir,'cubism_vm.sav' )
end

```

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