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Subject: Re: Need advice on building a project  
Posted by [Robert Barnett](#) on Fri, 02 Jul 2004 03:21:31 GMT  
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For my first major project using IDL, I used version 5.4 and the idlde.  
I'm about to move onto a second project and I think that even idlde for  
version 6.0 is not terribly useful.

I want to know if anyone has tried this before:

Today I quickly wrote up a (perl) script that allows one to specify the  
build order in a heirarchical fashion.

Each directory contains a BuildOrder file which indicates what programs  
need to be built but also can contain dependancies on other BuildOrder  
files.

The aim of this is to package my programs so that any given group of  
programs can be compiled and tested as indepenantly as possible. Also a  
package (including it's build order) can be imported and exported  
without too much trouble.

I've only written a very simple script and there are no tools or  
documentation. I have only attached the code so that you might get some  
idea of what I'm getting at. Please do not expect it to actually work  
for you.

However, I'm sure that others must have explored similar methods for  
doing this. Does anyone know of someone who might have done this already?

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nrb  
Robbie Barnett  
@  
Research Assistant  
wsahs  
Nuclear Medicine & Ultrasound  
nsw  
Westmead Hospital  
gov  
Sydney Australia  
au  
+61 2 9845 7223

#!/usr/bin/perl

```

$debug = 0;
$idlexec = 'idl';
$filename = 'BuildOrder';

$r_commands = [];
$pwd = $ENV{"PWD"};
resolveOrder($r_commands,$filename,$pwd/");
$debug && print join("\n",@$r_commands);

$startup = $ENV{"IDL_STARTUP"};
if (defined($startup)) {
  open(STARTUP,">$startup");
  print STARTUP join("\n",@$r_commands) . "\n";
  close(STARTUP);
}

$savefile = $ARGV[0];
if (defined($savefile)) {
  open(IDL,'|' . $idlexec);
  print IDL join("\n",@$r_commands) . "\n";
  print IDL "SAVE, FILENAME='$savefile\n";
  print IDL "EXIT\n";
  close(IDL);
}

sub resolveOrder {
  my ($r_commands,$filename,$directory) = @_ ;
  if (-f $filename) {
    $debug && print "Examining $filename\n";
    open(ORDER,$filename);
    my @lines = (<ORDER>);
    close(ORDER);
    $debug && print "$filename has " . scalar(@lines) . " lines\n";
    foreach $line (@lines) {
      $line =~ s/\s+$/;
      $line = $line;
      if (-f $directory . $line) {
        push(@$r_commands,".COMPILE $line");
      }
    }
  }
  foreach $line (@lines) {
    $line =~ s/\s+$/;
    $line = $line;
    if (-d $directory . $line) {
      $debug && print "Searching directory $line\n";
      $filename = $line . 'BuildOrder';
      if (-f $directory . $filename) {
        $debug && print "Found Build Order $directory$filename\n";
      }
    }
  }
}

```

