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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#! /usr/bin/perl

```
debug = 0;
$idlexec = 'idl':
$filename = 'BuildOrder';
$r_commands = [];
pwd = PV{"PWD"};
resolveOrder($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 = $line;
 if (-f $directory . $line) {
  push(@$r_commands,".COMPILE $line");
 }
 foreach $line (@lines) {
 $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";
```

```
push(@$r_commands,"CD, '$directory$line'");
   resolveOrder($r_commands,$directory.$filename,$directory.$line);
#! /bin/sh
\rm BuildOrder
Is *pro > BuildOrder
Is -p | grep / >> BuildOrder
File Attachments
1) ResolveOrder.pl, downloaded 87 times 2) CreateOrder.sh, downloaded 82 times
```

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