

source_dirs doesn't work in .gpr script

[Ask Question](#)

- ▲
1
▼
★
- I've inherited an Ada/C++ project and I'm trying to use gprbuild to automate the build process (which was previously done with a set of about 12 .bat files). I'm totally new to Ada and gprbuild, but have actually made pretty good progress. I can compile the .exe's that I need, but not the library. I am not at liberty to completely share the .gpr file, but the relevant parts look like this:

```
[snip]
for Source_Dirs use (
    "c_plus_plus_files",
    "ada_files",
    "..\another_project\some_other_ada_files",
    "..\another_project\even_more_ada_files"
);

[snip]
for Source_Files use (
    "my_ada_file.ads",
    "another_ada_file.ads",
    "one_more_ada_file.adb",
    "c_plus_plus_file.cpp"
);
[snip]
```

When I run "gprbuild -P my_project.gpr" it in turn runs "gcc -c gnat5 one_more_ada_file.adb" and complains that it cannot find a certain file that one_more_ada_file.adb depends on. The dependency is in ..\another_project\even_more_ada_files, so I would expect it to be found. But if I copy the dependency into the same folder as one_more_ada_file.adb, the error goes away.

Because of how the VCS is setup and how we're sharing code between two projects, I'd much rather figure out what's wrong with how I'm using "for source_dirs use" than to keep

please let me know.

Update: It appears that the specific problem isn't that `source_dirs` isn't doing anything at all, but that it doesn't handle having two source dirs where `.ads` files in one dir depend on `.ads` files in the other. That is, even within my "other" project above, an `.ads` file in `some_other_ada_files` that depends on an `.ads` file in `even_more_ada_files` doesn't get compiled with the `gcc -c -gnat05` command when I run `gprbuild` (error: the file in `even_more_ada_files` not found), but it does get compiled if I run the `gcc` command by hand (or in a `.bat` script) with two `-I` flags, one for each directory.

ada

gnat

edited Oct 26 '12 at 15:05

asked Oct 25 '12 at 17:21



PlexLuthor

388 2 6 16

Since there also C files in your `gpr` project, you need to add `for Languages use ("Ada", "C");` statement before specifying source folders. In addition, you may try to use forward slash instead of the backward one. – [NeoSer](#) Feb 14 '17 at 19:17

1 Answer



2

When dealing with multiple projects, you should normally create a `.gpr`-file for each project, and let your projects depend on the other projects as needed.

Thus:

```
project another_project is
  for Source_Dirs use
    ("some_other_ada_files",
     "even_more_ada_files");
end another_project;
```

```
with "..\another_project\another_pi  
  
project The_Project is  
  for Source_Dirs use  
    ("c_plus_plus_files",  
     "ada_files");  
end The_Project;
```

answered Oct 25 '12 at 18:38



[egilhh](#)

3,592 1 10 17

Thanks, that seems to have done the trick. I'm now getting a lot of warnings I don't understand, but no errors and it makes the library file. I'll know tomorrow whether the library has all the functionality it's supposed to, but my simple test of it works. Thanks again. – [PlexLuthor](#) Oct 25 '12 at 21:33

Upon closer inspection, that didn't actually work. It linked against old .o/.ali files, and when those are removed, it fails. It appears that the problem is that my_ada_file.ads depends on another_ada_file.ads, and those two files aren't in the same directory. Does that make sense, that dependencies have to be in the same directory, even if both directories are in source_dirs? – [PlexLuthor](#) Oct 26 '12 at 14:59

