Installing QGRAF in the Windows OS

In this tutorial, a specific Fortran compiler (FTN95) is considered and the suggested procedure was tested in both the Windows Vista and Windows 7 OS. The goal is to compile and link the Fortran code file 'qgraf-3.1.3.f' (or the most recent version of this code [1]).

Installing FTN95

- Download the *Personal Edition* of the FTN95 compiler from `http://www.silverfrost.com/32/ftn95/ftn95_personal_edition.aspx`

- Follow the installation steps until completion

- In order for the Windows terminal to recognize the compiler by name, it is convenient to add the installation directory, which is to say the folder that contains the executable file 'ftn95.exe' – e.g. 'C:/Program Files/Silverfrost/ FTN95' – to the system's environment variables. Otherwise, the 'qgraf-3.1.3.f' file will have to be moved and compiled in this directory. To add the directory to the system's environment variables, right-click on My Computer and follow: `Properties > Advanced system settings > Environment Variables...` Then, create the variable 'Path' with value 'C:/Program Files/Silverfrost/ FTN95' (if the variable already exists, edit it adding this string, separating existing directories with a semicolon ';' if needed)

Compiling the Fortran code from the command-line

- Open the Windows terminal ('cmd.exe') and access the folder containing the file 'qgraf-3.1.3.f' (useful commands: `cd` and `dir`)

- Enter the command `ftn95 qgraf-3.1.3.f` which will produce the file 'qgraf-3.1.3.obj'

Linking from the command-line

- Without changing folders, call `slink` in the terminal

- Write `lo qgraf-3.1.3.obj` as the first input line and press Enter

- Write `file` as the second input line and press Enter

After completing the described sequence of steps, an executable file 'qgraf-3.1.3.exe' should appear. When placed in the same folder of 'qgraf.dat', 'qgraf-3.1.3.exe' will take the former as input. The output file (usually named 'qgraf.list') should always be deleted before running QGRAF.

For further assistance on compiling and linking with FTN95 from the command-line, please refer to `http://www.silverfrost.com/ftn95-help/devel/compiler_cmdline.aspx`

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[1] Check for updates at `http://cfif.ist.utl.pt/~paulo/qgraf.html`