

# Nastran95 Installation Guide for Windows

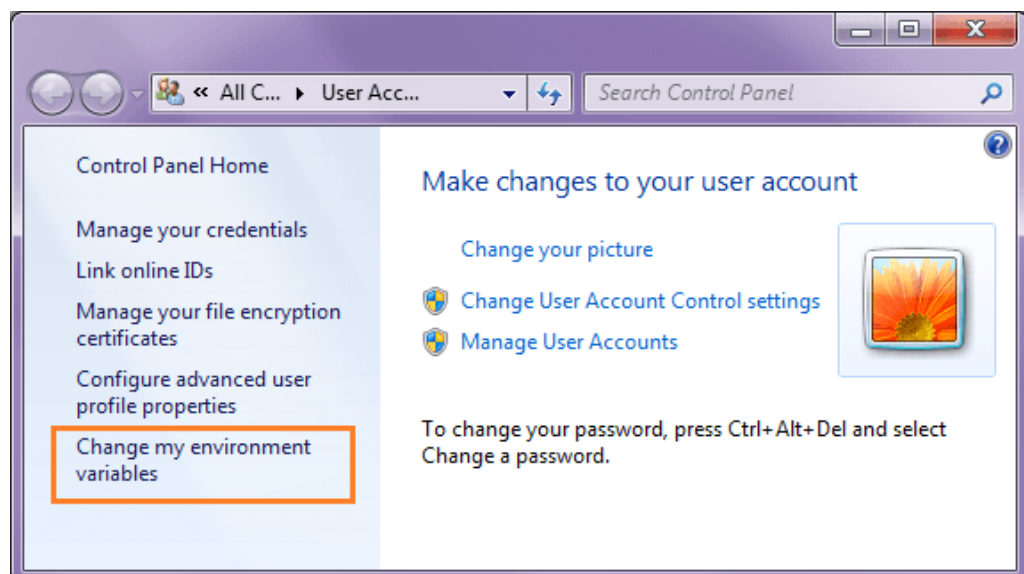
## *Requirements :*

- A fortran compiler: gfortran, for example. On Windows, we can install MinGW and use its gfortran compiler.
- "Make". On windows (using MinGW), the make command is mingw32-make

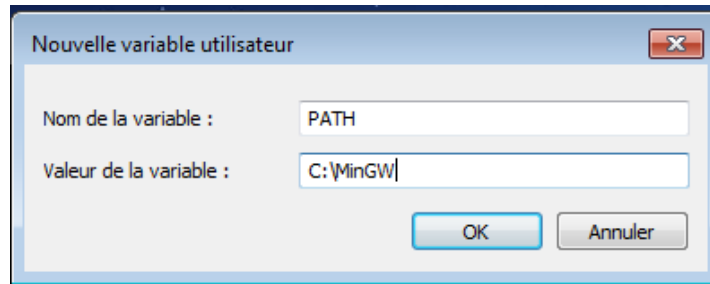
*Note: For Windows, MinGW comes bundled with all that is necessary to compile Nastran95.*

## *MinGW Installation*

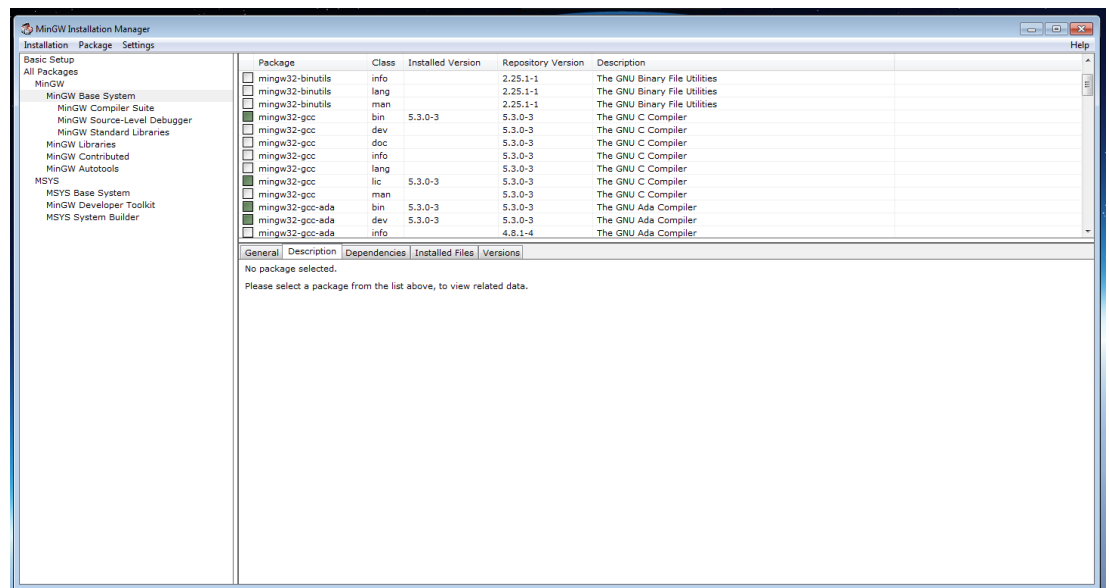
- Download the MinGW installer from:  
<https://sourceforge.net/projects/mingw/files/latest/download>
- Execute mingw-get-setup.exe
- Follow the installation instructions. **Important:** make sure that the option "just for me (the current user)" is selected.
- Add "C:\MinGW\bin" to your local user PATH variable. For this:
  - o Go to "Control Panel" → "User accounts" → "Change my environment variables"



- Create a new local user variable named “PATH”, or modify it if it already exists.  
Different directories of a same variables must be separated by a “;” symbol.



- Run the MinGW installation manager and select the default packages for installation



## ***Nastran95 Installation***

- Download the Nastran95 project from <https://github.com/twuerfl/NASTRAN-95/>
- Put the downloaded files into a folder of your choice, for example: D:\User\Programs
- Remove any special characters from the path to your folder: e.g. NASTRAN-95 → nastran95
- By using a command window, go to (cd): D:\User\Programs\nastran95\src
- Run mingw32-make (Type the command line “mingw32-make”)

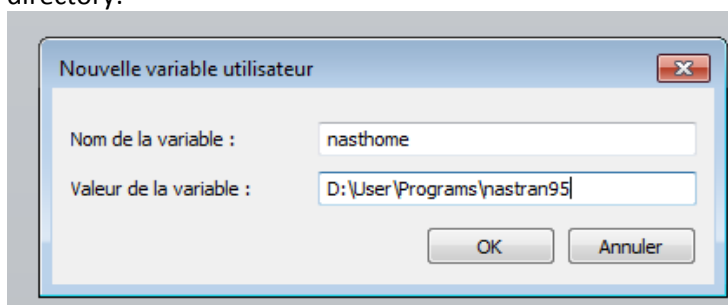
- Open the nastran.bat file on D:\User\Programs\nastran95\bin in a text editor and replace two blocks of text with these ones:

```
@echo off
set cwd=%cd%
if "%nasthome%"==" " goto notset
goto run
```

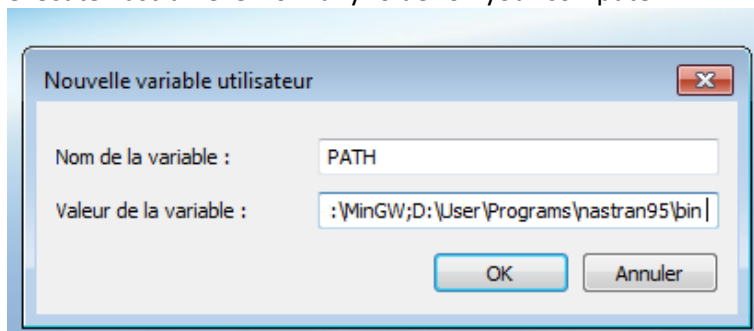
```
:run
echo The current work Directory is - %cwd%
set rfdi r=%nasthome%\rf
set nasexec=%nasthome%\sb\ nastran.exe
set naschk=%nasthome%\sb\chkfil.exe
REM set tmp=%nasthome%\test\tmp
REM set projectdir=%nasthome%\test
set tmp=%cwd%\tmp
set projectdir=%cwd%
```

src instead of sb

- Create a local user environment variable named “nasthome” pointing to the Nastran root directory:



- Add “D:\User\Programs\nastran95\bin” to your local user PATH variable. In that way you can execute nastran.exe from any folder on your computer:



## ***Running Nastran95***

- In a command window, go to the folder of your Nastran input (input\_file.inp) file
- Type nastran input\_file (without the file extension), where “input\_file” is the arbitrary name of your input file.