Revisiting MinGW (for sdcc build)

I want to build sdcc for NMK322 so that my students can use EXACTLY what I have. So, here we go again:

Installing MinGW:

- Get the 'package manager' from here
  - version 0.6.3 (beta) at the moment
  - I prefer the standalone binary (no setup)
- Pick a location and extract the zip file
  - I choose `C:\Users\Public\Tool`
  - change the folder name so that we have `C:\Users\Public\Tool\mingw\bin\mingw-get.exe`
- Prepare to use mingw-get binary
  - `cd C:\Users\Public\Tool\mingw\var\lib\mingw-get\data\`
  - `copy defaults.xml profile.xml`
- Open a command prompt and update catalogue
  - `cd C:\Users\Public\Tool\mingw\bin\`
  - `mingw-get.exe update`
- Get stuffs (compiler with Unix-like environment) without using GUI
  - `mingw-get.exe install gcc g++ gmp mpfr mpc msys msys-wget-bin`
- To get GUI interface install mingw-get (apparently, we are NOT running mingw-get! 😎)
  - `mingw-get.exe install mingw-get`
  - now, a window will come up when you run `mingw-get`

Note20220808 *Current software versions {gcc:9.2.0,binutils:2.32}*

Some useful things to do:

- To have git in MinGW shell, install Git-for-Windows at `C:\Users\Public\Tool\Git`
  - edit `C:\Users\Public\Tool\mingw\msys\1.0\etc\profile` and insert

    ```
    MY1GITPATH="/c/users/public/tool/git/bin"
    [ -d "$MY1GITPATH" ] && PATH="$MY1GITPATH:$PATH"
    ```

    before the block containing an `export PATH` line(s)

- Get helper script(s) - I wrote that for personal use
  - copy everything (except LICENSE, README.md and msys2.vbs) to `C:\Users\Public\Tool\mingw`
  - allows environment to be used on shared computer (no need for admin account)
- Running `msys.vbs` (*Hint*: double-click) will install (or remove if already installed) a pop-up context menu entry (MinGW Shell) whenever you right-click on a folder in Windows Explorer
  - edit `C:\Users\Public\Tool\mingw\msys\1.0\etc\profile` and comment (place '#' at the beginning of) the last line with `cd $HOME` command
- If you want to use normal Windows command prompt to run stuff, these two scripts are you friend (you may ignore them otherwise)
  - Running `mingw-setup.bat` sets up normal command prompt for command-line

compilation
    - place `mingw-term.bat` script (form tools folder) in any folder - when executed, it will open a command prompt (with MinGW path properly configured) in that folder
  - Running `mingw-clear.bat` cleans up settings created by `mingw-setup.bat`

computing, tech

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