

CS212 GBA

Compiler Setup Instructions for Windows

Spring 2008

This document is intended to help you install the GameBoyAdvanced compiler *devkitARM* for Windows. For more detailed information, please refer to <http://devkitpro.org>, or ask one of the TAs.

1 Downloading the Installer

Go to the page <http://devkitpro.org/downloads.shtml> and click on **Windows Installer**. It will bring to the SourceForge page. Download **devkitProUpdater-1.4.4.exe**.

2 Installing devkitARM

Launch the installer. devkitPro package offers more than we need for this course. You can install all of the options, but we only need devkitARM and MSys (if you haven't already had it). Click Next to install. If you are experiencing a connection problem, try turning off your firewall client while the updater is downloading.

3 Configuring Paths

Finally, we need to configure the system environment variables so that your computer knows where to find your commands.

3.1 Windows Command Prompt

If you plan to use Windows command shell, configure the environment variables as follows (for Windows 2000/XP):

1. Right click on **My Computer** and choose **Properties**.
2. Under System Properties, click on **Advanced** tab, and click **Environment Variables** button.
3. Under System variables, find the variables **DEVKITARM** and **Path**.
4. Change the value of **DEVKITARM** to the directory it is installed in. (e.g. `C:\devkitPro\devkitARM`)
5. Add `%DEVKITARM%\bin` to your **PATH** variable.
6. Click OK.
7. You can now test the compiler in CMD.

3.2 Cygwin

If you plan to use Cygwin, configure the path variable as follows:

1. Open `/.bashrc` (create one if it doesn't exist).
2. add the line `export PATH=$PATH:directory of devkitARM/bin` in the file and save it. (e.g. `export PATH=$PATH:/cygdrive/c/devkit/Pro/devkitARM/bin`). Note that it is case sensitive.
3. Restart cygwin shell.
4. You can now test the compiler in cygwin.

4 Downloading and Installing the Emulator

The emulator we encourage you to use for this course is called VisualBoyAdvance. There are a number of viable GBA emulators, if for some reason you are more comfortable with one of those, feel free to use it. VBA can be downloaded from <http://vba.ngemu.com/downloads.shtml>, scroll down to the Windows package(non-development) and download it (it will redirect you to a SourceForge download page). Inside of the zip file should be `VisualBoyAdvance.exe` which you can then copy to your system.