

Compiling C programs on Windows

Cygwin is a UNIX environment, developed by Red Hat, for Windows. You can compile your C programs by the command `gcc` in the Cygwin command window.

Installing Cygwin

- Download "setup.exe"(double-click the icon of "Install Now") from [Cygwin's website](#), and run it.
- Select "Install from Internet", and set "Default Text File Type" to "DOS". Let "install root directory" be "c:/cygwin" here. Then, choose the nearest mirror site for download.
- Choose packages, and download them. You will be able to compile the source code of Octave if the following packages are included in addition to *Default* .

- clear*
- gcc
- less
- make
- man*
- perl
- rxvt*
- tetex-beta
- tetex-bin
- unzip
- vim*

(The symbol '*' means that the program is not necessary for installing Octave.)

- Otherwise proceed by default. The installation will be done automatically.

Now, you can use `gcc` command. In what follows, the symbol '\$' indicates the prompt in the Cygwin command window. Let's make the following C program (named `hello.c`) and run it.

```
#include <stdio.h>
main()
{
    printf("hello, world\n");
}
```

To compile and run the program, proceed as follows:

```
$ gcc hello.c
$ ./a
hello, world
```

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