gbutils: cygwin installation

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1 Introduction

The present document provides a short description of how to install the gbutils package inside a Cygwin environment.

From its website "Cygwin is a large collection of GNU and Open Source tools which provide functionality similar to a Linux distribution on Windows". The Cygwin DLL currently works with all recent, commercially released x86 32 bit and 64 bit versions of Windows, starting with Windows XP SP3.

2 Install Cygwin

You can skip this part if you use Cygwin already. Otherwise follow the instructions.

From the Cygwin website download the installation program on the windows machine. There is both a 32 bit and a 64 bit flavor. Launch the executable. It will require to set a few parameters, but I usually accept the default setting. Then you are presented with a page that ask you to select extra packages for installation, similar to the picture below.
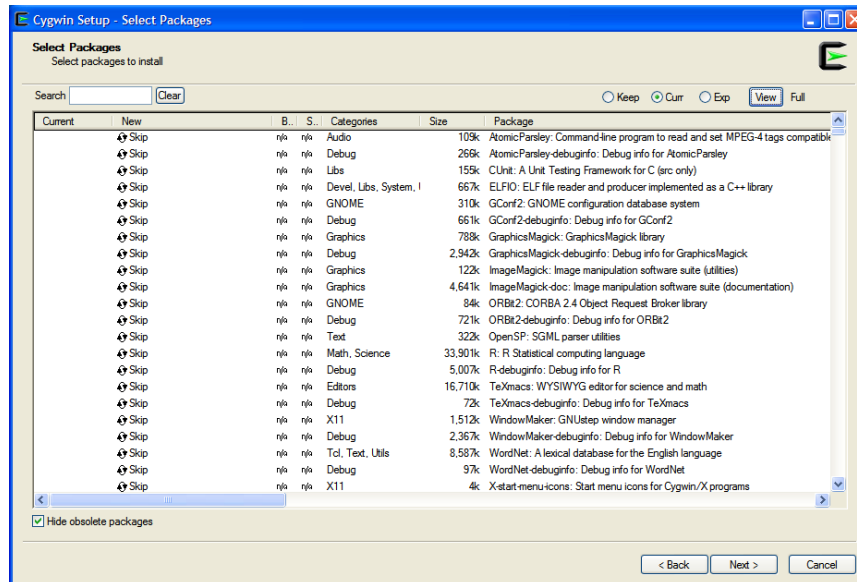
Figure 1: Cygwin packages selection window.

From this window select the packages (by clicking on the "circular arrows" symbol on the left) `gsl` and `gsl-devel`. Moreover check that the packages `crypt` and `make` are selected. They should be already, but you never know. If you plan to install the libmatheval support (highly recommended) install also `flex`, `guile`, `guile-devel`, `libgmp` and `libgmp-devel`.

3   Install GNU matheval library

Download the last package from the libmatheval website. It should have extension `.tar.gz`. Move the package in `c:\cigwin\usrl\local` and launch the `Cygwin desktop` (an icon should have been created in your Desktop). Inside the shell move to `/usr/local/` and unpack the source code

```
tar xvzf libmatheval-{version}.tar.gz
```

move inside the source directory

```
cd libmatheval-{version}
```

run the configure script specifying the prefix `/usr`

```
./configure --prefix=/usr
```

then build the files

```
make
```

and install them

```
make install
```

If more detailed instructions are necessary, see the file `INSTALL` in the source directory (you can use the command `less INSTALL`).

4   Install gbutils

From the cafed repository download the last `tar.gz` package and move it in the `/usr/local/` directory. In the `Cygwin desktop` unpack the package:

```
tar xvzf gbutils-{version}.tar.gz
```

move inside the source directory

```
cd gbutils-{version}
```

run the configure script

```
./configure
```

then build the files

```
make
```

and install them

```
make install
```

If more detailed instructions are necessary, see the file `INSTALL` in the source directory (you can use the command `less INSTALL`).

This is the END, enjoy your gbutils :-)