

# kitlist

## Building

kitlist - a program to maintain a simple list of items and assign items to one or more categories.

### Required Packages for Desktop Build

On a Debian system, the following packages need to be installed to build the application:

- intltool
- libgconfmm-2.6-dev
- libgtkmm-2.4-dev
- libpqxx-dev (pgsql only)
- libtool
- libxml++2.6-dev
- libglademmm-2.4-dev

### Required Packages for Maemo Build

On the Maemo platform, the following packages are required:

- intltool
- libgconfmm-2.6-dev
- libgtkmm-2.4-dev
- libhildonmm-dev
- libhildon-fmmm-dev
- libtool
- libxml++2.6-dev
- libglademmm-2.4-dev

Version 0.6.2 has been confirmed to compile on the following platforms:

- Debian 4.0 (Etch)
- Debian 5.0 (Lenny)
- Ubuntu 8.04 (Hardy Heron)

## C++ Compiler Flags

Set the environment variable CXXFLAGS when running ./configure. E.g.

```
$ CXXFLAGS="-g -O0 -fno-inline" ./configure
```

to include debug messages, define KITLIST\_DEBUG

```
$ CXXFLAGS="-g -O0 -fno-inline -DKITLIST_DEBUG" ./configure
```

## Obtaining the required libraries in the Maemo scratchbox environment

1. Add the following repositories to the scratchbox configuration:

```
cat >> /etc/apt/sources.list.d/maemo-extras.list <<EOF
deb http://repository.maemo.org/extras/ diablo free non-free
deb http://repository.maemo.org/extras-devel/ diablo free non-free
deb-src http://repository.maemo.org/extras/ diablo free non-free
deb-src http://repository.maemo.org/extras-devel/ diablo free non-free
EOF
```

2. Install the required packages:

```
$ fakeroot apt-get update
$ fakeroot apt-get install maemo-explicit maemo-cplusplus-env
$ fakeroot apt-get install libgladem2-2.4-dev libgtkmm-2.4-doc intltool
```

3. To re-generate the GNU configure files, run the following command:

To build for deployment to a Maemo platform (E.g. Nokia N810 Tablet)

```
$ ./autogen.sh
```

For the default Linux desktop build:

```
$ ./autogen.sh --disable-maemo-target
```

**Note:** The warnings generated by `aclocal` are usually just warning of deprecated behavior.

4. Then you can build the application with:

```
$ ./configure
$ make
```

## Running in Maemo Scratchbox Environment

1. Xephyr is used to provide an X server based emulation window. Install the `xserver-xephyr` package in Debian 4.0 (Etch).
2. Run the Xephyr server from a normal user terminal:  
\$ `Xephyr :2 -host-cursor -screen 800x480x16 -dpi 96 -ac -extension Composite`
3. Login into scratchbox environment, build and run with:

```
$ /scratchbox/login
$ export DISPLAY=:2
$ af-sb-init.sh start
$ cd ~/kitlist
$ ./autogen.sh
$ ./configure
$ make
$ run-standalone.sh ./src/kitlist
```

4. In the scratchbox environment, build a release with:

```
$ dpkg-buildpackage -rfakeroot -b -tc
```

5. and install it with:

```
$ fakeroot dpkg --install ../kitlist_X.X.X_ARCH.deb
```

6. uninstall with:

```
$ fakeroot dpkg --remove kitlist
```

7. purge with:

```
$ fakeroot dpkg --purge kitlist
```

See <http://wiki.maemo.org/Scratchbox.C++>

## Runtime library dependencies

- libgtkmm-2.4-1c2a
- libxml++2.6c2a
- libglademm-2.4
- libgconfmm-2.6-1c2
- libhildon-fmmm
- libhildonmm

## Environment Variables

There are a number of environment variables that can be used to specify various connection parameters to the PostgreSQL database. These are listed in the PostgreSQL Documentation. Some of them are mentioned briefly below:

### Example Environment Variables

- PGHOST - The database server name
- PGPORT - The port to use
- PGDATABASE - The database name
- PGUSER - The database user name
- PGPASSWORD - The connection password

## Internationalisation

1. Translatable strings contained in the program have been written in American English. To create a translation for another language, go to the po sub-directory and run the following command to update the default language file `./po/kitlist.pot`:

```
$ intltool-update --pot
```

2. Copy this file to `languagecode.po`, e.g. `fr.po`. This file contains pairs of strings, one in the default language, the other the translated version, initially blank. Also add the language to the list in the `./po/LINGUAS` file, and the `ALL_LINGUAS` entry in `./config.ac`.
3. To merge code changes into a translated po file, e.g. French:

```
$ intltool-update fr
```

4. Re-build and re-install the program. To specify the language in a shell, specify the LANG environment entry, e.g.:

```
$ export LANG=fr_FR.UTF-8
```

**Note:** the kitlist program must be installed before the language files are picked up at runtime.

More information in Programming with gtkmm

## Documentation

The documentation for the code is maintained using Doxygen. The documentation is regenerated from the source code as follows:

```
$ cd src
$ make docs
```

The generated documentation can be viewed under `../doc/doxygen/`

A PDF reference manual can be created as follows:

```
$ cd ../doc/doxygen/latex
$ make pdf
$ ls refman.ps refman.pdf
```

## License

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