Subject: Compiling a POSIX Package
Posted by morley on Thu, 21 Dec 2017 06:37:56 GMT
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Hi Everyone, I am trying to develop some code around this API, which interfaces to the Interactive Brokers trading platform. I would like to learn about automated trading. The gentlemen that developed it made some modifications to the the Interoffice Brokers API to make it run under Posix. I would like to be able to utilize this code. Here is what he writes: I don't want to just compile it though, I want to use upp to do some further work on it. Here is the overview:

********** **********
Portable C++ API for Interactive Brokers TWS
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This twsapi is almost identical to the original IB C++ Posix API. It contains
several bugfixes, usage improvements and it's using the autotools build system.
For more details read "Changes of original IB API" below.

The project homepage (bugtracker, latest git repo) is hosted on [github]
(https://github.com/rudimeier/twsapi)
Released source tarballs download [here]
(https://bitbucket.org/rudimeier/twsapi/downloads)
Binary rpms for various Linux distros [here]
(http://software.opensuse.org/download.html?project=home:rudi _m&package=twsapi)

Installation

Building from source requires a C++ compiler. It has been very well tested with
GNU gcc/g++ and Intel icc/icpc on various Linux distros, MacOSX and
Windows/Cygwin. Native Windows/Mingw is also supported.

When building from git checkout you need both autotools and libtool. Also,
don't forget to type `autoreconf -vfi` first.

```bash
./configure
make
make install
```
********** **********

I would like to be able to compile and to further work on Upp. There are two folders involved: PosixSocketClient and TestPosixSocketClient.

So my approach was to first build PosixSocketClient as a package, and then reference the package in TestPosixSocketClient. I am having a problem getting PosixSocketClient to build. I think some of the problems are alluded to in the make file:

```
LANG = C
LC_ALL = C

ACLOCAL_AMFLAGS = -I m4

SUBDIRS = PosixSocketClient TestPosixSocketClient

nodist_header_HEADERS =
nodist_header_HEADERS += twsapi_config.h

twsapi_config.h: config.h API_VersionNum.txt gen_twsapi_config_h \
 Shared/EClientSocketBaseImpl.h
 $(srcdir)/gen_twsapi_config_h config.h $(srcdir)/API_VersionNum.txt \
  $(srcdir)/Shared/EClientSocketBaseImpl.h > $@.tmp \
  && mv $@.tmp $@
```

I was able to get through most of the errors which was mostly just pointing upp to the shared header files, however I have some tougher problems with gen_twsapi_config_h. The autorreconf /make file scripts apparently takes gen_twsapi_config.h and turns it into config.h. But there is a lot going on. Can I do this on windows easily, or do I have to do this in linux with autoreconf and make? I am using the mingw64 version of upp.

Thanks!

File Attachments

1) gen_twsapi_config_h, downloaded 429 times