mwp on Cygwin

From 2015-12-30, it is possible to build and run pretty much all of the mwptools suite in cygwin. It is the best performing Windows option.

- Runs from a desktop short cut
- Audio works
- Easy device names translation

Installation

- Install the required packages. The file cygwin-example-packages.txt.gz is taken from a cygwin installation that is capable of building and running mwp. Note that while this seems like a large list, many of the items are automagically installed as dependencies of other items. See also Automation Hints below.
- At run time, you need to have started the a X server (VcXsrv recommended)
- Serial devices must be prefixed /dev/, e.g. COM7: => /dev/ttyS7

Once the dependencies are installed, mwp is easily built from the cygwin shell:

- Clone the repository
- make && make install

Automation hints

It's quite easy to install the dependencies as follows:

- Install the base cygwin package using the graphical installer from cygwin.
- Install a few (additional) packages git, wget and gzip.
- Open the cygwin terminal
- Fetch and make executable the apt-cyg script

```
wget https://rawgit.com/transcode-open/apt-cyg/master/apt-cyg
install apt-cyg /bin
```

Clone the mwp repsoitory

```
git clone --depth 1 https://github.com/stronnag/mwptools
```

Install all the dependencies in one hit:

```
apt-cyg install $(zcat mwptools/docs/cygwin-example-packages.txt.gz)
```

Build mwp

```
cd mwptools
make && make install # no sudo in cygwin
```

Runtime

It's convenient to set the following in .bashrc

```
export DISPLAY=:0
export NO_AT_BRIDGE=1
export LIBGL_ALWAYS_INDIRECT=Y
```

The X server (VcXsrv) must be running, it may be convenient to start this automatically from the Windows Startup directory.

A Windows batch file is provided that may be used as a desktop shortcut docs/mwp.bat

A Windows icon is provided (common/mwp_icon.ico)



No support is offered for running under cygwin.