For one of our projects we needed an OSC implementation in MATLAB. Fortunately, there is a free version available from Andy Schmeder. However, it is only pre-compiled available for MacOS X and Windows, but not for Linux. This guide shows how you can compile mexosc on Ubuntu Linux.

- Download the source frome here: http://andy.schmeder.net
- Unzip the source to any folder
- Install liblo0-dev

sudo apt-get install liblo0-dev

- Install GCC 4.1

sudo apt-get install gcc-4.1

- Create a symbolic link to the Standard C++ library

sudo ln -s /usr/lib/libstdc++.so.6 /usr/lib/libstdc++.so

- Edit /usr/include/lo/lo_endian.h and comment out lines 89 to 99 (just before the #endif)
- Start MATLAB and navigate to the folder where you extracted the source code
- Type

mex -setup

- and select "2" for the GCC compiler
- Edit ~/.matlab/R2008b/mexopts.sh and change line 57 to the following:

CC='gcc-4.1'CFLAGS='-ansi -std=c99 -D_GNU_SOURCE'

- Patch the whole OSC tree to remove all comments using osc_gcc.patch (see attachment) not needed anymore if you add -std=c99 to CFLAGS (see above)
- Type

osc_make()

- to compile OSC for MATLAB