Jacktrip Basics, Part 2:

- Routing with Qjackctl and Jmess
- Multichannel connections
- 3-way connections

Video by Michael Dessen, Jan. 2013
http://www.mdessen.com

QJackctl

- http://qjackctl.sourceforge.net

- GUI (Graphical User Interface) for JACK

- If you are using Mac OS 10.7 or later, you'll need to use QJackctl for routing with JackTrip, due to problems with the routing window in the latest version of JACK

Installing QJackctl

- For Mac users not experienced with Unix and .tar files, the easiest way to install is to download and install the binary of Qjackctl:

- For Mac OS 10.77 or later:

  - http://releases.ardour.org/QJackCtl-0.3.2-intel.dmg

- For earlier versions:

  - http://releases.ardour.org/QJackCtl-0.2.22.dmg

JMess

- http://code.google.com/p/jmess-jack/

- A utility application for saving and loading JACK routing configurations, using .xml files

- Runs in Terminal (no GUI)

Installing JMess

- http://code.google.com/p/jmess-jack/downloads/list

- Download the binary .zip file and unstuff it

- Place the folder "jmess-1.0.1" in Applications

- Open a Finder window and go to that folder

- Open a Terminal window. Type "cd" followed by a space, then drag the "bin" folder within the "jmess-1.0.1" folder into the terminal window to create the path to that folder, then enter

- Follow instructions in INSTALL.txt ("sudo" etc.)

- To test that it's installed: Open a Terminal window, enter "jmess" and you should see the version info and list of commands.

Creating a multi-channel connection

- Same technique as a 2-way connection (see part 1 video) with only one added step:

- When running the jacktrip command to start the session, include the additional command "-n #" where # is the number of channels

- Example:

  - Host: jacktrip -s -n 4

  - Client: jacktrip -c 128.75.74.83 -n 4

Routing with Qjackctl and Jmess

- Qjackctl:
  - Open Qjackctl AFTER jacktrip connection is established.
  - Click on "connect" to open the routing window. Select items and use connect/disconnect buttons at bottom.
- Jmess:
  - Open a terminal window and use "cd" (change directory) to go to the directory where you want to save the file.
  - You can always type jmess for a list of commands
  - To save current routing configuration:
    jmess -s filename.xml
  - To disconnect all:
    jmess -d
  - To load a previously saved file (in current directory):
    jmess -c filename.xml

3-way connections:

- In fact, it is not a "3-way connection" but instead a **host** making 2-way connections with **more than one client**, then **routing** audio among the clients so that they can all hear each other

- **Clients** only make a single jacktrip connection with the host

- **Host** makes multiple jacktrip connections, each in a separate Terminal window, using **port offsets**

- **Port offsets** are positive or negative numbers that alter the default UDP port (4464). To specify port offset, both the host and client add "-o #" (where # is port offset) to the jacktrip command. Example:

  - client: jacktrip -c 128.54.26.73 -o 10

  - host: jacktrip -s -o 10