音频编码工具配置

1. PJmedia setup

Support targets

- Linux
- MACOS X (to be verified)

Requirements

1. GNU make
2. GNU binutils for the target
3. GNU gcc

Video support

1. linux: v4l2 development library

   ```
   sudo apt-get install libv4l-dev
   ```

2. SDL **version 2.0**

   http://www.libsdl.org/download-2.0.php (http://www.libsdl.org/download-2.0.php)

3. ffmpeg

   http://ffmpeg.org/download.html (http://ffmpeg.org/download.html)

Running configure

1. Enable G722.1:

   pjpeoject/pjmedia/include/pjmedia-codec/congif.h: line 312
   DEFINE PJMEDIA_HAS_G7221_CODEC **0 -> 1**

2. Configure and make

   ```
   ./configure make dep make sudo make install
   ```

2. Build app

- Create a directory outside the PJSIP sources for your project and place your source files there.

- Create Makefile (**!!!Change spaces into tab**)

```
# If your application is in a file named myapp.cpp or myapp.c
# this is the line you will need to build the binary.
all: myapp
myapp: myapp.cpp
    $(CC) -o $@ $< `pkg-config --cflags --libs libpjproject`
clean:
    rm -f myapp.o myapp
```

- Add app(myapp.c) in directory

- run **make**

3. notes

- Sample directory:

```
pjproject/pjsip-apps/src/samples/
```

- Official Document: `http://www.pjsip.org/docs/latest/pjmedia/docs/html/index.htm`

- G722.1 Codec:
  `http://www.pjsip.org/pjmedia/docs/html/group__PJMED__G7221__CODEC.htm`