CODELIST

INCLUDE/ & SRC/

> All the description of the files can be found at ./document/html/files.html

- api.h: API for users, including task functions
- arp.h: ARP protocol and global <IP address, MAC address> map
- device.h: support some functions to handle device or get information
- ether.h: support functions to send or handle frames on link layer
- ip.h: support functions to send and handle packets on network layer
- massert.h: functions to show LOG infomation
- router.h: global routing table. And functions to update or set routing table
- sdp.h: routing procol. Support functions to send SDP frame
- socket.h: manage sockets
- socketaddr.h: socket address with ip and port
- tcp.h: basic TCP functions
- tcpbuffer.h: buffer used in data received
- tcpsegment.h: a class storing TCP segments
- tcpseq.h: manage sequence number in a socket
- tcpstate.h: states of socket
- type.h: types will be used

UTILS/

- VNetUtils：just a copy but use **LF** instead of CRLF. It can be used in any path now.

TESTS/

> Following files is sorted by the time they are created. Can be found in ./document/html/files.html

- testList: list all device in the host
- testDeviceManager: open all devices and begin listening on them. An warning will be shown when trying to add a device opened
- testSendFrame: open one device and send 100 frames to destination MAC address.
- testARP: ARP request and response.

- testChecksum: checksum function
- testIP: IP packet sent and received
- testSDP: SDP routing algorithm
- testRoute: routing and routing algorithm
- testSocketClient: test socket as a client. It will call functions of api::socket if `TEST_API` defined. Or it will call the functions of system
- testSocketServer: test socket as a server. It will call functions of api::socket if `TEST_API` defined. Or it will call the functions of system

SCRIPTS/

- build.sh: build the project
- make_vnet.sh: build the virtual net
- remove_vnet.sh: delete the virtual net