

int
bytes 0:

level 值
1~4 5~8

type=0
primitive-type=0
vector-type=-1;
level=读(1-4)
count=1;
length=intBytes=4;
size=length+headerBytes
+intBytes=9
intData=读(5-8)

bool
bytes 0

level 值
1~4 5~8

type=0
primitive-type=0
vector-type=-1;
level=读(1-4)
count=1
length=boolBytes=0;
Size=length+headerBytes
+intBytes=5
boolData=读(0-0)

double
byte 0

level 值
1-4 5~12

type=0
primitive-type=0
Vector-type=-1
level=读(1-4)
count=1;
length=doubleBytes=8;
size=length+headerBytes
+intBytes=13
doubleData=读(5~12)

string
byte 0

level length 值
1~4 5~8 9
K为length

type=0
primitive-type=0
Vector-type=-1
level=读(1-4)
length=读(5-8)
Size=length+headerBytes
+intBytes*2;
StringData=读(从9开始,
长为length)

vector
byte 0

level count
1-4 5~8

值域

SendableData共有count个

type=1
primitive-type=-1
vector-type=读(0-0)
level=读1-4
count=读5-8
length=读值域,统计
size总值
size=length+headerBytes+
intBytes*2
VectorData=读值域

pairVector
byte 0

level count
值域

SendableData共有
count对(count*2个)

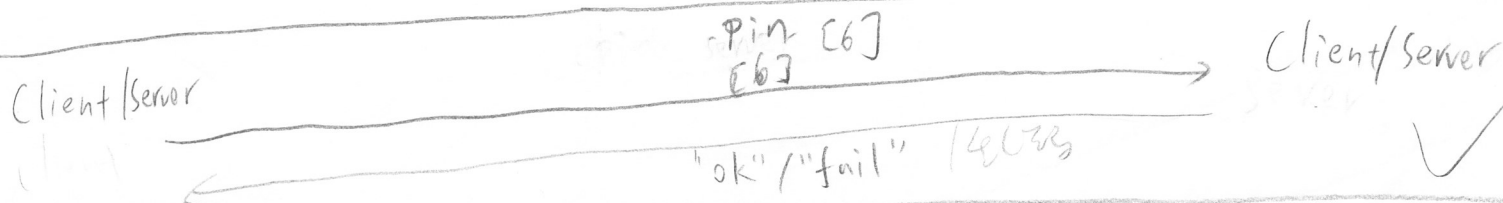
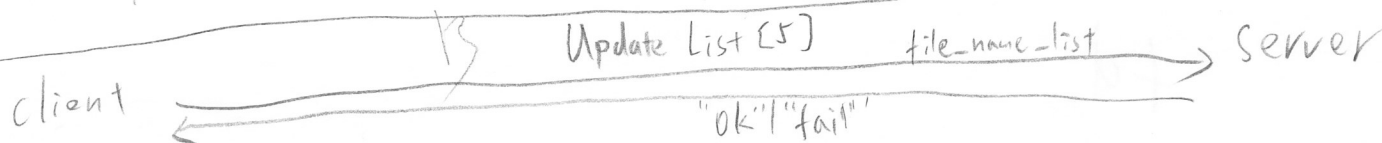
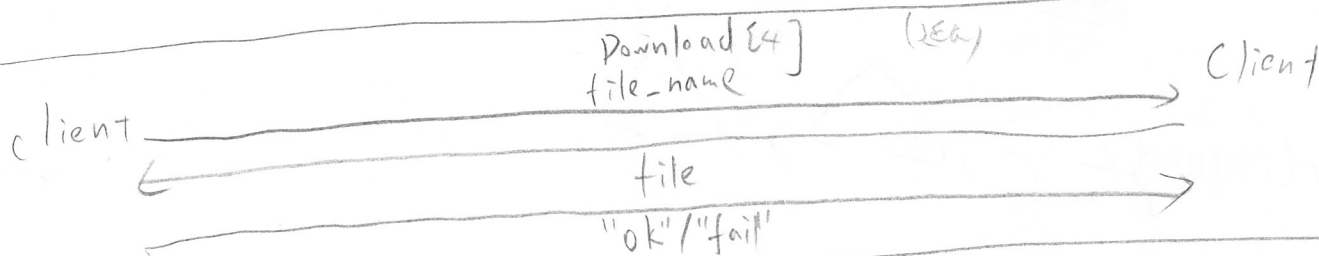
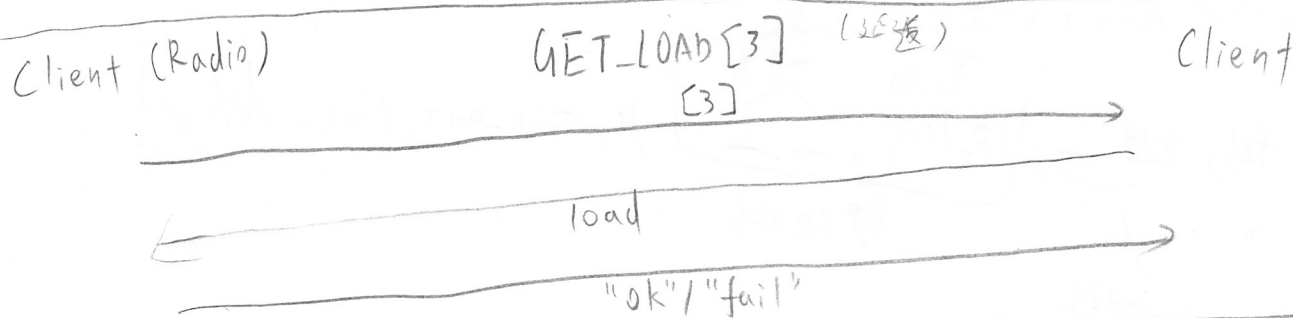
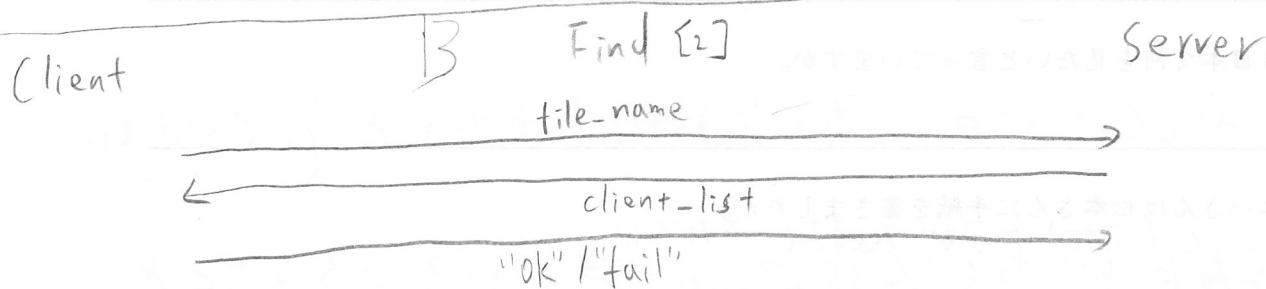
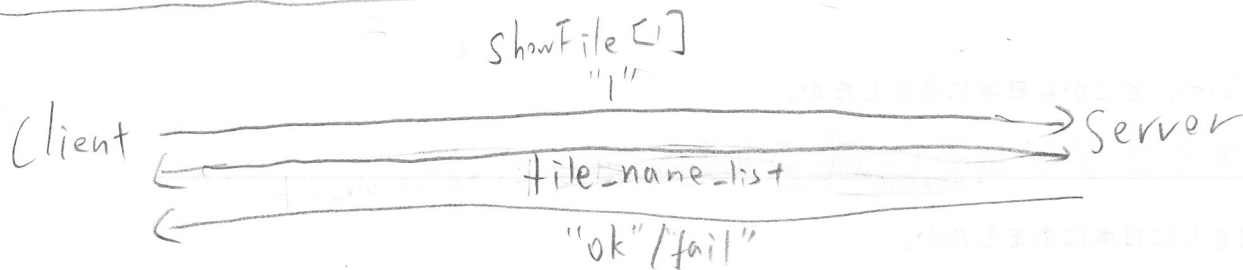
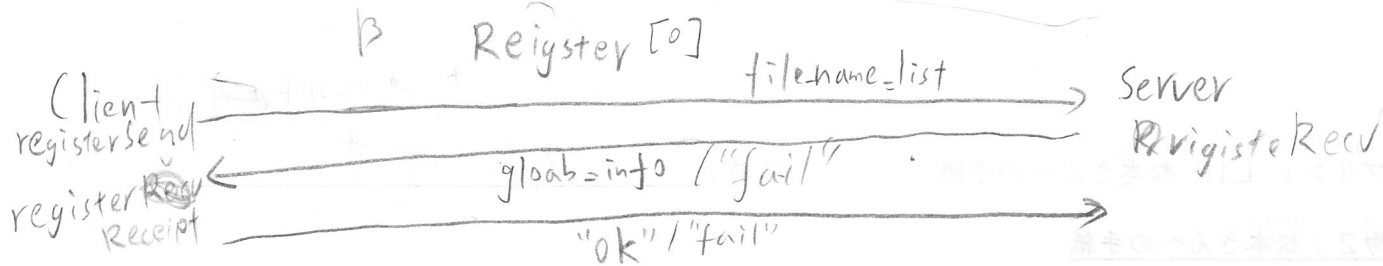
type=2
primitive-type=-1
vector-type=读(0-0)
level=读1-4
count=读5-8
length=读值域,统计
size总值
Size=length+headerBytes+
intBytes*2;
pairVectorData=读值域

Constructor:
(int, level)
(bool, level)
(double, level)
(string, length, level)
(vector<int>, level) 3种
(vector<string>, length, level)
(vector<自己>, se-type, level)
(vector<pair...>)

retriver:
- getInt()
- getBool()
- getDouble()
- getString()
- getVector()
- getPairVector()
- getItem(index)
- getPairItem(index)

加解密:
static void setFail(Code(char*))
char* encode()
decode(char*)

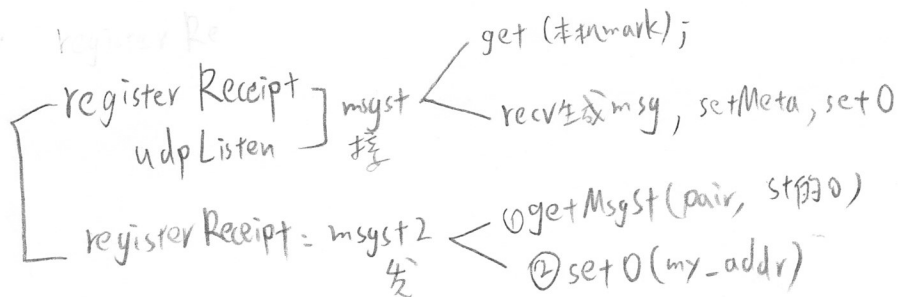
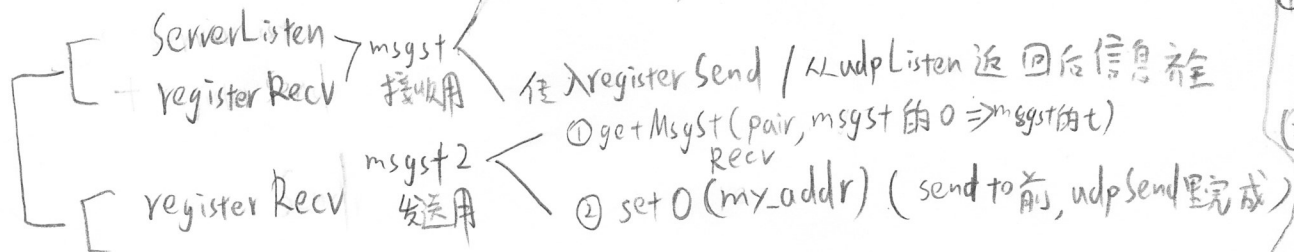
meta:
信息, 外套一层:
check
STATE
checksum
m-i m-p/m-id



udp Send (msg 212, ip-list,

msgst	msg msglen	if_de- codable	request	status	o_ip	o_port	o_mark_ip	o_mark_port	t_ip	t_port
ServerListen	recv 中	recv 后	recv 后	recv 后	recv后 改	recv 后	recv 后	recv 后	本机 mark	本机 mark
ClientListen	recv 中	recv后	M::setMsgStMeta(msgst)		rem-addr set 0					
registerSend msgst	M::getMsgSt(某pair, server-ip, server-port)				M::setMsgStO(o-ip, o-port)					
registerRecv msgst										
registerRecv msgst2 (global info)	M::getMsgSt(某pair, msgst, 0-2)				M::setMsgStO(my-addr里的0)					
registerReceipt (fd) msgst udpListen	recv 中	recv后	M::setMsgStMeta(msgst)		rem-addr set 0				本机 mark M::getMsgSt(本机 mark)	本机 mark
udpListen 返回										
registerReceipt msgst2 (ok/fail)	M::getMsgSt(某pair, msgst的0)				M::setMsgStO(my-addr)					
registerReceiptOk msgst	recv 中	recv后	M::setMeta(msgst)		set 0 (rem-addr)				M::getMsgSt(本机 mark)	
udpListen 返回										

- ① get+MsgSt (本机 mark) 生成 t ④ set 0 (rem-addr) 生成 0
② recv 生成 msg ③ M::setMeta 生成 if/req/status/mark C



- ① 如果 msgst 不 decodeable 返回 FAIL
- ② 如果 FAIL, 不动了。
- ③ 如果 OK, 包装 msgst2
- ④ 如果 msgst2 是 FAIL, 不等了

msgst.it_decodable != true || msgst.status == OK → 传 msgst2

MsgSt 类型: Ok ✓
Fail ✓
✓ FileName ✓
FilePanelList ✓
GlobalInfo ✓

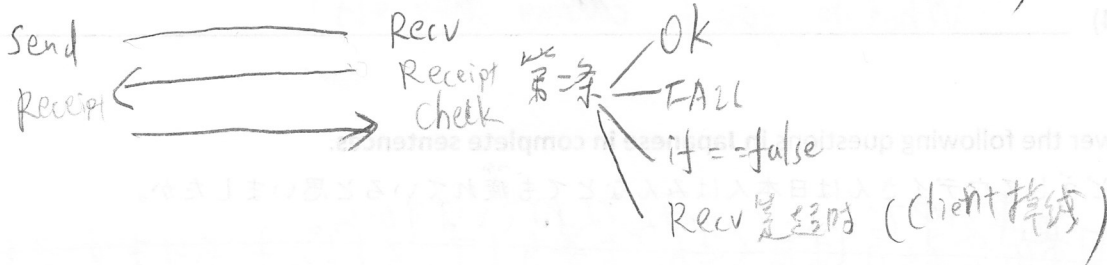
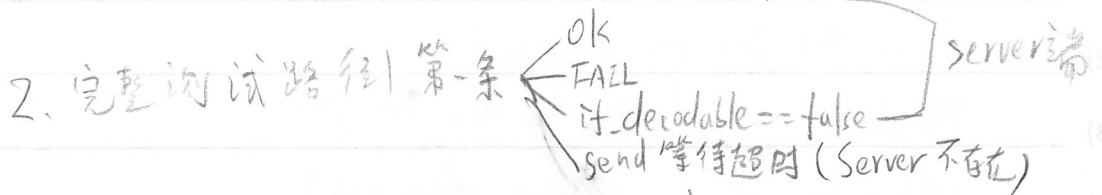
File ✓
ClientList ✓
printMsgStMeta(st) ✓

To do

1. 完整测试 MsgSt / Message

ge+MsgSt Recv(~~ip~~ t-ip, t-port)

ge+MsgSt Send (



delay_max 改成 time_out_max

MsgSt 测试

发送用 file_name_list

	OK	有Noise	FAIL
FileName	✓	✓	
Ok	✓	✓	
FAIL	✓	✓	
File Name List	✓	✓	
Global Info	✓	✓	
FILE	✓	✓	
Client List	✓	✓	
File			