

6 SRS 4.0 RTMP to WebRTC原理分析

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零声学院：音视频高级课程：<https://ke.qq.com/course/468797?tuin=137bb271>

当前srs版本为srs.4.0.123。

注意和3.x版本函数命名的区别

srs3.x	srs.4.0.123
SrsSource	SrsLiveSource (4.0.112)
SrsRtcStream	SrsRtcSource (4.0.113)
SrsConsumer	SrsLiveConsumer (4.0.114)

把SrsSource改成SrsLiveSource,
把SrsRtcStream改成SrsRtcSource,

把SrsConsumer改成SrsLiveConsumer,
保持SrsRtcConsumer不变。

1 测试环境

1.1 启动srs服务器

使用rtc.conf

启动服务器

```

1  git clone https://gitee.com/ossrs/srs.git srs.4.0.123
2  cd srs.4.0.123
3  git checkout srs.4.0.123
4  cd trunk
5  ./configure --gb28181=on && make
6  ./objs/srs -c conf/rtc.conf

```

记得修改

```

rtc_server {    enabled on;
    # Listen at udp://8000
    listen 8000;
    #
    # The $CANDIDATE means fetch from env, if not configed, use * as default.
    #
    # The * means retrieving server IP automatically, from all network interfaces,
    # @see https://github.com/ossrs/srs/wiki/v4\_CN\_RTCWiki#config-candidate
    # candidate $CANDIDATE; 在云服务器为外网ip
    candidate 120.27.131.197;
}

```

1.2 客户端使用ffmpeg进行rtmp推流

比如：

```

1  ffmpeg -re -i time.flv -vcodec copy -acodec copy -f flv -y
    rtmp://120.27.131.197/live/livestream

```

1.3 WebRTC拉流播放

推送流成功之后，使用srs自带的rtc_player播放器进行播放，直接请求srs服务的8080端口即可

http://120.27.131.197:8080/players/rtc_player.html



2 提出问题–灵魂拷问

第一层 通识原理

- rtmp和webrtc协议怎么转换
- webrtc播放基本的逻辑是怎么样的

第二层 SRS4.0 对象关系

- SrsLiveSource
- SrsRtcFromRtmpBridger
- SrsRtcSource
- SrsRtcConsumer
- SrsRtcServer
- SrsRtcConnection
- SrsGoApiRtcPlay
- SrsRtcPlayStream
- SrsRtcSendTrack
- SrsRtcAudioSendTrack
- SrsRtcVideoSendTrack
- 等等

第三层 协议解析

- **DTLS**(Datagram Transport Layer Security) 即数据包传输层安全性协议。TLS不能用来保证UDP上传输的数据的安全，因此Datagram TLS试图在现存的TLS协议架构上提出扩展，使之支持UDP，即成为TLS的一个支持数据包传输的版本。
- **RTP** (Real-time Transport Protocol或简写**RTP**) 实时传输协议。
- **RTCP** (Real-time Transport Control Protocol或RTP Control Protocol或简写RTCP) 是实时传输协议(RTP) 的一个姐妹协议。
- **STUN** (Session Traversal Utilities for NAT, NAT会话穿越应用程序) 是一种网络协议，它允许位于NAT (或多重NAT) 后的客户端找出自己的公网地址，查出自己位于哪种类型的NAT之后以及NAT为某一个本地端口所绑定的Internet端端口。
- **SDP**对ICE、RTP的描述。

3 RTMP2WebRTC协议转换

从源码我们可以找到

- SrsRtcConsumer::SrsRtcConsumer构造函数，从以前我们所学知识知道webrtc播放的时候一定会创建SrsRtcConsumer对象。
- SrsRtcSourceManager管理SrsRtcSource
- SrsRtcSource分发数据给SrsRtcConsumer
- SrsRtcSource怎么接收rtmp转发的数据？
- webrtc音频使用opus，怎么进行转码？

```
Breakpoint 1, main (argc=3, argv=0x7fffffff408) at src/main/srs_main_server.cpp:227227 {  
(gdb) b SrsLiveSource::SrsLiveSource()  
Breakpoint 2 at 0x511949: file src/app/srs_app_source.cpp, line 1847.  
(gdb) b SrsRtcFromRtmpBridger::SrsRtcFromRtmpBridger(SrsRtcSource*)  
Breakpoint 3 at 0x64adac: file src/app/srs_app_rtc_source.cpp, line 713.  
(gdb) b SrsRtcSource::SrsRtcSource()  
Breakpoint 4 at 0x6494d7: file src/app/srs_app_rtc_source.cpp, line 339.  
(gdb) b SrsRtcConsumer::SrsRtcConsumer(SrsRtcSource*)  
Breakpoint 5 at 0x64883d: file src/app/srs_app_rtc_source.cpp, line 163.
```

4 RTMP2WebRTC逻辑

架构

看上课演示框图。

<https://www.processon.com/view/link/60f047bf1efad40732081590>, 密码: v3v3

来自play请求

```
srs_error_t SrsRtcServer::listen_api(){
    srs_error_t err = srs_success;

    // TODO: FIXME: Fetch api from hybrid manager, not from SRS.
    SrsHttpServeMux* http_api_mux = _srs_hybrid->srs()->instance()->api_server();// 默认1985
    的端口

    if ((err = http_api_mux->handle("/rtc/v1/play/", new SrsGoApiRtcPlay(this))) !=
srs_success) {
        return srs_error_wrap(err, "handle play");
    }

    if ((err = http_api_mux->handle("/rtc/v1/publish/", new SrsGoApiRtcPublish(this))) !=
srs_success) {
        return srs_error_wrap(err, "handle publish");
    }

#ifdef SRS_SIMULATOR
    if ((err = http_api_mux->handle("/rtc/v1/nack/", new SrsGoApiRtcNACK(this))) !=
srs_success) {
        return srs_error_wrap(err, "handle nack");
    }
#endif

    return err;
}
```

断点

```
SrsRtcSource::SrsRtcSource
SrsRtcConsumer::SrsRtcConsumer
SrsRtcFromRtmpBridger::SrsRtcFromRtmpBridger
```

SrsGoApiRtcPlay::SrsGoApiRtcPlay 处理webrtc play的入口
SrsGoApiRtcPlay::serve_http 处理play，并封装server的sdp
SrsRtcConnection::SrsRtcConnection 创建webrtc连接

创建webrtc的阶段

SrsDtlsImpl

SrsRtcSource::SrsRtcSource

```
#0 SrsRtcSource::SrsRtcSource (this=0x5555560b4ae0) at
src/app/srs_app_rtc_source.cpp:339#1 0x000055555581fa3b in
SrsRtcSourceManager::fetch_or_create (this=0x5555560afb10, r=0x555556204060,
pps=0x555556214980)
    at src/app/srs_app_rtc_source.cpp:282
#2 0x00005555556e1cff in SrsRtmpConn::acquire_publish (this=0x5555561da560,
source=0x555556217520)
    at src/app/srs_app_rtmp_conn.cpp:981
#3 0x00005555556e0e4f in SrsRtmpConn::publishing (this=0x5555561da560,
source=0x555556217520)
    at src/app/srs_app_rtmp_conn.cpp:856
#4 0x00005555556de38a in SrsRtmpConn::stream_service_cycle (this=0x5555561da560) at
src/app/srs_app_rtmp_conn.cpp:566
#5 0x00005555556dd088 in SrsRtmpConn::service_cycle (this=0x5555561da560) at
src/app/srs_app_rtmp_conn.cpp:420
#6 0x00005555556dbb88 in SrsRtmpConn::do_cycle (this=0x5555561da560) at
src/app/srs_app_rtmp_conn.cpp:233
#7 0x00005555556e4a6a in SrsRtmpConn::cycle (this=0x5555561da560) at
src/app/srs_app_rtmp_conn.cpp:1485
#8 0x000055555571380a in SrsFastCoroutine::cycle (this=0x5555561da6f0) at
src/app/srs_app_st.cpp:270
#9 0x00005555557138a6 in SrsFastCoroutine::pfn (arg=0x5555561da6f0) at
src/app/srs_app_st.cpp:285
#10 0x000055555583bc48 in _st_thread_main () at sched.c:363
```

SrsRtcFromRtmpBridger::SrsRtcFromRtmpBridger

```
#0 SrsRtcFromRtmpBridger::SrsRtcFromRtmpBridger (this=0x5555562e84a0,
source=0x5555560b4ae0) at src/app/srs_app_rtc_source.cpp:713
#1 0x0000555556e1e91 in SrsRtmpConn::acquire_publish (this=0x5555562e7780,
source=0x555556217520)
    at src/app/srs_app_rtmp_conn.cpp:999
#2 0x0000555556e0e4f in SrsRtmpConn::publishing (this=0x5555562e7780,
source=0x555556217520)
    at src/app/srs_app_rtmp_conn.cpp:856
#3 0x0000555556de38a in SrsRtmpConn::stream_service_cycle (this=0x5555562e7780) at
src/app/srs_app_rtmp_conn.cpp:566
#4 0x0000555556dd088 in SrsRtmpConn::service_cycle (this=0x5555562e7780) at
src/app/srs_app_rtmp_conn.cpp:420
#5 0x0000555556dbb88 in SrsRtmpConn::do_cycle (this=0x5555562e7780) at
src/app/srs_app_rtmp_conn.cpp:233
#6 0x0000555556e4a6a in SrsRtmpConn::cycle (this=0x5555562e7780) at
src/app/srs_app_rtmp_conn.cpp:1485
#7 0x00005555571380a in SrsFastCoroutine::cycle (this=0x5555562dea40) at
src/app/srs_app_st.cpp:270
#8 0x0000555557138a6 in SrsFastCoroutine::pfn (arg=0x5555562dea40) at
src/app/srs_app_st.cpp:285
#9 0x000055555583bc48 in _st_thread_main () at sched.c:363
#10 0x000055555583c4e4 in st_thread_create (start=0x55555713886
<SrsFastCoroutine::pfn(void*)>, arg=0x5555562dea40,
    joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
```

创建SrsRtcFromRtmpBridger 进行SrsLiveSource和SrsRtcSource之间的桥接。

在SrsRtmpConn::acquire_publish

1. 创建rtc源

```
err = _srs_rtc_sources->fetch_or_create(req, &rtc))
```

2. 创建bridger

```
SrsRtcFromRtmpBridger *bridger = new SrsRtcFromRtmpBridger(rtc); 新建桥接
```

3. 将SrsLiveSource和SrsRtcSource绑定

```
bridger->initialize(req)
```

```
source->set_bridger(bridger);
```

5. 转发音频数据: SrsLiveSource::on_audio_imp


```

bridger_>on_audio(msg)
    format->on_audio(msg) 缓存音频帧
    aac_raw_append_adts_header(msg, format, &adts_audio, &nn_adts_audio) 添加7 bytes
header
    transcode(&aac) 转码和分发数据
        codec_>transcode(audio, out_audios) 真正转码的函数
        package_opus(out_audio, pkt) 将opus封装成rtp包
        source_>on_rtp(pkt) 分发rtp包给各个rtc consumer
6. 转发视频数据: SrsLiveSource::on_video_imp
bridger_>on_video(msg)
    filter(msg, format, has_idr, samples) 过滤B帧
    package_stap_a(source_, msg, pkt)如果有hdr帧则发送sps pps 包
    package_nalus(msg, samples, pkts) 解析nalu封装成pkt
    consume_packets(pkts); // 发送数据

```

SrsRtcConsumer::SrsRtcConsumer

```

#0 SrsRtcConsumer::SrsRtcConsumer (this=0x5555562d71f0, s=0x5555560b4ae0) at
src/app/srs_app_rtc_source.cpp:163#1 0x000055555582095b in
SrsRtcSource::create_consumer (this=0x5555560b4ae0, consumer=@0x5555563cc568: 0x0)
    at src/app/srs_app_rtc_source.cpp:482
#2 0x00005555557dccc1 in SrsRtcPlayStream::cycle (this=0x5555562ed720) at
src/app/srs_app_rtc_conn.cpp:563
#3 0x000055555571380a in SrsFastCoroutine::cycle (this=0x5555562c7e80) at
src/app/srs_app_st.cpp:270
#4 0x00005555557138a6 in SrsFastCoroutine::pfn (arg=0x5555562c7e80) at
src/app/srs_app_st.cpp:285
#5 0x0000555555583bc48 in _st_thread_main () at sched.c:363
#6 0x0000555555583c4e4 in st_thread_create (start=0x0, arg=0x5555562c7e80,
joinable=21845, stk_size=1445884208)
    at sched.c:694
#7 0x00005555557db190 in SrsRtcPLIWorker::start (this=0x5555562a3880) at
src/app/srs_app_rtc_conn.cpp:325
#8 0x00005555557dcaa8 in SrsRtcPlayStream::start (this=0x5555562ed720) at
src/app/srs_app_rtc_conn.cpp:533
#9 0x00005555557e62a9 in SrsRtcConnection::on_connection_established
(this=0x5555562e8870)
    at src/app/srs_app_rtc_conn.cpp:2205

```

#10 0x0000555557da7c4 in SrsSecurityTransport::on_dtls_handshake_done
(this=0x5555562e2ff0)
at src/app/srs_app_rtc_conn.cpp:164
#11 0x00005555580d319 in SrsDtlsServerImpl::on_handshake_done (this=0x5555562d73b0) at
src/app/srs_app_rtc_dtls.cpp:952
#12 0x00005555580bb08 in SrsDtlsImpl::do_handshake (this=0x5555562d73b0) at
src/app/srs_app_rtc_dtls.cpp:619
#13 0x00005555580b431 in SrsDtlsImpl::do_on_dtls (this=0x0, data=0x0, nb_data=0) at
src/app/srs_app_rtc_dtls.cpp:534
#14 0x00005555561ca270 in ?? ()
#15 0x0000555555efa4b0 in vtable for _SrsContextId ()
#16 0x00007ffff7fdfb58 in ?? ()
#17 0x0000000000000008 in ?? ()
#18 0x386e616b716c3239 in ?? ()
#19 0x00007ffff7fffdde00 in ?? ()
#20 0x00007ffff7fdfc50 in ?? ()
#21 0x000055555f03858 in vtable for SrsUdpMuxSocket ()
#22 0x0000555500000000 in ?? ()
#23 0x000055556099d08 in ?? ()
#24 0x5cc26fb900000000 in ?? ()
#25 0x000055556373530 in ?? ()

SrsGoApiRtcPublish::do_serve_http

#0 SrsUdpMuxSocket::SrsUdpMuxSocket (this=0x1140150, fd=0x105e0b0) at
src/app/srs_app_listener.cpp:295
#1 0x00000000005de891 in SrsUdpMuxSocket::copy_sendonly (this=0x7ffff7fd2b80) at
src/app/srs_app_listener.cpp:477
#2 0x000000000060e449 in SrsRtcConnection::update_sendonly_socket (this=0x114ed70,
skt=0x7ffff7fd2b80) at src/app/srs_app_rtc_conn.cpp:2319
#3 0x000000000060c6ca in SrsRtcConnection::on_stun (this=0x114ed70, skt=0x7ffff7fd2b80,
r=0x7ffff7fd2930) at src/app/srs_app_rtc_conn.cpp:1981
#4 0x0000000000644b12 in SrsRtcServer::on_udp_packet (this=0xf5c410, skt=0x7ffff7fd2b80)
at src/app/srs_app_rtc_server.cpp:406
#5 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#6 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270

```
#7 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#8 0x00000000006a7a99 in _st_thread_main () at sched.c:363
```

SrsRtcServer::on_udp_packet

```
Breakpoint 8, SrsRtcServer::on_udp_packet (this=0x5555560b4fe0, skt=0x7ffff7fdfb70) at
src/app/srs_app_rtc_server.cpp:343343 {
(gdb) bt
#0 SrsRtcServer::on_udp_packet (this=0x5555560b4fe0, skt=0x7ffff7fdfb70) at
src/app/srs_app_rtc_server.cpp:343
#1 0x00005555557b86ac in SrsUdpMuxListener::cycle (this=0x5555560fddd0) at
src/app/srs_app_listener.cpp:636
#2 0x000055555571380a in SrsFastCoroutine::cycle (this=0x5555561b7410) at
src/app/srs_app_st.cpp:270
#3 0x00005555557138a6 in SrsFastCoroutine::pfn (arg=0x5555561b7410) at
src/app/srs_app_st.cpp:285
#4 0x000055555583bc48 in _st_thread_main () at sched.c:363
#5 0x000055555583c4e4 in st_thread_create (start=0x7ffff6e689d8
<__libc_multiple_threads>, arg=0x5b0000006e, joinable=119,
stk_size=124) at sched.c:694
```

SrsUdpMuxSocket::SrsUdpMuxSocket

SrsRtcPlayStream::SrsRtcPlayStream

```
Breakpoint 6, SrsRtcPlayStream::SrsRtcPlayStream (this=0x5555562bb690,
s=0x5555562d43e0, cid=...) at src/app/srs_app_rtc_conn.cpp:369
369 SrsRtcPlayStream::SrsRtcPlayStream(SrsRtcConnection* s, const SrsContextId& cid)
(gdb) bt
#0 SrsRtcPlayStream::SrsRtcPlayStream (this=0x5555562bb690, s=0x5555562d43e0, cid=...)
at src/app/srs_app_rtc_conn.cpp:369
#1 0x00005555557ee77b in SrsRtcConnection::create_player (this=0x5555562d43e0,
req=0x5555562a3970,
sub_relations=std::map with 2 elements = {...}) at src/app/srs_app_rtc_conn.cpp:3415
#2 0x00005555557e4912 in SrsRtcConnection::add_player (this=0x5555562d43e0,
ruc=0x55555631c020, local_sdp=...)
at src/app/srs_app_rtc_conn.cpp:1930
#3 0x000055555581bfa7 in SrsRtcServer::do_create_session (this=0x5555560b4fe0,
ruc=0x55555631c020, local_sdp=...,
session=0x5555562d43e0) at src/app/srs_app_rtc_server.cpp:505
```

```

#4 0x000055555581bdba in SrsRtcServer::create_session (this=0x5555560b4fe0,
ruc=0x55555631c020, local_sdp=...,
    psession=0x55555631b930) at src/app/srs_app_rtc_server.cpp:483
#5 0x00005555558323f8 in SrsGoApiRtcPlay::do_serve_http (this=0x555556104cc0,
w=0x55555631c6c0, r=0x55555634ff10, res=
    0x5555562ce6d0) at src/app/srs_app_rtc_api.cpp:201
#6 0x0000555555831016 in SrsGoApiRtcPlay::serve_http (this=0x555556104cc0,
w=0x55555631c6c0, r=0x55555634ff10)
    at src/app/srs_app_rtc_api.cpp:65
#7 0x0000555555697a5d in SrsHttpServeMux::serve_http (this=0x5555560b4690,
w=0x55555631c6c0, r=0x55555634ff10)
    at src/protocol/srs_http_stack.cpp:730
#8 0x000055555569884e in SrsHttpCorsMux::serve_http (this=0x55555629f280,
w=0x55555631c6c0, r=0x55555634ff10)
    at src/protocol/srs_http_stack.cpp:878
#9 0x000055555577b1e4 in SrsHttpConn::process_request (this=0x5555562bbc70,
w=0x55555631c6c0, r=0x55555634ff10, rid=1)
    at src/app/srs_app_http_conn.cpp:250
#10 0x000055555577ae29 in SrsHttpConn::process_requests (this=0x5555562bbc70,
preq=0x55555631c798)
    at src/app/srs_app_http_conn.cpp:223
#11 0x000055555577a9af in SrsHttpConn::do_cycle (this=0x5555562bbc70) at
src/app/srs_app_http_conn.cpp:177
#12 0x000055555577a3a4 in SrsHttpConn::cycle (this=0x5555562bbc70) at
src/app/srs_app_http_conn.cpp:122
#13 0x000055555571380a in SrsFastCoroutine::cycle (this=0x5555562bbac0) at
src/app/srs_app_st.cpp:270
#14 0x00005555557138a6 in SrsFastCoroutine::pfm (arg=0x5555562bbac0) at
src/app/srs_app_st.cpp:285
#15 0x000055555583bc48 in _st_thread_main () at sched.c:363

```

SrsGoApiRtcPlay::SrsGoApiRtcPlay 处理rtc play

```

Breakpoint 2, SrsGoApiRtcPlay::SrsGoApiRtcPlay (this=0x105e1a0, server=0xf5c410) at
src/app/srs_app_rtc_api.cpp:3939 SrsGoApiRtcPlay::SrsGoApiRtcPlay(SrsRtcServer* server)
(gdb) bt
#0 SrsGoApiRtcPlay::SrsGoApiRtcPlay (this=0x105e1a0, server=0xf5c410) at
src/app/srs_app_rtc_api.cpp:39
#1 0x0000000000644e74 in SrsRtcServer::listen_api (this=0xf5c410) at
src/app/srs_app_rtc_server.cpp:447

```

```
#2 0x0000000000647037 in RtcServerAdapter::run (this=0xf5c3f0) at
src/app/srs_app_rtc_server.cpp:714
#3 0x00000000005fe884 in SrsHybridServer::run (this=0xf575c0) at
src/app/srs_app_hybrid.cpp:288
#4 0x00000000006a6e7d in run_hybrid_server () at src/main/srs_main_server.cpp:495
#5 0x00000000006a69b8 in run_directly_or_daemon () at src/main/srs_main_server.cpp:425
#6 0x00000000006a5385 in do_main (argc=3, argv=0x7fffffffe408) at
src/main/srs_main_server.cpp:219
#7 0x00000000006a5530 in main (argc=3, argv=0x7fffffffe408) at
src/main/srs_main_server.cpp:228
```

SrsRtcConnection::SrsRtcConnection

// 创建连接 类似客户端RTCPeerConnection

Breakpoint 3, SrsRtcConnection::SrsRtcConnection (this=0x1188360, s=0xf5c410, cid=...) at
src/app/srs_app_rtc_conn.cpp:1679
SrsRtcConnection::SrsRtcConnection(SrsRtcServer* s,
const SrsContextId& cid)

(gdb) bt

```
#0 SrsRtcConnection::SrsRtcConnection (this=0x1188360, s=0xf5c410, cid=...) at
src/app/srs_app_rtc_conn.cpp:1679
#1 0x000000000064520d in SrsRtcServer::create_session (this=0xf5c410, ruc=0x1182600,
local_sdp=..., psession=0x1181a30)
    at src/app/srs_app_rtc_server.cpp:482
#2 0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x1182cd0,
r=0x11868b0, res=0x11851a0) at src/app/srs_app_rtc_api.cpp:201
#3 0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x1182cd0,
r=0x11868b0) at src/app/srs_app_rtc_api.cpp:65
#4 0x00000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x1182cd0,
r=0x11868b0) at src/protocol/srs_http_stack.cpp:730
#5 0x00000000004baaba in SrsHttpCorsMux::serve_http (this=0x115cf60, w=0x1182cd0,
r=0x11868b0) at src/protocol/srs_http_stack.cpp:878
#6 0x00000000005a2197 in SrsHttpConn::process_request (this=0x1171d90, w=0x1182cd0,
r=0x11868b0, rid=1) at src/app/srs_app_http_conn.cpp:250
#7 0x00000000005a1df2 in SrsHttpConn::process_requests (this=0x1171d90, preq=0x1182da8)
    at src/app/srs_app_http_conn.cpp:223
#8 0x00000000005a1992 in SrsHttpConn::do_cycle (this=0x1171d90) at
src/app/srs_app_http_conn.cpp:177
#9 0x00000000005a13b5 in SrsHttpConn::cycle (this=0x1171d90) at
src/app/srs_app_http_conn.cpp:122
```

```
#10 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x1172000) at
src/app/srs_app_st.cpp:270
#11 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x1172000) at
src/app/srs_app_st.cpp:285
#12 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#13 0x00000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x1172000, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
```

SrsRtcServer::do_create_session 负责创建RTCCConnection以及初始化sdp

```
Breakpoint 4, SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x1163a40, local_sdp=...,
session=0x1175210) at src/app/srs_app_rtc_server.cpp:494494      {
(gdb) bt
#0  SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x1163a40, local_sdp=...,
session=0x1175210) at src/app/srs_app_rtc_server.cpp:494
#1  0x0000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., psession=0x1162e70)
    at src/app/srs_app_rtc_server.cpp:483
#2  0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50, res=0x114cba0) at src/app/srs_app_rtc_api.cpp:201
#3  0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50) at src/app/srs_app_rtc_api.cpp:65
#4  0x00000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:730
#5  0x00000000004baaba in SrsHttpCorsMux::serve_http (this=0x10bf1e0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:878
#6  0x00000000005a2197 in SrsHttpConn::process_request (this=0x114b5a0, w=0x1164110,
r=0x116fb50, rid=1) at src/app/srs_app_http_conn.cpp:250
#7  0x00000000005a1df2 in SrsHttpConn::process_requests (this=0x114b5a0, preq=0x11641e8)
at src/app/srs_app_http_conn.cpp:223
#8  0x00000000005a1992 in SrsHttpConn::do_cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:177
#9  0x00000000005a13b5 in SrsHttpConn::cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:122
#10 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x11459b0) at
src/app/srs_app_st.cpp:270
#11 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x11459b0) at
src/app/srs_app_st.cpp:285
#12 0x00000000006a7a99 in _st_thread_main () at sched.c:363
```

#13 0x000000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x11459b0, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

SrsRtcPlayStream::SrsRtcPlayStream player需要对应playstream

Breakpoint 8, SrsRtcPlayStream::SrsRtcPlayStream (this=0x1172300, s=0x1175210, cid=...) at
src/app/srs_app_rtc_conn.cpp:369369
SrsRtcPlayStream::SrsRtcPlayStream(SrsRtcConnection* s, const SrsContextId& cid)
(gdb) bt
#0 SrsRtcPlayStream::SrsRtcPlayStream (this=0x1172300, s=0x1175210, cid=...) at
src/app/srs_app_rtc_conn.cpp:369
#1 0x00000000000615d11 in SrsRtcConnection::create_player (this=0x1175210, req=0x1171030,
sub_relations=std::map with 2 elements = {...})
at src/app/srs_app_rtc_conn.cpp:3415
#2 0x0000000000060c0be in SrsRtcConnection::add_player (this=0x1175210, ruc=0x1163a40,
local_sdp=...) at src/app/srs_app_rtc_conn.cpp:1930
#3 0x00000000000645412 in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., session=0x1175210)
at src/app/srs_app_rtc_server.cpp:505
#4 0x00000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., psession=0x1162e70)
at src/app/srs_app_rtc_server.cpp:483
#5 0x0000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50, res=0x114cba0) at src/app/srs_app_rtc_api.cpp:201
#6 0x0000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50) at src/app/srs_app_rtc_api.cpp:65
#7 0x000000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:730
#8 0x000000000004baaba in SrsHttpCorsMux::serve_http (this=0x10bf1e0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:878
#9 0x000000000005a2197 in SrsHttpConn::process_request (this=0x114b5a0, w=0x1164110,
r=0x116fb50, rid=1) at src/app/srs_app_http_conn.cpp:250
#10 0x000000000005a1df2 in SrsHttpConn::process_requests (this=0x114b5a0, preq=0x11641e8)
at src/app/srs_app_http_conn.cpp:223
#11 0x000000000005a1992 in SrsHttpConn::do_cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:177
#12 0x000000000005a13b5 in SrsHttpConn::cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:122

#13 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x11459b0) at
src/app/srs_app_st.cpp:270
#14 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x11459b0) at
src/app/srs_app_st.cpp:285
#15 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#16 0x00000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x11459b0, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

SrsRtcSendTrack::SrsRtcSendTrack

Breakpoint 7, SrsRtcSendTrack::SrsRtcSendTrack (this=0x1172620, session=0x1175210,
track_desc=0x1175fb0, is_audio=true) at src/app/srs_app_rtc_source.cpp:2444

2444 SrsRtcSendTrack::SrsRtcSendTrack(SrsRtcConnection* session,
SrsRtcTrackDescription* track_desc, bool is_audio)

(gdb) bt

#0 SrsRtcSendTrack::SrsRtcSendTrack (this=0x1172620, session=0x1175210,
track_desc=0x1175fb0, is_audio=true) at src/app/srs_app_rtc_source.cpp:2444
#1 0x0000000000653f77 in SrsRtcAudioSendTrack::SrsRtcAudioSendTrack (this=0x1172620,
session=0x1175210, track_desc=0x1175fb0)
at src/app/srs_app_rtc_source.cpp:2562
#2 0x0000000000603aa4 in SrsRtcPlayStream::initialize (this=0x1172300, req=0x1171030,
sub_relations=std::map with 2 elements = {...})
at src/app/srs_app_rtc_conn.cpp:438
#3 0x0000000000615d51 in SrsRtcConnection::create_player (this=0x1175210, req=0x1171030,
sub_relations=std::map with 2 elements = {...})
at src/app/srs_app_rtc_conn.cpp:3416
#4 0x000000000060c0be in SrsRtcConnection::add_player (this=0x1175210, ruc=0x1163a40,
local_sdp=...) at src/app/srs_app_rtc_conn.cpp:1930
#5 0x0000000000645412 in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., session=0x1175210)
at src/app/srs_app_rtc_server.cpp:505
#6 0x0000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., psession=0x1162e70)
at src/app/srs_app_rtc_server.cpp:483
#7 0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50, res=0x114cba0) at src/app/srs_app_rtc_api.cpp:201
#8 0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50) at src/app/srs_app_rtc_api.cpp:65


```

#9 0x000000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:730
#10 0x000000000004baaba in SrsHttpCorsMux::serve_http (this=0x10bf1e0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:878
#11 0x000000000005a2197 in SrsHttpConn::process_request (this=0x114b5a0, w=0x1164110,
r=0x116fb50, rid=1) at src/app/srs_app_http_conn.cpp:250
#12 0x000000000005a1df2 in SrsHttpConn::process_requests (this=0x114b5a0, preq=0x11641e8)
at src/app/srs_app_http_conn.cpp:223
#13 0x000000000005a1992 in SrsHttpConn::do_cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:177
#14 0x000000000005a13b5 in SrsHttpConn::cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:122
#15 0x000000000005375e2 in SrsFastCoroutine::cycle (this=0x11459b0) at
src/app/srs_app_st.cpp:270
#16 0x00000000000537678 in SrsFastCoroutine::pfn (arg=0x11459b0) at
src/app/srs_app_st.cpp:285
#17 0x000000000006a7a99 in _st_thread_main () at sched.c:363

```

SrsRtcSendTrack::SrsRtcSendTrack

Breakpoint 7, SrsRtcSendTrack::SrsRtcSendTrack (this=0x1167fe0, session=0x1175210, track_desc=0x11727f0, is_audio=false) at src/app/srs_app_rtc_source.cpp:2444

```

2444 SrsRtcSendTrack::SrsRtcSendTrack(SrsRtcConnection* session,
SrsRtcTrackDescription* track_desc, bool is_audio)

```

(gdb) bt

```

#0 SrsRtcSendTrack::SrsRtcSendTrack (this=0x1167fe0, session=0x1175210,
track_desc=0x11727f0, is_audio=false) at src/app/srs_app_rtc_source.cpp:2444
#1 0x000000000006541c5 in SrsRtcVideoSendTrack::SrsRtcVideoSendTrack (this=0x1167fe0,
session=0x1175210, track_desc=0x11727f0)
    at src/app/srs_app_rtc_source.cpp:2606
#2 0x00000000000603b45 in SrsRtcPlayStream::initialize (this=0x1172300, req=0x1171030,
sub_relations=std::map with 2 elements = {...})
    at src/app/srs_app_rtc_conn.cpp:443
#3 0x00000000000615d51 in SrsRtcConnection::create_player (this=0x1175210, req=0x1171030,
sub_relations=std::map with 2 elements = {...})
    at src/app/srs_app_rtc_conn.cpp:3416
#4 0x0000000000060c0be in SrsRtcConnection::add_player (this=0x1175210, ruc=0x1163a40,
local_sdp=...) at src/app/srs_app_rtc_conn.cpp:1930
#5 0x00000000000645412 in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., session=0x1175210)

```

```

at src/app/srs_app_rtc_server.cpp:505
#6 0x0000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x1163a40,
local_sdp=..., psession=0x1162e70)
at src/app/srs_app_rtc_server.cpp:483
#7 0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50, res=0x114cba0) at src/app/srs_app_rtc_api.cpp:201
#8 0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x1164110,
r=0x116fb50) at src/app/srs_app_rtc_api.cpp:65
#9 0x00000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:730
#10 0x00000000004baaba in SrsHttpCorsMux::serve_http (this=0x10bf1e0, w=0x1164110,
r=0x116fb50) at src/protocol/srs_http_stack.cpp:878
#11 0x00000000005a2197 in SrsHttpConn::process_request (this=0x114b5a0, w=0x1164110,
r=0x116fb50, rid=1) at src/app/srs_app_http_conn.cpp:250
#12 0x00000000005a1df2 in SrsHttpConn::process_requests (this=0x114b5a0, preq=0x11641e8)
at src/app/srs_app_http_conn.cpp:223
#13 0x00000000005a1992 in SrsHttpConn::do_cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:177
#14 0x00000000005a13b5 in SrsHttpConn::cycle (this=0x114b5a0) at
src/app/srs_app_http_conn.cpp:122
#15 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x11459b0) at
src/app/srs_app_st.cpp:270
#16 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x11459b0) at
src/app/srs_app_st.cpp:285
#17 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#18 0x00000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x11459b0, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

```

SrsRtcConsumer::SrsRtcConsumer

```

Breakpoint 9, SrsRtcConsumer::SrsRtcConsumer (this=0x114ce10, s=0x10bf590) at
src/app/srs_app_rtc_source.cpp:163163 SrsRtcConsumer::SrsRtcConsumer(SrsRtcSource* s)
(gdb) bt
#0 SrsRtcConsumer::SrsRtcConsumer (this=0x114ce10, s=0x10bf590) at
src/app/srs_app_rtc_source.cpp:163
#1 0x000000000064a019 in SrsRtcSource::create_consumer (this=0x10bf590,
consumer=@0x11640d8: 0x0) at src/app/srs_app_rtc_source.cpp:482
#2 0x00000000006046ed in SrsRtcPlayStream::cycle (this=0x1172300) at
src/app/srs_app_rtc_conn.cpp:563

```

```

#3 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x114ccf0) at
src/app/srs_app_st.cpp:270
#4 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x114ccf0) at
src/app/srs_app_st.cpp:285
#5 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#6 0x00000000006a8316 in st_thread_create (start=0x0, arg=0x114ccf0, joinable=0,
stk_size=18292560) at sched.c:694
#7 0x0000000000602c41 in SrsRtcPLIWorker::start (this=0x1171ef0) at
src/app/srs_app_rtc_conn.cpp:325
#8 0x00000000006044f5 in SrsRtcPlayStream::start (this=0x1172300) at
src/app/srs_app_rtc_conn.cpp:533
#9 0x000000000060d9a8 in SrsRtcConnection::on_connection_established (this=0x1175210) at
src/app/srs_app_rtc_conn.cpp:2205
#10 0x00000000006022ac in SrsSecurityTransport::on_dtls_handshake_done (this=0x11712d0)
at src/app/srs_app_rtc_conn.cpp:164
#11 0x00000000006364af in SrsDtlsServerImpl::on_handshake_done (this=0x116d810) at
src/app/srs_app_rtc_dtls.cpp:952
#12 0x0000000000634d25 in SrsDtlsImpl::do_handshake (this=0x116d810) at
src/app/srs_app_rtc_dtls.cpp:619
#13 0x000000000063466d in SrsDtlsImpl::do_on_dtls (this=<error reading variable: Cannot
access memory at address 0xffffffffffffdb1>,
    data=<error reading variable: Cannot access memory at address 0xffffffffffffdfa9>,
    nb_data=<error reading variable: Cannot access memory at address 0xffffffffffffdfa5>) at
src/app/srs_app_rtc_dtls.cpp:534
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

```

SrsRtcSSRCGenerator::generate_ssrc

```

Breakpoint 7, SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670      if (!ssrc_num) {
(gdb) bt
#0 SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670
#1 0x0000000000649973 in SrsRtcSource::init_for_play_before_publishing (this=0x10bf5f0) at
src/app/srs_app_rtc_source.cpp:396
#2 0x000000000064983e in SrsRtcSource::initialize (this=0x10bf5f0, r=0x10aaee0) at
src/app/srs_app_rtc_source.cpp:372
#3 0x00000000006490da in SrsRtcSourceManager::fetch_or_create (this=0xf57bc0,
r=0x10aaee0, pps=0x10bb6f8) at src/app/srs_app_rtc_source.cpp:283
#4 0x00000000005057cd in SrsRtmpConn::acquire_publish (this=0x10811f0,
source=0x10bd790) at src/app/srs_app_rtmp_conn.cpp:981

```

#5 0x0000000000504835 in SrsRtmpConn::publishing (this=0x10811f0, source=0x10bd790) at
src/app/srs_app_rtmp_conn.cpp:856
#6 0x0000000000501de4 in SrsRtmpConn::stream_service_cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:566
#7 0x0000000000500b16 in SrsRtmpConn::service_cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:420
#8 0x00000000004ff5d5 in SrsRtmpConn::do_cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:233
#9 0x0000000000508489 in SrsRtmpConn::cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:1485
#10 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x1081570) at
src/app/srs_app_st.cpp:270
#11 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x1081570) at
src/app/srs_app_st.cpp:285
#12 0x00000000006a7a99 in _st_thread_main () at sched.c:363

Breakpoint 7, SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670 if (!ssrc_num) {
(gdb) bt

#0 SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670
#1 0x0000000000649ae7 in SrsRtcSource::init_for_play_before_publishing (this=0x10bf5f0) at
src/app/srs_app_rtc_source.cpp:411
#2 0x000000000064983e in SrsRtcSource::initialize (this=0x10bf5f0, r=0x10aaee0) at
src/app/srs_app_rtc_source.cpp:372
#3 0x00000000006490da in SrsRtcSourceManager::fetch_or_create (this=0xf57bc0,
r=0x10aaee0, pps=0x10bb6f8) at src/app/srs_app_rtc_source.cpp:283
#4 0x00000000005057cd in SrsRtmpConn::acquire_publish (this=0x10811f0,
source=0x10bd790) at src/app/srs_app_rtmp_conn.cpp:981
#5 0x0000000000504835 in SrsRtmpConn::publishing (this=0x10811f0, source=0x10bd790) at
src/app/srs_app_rtmp_conn.cpp:856
#6 0x0000000000501de4 in SrsRtmpConn::stream_service_cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:566
#7 0x0000000000500b16 in SrsRtmpConn::service_cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:420
#8 0x00000000004ff5d5 in SrsRtmpConn::do_cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:233
#9 0x0000000000508489 in SrsRtmpConn::cycle (this=0x10811f0) at
src/app/srs_app_rtmp_conn.cpp:1485

```
#10 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x1081570) at
src/app/srs_app_st.cpp:270
#11 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x1081570) at
src/app/srs_app_st.cpp:285
#12 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#13 0x00000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x1081570, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
```

```
Breakpoint 7, SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670      if (!ssrc_num) {
(gdb) bt
```

```
#0 SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670
#1 0x00000000006133e5 in SrsRtcConnection::negotiate_play_capability (this=0x1193af0,
ruc=0x118dc00, sub_relations=std::map with 0 elements)
    at src/app/srs_app_rtc_conn.cpp:3159
#2 0x000000000060be33 in SrsRtcConnection::add_player (this=0x1193af0, ruc=0x118dc00,
local_sdp=...) at src/app/srs_app_rtc_conn.cpp:1901
#3 0x0000000000645412 in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x118dc00,
local_sdp=..., session=0x1193af0)
    at src/app/srs_app_rtc_server.cpp:505
#4 0x0000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x118dc00,
local_sdp=..., psession=0x118d030)
    at src/app/srs_app_rtc_server.cpp:483
#5 0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x118e2d0,
r=0x1192040, res=0x1190930) at src/app/srs_app_rtc_api.cpp:201
#6 0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x118e2d0,
r=0x1192040) at src/app/srs_app_rtc_api.cpp:65
#7 0x00000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x118e2d0,
r=0x1192040) at src/protocol/srs_http_stack.cpp:730
#8 0x00000000004baaba in SrsHttpCorsMux::serve_http (this=0x114a920, w=0x118e2d0,
r=0x1192040) at src/protocol/srs_http_stack.cpp:878
#9 0x00000000005a2197 in SrsHttpConn::process_request (this=0x117a000, w=0x118e2d0,
r=0x1192040, rid=1) at src/app/srs_app_http_conn.cpp:250
#10 0x00000000005a1df2 in SrsHttpConn::process_requests (this=0x117a000, preq=0x118e3a8)
    at src/app/srs_app_http_conn.cpp:223
#11 0x00000000005a1992 in SrsHttpConn::do_cycle (this=0x117a000) at
src/app/srs_app_http_conn.cpp:177
```

```
#12 0x000000000005a13b5 in SrsHttpConn::cycle (this=0x117a000) at
src/app/srs_app_http_conn.cpp:122
#13 0x000000000005375e2 in SrsFastCoroutine::cycle (this=0x117d740) at
src/app/srs_app_st.cpp:270
#14 0x00000000000537678 in SrsFastCoroutine::pfn (arg=0x117d740) at
src/app/srs_app_st.cpp:285
#15 0x000000000006a7a99 in _st_thread_main () at sched.c:363
#16 0x000000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x117d740, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
```

SrsRtcSSRCGenerator::generate_ssrc

```
Breakpoint 7, SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670      if (!ssrc_num) {
(gdb) bt
#0  SrsRtcSSRCGenerator::generate_ssrc (this=0x1071040) at
src/app/srs_app_rtc_source.cpp:2670
#1  0x000000000006133e5 in SrsRtcConnection::negotiate_play_capability (this=0x1193af0,
ruc=0x118dc00, sub_relations=std::map with 1 elements = {...})
    at src/app/srs_app_rtc_conn.cpp:3159
#2  0x0000000000060be33 in SrsRtcConnection::add_player (this=0x1193af0, ruc=0x118dc00,
local_sdp=...) at src/app/srs_app_rtc_conn.cpp:1901
#3  0x00000000000645412 in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x118dc00,
local_sdp=..., session=0x1193af0)
    at src/app/srs_app_rtc_server.cpp:505
#4  0x00000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x118dc00,
local_sdp=..., psession=0x118d030)
    at src/app/srs_app_rtc_server.cpp:483
#5  0x0000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x118e2d0,
r=0x1192040, res=0x1190930) at src/app/srs_app_rtc_api.cpp:201
#6  0x0000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x118e2d0,
r=0x1192040) at src/app/srs_app_rtc_api.cpp:65
#7  0x000000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x118e2d0,
r=0x1192040) at src/protocol/srs_http_stack.cpp:730
#8  0x000000000004baaba in SrsHttpCorsMux::serve_http (this=0x114a920, w=0x118e2d0,
r=0x1192040) at src/protocol/srs_http_stack.cpp:878
#9  0x000000000005a2197 in SrsHttpConn::process_request (this=0x117a000, w=0x118e2d0,
r=0x1192040, rid=1) at src/app/srs_app_http_conn.cpp:250
#10 0x000000000005a1df2 in SrsHttpConn::process_requests (this=0x117a000, preq=0x118e3a8)
    at src/app/srs_app_http_conn.cpp:223
```

```

#11 0x000000000005a1992 in SrsHttpConn::do_cycle (this=0x117a000) at
src/app/srs_app_http_conn.cpp:177
#12 0x000000000005a13b5 in SrsHttpConn::cycle (this=0x117a000) at
src/app/srs_app_http_conn.cpp:122
#13 0x000000000005375e2 in SrsFastCoroutine::cycle (this=0x117d740) at
src/app/srs_app_st.cpp:270
#14 0x00000000000537678 in SrsFastCoroutine::pfn (arg=0x117d740) at
src/app/srs_app_st.cpp:285
#15 0x000000000006a7a99 in _st_thread_main () at sched.c:363
#16 0x000000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x117d740, joinable=1, stk_size=65536) at sched.c:694
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

```

SrsRtcPlayStream::start

```

reakpoint 4, SrsRtcPlayStream::start (this=0x1194970) at src/app/srs_app_rtc_conn.cpp:516516
{
(gdb) bt
#0  SrsRtcPlayStream::start (this=0x1194970) at src/app/srs_app_rtc_conn.cpp:516
#1  0x0000000000060da86 in SrsRtcConnection::on_connection_established (this=0x1193af0) at
src/app/srs_app_rtc_conn.cpp:2211
#2  0x000000000006022ac in SrsSecurityTransport::on_dtls_handshake_done (this=0x1196340)
at src/app/srs_app_rtc_conn.cpp:164
#3  0x000000000006364af in SrsDtlsServerImpl::on_handshake_done (this=0x1196d80) at
src/app/srs_app_rtc_dtls.cpp:952
#4  0x00000000000634d25 in SrsDtlsImpl::do_handshake (this=0x1196d80) at
src/app/srs_app_rtc_dtls.cpp:619
#5  0x000000000006345fd in SrsDtlsImpl::do_on_dtls (this=0x1196d80, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_dtls.cpp:528
#6  0x0000000000063436d in SrsDtlsImpl::on_dtls (this=0x1196d80, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_dtls.cpp:491
#7  0x00000000000636933 in SrsDtls::on_dtls (this=0x114d820, data=0x1071150 "\026\376",
<incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_dtls.cpp:1047
#8  0x000000000006020dd in SrsSecurityTransport::on_dtls (this=0x1196340, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_conn.cpp:140

```

```

#9 0x000000000060c799 in SrsRtcConnection::on_dtls (this=0x1193af0, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_conn.cpp:1997
#10 0x0000000000644ce9 in SrsRtcServer::on_udp_packet (this=0xf5c410,
skt=0x7ffff7fd2b80) at src/app/srs_app_rtc_server.cpp:435
#11 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#12 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#13 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#14 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#15 0x00000000006a8316 in st_thread_create (start=0x7ffffffdddf0, arg=0x12000,
joinable=32767, stk_size=-152012000) at sched.c:694
#16 0x00007ffff6f07b20 in ?? () from /lib/x86_64-linux-gnu/libc.so.6

```

SrsRtcPlayStream::start

```

Breakpoint 4, SrsRtcPlayStream::start (this=0x1194970) at
src/app/srs_app_rtc_conn.cpp:516516  {
(gdb) bt
#0 SrsRtcPlayStream::start (this=0x1194970) at src/app/srs_app_rtc_conn.cpp:516
#1 0x000000000060da86 in SrsRtcConnection::on_connection_established (this=0x1193af0) at
src/app/srs_app_rtc_conn.cpp:2211
#2 0x00000000006022ac in SrsSecurityTransport::on_dtls_handshake_done (this=0x1196340)
at src/app/srs_app_rtc_conn.cpp:164
#3 0x00000000006364af in SrsDtlsServerImpl::on_handshake_done (this=0x1196d80) at
src/app/srs_app_rtc_dtls.cpp:952
#4 0x0000000000634d25 in SrsDtlsImpl::do_handshake (this=0x1196d80) at
src/app/srs_app_rtc_dtls.cpp:619
#5 0x00000000006345fd in SrsDtlsImpl::do_on_dtls (this=0x1196d80, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_dtls.cpp:528
#6 0x000000000063436d in SrsDtlsImpl::on_dtls (this=0x1196d80, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_dtls.cpp:491
#7 0x0000000000636933 in SrsDtls::on_dtls (this=0x114d820, data=0x1071150 "\026\376",
<incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_dtls.cpp:1047

```



```

#8 0x00000000006020dd in SrsSecurityTransport::on_dtls (this=0x1196340, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_conn.cpp:140
#9 0x000000000060c799 in SrsRtcConnection::on_dtls (this=0x1193af0, data=0x1071150
"\026\376", <incomplete sequence \375>, nb_data=579)
    at src/app/srs_app_rtc_conn.cpp:1997
#10 0x0000000000644ce9 in SrsRtcServer::on_udp_packet (this=0xf5c410,
skt=0x7ffff7fd2b80) at src/app/srs_app_rtc_server.cpp:435
#11 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#12 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#13 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#14 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#15 0x00000000006a8316 in st_thread_create (start=0x7fffffffddf0, arg=0x12000,
joinable=32767, stk_size=-152012000) at sched.c:694
#16 0x00007ffff6f07b20 in ?? () from /lib/x86_64-linux-gnu/libc.so.6

```

SrsRtcConsumer::dump_packet

```

Breakpoint 6, SrsRtcConsumer::dump_packet (this=0x1195390, ppkt=0x7ffff7f8fae8) at
src/app/srs_app_rtc_source.cpp:210210 {
(gdb) bt
#0 SrsRtcConsumer::dump_packet (this=0x1195390, ppkt=0x7ffff7f8fae8) at
src/app/srs_app_rtc_source.cpp:210
#1 0x0000000000604c72 in SrsRtcPlayStream::cycle (this=0x1194970) at
src/app/srs_app_rtc_conn.cpp:599
#2 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x111f5c0) at
src/app/srs_app_st.cpp:270
#3 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x111f5c0) at
src/app/srs_app_st.cpp:285
#4 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#5 0x00000000006a8316 in st_thread_create (start=0x0, arg=0x111f5c0, joinable=0,
stk_size=18435616) at sched.c:694
#6 0x0000000000602c41 in SrsRtcPLIWorker::start (this=0x1194fd0) at
src/app/srs_app_rtc_conn.cpp:325
#7 0x00000000006044f5 in SrsRtcPlayStream::start (this=0x1194970) at
src/app/srs_app_rtc_conn.cpp:533

```

#8 0x000000000060d9a8 in SrsRtcConnection::on_connection_established (this=0x1193af0) at
src/app/srs_app_rtc_conn.cpp:2205
#9 0x00000000006022ac in SrsSecurityTransport::on_dtls_handshake_done (this=0x1196340)
at src/app/srs_app_rtc_conn.cpp:164
#10 0x00000000006364af in SrsDtlsServerImpl::on_handshake_done (this=0x1196d80) at
src/app/srs_app_rtc_dtls.cpp:952
#11 0x0000000000634d25 in SrsDtlsImpl::do_handshake (this=0x1196d80) at
src/app/srs_app_rtc_dtls.cpp:619
#12 0x000000000063466d in SrsDtlsImpl::do_on_dtls (this=<error reading variable: Cannot
access memory at address 0xfffffffffffffb1>,
data=<error reading variable: Cannot access memory at address 0xffffffffffffdfa9>,
nb_data=<error reading variable: Cannot access memory at address 0xffffffffffffdfa5>) at
src/app/srs_app_rtc_dtls.cpp:534
Backtrace stopped: previous frame inner to this frame (corrupt stack?)

SrsRtcConnection::negotiate_play_capability

#0 SrsRtcConnection::negotiate_play_capability (this=0x1164ad0, ruc=0x11c5d00,
sub_relations=std::map with 0 elements) at src/app/srs_app_rtc_conn.cpp:3049
#1 0x000000000060be33 in SrsRtcConnection::add_player (this=0x1164ad0, ruc=0x11c5d00,
local_sdp=...)
at src/app/srs_app_rtc_conn.cpp:1901
#2 0x0000000000645412 in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x11c5d00,
local_sdp=..., session=0x1164ad0)
at src/app/srs_app_rtc_server.cpp:505
#3 0x0000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x11c5d00,
local_sdp=..., psession=0x11c5130)
at src/app/srs_app_rtc_server.cpp:483
#4 0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x11c63d0,
r=0x112cdd0, res=0x1197370)
at src/app/srs_app_rtc_api.cpp:201
#5 0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x11c63d0,
r=0x112cdd0)
at src/app/srs_app_rtc_api.cpp:65
#6 0x00000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x11c63d0,
r=0x112cdd0)
at src/protocol/srs_http_stack.cpp:730
#7 0x00000000004baaba in SrsHttpCorsMux::serve_http (this=0x10ab070, w=0x11c63d0,
r=0x112cdd0)

```

    at src/protocol/srs_http_stack.cpp:878
#8 0x00000000005a2197 in SrsHttpConn::process_request (this=0x111f9d0, w=0x11c63d0,
r=0x112cdd0, rid=0)
    at src/app/srs_app_http_conn.cpp:250
#9 0x00000000005a1df2 in SrsHttpConn::process_requests (this=0x111f9d0, preq=0x11c64a8)
    at src/app/srs_app_http_conn.cpp:223
#10 0x00000000005a1992 in SrsHttpConn::do_cycle (this=0x111f9d0) at
src/app/srs_app_http_conn.cpp:177
#11 0x00000000005a13b5 in SrsHttpConn::cycle (this=0x111f9d0) at
src/app/srs_app_http_conn.cpp:122
#12 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x1160280) at
src/app/srs_app_st.cpp:270
#13 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x1160280) at
src/app/srs_app_st.cpp:285
#14 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#15 0x00000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x1160280, joinable=1,
stk_size=65536) at sched.c:694

```

SrsResourceManager::add

rtmp

```

#0 SrsResourceManager::add (this=0xf5a5e0, conn=0x10811f0, exists=0x0) at
src/app/srs_app_conn.cpp:130#1 0x00000000004f06a7 in SrsServer::accept_client
(this=0xf5bf50, type=SrsListenerRtmpStream, stfd=0x10811c0)
    at src/app/srs_app_server.cpp:1582
#2 0x00000000004e6c08 in SrsBufferListener::on_tcp_client (this=0xfa98a0, stfd=0x10811c0)
at src/app/srs_app_server.cpp:134
#3 0x00000000005ddd55 in SrsTcpListener::cycle (this=0xfa9ad0) at
src/app/srs_app_listener.cpp:287
#4 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0xfa9bb0) at
src/app/srs_app_st.cpp:270
#5 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0xfa9bb0) at
src/app/srs_app_st.cpp:285
#6 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#7 0x00000000006a8316 in st_thread_create (start=0x0, arg=0x7fffffffde10, joinable=0,
stk_size=2) at sched.c:694

```

http

```
#0 SrsResourceManager::add (this=0xf5a5e0, conn=0x1195870, exists=0x0) at
src/app/srs_app_conn.cpp:130#1 0x00000000004f06a7 in SrsServer::accept_client
(this=0xf5bf50, type=SrsListenerHttpStream, stfd=0x111f950)
    at src/app/srs_app_server.cpp:1582
#2 0x00000000004e6c08 in SrsBufferListener::on_tcp_client (this=0xfa9a00, stfd=0x111f950)
at src/app/srs_app_server.cpp:134
#3 0x00000000005ddd55 in SrsTcpListener::cycle (this=0xfa9b20) at
src/app/srs_app_listener.cpp:287
#4 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0xfcdcf0) at
src/app/srs_app_st.cpp:270
#5 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0xfcdcf0) at
src/app/srs_app_st.cpp:285
#6 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#7 0x00000000006a8316 in st_thread_create (start=0x2, arg=0x12010, joinable=32767,
stk_size=-152012000) at sched.c:694
#8 0x0000000000012000 in ?? ()
```

```
#0 SrsResourceManager::add (this=0xf5a5e0, conn=0x11631b0, exists=0x0) at
src/app/srs_app_conn.cpp:130#1 0x00000000004f06a7 in SrsServer::accept_client
(this=0xf5bf50, type=SrsListenerHttpApi, stfd=0x111f950)
    at src/app/srs_app_server.cpp:1582
#2 0x00000000004e6c08 in SrsBufferListener::on_tcp_client (this=0xfa4a90, stfd=0x111f950)
at src/app/srs_app_server.cpp:134
#3 0x00000000005ddd55 in SrsTcpListener::cycle (this=0xfa9970) at
src/app/srs_app_listener.cpp:287
#4 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0xfa5630) at
src/app/srs_app_st.cpp:270
#5 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0xfa5630) at
src/app/srs_app_st.cpp:285
#6 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#7 0x00000000006a8316 in st_thread_crea
```

SrsResourceManager::add_with_id

SrsResourceManager::add_with_fast_id

SrsResourceManager::add_with_name

```
#0 SrsResourceManager::add_with_name (this=0xf57c60, name="05701513:owcV",
conn=0x1164ad0) at src/app/srs_app_conn.cpp:181
#1 0x0000000000645d9f in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x11c5d00,
local_sdp=..., session=0x1164ad0)
    at src/app/srs_app_rtc_server.cpp:576
#2 0x0000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x11c5d00,
local_sdp=..., psession=0x11c5130)
    at src/app/srs_app_rtc_server.cpp:483
#3 0x000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x11c63d0,
r=0x112cdd0, res=0x1197370)
    at src/app/srs_app_rtc_api.cpp:201
#4 0x000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x11c63d0,
r=0x112cdd0)
    at src/app/srs_app_rtc_api.cpp:65
#5 0x00000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x11c63d0,
r=0x112cdd0)
    at src/protocol/srs_http_stack.cpp:730
#6 0x00000000004baaba in SrsHttpCorsMux::serve_http (this=0x10ab070, w=0x11c63d0,
r=0x112cdd0)
    at src/protocol/srs_http_stack.cpp:878
#7 0x00000000005a2197 in SrsHttpConn::process_request (this=0x111f9d0, w=0x11c63d0,
r=0x112cdd0, rid=0)
    at src/app/srs_app_http_conn.cpp:250
#8 0x00000000005a1df2 in SrsHttpConn::process_requests (this=0x111f9d0, preq=0x11c64a8)
    at src/app/srs_app_http_conn.cpp:223
#9 0x00000000005a1992 in SrsHttpConn::do_cycle (this=0x111f9d0) at
src/app/srs_app_http_conn.cpp:177
#10 0x00000000005a13b5 in SrsHttpConn::cycle (this=0x111f9d0) at
src/app/srs_app_http_conn.cpp:122
#11 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x1160280) at
src/app/srs_app_st.cpp:270
#12 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x1160280) at
src/app/srs_app_st.cpp:285
#13 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#14 0x00000000006a8316 in st_thread_create (start=0x537658
<SrsFastCoroutine::pfn(void*)>, arg=0x1160280, joinable=1,
    stk_size=65536) at sched.c:694
```

```

#0 SrsResourceManager::add (this=0xf57c60, conn=0x1164ad0, exists=0x0) at
src/app/srs_app_conn.cpp:130#1 0x000000000004f3b22 in
SrsResourceManager::add_with_name (this=0xf57c60, name="05701513:owcV",
conn=0x1164ad0)
    at src/app/srs_app_conn.cpp:181
#2 0x00000000000645d9f in SrsRtcServer::do_create_session (this=0xf5c410, ruc=0x11c5d00,
local_sdp=..., session=0x1164ad0)
    at src/app/srs_app_rtc_server.cpp:576
#3 0x00000000000645232 in SrsRtcServer::create_session (this=0xf5c410, ruc=0x11c5d00,
local_sdp=..., psession=0x11c5130)
    at src/app/srs_app_rtc_server.cpp:483
#4 0x0000000000065be36 in SrsGoApiRtcPlay::do_serve_http (this=0x105e1a0, w=0x11c63d0,
r=0x112cdd0, res=0x1197370)
    at src/app/srs_app_rtc_api.cpp:201
#5 0x0000000000065aaaa in SrsGoApiRtcPlay::serve_http (this=0x105e1a0, w=0x11c63d0,
r=0x112cdd0)
    at src/app/srs_app_rtc_api.cpp:65
#6 0x000000000004b9c7d in SrsHttpServeMux::serve_http (this=0xf5bdb0, w=0x11c63d0,
r=0x112cdd0)
    at src/protocol/srs_http_stack.cpp:730
#7 0x000000000004baaba in SrsHttpCorsMux::serve_http (this=0x10ab070, w=0x11c63d0,
r=0x112cdd0)
    at src/protocol/srs_http_stack.cpp:878
#8 0x000000000005a2197 in SrsHttpConn::process_request (this=0x111f9d0, w=0x11c63d0,
r=0x112cdd0, rid=0)
    at src/app/srs_app_http_conn.cpp:250
#9 0x000000000005a1df2 in SrsHttpConn::process_requests (this=0x111f9d0, preq=0x11c64a8)
    at src/app/srs_app_http_conn.cpp:223

```

```

#0 SrsResourceManager::add_with_id (this=0xf57c60, id="192.168.2.206:60206",
conn=0x1164ad0) at src/app/srs_app_conn.cpp:142
#1 0x0000000000060e47a in SrsRtcConnection::update_sendonly_socket (this=0x1164ad0,
skt=0x7ffff7fd2b80)
    at src/app/srs_app_rtc_conn.cpp:2320
#2 0x0000000000060c6ca in SrsRtcConnection::on_stun (this=0x1164ad0, skt=0x7ffff7fd2b80,
r=0x7ffff7fd2930)
    at src/app/srs_app_rtc_conn.cpp:1981

```

```
#3 0x0000000000644b12 in SrsRtcServer::on_udp_packet (this=0xf5c410, skt=0x7fff7fd2b80)
    at src/app/srs_app_rtc_server.cpp:406
#4 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#5 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#6 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#7 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#8 0x00000000006a8316 in st_thread_create (start=0x7fffffffddfd0, arg=0x12000,
joinable=32767, stk_size=-152012000)
    at sched.c:694
#9 0x00007ffff6f07b20 in ?? () from /lib/x86_64-linux-gnu/libc.so.6
```

```
(gdb) bt#0 SrsResourceManager::add (this=0xf57c60, conn=0x1164ad0, exists=0x0) at
src/app/srs_app_conn.cpp:130
#1 0x00000000004f397c in SrsResourceManager::add_with_id (this=0xf57c60,
id="192.168.2.206:60206", conn=0x1164ad0)
    at src/app/srs_app_conn.cpp:142
#2 0x000000000060e47a in SrsRtcConnection::update_sendonly_socket (this=0x1164ad0,
skt=0x7fff7fd2b80)
    at src/app/srs_app_rtc_conn.cpp:2320
#3 0x000000000060c6ca in SrsRtcConnection::on_stun (this=0x1164ad0, skt=0x7fff7fd2b80,
r=0x7fff7fd2930)
    at src/app/srs_app_rtc_conn.cpp:1981
#4 0x0000000000644b12 in SrsRtcServer::on_udp_packet (this=0xf5c410, skt=0x7fff7fd2b80)
    at src/app/srs_app_rtc_server.cpp:406
#5 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#6 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#7 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#8 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#9 0x00000000006a8316 in st_thread_create (start=0x7fffffffddfd0, arg=0x12000,
joinable=32767, stk_size=-152012000)
    at sched.c:694
```

```
Breakpoint 4, SrsResourceManager::add_with_fast_id (this=0xf57c60,
id=3380795948727969984, conn=0x1164ad0)  at src/app/srs_app_conn.cpp:147
```

```

147 {
(gdb) bt
#0 SrsResourceManager::add_with_fast_id (this=0xf57c60, id=3380795948727969984,
conn=0x1164ad0)
    at src/app/srs_app_conn.cpp:147
#1 0x000000000060e4ba in SrsRtcConnection::update_sendonly_socket (this=0x1164ad0,
skt=0x7ffff7fd2b80)
    at src/app/srs_app_rtc_conn.cpp:2324
#2 0x000000000060c6ca in SrsRtcConnection::on_stun (this=0x1164ad0, skt=0x7ffff7fd2b80,
r=0x7ffff7fd2930)
    at src/app/srs_app_rtc_conn.cpp:1981
#3 0x0000000000644b12 in SrsRtcServer::on_udp_packet (this=0xf5c410, skt=0x7ffff7fd2b80)
    at src/app/srs_app_rtc_server.cpp:406
#4 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#5 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#6 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#7 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#8 0x00000000006a8316 in st_thread_create (start=0x7fffffffddf0, arg=0x12000,
joinable=32767, stk_size=-152012000)
    at sched.c:694

#0 SrsResourceManager::add (this=0xf57c60, conn=0x1164ad0, exists=0x7ffff7fd26cf) at
src/app/srs_app_conn.cpp:130#1 0x00000000004f39e2 in
SrsResourceManager::add_with_fast_id (this=0xf57c60, id=3380795948727969984,
conn=0x1164ad0)
    at src/app/srs_app_conn.cpp:149
#2 0x000000000060e4ba in SrsRtcConnection::update_sendonly_socket (this=0x1164ad0,
skt=0x7ffff7fd2b80)
    at src/app/srs_app_rtc_conn.cpp:2324
#3 0x000000000060c6ca in SrsRtcConnection::on_stun (this=0x1164ad0, skt=0x7ffff7fd2b80,
r=0x7ffff7fd2930)
    at src/app/srs_app_rtc_conn.cpp:1981
#4 0x0000000000644b12 in SrsRtcServer::on_udp_packet (this=0xf5c410, skt=0x7ffff7fd2b80)
    at src/app/srs_app_rtc_server.cpp:406
#5 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636

```


#6 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#7 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#8 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#9 0x00000000006a8316 in st_thread_create (start=0x7fffffffddfd0, arg=0x12000,
joinable=32767, stk_size=-152012000)
at sched.c:694

SrsUdpMuxSocket::SrsUdpMuxSocket

#0 SrsUdpMuxSocket::SrsUdpMuxSocket (this=0x122a2d0, fd=0x105e0b0) at
src/app/srs_app_listener.cpp:295#1 0x00000000005de891 in
SrsUdpMuxSocket::copy_sendonly (this=0x7ffff7fd2b80) at src/app/srs_app_listener.cpp:477
#2 0x000000000060e449 in SrsRtcConnection::update_sendonly_socket (this=0x10c5fc0,
skt=0x7ffff7fd2b80)
at src/app/srs_app_rtc_conn.cpp:2319
#3 0x000000000060c6ca in SrsRtcConnection::on_stun (this=0x10c5fc0, skt=0x7ffff7fd2b80,
r=0x7ffff7fd2930)
at src/app/srs_app_rtc_conn.cpp:1981
#4 0x0000000000644b12 in SrsRtcServer::on_udp_packet (this=0xf5c410, skt=0x7ffff7fd2b80)
at src/app/srs_app_rtc_server.cpp:406
#5 0x00000000005df774 in SrsUdpMuxListener::cycle (this=0x104dfa0) at
src/app/srs_app_listener.cpp:636
#6 0x00000000005375e2 in SrsFastCoroutine::cycle (this=0x105e0e0) at
src/app/srs_app_st.cpp:270
#7 0x0000000000537678 in SrsFastCoroutine::pfn (arg=0x105e0e0) at
src/app/srs_app_st.cpp:285
#8 0x00000000006a7a99 in _st_thread_main () at sched.c:363
#9 0x00000000006a8316 in st_thread_create (start=0x7fffffffddfd0, arg=0x12000,
joinable=32767, stk_size=-152012000)
at sched.c:694

