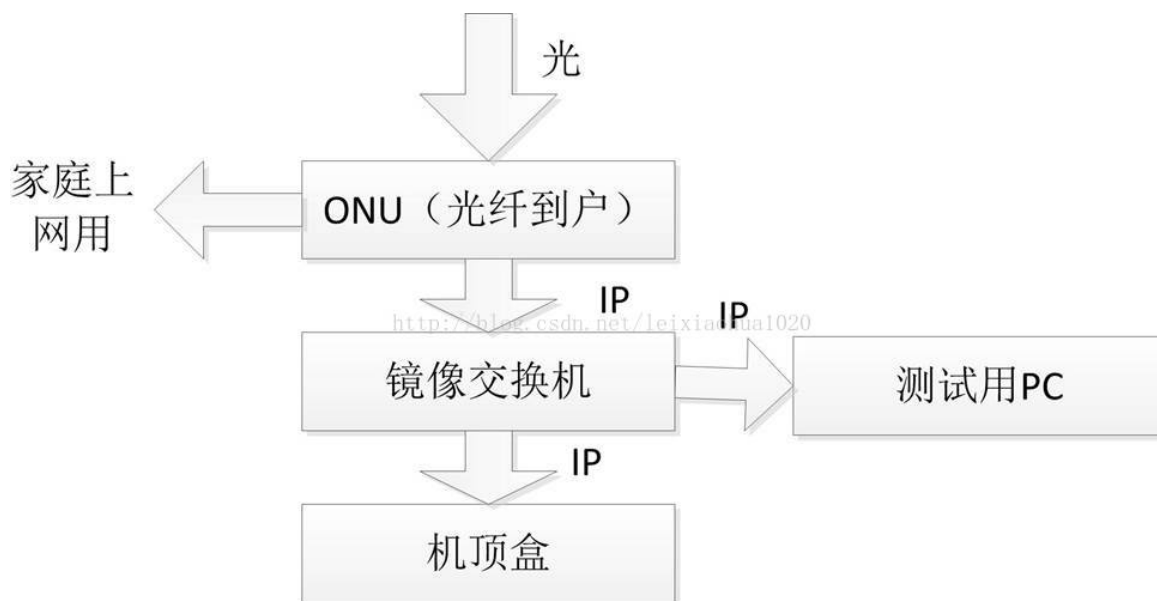


去上海出差的时候，去同学家中采集了一部分百视通的IPTV码流。

具体的方法是通过在机顶盒和电视信号接口ONU之间增加一个镜像路由器，截取数据，再通过Wireshark软件或者自行开发的软件分析数据。



WireShark抓取数据包：

6437	44.359484	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6438	44.359690	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6439	44.361264	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6440	44.363356	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6441	44.363434	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6442	44.365432	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6443	44.367348	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6444	44.367427	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6445	44.369175	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6446	44.373239	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6447	44.373243	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6448	44.373406	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,
6449	44.373410	222.68.197.236	239.45.3.146	RTP	1370 PT=MPEG-II transport streams,

分析结果：

机顶盒

机顶盒实质上是一个网页浏览器，每次开机之后会访问固定的网页，而该网页就是机顶盒的开机界面。

传输方式：UDP组播

rtsp://124.75.34.37/PLTV/88888888/224/0/3221225489/000000000114.smil

rtsp://124.75.34.37/PLTV/88888888/224/0/3221225558/00000000015n.smil

...

数据格式：UDP/RTP/TS

+ Frame 0: 1570 bytes on wire (10500 bits), 1570 bytes captured (10500 bits)	
+	Ethernet II, Src: Cisco_fd:62:80 (00:27:0d:fd:62:80), Dst: IPv4mcast_2d:03:92 (01:00:5e:2d:03:92)
+	Internet Protocol Version 4, Src: 222.68.197.236 (222.68.197.236), Dst: 239.45.3.146 (239.45.3.146)
+	User Datagram Protocol, Src Port: oa-system (8022), Dst Port: 5140 (5140)
+	Real-Time Transport Protocol
	10.. = Version: RFC 1889 Version (2)
	..0. = Padding: False
	...0 = Extension: False
 0000 = Contributing source identifiers count: 0
	0... = Marker: False
	Payload type: MPEG-II transport streams (33)
	Sequence number: 61935
	Timestamp: 0
	Synchronization Source identifier: 0x00000000 (0)
+	ISO/IEC 13818-1 PID=0x1022 CC=4
+	ISO/IEC 13818-1 PID=0x1022 CC=5
+	ISO/IEC 13818-1 PID=0x1022 CC=6
+	ISO/IEC 13818-1 PID=0x1022 CC=7
+	ISO/IEC 13818-1 PID=0x1022 CC=8
+	ISO/IEC 13818-1 PID=0x1022 CC=9
+	ISO/IEC 13818-1 PID=0x1022 CC=10

压缩编码参数：

比特率：

8 000 Kbps

视频

Format/Info : Advanced Video Codec

Format profile :Main@L4.0

Format settings, CABAC :Yes

Format settings, ReFrames : 4 frames

Bit rate : 7 411 Kbps

Width : 1 920 pixels

Height : 1 080 pixels

Display aspect ratio :16:9

Frame rate : 25.000 fps

Color space : YUV

Chroma subsampling :4:2:0

Bit depth : 8 bits

Scan type : Interlaced

音频

Format : MPEG Audio

Format version : Version1

Format profile : Layer 2

Bit rate mode : Constant

Bit rate : 192 Kbps

Channel(s) : 1 channel

Sampling rate : 48.0 KHz

Compression mode : Lossy

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