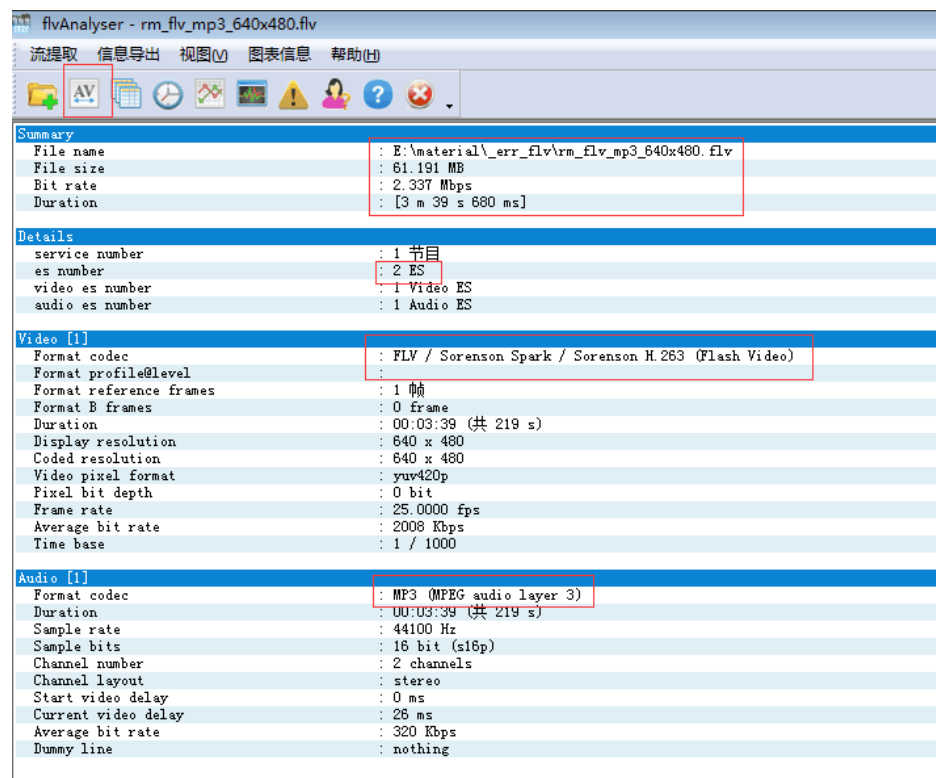
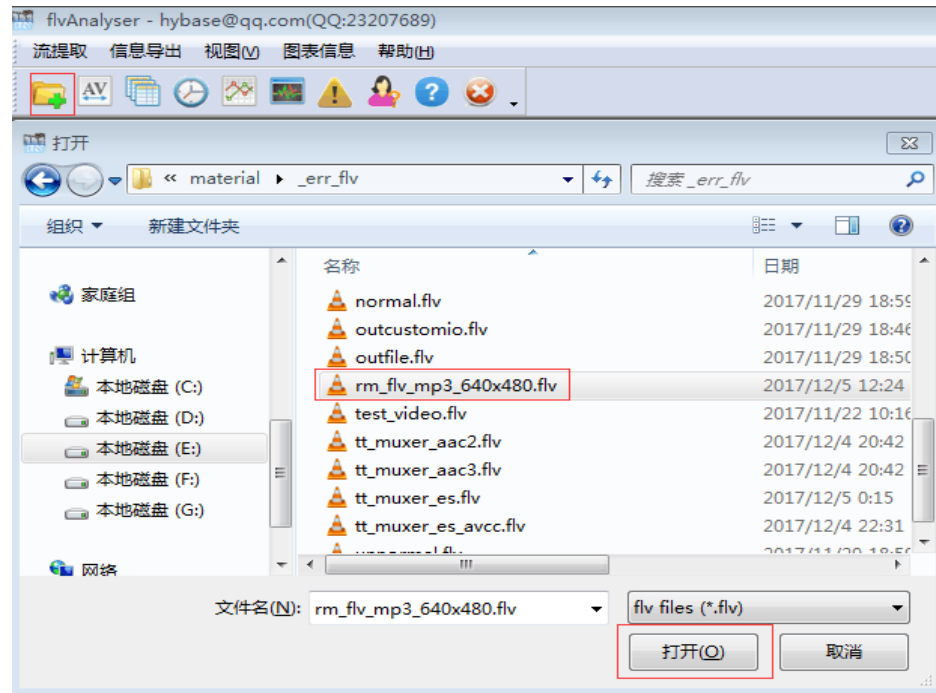


# flvAnalyser 使用说明书

2017-12-17 版本 v0.0.1.001 发布 Author: hybase@qq.com QQ: 23207689

## 一、基本功能点

### 1 文件格式分析



## 2 数据分析：Tag 列表，16 进制分析

flvAnalyser - rm\_flv\_mp3\_640x480.flv

流提取 信息导出 视图(V) 图表信息 帮助(H)

序号	偏移地址	类型	时间 (ms)	数据大小	帧类型	编码格式	备注	其他
file hdr	0x00000000	FLV hdr		9			FLV file header	
0	0x0000000d	script (18)	0	320				
1	0x0000015c	video (9)	0	43703	I	h263		
2	0x0000ac22	audio (8)	0	1045		mp3		
3	0x0000b046	audio (8)	1	1046		mp3		
4	0x0000b46b	audio (8)	27	1046		mp3		
5	0x0000b890	audio (8)	53	1046		mp3		
6	0x0000bc5	audio (8)	79	1046		mp3		
7	0x0000c0da	video (9)	80	55799		h263		
8	0x00019ae0	audio (8)	105	1046		mp3		
9	0x00019f05	video (9)	120	42135		h263		
10	0x000243ab	audio (8)	132	1046		mp3		
11	0x00024740	audio (8)	158	1046		mp3		
12	0x00024b55	video (9)	160	41558		h263		
13	0x0002ee58	audio (8)	184	1046		mp3		
14	0x0002f27d	video (9)	200	39306		h263		
15	0x00038c16	audio (8)	210	1046		mp3		
16	0x0003903b	audio (8)	236	1045		mp3		
17	0x0003945f	video (9)	240	24590		h263		
18	0x0003f47c	audio (8)	262	1046		mp3		
19	0x0003f8a1	video (9)	280	16560		h263		
20	0x00043960	audio (8)	288	1046		mp3		
21	0x00043d85	audio (8)	314	1046		mp3		
22	0x000441aa	video (9)	320	13870		h263		
23	0x000477e7	audio (8)	340	1046		mp3		
24	0x00047c0c	video (9)	360	10463		h263		
25	0x0004a4fa	audio (8)	367	1046		mp3		
26	0x0004a91f	audio (8)	393	1046		mp3		
27	0x0004ad44	video (9)	400	10767		h263		
28	0x0004d762	audio (8)	419	1046		mp3		
29	0x0004db87	video (9)	440	9355		h263		
30	0x00050021	audio (8)	445	1046		mp3		
31	0x00050446	audio (8)	471	1046		mp3		
32	0x0005086b	video (9)	480	16261		h263		
33	0x000547ff	audio (8)	497	1045		mp3		
34	0x00054c23	video (9)	520	29525	I	h263		
35	0x0005bfb7	audio (8)	523	1046		mp3		
36	0x0005c211	audio (8)	540	1046		mp3		

flvAnalyser - rm\_flv\_mp3\_640x480.flv

流提取 信息导出 视图(V) 图表信息 帮助(H)

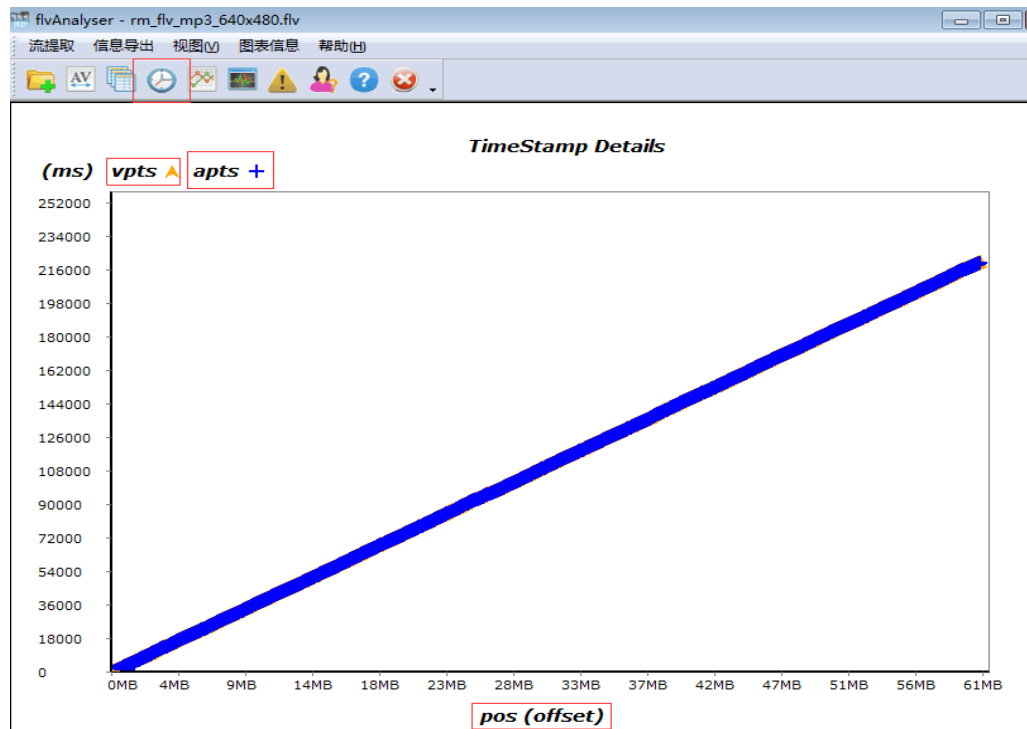
序号	偏移地址	类型	时间 (ms)	数据大小	帧类型	编码格式	备注
file hdr	0x00000000	FLV hdr		9			FLV file header
0	0x0000000d	script (18)	0	320			
1	0x0000015c	video (9)	0	43703	I	h263	
2	0x0000ac22	audio (8)	0	1045		mp3	

Tag's hex analysis

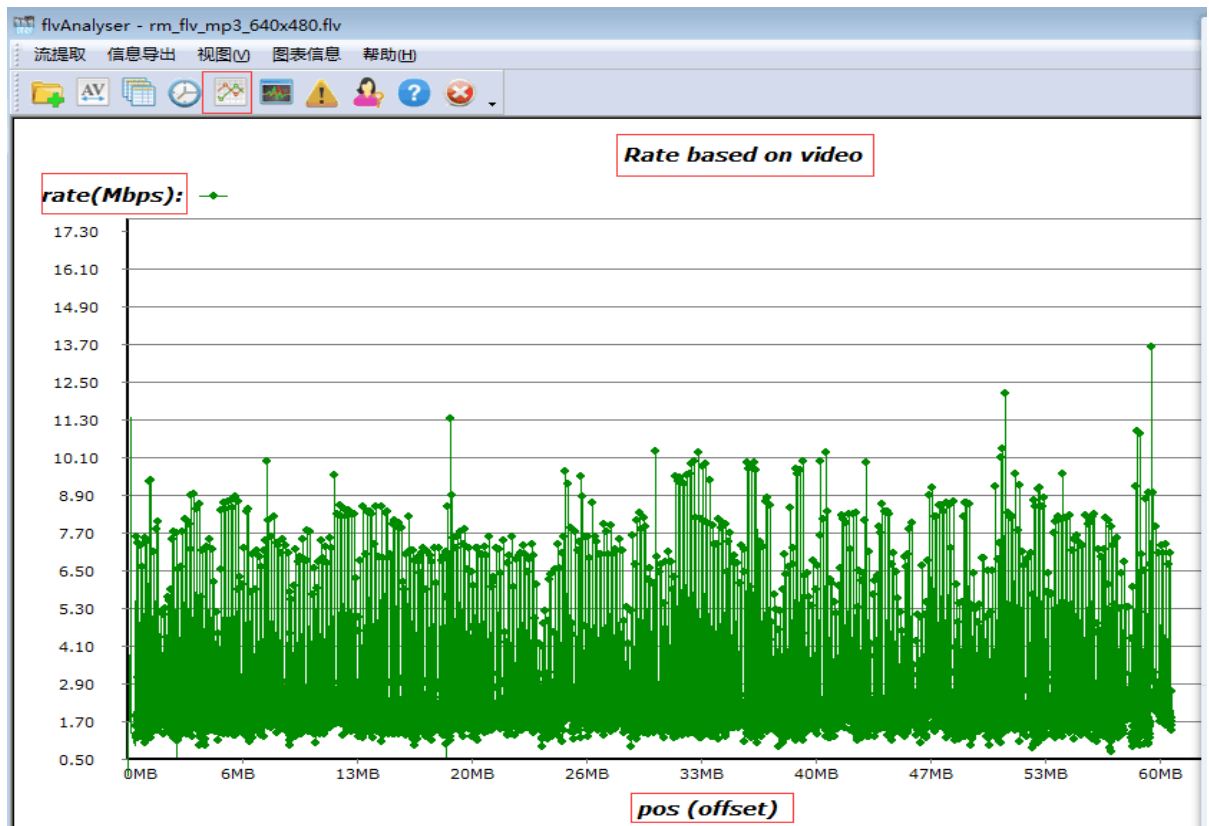
Field	Description
tag header len	11
details :	
tag type	video (9)
data size	43703
time stamp	0
time stamp ext	0
[whole pts]	0
stream id	0
video codec	0x02 h263
key frame	1
video data	...
previous tag len	43714

关闭

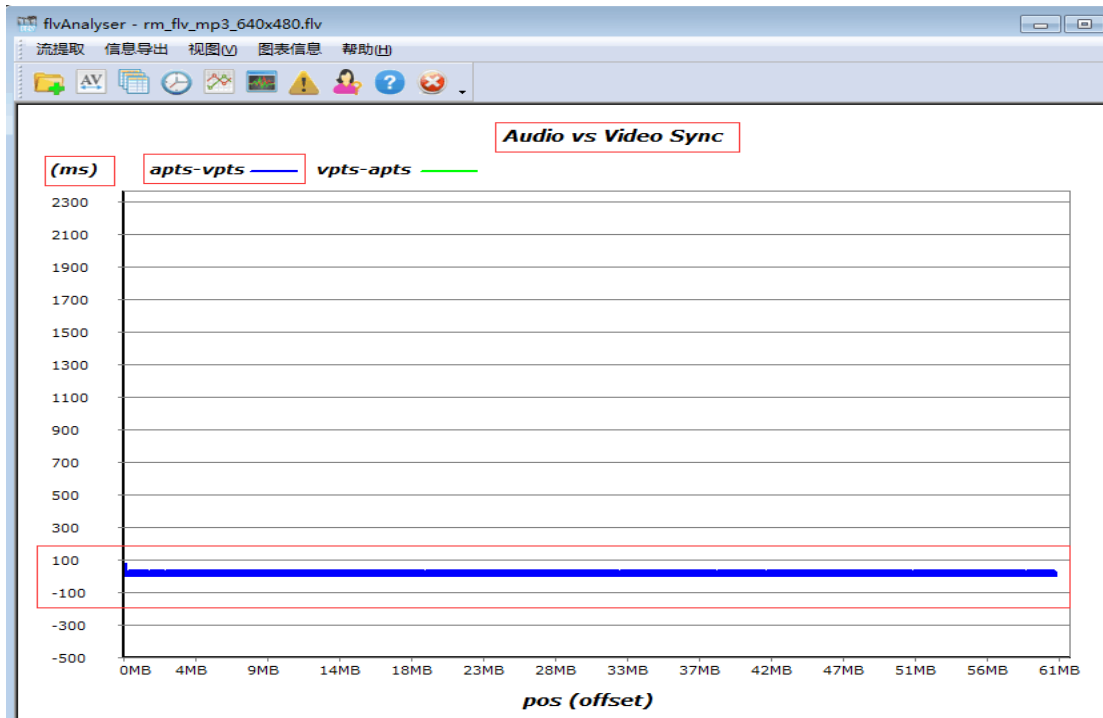
### 3 时间戳分析



### 4 码率分析



5 音视频同步分析



6 日志记录

正常文件 INFO 级别为主

flvAnalyser - rm\_flv\_mp3\_640x480.flv

流提取 信息导出 视图(V) 图表信息 帮助(H)

NO.	Level	Address	Log Id	Log Desc	Details
1	info (3)	0x0000...	0x3102...	parsed file header	have audio and video
2	info (3)	0x0000...	0x3100...	start to parse file body...	2017-12-17 11:20:38
3	info (3)	0x0000...	0x3104...	parsed video info	h263
4	info (3)	0x0000...	0x3103...	parsed audio info	mp3: 44100Hz_2ch_16-bit
5	info (3)	0x03d3...	0x3101...	end of parse file body.	2017-12-17 11:20:39, spent 689 ms, filesize KB

遇到错误，黄色，红色，橙色提示

flvAnalyser - normal.flv

流提取 信息导出 视图(V) 图表信息 帮助(H)

NO.	Level	Address	Log Id	Log Desc	Details
1	fatal (0)	0x00000000	0x020b(...)	not found h264 seq header	
2	fatal (0)	0x00000000	0x020a(...)	not found aac audio specific config	
3	info (3)	0x00000000	0x3102(...)	parsed file header	have audio and video
4	info (3)	0x0000000d	0x3100(...)	start to parse file body...	2017-12-17 18:50:45
5	error (1)	0x00000141	0x120e(...)	invalid AAC audio specific configura...	
6	error (1)	0x00000152	0x120f(...)	not avc data format	meet unexpected H264 start code
7	error (1)	0x00000e96	0x120f(...)	not avc data format	meet unexpected H264 start code
8	error (1)	0x00000f16	0x120f(...)	not avc data format	meet unexpected H264 start code
9	error (1)	0x00001cd0	0x120f(...)	not avc data format	meet unexpected H264 start code
10	error (1)	0x00001f02	0x120f(...)	not avc data format	meet unexpected H264 start code
11	error (1)	0x000020b4	0x120f(...)	not avc data format	meet unexpected H264 start code
12	error (1)	0x0000223c	0x120f(...)	not avc data format	meet unexpected H264 start code
13	error (1)	0x00002410	0x120f(...)	not avc data format	meet unexpected H264 start code
14	error (1)	0x000024f2	0x120f(...)	not avc data format	meet unexpected H264 start code
15	error (1)	0x000027dd	0x120f(...)	not avc data format	meet unexpected H264 start code

7 语法指南（FLV 基本语法）

flvAnalyser - rm\_flv\_mp3\_640x480.flv

流提取 信息导出 视图(V) 图表信息 帮助(H)

Flv File Header | Flv File Body | Flv Tag Header | Flv Audio Tag | Flv Video Tag | Flv AAC Data | Flv H264 Data Packet

## The FLV header

All FLV files begin with the following header:

Field	Type	Comment
Signature	UI8	Signature byte always 'F' (0x46)
Signature	UI8	Signature byte always 'L' (0x4C)
Signature	UI8	Signature byte always 'V' (0x56)
Version	UI8	File version (for example, 0x01 for FLV version 1)
TypeFlagsReserved	UB[5]	Must be 0
TypeFlagsAudio	UB[1]	Audio tags are present
TypeFlagsReserved	UB[1]	Must be 0
TypeFlagsVideo	UB[1]	Video tags are present
DataOffset	UI32	Offset in bytes from start of file to start of body (that is, size of header)

The DataOffset field usually has a value of 9 for FLV version 1. This field is present to accommodate larger headers in future versions.

8 视频、音频 ES 提取存文件；

flvAnalyser - rm\_flv\_mp3\_640x480.flv

流提取 信息导出 视图(V) 图表信息 帮助(H)

另存为

组织 新建文件夹

名称 日期

没有与搜索条件匹配的项。

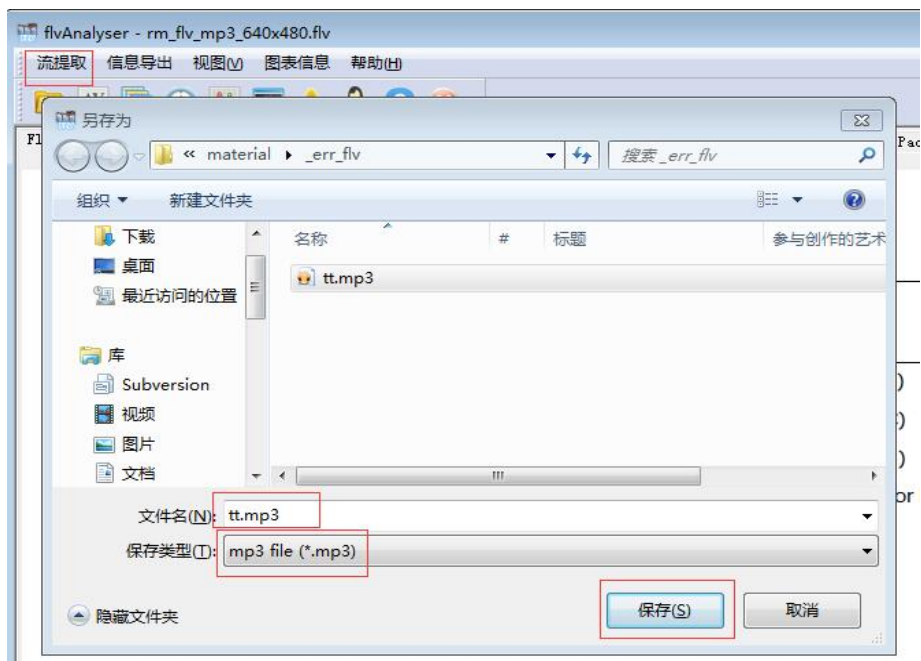
文件(N): tt.h263

保存类型(T): h263 file (\*.h263)

隐藏文件夹

保存(S) 取消

TypeFlagsVideo UB[1] Video tags are present



9 时间信息提取存文件;  
[可选纯视频, 纯音频, 音视频交叉]

tt.log									
<pre> 1 Author : hybase@qq.com (QQ: 23207689) 2 Date : 2017-12-17 12:23:09 3 ===== [Start] ===== 4 5 6 文件名称: E:\material\_err_flv\rm_flv_mp3_640x480.flv 7 视频: 1 h263 音频: 1 mp3 8 9 10 ===== start video ===== 11 pts 数目: 5492 12 13 video idx= 0 offset= 348 (0x 15c) KF pts= 0 (ms) 0 (ms) avsync= 0 (ms) 14 video idx= 1 offset= 49370 (0x c0da) pts= 80 (ms) 80 (ms) avsync= 1 (ms) 15 video idx= 2 offset= 106245 (0x 19f05) pts= 120 (ms) 40 (ms) avsync= 15 (ms) 16 video idx= 3 offset= 150517 (0x 24bf5) pts= 160 (ms) 40 (ms) avsync= 2 (ms) 17 video idx= 4 offset= 193149 (0x 2f27d) pts= 200 (ms) 40 (ms) avsync= 16 (ms) 18 video idx= 5 offset= 234591 (0x 3945f) pts= 240 (ms) 40 (ms) avsync= 4 (ms) 19 video idx= 6 offset= 260257 (0x 3f8a1) pts= 280 (ms) 40 (ms) avsync= 18 (ms) 20 video idx= 7 offset= 278954 (0x 441aa) pts= 320 (ms) 40 (ms) avsync= 6 (ms) 21 video idx= 8 offset= 293900 (0x 47c0c) pts= 360 (ms) 40 (ms) avsync= 20 (ms) 22 video idx= 9 offset= 306500 (0x 4ad44) pts= 400 (ms) 40 (ms) avsync= 7 (ms) 23 video idx= 10 offset= 318343 (0x 4db87) pts= 440 (ms) 40 (ms) avsync= 21 (ms) 24 video idx= 11 offset= 329835 (0x 5086b) pts= 480 (ms) 40 (ms) avsync= 9 (ms) 25 video idx= 12 offset= 347171 (0x 54c23) KF pts= 520 (ms) 40 (ms) avsync= 23 (ms) 26 video idx= 13 offset= 378833 (0x 5c7d1) pts= 560 (ms) 40 (ms) avsync= 11 (ms) 27 video idx= 14 offset= 386643 (0x 5e653) pts= 600 (ms) 40 (ms) avsync= 24 (ms) 28 video idx= 15 offset= 393638 (0x 601a6) pts= 640 (ms) 40 (ms) avsync= 12 (ms) 29 video idx= 16 offset= 398293 (0x 613d5) pts= 680 (ms) 40 (ms) avsync= 26 (ms) 30 video idx= 17 offset= 406714 (0x 634ba) pts= 720 (ms) 40 (ms) avsync= 14 (ms) 31 video idx= 18 offset= 414632 (0x 653a8) pts= 760 (ms) 40 (ms) avsync= 2 (ms) 32 video idx= 19 offset= 422719 (0x 6733f) pts= 800 (ms) 40 (ms) avsync= 15 (ms) 33 video idx= 20 offset= 433621 (0x 69ad5) pts= 840 (ms) 40 (ms) avsync= 3 (ms) 34 video idx= 21 offset= 440894 (0x 6ba3e) pts= 880 (ms) 40 (ms) avsync= 17 (ms) 35 video idx= 22 offset= 451199 (0x 6e27f) pts= 920 (ms) 40 (ms) avsync= 5 (ms) </pre>									
				timestamp	delta	av differ			



## 二、软件 bug 和改进建议的汇报基本流程

为了增加工具的便捷，增加使用体验，本工具热切盼望使用的您，将遇到的问题，反馈给笔者。另外，如果您有新的建议，也可以通过以下步骤反馈问题。保证网络畅通下，笔者承诺 48 小时以内，一定响应并回馈您。

在沟通充分的情况下，评估实施修改或开发的工作量，并做出实质性的修改，最终更新版本给大家。

### 1，问题说明

如果能提供抓图，匹配文字补充最佳；

### 2，测试素材

如果遇到的 bug，是特定的媒体文件，还请能提供对应的分析文件；

### 3，联系回馈方式

请留下您的快捷联系方式，方便及时反馈和沟通。

### 4，期望更新时间；

请留下期望更新的时间，以便做出及时安排；