最简单的基于FFMPEG的Helloworld程序

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100行代码实现最简单的基于FFMPEG+SDL的视频播放器(SDL1.x)

最简单的基于FFMPEG+SDL的视频播放器 ver2 (采用SDL2.0)

最简单的基于FFmpeg的解码器-纯净版(不包含libavformat)

最简单的基于FFMPEG+SDL的视频播放器:拆分-解码器和播放器

最简单的基于FFMPEG的Helloworld程序

本文记录一个基于FFmpeg的HelloWorld程序。该程序可以打印出FFmpeg类库的基本信息。使用该程序通常可以验证FFmpeg是否正确的安装配置。

源代码

```
[cpp] 📳 📑
1.
      * 最简单的FFmpeg Helloworld程序
2.
       * Simplest FFmpeg HelloWorld
3.
     *
4.
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5.
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6.
      * 中国传媒大学/数字电视技术
7.
     * Communication University of China / Digital TV Technology
8.
       * http://blog.csdn.net/leixiaohua1020
9.
10.
11.
     * 本程序是基于FFmpeg函数的最简单的程序。它可以打印出FFmpeg类库的下列信息:
12.
13.
      * Protocol: FFmpeg类库支持的协议
14. * AVFormat: FFmpeg类库支持的封装格式
     * AVCodec: FFmpeg类库支持的编解码器
* AVFilter: FFmpeg类库支持的滤镜
15.
16.
17.
      * Configure: FFmpeg类库的配置信息
18.
      * This is the simplest program based on FFmpeg API. It can show following
19.
     * informations about FFmpeg library:
20.
      * Protocol: Protocols supported by FFmpeg.
21.
     * AVFormat: Container format supported by FFmpeg.
22.
     * AVCodec: Encoder/Decoder supported by FFmpeg.
* AVFilter: Filters supported by FFmpeg.
23.
24.
      * Configure: configure information of FFmpeg.
25.
26.
27.
28.
29.
      #include <stdio.h>
30.
31.
      #define __STDC_CONSTANT_MACROS
32.
33.
      #ifdef WIN32
     //Windows
34.
35.
      extern "C"
36.
      #include "libavcodec/avcodec.h"
37.
     #include "libavformat/avformat.h"
38.
      #include "libavfilter/avfilter.h"
39.
40.
     };
41.
      #else
42.
     //Linux...
43.
      #ifdef __cplusplus
      extern "C"
44.
45.
46.
47.
      #include <libavcodec/avcodec.h>
48.
     #include <libavformat/avformat.h>
      #include <libavfilter/avfilter.h>
49.
     #ifdef __cplusplus
50.
51. };
```

```
#endif
 53.
       #endif
 54.
 55.
 56.
       struct URLProtocol;
 57.
       * Protocol Support Information
 58.
 59.
 60.
       char * urlprotocolinfo(){
 61.
       char *info=(char *)malloc(40000):
 62.
 63.
           memset(info,0,40000);
 64.
 65.
           av_register_all();
 66.
 67.
           struct URLProtocol *pup = NULL;
 68.
       //Input
 69.
           struct URLProtocol **p_temp = &pup;
 70.
       avio_enum_protocols((void **)p_temp, 0);
 71.
           while ((*p_temp) != NULL){
            sprintf(info, "%s[In ][%10s]\n", info, avio enum protocols((void **)p temp, 0));
 72.
 73.
 74.
       pup = NULL;
 75.
           //Output
          avio_enum_protocols((void **)p_temp, 1);
 76.
           while ((*p_temp) != NULL){
 77.
            sprintf(info, "%s[Out][%10s]\n", info, avio_enum_protocols((void **)p_temp, 1));
 78.
 79.
 80.
 81.
           return info;
 82.
 83.
 84.
 85.
        * AVFormat Support Information
 86.
 87.
       char * avformatinfo(){
 88.
           char *info=(char *)malloc(40000);
 89.
       memset(info,0,40000);
 90.
 91.
 92.
       av_register_all();
 93.
 94.
       AVInputFormat *if_temp = av_iformat_next(NULL);
 95.
           AVOutputFormat *of_temp = av_oformat_next(NULL);
 96.
           //Input
 97.
           while(if_temp!=NULL){
 98.
           sprintf(info, "%s[In ] %10s\n", info, if_temp->name);
 99.
               if_temp=if_temp->next;
100.
101.
           //Output
102.
           while (of_temp != NULL){
               sprintf(info, "%s[Out] %10s\n", info, of_temp->name);
103.
104.
               of_temp = of_temp->next;
105.
106.
          return info;
107.
       }
108
109.
110.
       * AVCodec Support Information
111.
112.
       char * avcodecinfo()
113.
114.
          char *info=(char *)malloc(40000);
115.
           memset(info,0,40000);
116.
117.
           av register all();
118.
119.
           AVCodec *c_temp = av_codec_next(NULL);
120.
121.
           while(c temp!=NULL){
122.
             if (c_temp->decode!=NULL){
123.
                   sprintf(info, "%s[Dec]", info);
124.
125.
               else{
126.
                 sprintf(info, "%s[Enc]", info);
127.
128.
              switch (c_temp->type){
               case AVMEDIA TYPE VIDEO:
129.
130.
               sprintf(info, "%s[Video]", info);
131.
                   break;
               case AVMEDIA TYPE AUDIO:
132.
133.
                   sprintf(info, "%s[Audio]", info);
134.
                   break;
135.
               default:
                  sprintf(info, "%s[Other]", info);
136.
137.
                   break:
138.
139.
140.
               141.
142.
              c_temp=c_temp->next;
```

```
143.
144.
           return info;
145.
       }
146.
147
        * AVFilter Support Information
148.
149.
150.
       char * avfilterinfo()
151.
152.
           char *info=(char *)malloc(40000);
153.
           memset(info,0,40000);
154.
155.
           avfilter_register_all();
156.
           AVFilter *f temp = (AVFilter *)avfilter_next(NULL);
157.
158.
159.
           while (f temp != NULL){
               sprintf(info, "%s[%15s]\n", info, f_temp->name);
160.
161.
                f\_temp = f\_temp -> next;
162.
163.
            return info;
164.
       }
165.
166.
167.
        * Configuration Information
168.
169.
       char * configurationinfo()
170.
       {
            char *info=(char *)malloc(40000);
171.
172.
        memset(info,0,40000);
173.
174.
       av register all();
175.
       sprintf(info, "%s\n", avcodec_configuration());
176.
177.
178.
        return info;
179.
180.
181.
       int main(int argc, char* argv[])
182.
183.
            char *infostr=NULL;
184.
           infostr=configurationinfo();
185.
           printf("\n<<Configuration>>\n%s",infostr);
186.
           free(infostr):
187.
188.
           infostr=urlprotocolinfo();
           printf("\n<<URLProtocol>>\n%s",infostr);
189.
190.
           free(infostr):
191.
192.
           infostr=avformatinfo();
193.
           printf("\n<<\text{AVFormat}>>\n\%s",infostr);
194.
           free(infostr);
195.
196.
           infostr=avcodecinfo();
197.
           printf("\n<<AVCodec>>\n%s",infostr);
198.
           free(infostr);
199.
200.
           infostr=avfilterinfo();
201.
           printf("\n<<AVFilter>>\n%s",infostr);
           free(infostr);
202.
203.
204.
            return 0;
205.
```

运行结果

Configure信息格式如下所示。

```
1. --disable-static --enable-shared --enable-gpl --enable-version3 --disable-w32threads --enable-avisynth --enable-bzlib --enable-fontc onfig --enable-freiθr --enable-libracy --enable-libracy
```

```
[plain] 📳 🔠
      [In ][
                  cache]
2.
      [In ][
                concat]
3.
      [In ][
                crypto]
4.
      [In ][
                  data]
5.
      [In ][
                  file]
6.
      [In ][
                   ftp]
7.
      [In ][
                gopher]
8.
      [In ][
                  hls]
9.
                  http]
      [In ][
10.
      [In ][ httpproxy]
11.
      [In ][
                 https]
      [In ][
                  mmsh1
12.
13.
      [In ][
                  mmst]
14.
      [In ][
                  pipe]
15.
      [In ][
                   rtp]
16.
      [In ][
                  srtp]
17.
      [In ][
               subfile]
18.
      [In ][
               tcp]
19.
      [In ][
                    tls]
20.
      [In ][
                  udp]
21.
      [In ][
                  rtmp]
22.
      [In ][
                  rtmpe]
23.
      [In ][
                  rtmps]
24.
                 rtmpt]
      [In ][
25.
      [In ][
                 rtmptel
                 (null)]
26.
      [In ][
                   ftp]
27.
      [Out][
28.
      [Out][
                 gopher]
29.
      [Out][
                  http]
30.
      [Out][ httpproxy]
31.
      [Out][
                  https]
32.
      [Out][
                  md5]
33.
      [Out][
                  pipe]
34.
      [Out][
                  rtp]
35.
      [Out][
                  srtp]
36.
      [Out][
                  tcp]
37.
      [Out][
                   tls]
      [Out][
                  udp]
38.
39.
      [Out][
                  rtmp]
40.
      [Out][
                  rtmpe]
41.
      [Out][
                  rtmps]
42.
      [Out][
                  rtmpt]
43.
      [Out][
                 rtmpte]
44.
      [Out][
                (null)]
```

AVFormat信息格式如下所示。

```
[plain]
1.
      [In ]
                   aac
2.
      [In ]
                   ac3
3.
      [In ]
4.
      [In ]
                   adf
5.
      [In ]
                   adp
6.
      [In ]
                   adx
7.
      [In ]
                   aea
8.
      [In ]
                  afc
9.
                  aiff
      [In ]
10.
      [In ]
                  amr
11.
      [In ]
                   anm
      [In ]
12.
                   арс
13.
      [In ]
                   ape
14.
      [In ]
               aqtitle
15.
      [In ]
                   asf
16.
      [In ]
                   ass
17.
      [In ]
                   ast
18.
      [In ]
                   au
19.
      [In ]
                   avi
20.
      [In ]
             avisynth
21.
      [In ]
                   avr
22.
      [In ]
                   avs
23.
      [In ] bethsoftvid
24.
      [In ] bfi
25.
      [In ]
                   bin
26.
      [In ]
                  bink
27.
      [In ]
                   bit
28.
      [In ]
                   bmv
29.
      [In ]
                 brstm
30.
      [In ]
                boa
31.
      [In ]
                   c93
32.
      [In ]
                   caf
33.
      [In ]
34.
      [In ] cdg
35.
      [In ]
                  cdxl
36.
      [In ]
                 cine
37.
      [In ]
                concat
38.
     [In ] data
```

```
39.
        [In ]
                    daud
 40.
        [In ]
                    dfa
 41.
        [In ]
                   dirac
 42.
        [In ]
                   dnxhd
 43.
        [In ]
                     dsf
 44.
        [In ]
                  dsicin
 45.
        [In ]
                     dts
 46.
       [In ]
                   dtshd
 47.
                      dν
       [In ]
 48.
                     dxa
       [In ]
 49.
       [In ]
                      ea
 50.
                ea_cdata
       [In ]
 51.
       [In ]
                    eac3
                    epaf
 52.
       [In ]
 53.
                     ffm
        [In ]
 54.
        [In ] ffmetadata
 55.
        [In ] filmstrip
 56.
        [In ]
                  flac
 57.
        [In ]
                    flic
 58.
        [In ]
                    flv
 59.
                     4xm
 60.
        [In ]
                    frm
 61.
        [In ]
                    g722
 62.
       [In ]
                  g723 1
                    g729
 63.
       [In ]
                    gif
 64.
        [In ]
 65.
       [In ]
                     gsm
                     gxf
        [In ]
 66.
 67.
        [In ]
                    h261
                    h263
 68.
        [In ]
 69.
        [In ]
                    h264
 70.
        [In ]
                    hevc
 71.
        [In ] hls,applehttp
 72.
        [In ] hnm
 73.
        [In ]
                     ico
 74.
       [In ]
                   idcin
 75.
                     idf
        [In ]
 76.
        [In ]
                    iff
 77.
                    ilbc
        [In ]
 78.
                  image2
       [In ]
 79.
        [In ] image2pipe
 80.
       [In ] alias_pix
        [In ] brender_pix
 81.
 82.
       [In ] ingenient
 83.
        [In ]
                ipmovie
 84.
        [In ]
                ircam
 85.
        [In ]
                     iss
 86.
        [In ]
                     iv8
 87.
        [In ]
                     ivf
 88.
        [In ]
                 jacosub
 89.
        [In ]
                     jν
 90.
       [In ]
                    latm
 91.
        [In ]
                   lmlm4
 92.
       [In ]
                    loas
 93.
                     lvf
        [In ]
 94.
        [In ]
                    lxf
 95.
        [In ]
                     m4v
 96.
       [In ] matroska.webm
 97.
        [In ]
                  mgsts
 98.
        [In ] microdvd
 99.
        [In ]
                  mjpeg
100.
        [In ]
                   mlp
101.
        [In ]
                     mlv
102.
        [In ]
                    mm
103.
        [In ]
                     mmf
104.
       [In ] mov,mp4,m4a,3gp,3g2,mj2
105.
        [In ]
                     mp3
106.
       [In ]
                     mpc
107.
        [In ]
                    mpc8
108.
       [In ]
                    mpeg
        [In ]
109.
                  mpegts
110.
       [In ] mpegtsraw
111.
        [In ]
              mpegvideo
112
        [In ]
                  mpl2
113.
        [In ]
                   mpsub
114
        [In ]
               msnwctcp
115.
        [In ]
                     mtv
116
        [In ]
                     mv
117.
        [In ]
                     mvi
118.
        [In ]
                     mxf
119.
        [In ]
                     mxg
120.
        [In ]
                     nc
121.
        [In ] nistsphere
122.
        [In ]
                     nsv
123.
        [In ]
                     nut
124.
        [In ]
                     nuv
125.
       [In ]
                     ogg
        [In ]
126.
                     oma
127.
        [In ]
                     paf
128.
        [In ]
                   alaw
129.
        [In ]
                   mulaw
```

[In] [In]	f(
[In]]	TC
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[In] [In] [Out]		
[In] [Out] [Out]		
[Out] [Out]		
[Out]		
[t]	
[Out] [Out]		

221.	[Jut]	amr	
222.	[Out]	asf	
223.	[Out]	ass	
224.	[Out]	ast	
225.	[Out]	asf_stream	
226.	[Out]	au	
227.	[Out]	avi	
228.	[Out]	avm2	
229.	[Out]	bit	
230.	[Out]	caf	
231.	[Out]		
232.	[Out]	crc	
233.	[Out]	data	
234.	[Out]	daud	
235.	[Out]	dirac	
236.	[Out]	dnxhd	
237.	[Out]	dts	
238.	[Out]	dv	
239.	[Out]	eac3	
240.	[Out]	f4v	
241.	[Out]	ffm	
242.		ffmetadata	
243.	[Out]		
244.	[Out]	flac	
245.	[Out]	flv	
246.	[Out]	framecrc	
247.	[Out]	framemd5	
248.	[Out]	g722	
249.	[Out]	g723_1	
250.	[Out]	gif	
251.	[Out]	gxf	
252.	[Out]	h261	
253.	[Out]	h263	
254.	[Out]	h264	
255.	[Out]	hds	
256.	[Out]	hevc	
257.	[Out]	hls	
258.	[Out]	ico	
259.	[Out]	ilbc	
260.	[Out]	image2	
261.	[Out]	image2pipe	
262.	[Out]	ipod	
263.	[Out]	ircam	
264.	[Out]	ismv	
265.	[Out]	ivf	
266.	[Out]	jacosub	
267.	[Out]	latm	
268.	[Out]	m4v	
269.	[Out]	md5	
270.	[Out]	matroska	
271.	[Out]	matroska	
272.	[Out]		
273.	[Out]	mjpeg	
274.	[Out]	mlp	
275.	[Out]	mmf	
276.	[Out]	mov	
277.	[Out]	mp2	
278.	[Out]	mp3	
279.	[Out]	mp4	
280.	[Out]		
281.	[Out]		
		mpeg1video	
282.			
283.	[Out]		
284.	[Out]		
285.		mpeg2video	
286.	[Out]		
287.	[Out]		
288.	[Out]		
289.	[Out]	mxf	
290.	[Out]		
291.	[Out]	null	
	[Out]		
292.	[Outi		
292. 293.		oga	
293.	[Out]	oga ogg	
293. 294.	[Out] [Out]	ogg	
293. 294. 295.	[Out] [Out] [Out]	ogg oma	
293. 294. 295. 296.	[Out] [Out] [Out] [Out]	ogg oma opus	
293. 294. 295. 296. 297.	[Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw	
293. 294. 295. 296. 297. 298.	[Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw	
293. 294. 295. 296. 297. 298. 299.	[Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be	
293. 294. 295. 296. 297. 298. 299.	[Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le	
293. 294. 295. 296. 297. 298. 299. 300.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be	
293. 294. 295. 296. 297. 298. 299.	[Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le	
293. 294. 295. 296. 297. 298. 299. 300.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le s24be	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le s24be s24le	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le s24be s24le s16be	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le s24be s24le s16be s16le	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308.	[Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le s24be s24le s16be s16le	
293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308.	[Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out] [Out]	ogg oma opus alaw mulaw f64be f64le f32be f32le s32be s32le s24be s24le s16be s16le	

```
[VUL]
                   uzyuc
313.
        [Out]
                   u24le
314.
                   u16be
        [Out]
315.
                   u16le
        [Out]
316.
        [Out]
                     u8
317.
        [Out]
                     psp
318.
        [Out]
                rawvideo
319
        [Out]
                      rm
320.
        [Out]
                     roq
321
        [Out]
                      rso
322.
        [Out]
                     rtp
323
        [Out]
                     rtsp
324.
        [Out]
                     sap
325.
        [Out]
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326.
        [Out] stream_segment,ssegment
327.
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328.
        [Out] smoothstreaming
329.
        [Out]
                     SOX
        [Out]
                   spdif
330.
        [Out]
331.
                   speex
332
        [Out]
                   srt
333.
        [Out]
                     swf
334
        [Out]
                     tee
335
        [Out]
                     3g2
336
        [Out]
                     3gp
337.
        [{\tt Out}] \ {\tt mkvtimestamp\_v2}
338
        [Out]
                 truehd
339.
        [Out] uncodedframecrc
340.
        [Out]
341.
        [Out]
                 vc1test
342.
                voc
        [Out]
343.
        [Out]
                     w64
344.
                    wav
        [Out]
345.
        [Out]
                    webm
346.
        [Out]
                  webvtt
347.
        [Out]
                     wtv
                WV
348.
       [Out]
349.
       [Out] yuv4mpegpipe
```

AVCodec信息格式如下所示。

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      [Enc][Video]
                    a64multi
2.
      [Enc][Video] a64multi5
3.
      [Dec][Video]
                         aasc
4.
      [Dec][Video]
                        aic
      [Enc][Video] alias_pix
5.
      [Dec][Video] alias_pix
6.
7.
      [Encl[Video]
                          amv
8.
      [Dec][Video]
                          amv
9.
      [Dec][Video]
                          anm
10.
      [Dec][Video]
                         ansi
11.
      [Enc][Video]
                         asv1
12.
      [Dec][Video]
                         asv1
13.
      [Enc][Video]
                         asv2
14.
      [Dec][Video]
                         asv2
15.
      [Dec][Video]
                         aura
16.
      [Dec][Video]
                        aura2
17.
      [Enc][Video]
                         avrp
18.
      [Dec][Video]
                         avrp
19.
      [Dec][Video]
                         avrn
20.
      [Dec][Video]
                         avs
21.
      [Enc][Video]
                         avui
22.
      [Dec][Video]
                         avui
23.
      [Enc][Video]
                         ayuv
24.
      [Dec][Video]
                         ayuv
25.
      [Dec][Video] bethsoftvid
26.
      [Dec][Video]
                       bfi
27.
      [Dec][Video]
                   binkvideo
28.
      [Enc][Video] bmp
29.
      [Dec][Video]
                          bmp
30.
      [Dec][Video] bmv_video
31.
      [Dec][Video] brender_pix
32.
      [Dec][Video] c93
33.
      [Dec][Video]
                         cavs
34.
      [Dec][Video] cdgraphics
35.
      [Dec][Video]
                        cdxl
36.
                      cinepak
      [Enc][Video]
37.
      [Dec][Video]
                      cinepak
38.
      [Enc][Video]
                     cljr
39.
      [Dec][Video]
                         cljr
40.
      [Dec][Video]
                        cllc
41.
      [Enc][Audio] comfortnoise
42.
      [Dec][Audio] comfortnoise
43.
      [Dec][Video]
                        cpia
44.
      [Dec][Video] camstudio
45.
      [Dec][Video]
                         cyuv
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```
[nec][viaeo]
                            ата
 47.
        [Dec][Video]
                          dirac
 48.
        [Enc][Video]
                          dnxhd
 49.
        [Dec][Video]
                           dnxhd \\
 50.
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 51.
        [Dec][Video]
                             dpx
 52.
        [Dec][Video] dsicinvideo
 53.
        [Enc][Video]
                        dvvideo
 54.
        [Dec][Video]
                        dvvideo
 55.
        [Dec][Video]
                            dxa
 56.
       [Dec][Video]
                         dxtory
 57.
        [Dec][Video]
                          eacmv
 58.
       [Dec][Video]
                          eamad
 59.
       [Dec][Video]
                          eatgq
                          eatgv
 60.
       [Dec][Video]
        [Dec][Video]
 61.
                           eatqi
 62.
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                          8bps
 63.
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                       8svx_exp
 64.
        [Dec][Audio]
                       8svx_fib
 65.
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 66.
        [Dec][Video]
                      escape130
 67.
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 68.
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                           ffv1
 69.
        [Dec][Video]
 70.
       [Enc][Video]
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 71.
       [Dec][Video]
                        ffvhuff
 72.
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                            fic
 73.
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 74.
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 75.
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                        flashsv2
 76.
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 77.
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                            flv
 80.
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 81.
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 82.
        [Dec][Video]
                           frwu
 83.
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                            gif
 86.
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                           h261
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 87.
        [Dec][Video]
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 88.
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                           h263
 89.
        [Dec][Video]
 90.
       [Dec][Video]
                           h263i
 91.
                           h263p
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 92.
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 93.
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        [Dec][Video]
                        huffyuv
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 99.
       [Dec][Video]
                            iff
100.
        [Dec][Video]
                            iff
101.
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                         indeo2
       [Dec][Video]
                         indeo3
102.
103.
       [Dec][Video]
                         indeo4
104.
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                         indeo5
105
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106.
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107
        [Dec][Video]
                       jpeg2000
108.
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                       jpegls
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112.
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114.
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115.
                           loco
116.
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117.
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118
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119.
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120.
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                         mjpegb
121.
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123.
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124
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125.
        [Enc][Video] mpeg2video
126
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128.
        [Dec][Video]
                          mpeg4
129.
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130.
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                           msa1
131.
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                     msmpeg4v1
132.
       [Enc][Video]
                     msmpeg4v2
133.
       [Dec][Video]
                      msmpeg4v2
134.
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135
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       [Decl[Video]
                           mcc1
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140.	[Dec][Video]	msvideol
141.	[Dec][Video]	mszh
142.	[Dec][Video]	mts2
	[Dec][Video]	
143.		mvcl
144.	[Dec][Video]	mvc2
145.	[Dec][Video]	mxpeg
146.	[Dec][Video]	nuv
147.	[Dec][Video]	
148.	[Enc][Video]	pam
149.	[Dec][Video]	pam
150.	[Enc][Video]	pbm
151.	[Dec][Video]	pbm
152.	[Enc][Video]	рсх
153.	[Dec][Video]	рсх
154.	[Enc][Video]	pgm
155.	[Dec][Video]	pgm
156.	[Enc][Video]	pgmyuv
157.	[Dec][Video]	pgmyuv
158.	[Dec][Video]	pictor
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161.	[Enc][Video]	ppm
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163.	[Enc][Video]	prores
164.	[Dec][Video]	prores
165.	[Enc][Video]	prores_aw
166.	[Enc][Video]	
167.	[Dec][Video]	
168.	[Dec][Video]	ptx
169.	[Dec][Video]	qdraw
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185.	[Dec][Video] [Enc][Video]	rv20
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190.	[Dec][Audio]	s302m
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192.	[Enc][Video]	sgi
193.	[Dec][Video]	sgi
194.	[Dec][Video]	sgirle
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196.	[Dec][Video]	SMC
197.	[Dec][Video]	smvjpeg
198.	[Enc][Video]	snow
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200.	[Dec][Video]	sp5x
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207.	[Dec][Video]	targa
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212.	[Dec][Video]	tiff
213.		tmv
	[Dec][Video]	
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219.	[Dec][Video]	txd
220.	[Dec][Video]	
221.	[Enc][Video]	utvideo
222.	[Dec][Video]	utvideo
223.	[Enc][Video]	v210
224.	[Dec][Video]	v210
225.	[Dec][Video] [Enc][Video]	v210x
226.		v308
227.	[Dec][Video]	v308
228.	[Enc][Video]	v408

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233.	[Dec][Video] vble
234.	[Dec][Video] vc1
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246.	[Dec] [Video] vp9
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250.	[Enc][Video] wmv2
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257.	[Dec][Video] xan_wc4
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261.	[Dec][Video] xface
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275.	[Dec][Video] zmbv
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283.	[Enc][Audio] alac
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290.	[Dec][Audio] atrac3
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293.	[Dec][Audio] binkaudio_rdft
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299.	[Dec][Audio] dsd_msbf
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301. 302.	[Dec][Audio] dsd_msbf_planar [Dec][Audio] dsicinaudio
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304.	[Dec][Audio] eac3
305.	[Dec][Audio] evrc
306.	[Dec][Audio] wavesynth
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311.	[Dec][Audio] g729
312.	[Dec][Audio] gsm
313.	[Dec][Audio] gsm_ms
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315.	[Dec][Audio] imc
316.	[Dec][Audio] mace3
317.	[Dec][Audio] mace6
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319.	[Dec][Audio] mlp

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322.
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                           mp2
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                           mp2
       [Dec][Audio]
                      mp2float
324
                      mp2fixed
325
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326.
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                      mp3float
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328.
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329
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330.
       [Dec][Audio]
                        mp3on4
331
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332.
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333
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334.
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335.
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336.
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364.
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                        wmav1
365.
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                         wmav2
                     wmav2
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367.
       [Dec][Audio]
                      wmavoice
368.
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       [Dec][Audio]
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393.
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397.
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407.
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417.
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423.
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        [Dec][Audio] interplay_dpcm
426.
       [Enc][Audio] roq_dpcm
427.
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429.
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                      xan_dpcm
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        [Dec][Audio] adpcm_ct
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        [Dec][Audio] adpcm dtk
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        [Dec][Audio] adpcm_ima_iss
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        [Enc][Audio] adpcm_ima_qt
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        [Dec][Audio] adpcm_ima_qt
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        [Dec][Audio] adpcm_ima_rad
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539.
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Simplest FFmpeg Player

项目主页

SourceForge: https://sourceforge.net/projects/simplestffmpegplayer/

Github: https://github.com/leixiaohua1020/simplest ffmpeg player

开源中国: http://git.oschina.net/leixiaohua1020/simplest_ffmpeg_player

CSDN下载地址: http://download.csdn.net/detail/leixiaohua1020/8924321

本程序实现了视频文件的解码和显示(支持HEVC,H.264,MPEG2等)。 是最简单的FFmpeg视频解码方面的教程。 通过学习本例子可以了解FFmpeg的解码流程。 项目包含6个工程:

simplest_ffmpeg_player:标准版,FFmpeg学习的开始。

simplest_ffmpeg_player_su:SU(SDL Update)版,加入了简单的SDL的Event。

simplest_ffmpeg_decoder:一个包含了封装格式处理功能的解码器。使用了libavcodec和libavformat。simplest_ffmpeg_decoder_pure:一个纯净的解码器。只使用libavcodec(没有使用libavformat)。

simplest_video_play_sdl2:使用SDL2播放YUV的例子。simplest_ffmpeg_helloworld:输出FFmpeg类库的信息。

所属专栏:FFmpeg

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