

<div>参考博客</div> <div>linux驱动 回忆未来-向东 Nginx模块开发与原理剖析 大坡3D软件开发 Dean Chen的专栏 Sloan 音视频FFmpeg等 opencv教程 个人开发历程知识库 关注DirectX chenyujing1234 morewindows 雷霄骅(leixiaohua1020)的专栏 ffmpeg参考 webrtc参考—更多</div>	<div>int flush_encoder(AVFormatContext *fmt_ctx,unsigned int stream_index)</div> <div>{</div> <div>int ret;</div> <div>int got_frame;</div> <div>AVPacket enc_pkt;</div> <div>if (!(fmt_ctx->streams[stream_index]->codec->codec->capabilities & CODEC_CAP_DELAY))</div> <div>return 0;</div> <div>while (1) {</div> <div>av_log(NULL, AV_LOG_INFO, "Flushing stream #%u encoder\n", stream_index);</div> <div>//ret = encode_write_frame(NULL, stream_index, &got_frame);</div> <div>enc_pkt.data = NULL;</div> <div>enc_pkt.size = 0;</div> <div>av_init_packet(&enc_pkt);</div> <div>ret = avcodec_encode_video2 (fmt_ctx->streams[stream_index]->codec, &enc_pkt, NULL, &got_frame);</div> <div>av_frame_free(NULL);</div> <div>if (ret < 0)</div> <div>break;</div> <div>if (!got_frame)</div> <div>{ret=0;break;}</div> <div>/* prepare packet for muxing */</div> <div>enc_pkt.stream_index = stream_index;</div> <div>enc_pkt.dts = av_rescale_q_rnd(enc_pkt.dts, fmt_ctx->streams[stream_index]->codec->time_base, fmt_ctx->streams[stream_index]->time_base, //(AVRounding)(AV_ROUND_NEAR_INF AV_ROUND_PASS_MINMAX)); (AV_ROUND_NEAR_INF AV_ROUND_PASS_MINMAX));</div> <div>enc_pkt.pts = av_rescale_q_rnd(enc_pkt.pts, fmt_ctx->streams[stream_index]->codec->time_base, fmt_ctx->streams[stream_index]->time_base, (AV_ROUND_NEAR_INF AV_ROUND_PASS_MINMAX)); //(AVRounding)(AV_ROUND_NEAR_INF AV_ROUND_PASS_MINMAX));</div> <div>enc_pkt.duration = av_rescale_q(enc_pkt.duration, fmt_ctx->streams[stream_index]->codec->time_base, fmt_ctx->streams[stream_index]->time_base);</div> <div>av_log(NULL, AV_LOG_DEBUG, "Muxing frame\n");</div> <div>/* mux encoded frame */</div> <div>ret = av_write_frame(fmt_ctx, &enc_pkt);</div> <div>if (ret < 0)</div> <div>break;</div> <div>}</div> <div>return ret;</div> <div>}</div>
<div>阅读排行榜</div> <div>1. Nginx之location 匹配规则详解(240898) 2. cmake使用方法详解(178488) 3. MinGW安装和使用(103448) 4. RTMP、RTSP、HTTP视频协议详解（附：直播流地址、播放软件）(102153) 5. C语言字符串操作总结大全(超详细)(94264)</div>	
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<div>推荐排行榜</div> <div>1. C++中的头文件和源文件(25) 2. Nginx之location 匹配规则详解(22) 3. Javascript中定义类(12) 4. JavaScript中typeof知多少？(11) 5. MinGW安装和使用(9)</div>	
<div>最新评论</div> <div>1. Re:windows下搭建nginx-rtmp服务器 configuration-nginx.bat执行报错啊 'auto' 不是内部或外部命令，也不是可运行的程序 或批处理文件。 '--conf-path' 不是内部或外部命令，也不是可运行的程序 或批... --猫爷*</div> <div>2. Re:深入理解linux系统下proc文件系统内容</div>	<div>int main(int argc, char* argv[])</div> <div>{</div> <div>int ret;</div> <div>AVFormatContext* ifmt_ctx=NULL;</div> <div>AVFormatContext* ofmt_ctx=NULL;</div> <div>AVIOContext *avio_in=NULL;</div> <div>AVIOContext *avio_out=NULL;</div> <div>unsigned char* inbuffer=NULL;</div> <div>unsigned char* outbuffer=NULL;</div> <div>AVFrame *frame = NULL;</div> <div>AVPacket packet;</div> <div>AVPacket enc_pkt;</div> <div></div> <div>AVStream *out_stream;</div> <div>AVStream *in_stream;</div> <div>AVCodecContext *dec_ctx;</div> <div>AVCodecContext *enc_ctx;</div> <div>AVCodec *encoder;</div> <div></div> <div>AVStream *stream;</div> <div>AVCodecContext *codec_ctx;</div> <div></div> <div>enum AVMediaType type;</div>
<div>怎么联系作者</div> <div>--o=</div> <div>3. Re:go mod模式下引用本地包/模块(module)的方法</div> <div>go mod用法，不错</div> <div>--立志做一个好的程序员</div> <div>4. Re:谷歌浏览器Chrome播放rtsp视频流解决方案 目前市面上已经有很成熟且商用 Chrome播放海康威视大华的H.264或H.265的RTSP视频流解决方案了，就是猿大师中间件，底层调用VLC的ActiveX控件可实现网页中内嵌播放多路RTSP的实时... --喵大侠</div>	

Re:如何使用UDP进行跨网段广播
主机A: 192.168.3.100 子网掩码
255.255.0.0 (手动临时修改) 主机
B: 192.168.120.100 子网掩码
255.255.255.0 主机A广播
192.168.255...

--zzhilling

```
119. unsigned int stream_index;
120. unsigned int i=0;
121. int got_frame;
122. int enc_got_frame;
123.
124.
125. fp_open = fopen("cuc60anniversary_start.ts", "rb"); //视频源文件
126. fp_write=fopen("cuc60anniversary_start.h264","wb+"); //输出文件
127.
128. av_register_all();
129. ifmt_ctx=avformat_alloc_context(); /* Allocate an AVFormatContext. */
130. avformat_alloc_output_context2(&ofmt_ctx, NULL, "h264", NULL); /* Allocate an AVFormatContext for an output format. */
131.
132.
133. inbuffer=(unsigned char*)av_malloc(32768);
134. outbuffer=(unsigned char*)av_malloc(32768);
135.
136. /*open input file*/
137. avio_in =avio_alloc_context(inbuffer, 32768,0,NULL,read_buffer,NULL,NULL);
138. if(avio_in==NULL)
139.     goto end;
140. /*open output file*/
141. avio_out =avio_alloc_context(outbuffer, 32768,1,NULL,NULL,write_buffer,NULL);
142. if(avio_out==NULL)
143.     goto end;
144.
145. ifmt_ctx->pb=avio_in; /* I/O context. input output context */
146. ifmt_ctx->flags=AVFMT_FLAG_CUSTOM_IO; /* The caller has supplied a custom AVIOContext, don't avio_close() it */
147. if ((ret = avformat_open_input(&ifmt_ctx, "whatever", NULL, NULL)) < 0) {
148.     av_log(NULL, AV_LOG_ERROR, "Cannot open input file\n");
149.     return ret;
150. }
151. if ((ret = avformat_find_stream_info(ifmt_ctx, NULL)) < 0) { /* Read packets of a media file to get stream information */
152.     av_log(NULL, AV_LOG_ERROR, "Cannot find stream information\n");
153.     return ret;
154. }
155. for (i = 0; i < ifmt_ctx->nb_streams; i++) {
156.     stream = ifmt_ctx->streams[i];
157.     codec_ctx = stream->codec;
158.     /* Reencode video & audio and remux subtitles etc. 重新编码视频和音频和翻译字幕等 */
159.     if (codec_ctx->codec_type == AVMEDIA_TYPE_VIDEO){
160.         /* Open decoder */
161.         /* Initialize the AVCodecContext to use the given AVCodec */
162.         ret = avcodec_open2(codec_ctx, avcodec_find_decoder(codec_ctx->codec_id), NULL);
163.         if (ret < 0) {
164.             av_log(NULL, AV_LOG_ERROR, "Failed to open decoder for stream #%u\n", i);
165.             return ret;
166.         }
167.     }
168. }
169. //av_dump_format(ifmt_ctx, 0, "whatever", 0);
170.
171.
172. //avio_out->write_packet=write_packet;
173. ofmt_ctx->pb=avio_out;
174. ofmt_ctx->flags=AVFMT_FLAG_CUSTOM_IO;
175. for (i = 0; i < 1; i++) {
176.     out_stream = avformat_new_stream(ofmt_ctx, NULL); /* Add a new stream to a media file. */
177.     if (!out_stream) {
178.         av_log(NULL, AV_LOG_ERROR, "Failed allocating output stream\n");
179.         return AVERROR_UNKNOWN;
180.     }
181.     in_stream = ifmt_ctx->streams[i];
182.     dec_ctx = in_stream->codec;
183.     enc_ctx = out_stream->codec;
184.     if (dec_ctx->codec_type == AVMEDIA_TYPE_VIDEO)
185.     {
186.         encoder = avcodec_find_encoder(AV_CODEC_ID_H264);
187.         enc_ctx->height = dec_ctx->height;
188.         enc_ctx->width = dec_ctx->width;
189.         enc_ctx->sample_aspect_ratio = dec_ctx->sample_aspect_ratio;
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190.     enc_ctx->pix_fmt = encoder->pix_fmts[0];
191.     enc_ctx->time_base = dec_ctx->time_base;
192.     //enc_ctx->time_base.num = 1;
193.     //enc_ctx->time_base.den = 25;
194.     //H264的必备选项, 没有就会错
195.     enc_ctx->me_range=16;
196.     enc_ctx->max_qdiff = 4;
197.     enc_ctx->qmin = 10;
198.     enc_ctx->qmax = 51;
199.     enc_ctx->qcompress = 0.6;
200.     enc_ctx->refs=3;
201.     enc_ctx->bit_rate = 500000;
202.
203.     ret = avcodec_open2(enc_ctx, encoder, NULL);
204.     if (ret < 0) {
205.         av_log(NULL, AV_LOG_ERROR, "Cannot open video encoder for stream #%u\n", i);
206.         return ret;
207.     }
208. }
209. else if (dec_ctx->codec_type == AVMEDIA_TYPE_UNKNOWN) {
210.     av_log(NULL, AV_LOG_FATAL, "Elementary stream #%d is of unknown type, cannot proceed\n", i);
211.     return AVERROR_INVALIDDATA;
212. } else {
213.     /* if this stream must be remuxed */
214.     /* Copy the settings of the source AVCodecContext into the destination AVCodecContext */
215.     ret = avcodec_copy_context(ofmt_ctx->streams[i]->codec, ifmt_ctx->streams[i]->codec);
216.     if (ret < 0) {
217.         av_log(NULL, AV_LOG_ERROR, "Copying stream context failed\n");
218.         return ret;
219.     }
220. }
221. if (ofmt_ctx->oformat->flags & AVFMT_GLOBALHEADER)
222.     enc_ctx->flags |= CODEC_FLAG_GLOBAL_HEADER;
223. }
224. //av_dump_format(ofmt_ctx, 0, "whatever", 1);
225. /* init muxer, write output file header */
226.
227. ret = avformat_write_header(ofmt_ctx, NULL);
228. if (ret < 0) {
229.     av_log(NULL, AV_LOG_ERROR, "Error occurred when opening output file\n");
230.     return ret;
231. }
232.
233. i=0;
234. /* read all packets */
235. while (1) {
236.     i++;
237.     if ((ret = av_read_frame(ifmt_ctx, &packet)) < 0) /* Return the next frame of a stream */
238.         break;
239.
240.     stream_index = packet.stream_index;
241.     if(stream_index!=0)
242.         continue;
243.
244.     type = ifmt_ctx->streams[packet.stream_index]->codec->codec_type;
245.     av_log(NULL, AV_LOG_DEBUG, "Demuxer gave frame of stream_index %u\n", stream_index);
246.     av_log(NULL, AV_LOG_DEBUG, "Going to reencode the frame\n");
247.
248.     frame = av_frame_alloc();
249.     if (!frame) {
250.         ret = AVERROR(ENOMEM);
251.         break;
252.     }
253.
254.     packet.dts = av_rescale_q_rnd(packet.dts, /* 解压缩时间戳 */
255.         ifmt_ctx->streams[stream_index]->time_base,
256.         ifmt_ctx->streams[stream_index]->codec->time_base,
257.         //(AVRounding) (AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
258.         (AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
259.     packet.pts = av_rescale_q_rnd(packet.pts, /* 显示时间戳 */
260.         ifmt_ctx->streams[stream_index]->time_base,

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261.     ifmt_ctx->streams[stream_index]->codec->time_base,
262.     //(AVRounding)(AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
263.     (AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
264.     /* Decode the video frame of size avpkt->size from avpkt->data into picture 解码输入文件 */
265.     ret = avcodec_decode_video2(ifmt_ctx->streams[stream_index]->codec, frame, &got_frame, &packet);
266.     printf("Decode 1 Packet\tsize:%d\tpts:%lld\n", packet.size, packet.pts);
267.
268.     if (ret < 0) {
269.         av_frame_free(&frame);
270.         av_log(NULL, AV_LOG_ERROR, "Decoding failed\n");
271.         break;
272.     }
273.     if (got_frame) {
274.         frame->pts = av_frame_get_best_effort_timestamp(frame);
275.         frame->pict_type=AV_PICTURE_TYPE_NONE;
276.
277.         /* Initialize optional fields of a packet with default values */
278.         enc_pkt.data = NULL;
279.         enc_pkt.size = 0;
280.         av_init_packet(&enc_pkt);
281.
282.         /* Takes input raw video data from frame and writes the next output packet, if available, to avpkt */
283.         ret = avcodec_encode_video2(ofmt_ctx->streams[stream_index]->codec, &enc_pkt, frame, &enc_got_frame);
284.         printf("Encode 1 Packet\tsize:%d\tpts:%lld\n", enc_pkt.size, enc_pkt.pts);
285.         av_frame_free(&frame);
286.         if (ret < 0)
287.             goto end;
288.         if (!enc_got_frame)
289.             continue;
290.
291.         /* prepare packet for muxing */
292.         enc_pkt.stream_index = stream_index;
293.         enc_pkt.dts = av_rescale_q_rnd(enc_pkt.dts,
294.             ofmt_ctx->streams[stream_index]->codec->time_base,
295.             ofmt_ctx->streams[stream_index]->time_base,
296.             //(AVRounding)(AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
297.             (AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
298.         enc_pkt.pts = av_rescale_q_rnd(enc_pkt.pts,
299.             ofmt_ctx->streams[stream_index]->codec->time_base,
300.             ofmt_ctx->streams[stream_index]->time_base,
301.             //(AVRounding)(AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
302.             (AV_ROUND_NEAR_INF|AV_ROUND_PASS_MINMAX));
303.         enc_pkt.duration = av_rescale_q(enc_pkt.duration,
304.             ofmt_ctx->streams[stream_index]->codec->time_base,
305.             ofmt_ctx->streams[stream_index]->time_base);
306.         av_log(NULL, AV_LOG_INFO, "Muxing frame %d\n", i);
307.
308.         /* mux encoded frame */
309.         /* Write a packet to an output media file */
310.         av_write_frame(ofmt_ctx, &enc_pkt);
311.         if (ret < 0)
312.             goto end;
313.     } else {
314.         av_frame_free(&frame);
315.     }
316.
317.     av_free_packet(&packet);
318. }
319.
320. /* flush encoders */
321. for (i = 0; i < 1; i++) {
322.     /* flush encoder */
323.     ret = flush_encoder(ofmt_ctx, i);
324.     if (ret < 0) {
325.         av_log(NULL, AV_LOG_ERROR, "Flushing encoder failed\n");
326.         goto end;
327.     }
328. }
329. av_write_trailer(ofmt_ctx);
330. end:
331. av_freep(&avio_in);


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```
332.     av_freep(&avio_out);
333.     av_free(inbuffer);
334.     av_free(outbuffer);
335.     av_free_packet(&packet);
336.     av_frame_free(&frame);
337.     avformat_close_input(&ifmt_ctx);
338.     avformat_free_context(&ofmt_ctx);
339.
340.     fclose(fp_open);
341.
342.     if (ret < 0)
343.         av_log(NULL, AV_LOG_ERROR, "Error occurred\n");
344.     return (ret? 1:0);
345. }
```

1. from: http://blog.csdn.net/li_wen01/article/details/64905959

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