



Set-up guide of Init Data

1. Value of ordinary variable in Stream_info:

- (1) video_width: if it can't be accessed, set 0
- (2) video_height: if it can't be accessed, set 0
- (3) frame_rate: if it can't be accessed, set 0
- (5) frame_duration: if it can't be accessed, set 0
- (6) aspect_ratio: if it can't be accessed, set 0
- (7) _3d_mode: CEDARV_3D_MODE_NONE (2D display mode)
- (8) is_pts_correct : 1 (ts container stream)
0 (other container)

2. value of special variable as init_data_len, init_data in Stream_info

(1) if the stream is mov, init_data is the address to store SpecificDescrTag(0x05) in esds

init_data_len is the length of SpecificDescrTag.

(2) if the stream is avi, init_data is the address to store private data in strf, init_data_len is the length of private data.

Strf (4 bytes)	Strf_len (4bytes)	Other datas (40 bytes)	private data (strf_len-40)
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(3) if the stream is mkv, init_data is the address to store Codec Private(SPS 和 PPS),

init_data_len is the data length of CodecPrivate.

V_MPEG-4/ISO/AVC MPEG-4 part 10, ISO/IEC 14496-1 0	The following structure is stored in CodecPrivate		Subtype	FOURCCMap('AVC1')
	Size (bits)	Contents	Format	MPEG2Video
	8	Reserved	dwProfile = CodecPrivate.Profile; dwLevel = CodecPrivate.Level; dwFlags = CodecPrivate.NALUSizeLength + 1; SPSs and PPSs are concatenated and stored at	
	8	Profile		
	8	Reserved		
	8	Level		
	6	Reserved		
	2	Size of NALU length minus 1		
	3	Reserved		
	5	Number of Sequence Parameter Sets		



	?	Sequence Parameter Sets, each is prefixed with a two byte big-endian size field	dwSequenceHeader, without SPS and PPS counts
	8	Number of Picture Parameter Sets	
	?	Picture Parameter Sets, each is prefixed with a two byte big-endian size field	

(4) if the stream is asf, init_data is the address to store Codec specific data, init_data_len is the data length of Codec specific data. (Codec specific data is part of format data under video media type. The structure of format data is as follows)

Field name	Field type	Size (bits)
Format Data Size	DWORD	32
Image Width	LONG	32
Image Height	LONG	32
Reserved	DWORD	16
Bits Per Pixel Count	DWORD	16
Image Size	DWORD	32
Horizontal Pixels Per Meter	LONG	32
Vertical Pixels Per Meter	LONG	32
Colors Used Count	DWORD	32
Important Colors Count	DWORD	32
Codec Specific Data	BYTE	varies

(5) if they are other streams, init_data_len = 0, init_data = NULL;

3. value of special variable as format, sub_format, container_format in Stream_info comes from driver and stream format

3.1 mpeg2 driver

(1) format = CEDARV_STREAM_FORMAT_MPEG2

(2) sub_format = CEDARV_MPEG2_SUB_FORMAT_MPEG1 (format is mpeg1)

= CEDARV_MPEG2_SUB_FORMAT_MPEG2 (format is mpeg2)

(3) container_format = CEDARV_CONTAINER_FORMAT_UNKNOW

3.2 rmvb driver

(1) format = CEDARV_STREAM_FORMAT_REALVIDEO

(2) sub_format = CEDARV_SUB_FORMAT_UNKNOW

(3) container_format = CEDARV_CONTAINER_FORMAT_UNKNOW

3.3 h264 driver

(1) format = CEDARV_STREAM_FORMAT_H264



(2) sub_format = CEDARV_SUB_FORMAT_UNKNOWN

(3) container_format = CEDARV_CONTAINER_FORMAT_TS (ts stream)
= CEDARV_CONTAINER_FORMAT_UNKNOWN(others)

3.4 vc1 driver

(1) format = CEDARV_STREAM_FORMAT_VC1

(2) sub_format = CEDARV_SUB_FORMAT_UNKNOWN

(3) container_format = CEDARV_CONTAINER_FORMAT_TS (ts stream)
= CEDARV_CONTAINER_FORMAT_UNKNOWN(others)

3.5 mJpeg driver

(1) format = CEDARV_STREAM_FORMAT_MJPEG

(2) sub_format = CEDARV_SUB_FORMAT_UNKNOWN

(3) container_format = CEDARV_CONTAINER_FORMAT_UNKNOWN

3.6 vp8 driver

(1) format = CEDARV_STREAM_FORMAT_VP8

(2) sub_format = CEDARV_SUB_FORMAT_UNKNOWN

(3) container_format = CEDARV_CONTAINER_FORMAT_UNKNOWN

3.7 mpeg4 driver

(1) format = CEDARV_STREAM_FORMAT_MPEG4

(2) sub_format

= CEDARV_MPEG4_SUB_FORMAT_XVID(format is xvid, pmp4, fmp4, mp4v)

= CEDARV_MPEG4_SUB_FORMAT_DIVX3 (format is div3 or div4, mp43)

= CEDARV_MPEG4_SUB_FORMAT_DIVX4 (format is divx)

= CEDARV_MPEG4_SUB_FORMAT_DIVX5(format is div5, dx50)

= CEDARV_MPEG4_SUB_FORMAT_SORENSSON_H263(format is flv1)

= CEDARV_MPEG4_SUB_FORMAT_RMG2(format is rmg2)

= CEDARV_MPEG4_SUB_FORMAT_H263(format is h263)

= CEDARV_MPEG4_SUB_FORMAT_VP6 (format is vp62)

= CEDARV_MPEG4_SUB_FORMAT_WMV1(format is wmv1)

= CEDARV_MPEG4_SUB_FORMAT_WMV2(format is wmv2)

= CEDARV_CONTAINER_FORMAT_UNKNOWN

(3) container_format = CEDARV_CONTAINER_FORMAT_ASF (asf)

= CEDARV_CONTAINER_FORMAT_FLV (flv)

= CEDARV_CONTAINER_FORMAT_UNKNOWN(other stream)