

# (解码) 2.avformat\_find\_stream\_info()

该函数可以读取一部分视音频数据并且获得一些相关的信息。

```
1  /**
2   * Read packets of a media file to get stream information. This
3   * is useful for file formats with no headers such as MPEG. This
4   * function also computes the real framerate in case of MPEG-2 repeat
5   * frame mode.
6   * The logical file position is not changed by this function;
7   * examined packets may be buffered for later processing.
8   *
9   * @param ic media file handle
10  * @param options If non-NULL, an ic.nb_streams long array of pointers to
11  *               dictionaries, where i-th member contains options for
12  *               codec corresponding to i-th stream.
13  *               On return each dictionary will be filled with options that were not found
14  * @return >=0 if OK, AVERERROR_xxx on error
15  *
16  * @note this function isn't guaranteed to open all the codecs, so
17  *       options being non-empty at return is a perfectly normal behavior.
18  *
19  * @todo Let the user decide somehow what information is needed so that
20  *       we do not waste time getting stuff the user does not need.
21  */
22 int avformat_find_stream_info(AVFormatContext *ic, AVDictionary **options);
```

简单介绍一下它参数的含义

- 1 ic: 输入的AVFormatContext。
- 2 另外的一个参数的含义: 格外的选项

记录一下这个函数的要点:

该函数实际上已经“走通”的解码的整个流程。如下是几个关键流程

- 1 查找解码器: find\_decoder()
- 2 打开解码器: avcodec\_open2()
- 3 读取完整的一帧压缩编码的数据: read\_frame\_internal()
- 4 注: av\_read\_frame()内部实际上就是调用的read\_frame\_internal()。
- 5 解码一些压缩编码数据: try\_decode\_frame()

- `has_codec_parameters`用来检查AVstream中的成员变量是否设置完毕