WHAT IS CLAIMED IS:

1. A decoding method, comprising:

buffering one or more stream segments of a data stream which are received, wherein the data stream comprises an audio stream;

parsing the one or more stream segments buffered until header information is obtained through the parsing, comprising: determining whether a total data length of all stream segments currently buffered reaches a preset frame length, parsing data of the preset frame length from a starting position in the stream segments currently buffered, in a case where the total data length of all the stream segments currently buffered reaches the preset frame length, determining whether the header information is successfully parsed, updating the preset frame length by increasing the preset frame length by a preset value, in a case where the header information is not successfully parsed, and repeating the above until the header information is parsed, wherein not every stream segment contains the header information;

storing the header information; and

decoding stream segments of the audio stream among various stream segments received according to the header information until the audio stream is completely decoded.

2. The decoding method according to claim 1, wherein the parsing the one or more stream segments buffered until header information is obtained through the parsing further comprises:

in a case where the total data length of all the stream segments currently buffered does not reach the preset frame length, after receiving and buffering a next stream segment, re-determining whether the total data length of all the stream segments currently buffered reaches the preset frame length.

3. The decoding method according to claim 1, wherein the decoding stream segments of the audio stream among various stream segments received according to the header information comprises:

determining a length of an audio frame according to the header information; and

decoding the stream segments of the audio stream among the various stream segments received by distinguishing different audio frames according to the length of the audio frame.

4. The decoding method according to claim 3, wherein the decoding the stream segments of the audio stream among various stream segments received by distinguishing different audio frames according to the length of the audio frame comprises:

dividing a current stream segment of the audio stream according to a sequence defined by a data encapsulation format and according

to the audio frame length to obtain one or more complete audio frames;

decoding the one or more complete audio frames;

determining whether data at an end of the current stream segment of the audio stream belongs to an incomplete audio frame;

in a case where the data at the end of the current stream segment of the audio stream belongs to the incomplete audio frame, buffering the incomplete audio frame;

after receiving a next stream segment of the audio frame, splicing the next stream segment with the incomplete audio frame to obtain a spliced stream segment;

taking the spliced stream segment as the current stream segment of the audio stream; and

repeating the above until a last stream segment of the audio stream is completely decoded.

5. The decoding method according to claim 1, wherein the decoding stream segments of the audio stream among various stream segments received according to the header information until the audio stream is completely decoded comprises:

parsing a current stream segment or parsing the current stream segment and stream segments following the current stream segment in a case where a failure is occurred in the decoding of the current stream segment of the audio stream based on the header

information, until new header information is obtained through the parsing; and

decoding the stream segments following the current stream segment according to the new header information until the audio stream is completely decoded.

6. The decoding method according to claim 1, wherein the parsing the one or more stream segments buffered until header information is obtained through the parsing comprises:

parsing the one or more stream segments buffered by calling an Open avformat method in FFmpeg until the header information is obtained through the parsing.

7. The decoding method according to claim 1, wherein the decoding stream segments of the audio stream among various stream segments received according to the header information comprises:

determining whether the data stream comprises a data stream other than the audio stream according to the header information;

in a case where the data stream comprises the data stream other than the audio stream, separating the data stream other than the audio stream from the audio stream;

determining format information of the audio stream according to the header information;

transcoding the stream segments of the audio stream into an

original audio stream according to the format information of the audio stream; and

re-sampling the original audio stream at a preset bit rate.

8. The decoding method according to claim 7, wherein:

the data stream other than the audio stream is separated from the audio stream by calling a Separate stream method in FFmpeg;

the format information of the audio stream is determined according to the header information, the stream segments of the audio stream are transcoded into the original audio stream according to the format information of the audio stream, and the original audio stream is re-sampled at the preset bit rate, by calling a Parse format method in FFmpeg.

9. A decoding apparatus, comprising:

a buffering module configured to buffer one or more stream segments of a data stream which are received, wherein the data stream comprises an audio stream;

a header information parsing module configured to parse the one or more stream segments buffered until header information is obtained through the parsing, comprising: determining whether a total data length of all stream segments currently buffered reaches a preset frame length, parsing data of the preset frame length from a starting position in the stream segments currently buffered,

in a case where the total data length of all the stream segments currently buffered reaches the preset frame length, determining whether the header information is successfully parsed, updating the preset frame length by increasing the preset frame length by a preset value, in a case where the header information is not successfully parsed, and repeating the above until the header information is parsed, wherein not every stream segment contains the header information;

a header information storage module configured to store the header information; and

a decoding module configured to decode stream segments of the audio stream among various stream segments received according to the header information until the audio stream is completely decoded.

10. A decoding apparatus, comprising:

a processor; and

a memory coupled to the processor for storing instructions, which when executed by the processor, cause the processor to execute the decoding method according to any one of claims 1 to 8.

11. A non-transitory computer-readable storage medium having a computer program stored thereon, wherein the program when executed by a processor, cause the processer to implement the steps of the method according to any one of claims 1 to 8.