

CSEQ File Format

File Setup

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- 12-byte chunks
- 8-byte chunks
- Extra Info
- Sequence Header
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File Header

Length	Endianness	Description
4	Little	File size
1	N/A	12-byte chunk count
1	N/A	8-byte chunk count
2	little endian	Extra Info Length

12-byte chunk count

-Number of 12-byte chunks.

8-byte chunk count

-Number of 8-byte chunks.

Extra Info Length

-If it's a 1, count 5 bytes, if it's a 3, count 9 bytes.

12-byte chunks

Don't have a clue what these could represent. No apparent relation to track count.

8-byte chunks

Don't have a clue what these could represent. No apparent relation to track count.

Extra Info

Don't know what the data represents.

Sequence Data Header

Length	Endianness	Description
1	N/A	Track Count
2	little	Tempo in BPM
2	little	TPQN (Ticks per quarter note)

Track Count

-The number of sequence tracks in the file.

Tempo in BPM

-MIDI stores tempo in terms of MPQN (Microseconds per quarter note), but this format stores BPM(Beats per minute).

TPQN

-Sequence ticks per quarter note. It always seems to be 0x78 (120).

Track Offsets

Length	Endianness	Description
2	little	Track Offset

Track Offset

-The address location relative to the beginning of the sequence data.

Sequence Data

-Sequence data is a collection of sequence events.

Sequence event

Length	Endianness	Description
Var	big	delta time
1	N/A	sequence opcode
?	?	data (length depends on sequence opcode)

Delta-time

-Delta-time is the number of sequence ticks since the last event in the track. Variable-length value.

Sequence opcode and data

Indicates event type. Different event types have different data.

0x05=Note On

Length	Endianness	Description
1	N/A	Pitch
1	N/A	Velocity

0x01=Note Off

Length	Endianness	Description
1	N/A	Pitch

0x07,0x02,0x09 = ?? I don't know what these opcodes represent. Modulation? Pan? Other?

Length	Endianness	Description
1	N/A	??

0x03=End of Track

Length	Endianness	Description
0	N/A	??