MIDIBox Fx Option

The MIDIBox **Fx Option** (special sound effects option) is needed for more complex sound creation. With the MIDIBox AY **Fx Option** it is possible to do timed sound modifications.

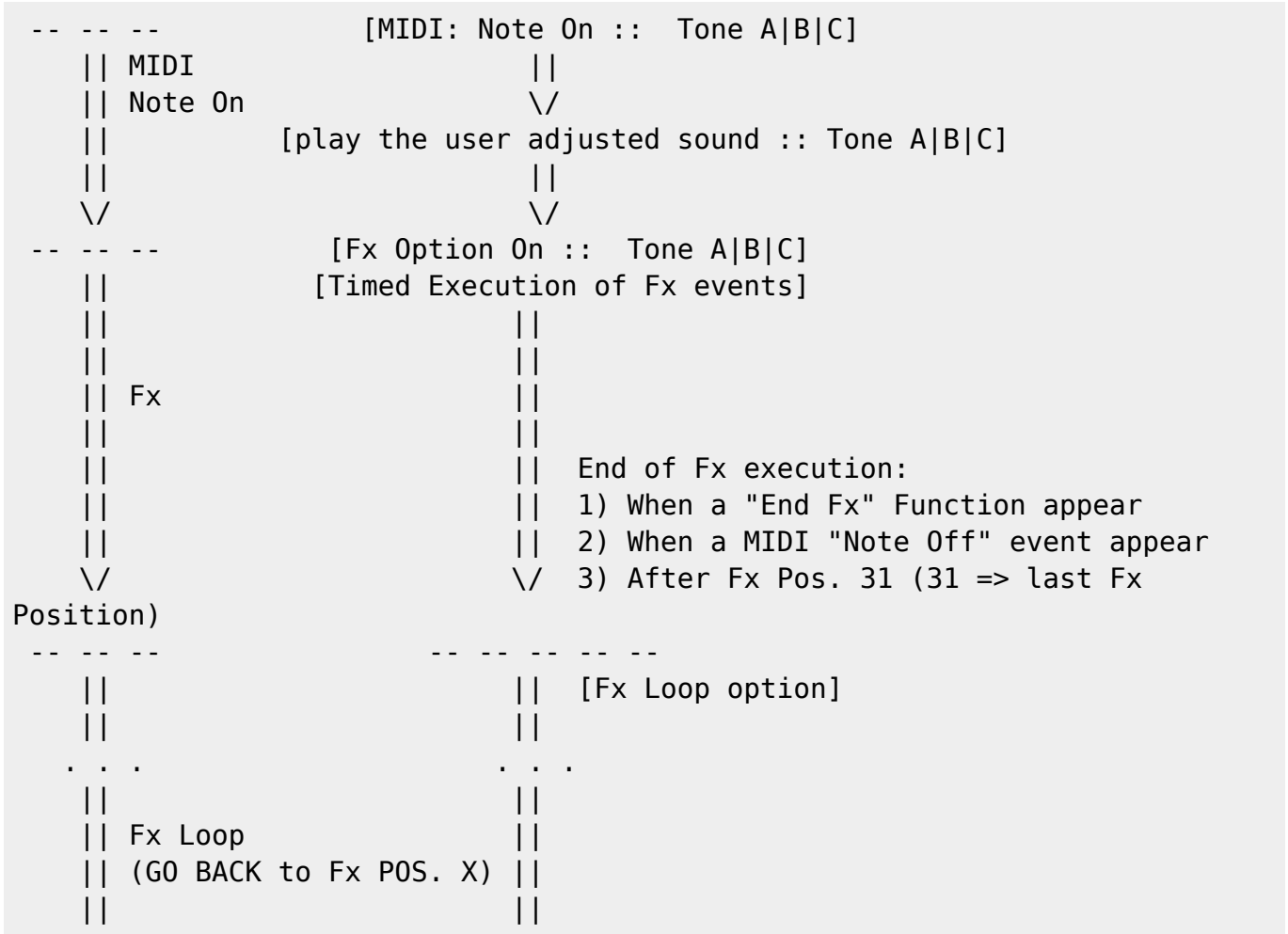
Concept:

You can enable the **Fx Option** via the **MIXER MENU** [Press Key F3] [toggle **Fx Option** on/off via key A,B,C]. If the **Fx Option** is activated - just **adjust Fx Functions** at the **Fx Menu** [Press F8] ...

Fx Menu:

- [Fx Function] ⇒ See **Fx Functions list** below
- [Fx Pos] ⇒ Fx Position (the Fx chart allow 32 (POS 0-31) entries)
- [Fx Time] ⇒ Adjust the **Fx execution timer**: Wait 0-100 timer cycles **befor** the current Fx execution.
- [Fx Data] ⇒ Optional **Fx Function Data** (See Fx Functions list below)

Fx execution workflow:



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    ||                          ||
    \/                          \/   Fx Loop (end via MIDI Note Off)
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Fx Functions list

- 0 ⇒ End Fx (Fx Off)
- 1 ⇒ On Tone A
- 2 ⇒ Off Tone A
- 3 ⇒ On Tone B
- 4 ⇒ Off Tone B
- 5 ⇒ On Tone C
- 6 ⇒ Off Tone C
- 7 ⇒ +Tune A [Data: 0-255]
- 8 ⇒ -Tune A [Data: 0-255]
- 9 ⇒ +Tune B [Data: 0-255]
- 10 ⇒ -Tune B [Data: 0-255]
- 11 ⇒ +Tune C [Data: 0-255]
- 12 ⇒ -Tune C [Data: 0-255]
- 13 ⇒ Vol.A [Data: 0-15] (This function overrides the ENVELOPE Mode during the Fx period)
- 14 ⇒ Vol.B [Data: 0-15] (This function overrides the ENVELOPE Mode during the Fx period)
- 15 ⇒ Vol.C [Data: 0-15] (This function overrides the ENVELOPE Mode during the Fx period)
- 16 ⇒ On Noise A
- 17 ⇒ Off Noise A
- 18 ⇒ On Noise B
- 19 ⇒ Off Noise B
- 20 ⇒ On Noise C
- 21 ⇒ Off Noise C
- 22 ⇒ Noise Frq. [Data: 0-31]
- 23 ⇒ ENV ON A [ENVELOPE MODE TONE A ON, WRITE CURREND ENVELOPE SHAPE/CYCLE]
- 24 ⇒ ENV OFF A [ENVELOPE MODE TONE A OFF]
- 25 ⇒ ENV ON B [ENVELOPE MODE TONE B ON, WRITE CURREND ENVELOPE SHAPE/CYCLE]
- 26 ⇒ ENV OFF B [ENVELOPE MODE TONE B OFF]
- 27 ⇒ ENV ON C [ENVELOPE MODE TONE C ON, WRITE CURREND ENVELOPE SHAPE/CYCLE]
- 28 ⇒ ENV OFF C [ENVELOPE MODE TONE C OFF]
- 29 ⇒ ENV Shape [Write Global ENVELOPE SHAPE (Shape ⇒ Fx Data 1-8)]
- 30 ⇒ ENV TIME Fine [Write Global Envelope Time (fine) to Fx Data (0-255)]
- 31 ⇒ ENV TIME Coarse [Write Global Envelope Time (coarse) to Fx Data (0-255)]
- 32 ⇒ WRITE NOTE ON #1 ==⇒ Tone A (*)
- 33 ⇒ WRITE NOTE ON #1 ==⇒ Tone B
- 34 ⇒ WRITE NOTE ON #1 ==⇒ Tone C
- 35 ⇒ WRITE NOTE ON #2 ==⇒ Tone A
- 36 ⇒ WRITE NOTE ON #2 ==⇒ Tone B
- 37 ⇒ WRITE NOTE ON #2 ==⇒ Tone C
- 38 ⇒ WRITE NOTE ON #3 ==⇒ Tone A
- 39 ⇒ WRITE NOTE ON #3 ==⇒ Tone B
- 40 ⇒ WRITE NOTE ON #3 ==⇒ Tone C
- 41 ⇒ GOTO Fx POS [Data: 0-31] (Fx Loop Option)

(*)

Every time when a **Note On** event occur the **MIDI Note** will be written to ⇒ MIDI Note On #1. MIDI Note On #1 will be written to MIDI Note On #2, MIDI Note On #2 will be written to MIDI Note On #3 This will enable a sorta “**Chord Arpeggios**” [via Fx Option]

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