The Rules of Making MIDI files for U-KEY&VX v1_hbe_c11_2007-06-021

- There are 4 types of file can be played by keyboard:

    1、Be encrypted special MIDI file ".CSF" format (CME STYLE FILE)

    2、Special MIDI file ".MID"

    3、Unspecial MIDI file ".MID"

Following is the rules of special MIDI file format for U-KEY and VX:

General requirement:
- File format: MIDI format
- File size: less than 56K /each song
- 48-480 Tick (recommend 120 Tick)
- Velocity within 40-250
- Using the timbre and controller of GM spec
- Using 8-16 channels at most, and recommending to use the assign tenet as followed:
    - ch 8---Melody (must be) & Chord Marker (only VX)
    - ch 9---Bass (must be)
    - ch 10---Drums & Percussion (must be)
    - ch 11---Rhythm chord 1 (ex. Guitar)
    - ch 12---Rhythm chord 2 (ex. Keyboard)
    - ch 13---Pad chord 1 (ex. Organ, Strings)
    - ch 14---Pad chord 2 (ex. Synth)
    - ch 15---Others 1
    - ch 16---Others 2

Ch/Pan	Name
8	Chord
8	Melody
9	Bass
10	Drums
11	Rhythm1
12	Rhythm2
13	Pad1
14	Pad2
15	Others1
16	Others2

- There must be one melody track, using channel 8
- It must have one chord marking track, using channel 8, and using "Text Event" to mark the changes of chord.

- If there is voice part of BASS, it needs to use channel 9
- If there is voice part of percussion instrument, it needs to use channel 10
- The changes of vocality within the voice part, please use the expression CC#11,not CC#7
- The song can use discretional chord as you like
- The most complex tone number is 64

Song header requirement:
- The 0 position of song header must have the Marker of "cme style" (not including quotation mark)
- From the 0 position , Marker signs "SetStart" to start , and signs "SetEnd" to end. Time signature:1/4, length:1 knobble, velocity:200.
- There must be 8 pairs(U-key) or 12 pairs(VX) as followed to use signing paragraphs of the song , and the least length of each paragraph is one measure:
  - LoopStart1 LoopEnd1
  - LoopStart2 LoopEnd2
  - LoopStart3 LoopEnd3
  - LoopStart4 LoopEnd4
  - LoopStart5 LoopEnd5
  - LoopStart6 LoopEnd6
  - LoopStart7 LoopEnd7
  - LoopStart8 LoopEnd8
  - LoopStart9 LoopEnd9
  - LoopStart10 LoopEnd10
  - LoopStart11 LoopEnd11
  - LoopStart12 LoopEnd12

L1	L2	L3	Type	Value1
0001	01	000	Time Signature	01/04
0001	01	000	Tempo	200
0001	01	000	Marker	cme style
0001	01	000	Marker	SetStart
0002	01	000	Marker	SetEnd
0002	01	000	Time Signature	04/04
0002	01	000	Tempo	110
0002	01	000	Marker	LoopStart1
0006	01	000	Marker	LoopEnd1
0006	01	000	Marker	LoopStart2
0010	01	000	Marker	LoopEnd2
0010	01	000	Marker	LoopStart3
0014	01	000	Marker	LoopEnd3
0014	01	000	Marker	LoopStart4
0018	01	000	Marker	LoopEnd4
0018	01	000	Marker	LoopStart5
0026	01	000	Marker	LoopEnd5
0026	01	000	Marker	LoopStart6
0028	01	000	Marker	LoopEnd6
0028	01	000	Marker	LoopStart7
0032	01	000	Marker	LoopEnd7
0032	01	000	Marker	LoopStart8
0034	01	000	Marker	LoopEnd8
0034	01	000	Marker	LoopStart9
0038	01	000	Marker	LoopEnd9
0040	01	000	Marker	LoopStart10
0044	01	000	Marker	LoopEnd10
0048	01	000	Marker	LoopStart11
0049	01	000	Marker	LoopEnd11
0053	01	000	Marker	LoopStart12
0055	01	000	Marker	LoopEnd12

- The 0 position of song header has the special info of GM ON system F0 7E 7F 09 01 F7 (in 1 channel)
- Orbital song header info from 1:1:200 beginning, the distance of each info is 5 Tick (480 Tick)。

L1	L2	L3	Type	Value1	Value2
0001	01	200	Control	Modulation [1]	[0]
0001	01	205	Control	Bank Select MSB [0]	Melody [0]
0001	01	210	Control	Bank Select LSB [32]	Capital [0]
0001	01	215	Program	Alto Sax [66]	
0001	01	220	Control	Reverb Send [91]	[40]
0001	01	225	Control	Chorus Send [93]	[0]
0001	01	230	Control	Expression [11]	[127]
0001	01	235	Control	Pan [10]	[64]
0001	01	240	Control	Volume [7]	[110]
0001	01	245	Control	RPN MSB [101]	[0]
0001	01	250	Control	RPN LSB [100]	[0]
0001	01	255	Control	Data Entry MSB [6]	Pitch Bend Sensitivity [2]
0001	01	260	Pitch Bend	[0]	

- All the notes appear from the second measure, signing time signature and velocity at the second measure.
- If there is a change of time signature or velocity thereinto the song, you need to sign at the beginning of all the paragraphs.
- If it appears a change of timbre or controller or something else, you

should sign at the beginning of all the paragraphs.
- Using pedal and pitchbend are allowed.
- Please see "sample.mid" for example
- The final file name should be less than 12 letters

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