	-FILE MGR- -FILE MGR- OK OK OAD File REC/PLAY All MIDI MSG STOP / PAUSE-CONTINUE REC/PLAY All MIDI MSG STOP / PAUSE-CONTINUE REC/PLAY All MIDI MSG REC/PLAY ALL	Channel >MIDI-In & SEQUENCER-Out Activity DISPLAY 10 on 12 3 4 5 6 7 8 9 10111213141516 RST Pitch 0 0 0 0 Pitch 0 0 0 0 0 MIDI Note 0 AT 0 0 0 0 © C# D D# E F F# G G# A A# B 0 0 0 0 0 0 V0 0 0 0 0 0 0 0 0 0
40 <temp0>240 BPM < PLAYBACK > 120 ○ ○ ① ① ① ① × ④ ○ Welcome_to_Simple-MIDI-Se ⑦ Last MIDI file □ ₽</temp0>	FILE TYPE -mm:ss- CHRONO -Reads SMF T0+1 + Txt 0:00 -0/1 (.mid, .kar, .xyz) -writes SMF T0 + Txt 0:00 -0/1 writes SMF T0 + Txt 0< <rec play="">O 0 quencer_(SMS)! 0 0 0 anic! RST 1-16xTracks/16xChannels or</rec>	0 1 2 3 4* 5 6 7 8 T Middle C* Middle 60 0 20 1 -
On AUDIO Off Off MIDI Off MIDI CRST Copy +Stop Copy +Stop Copy +Stop O Comp - - - - - - - - - - - - -	OGG OW MP3	>GM Controllers - PC & CC MIDI-Out 0 0 - Ch - 00 711cc PC VOL/EXP 0 1 - Ctrls 0 0 2 - Ch - 00 711cc PC VOL/EXP 0 2 - Ch - 00 711cc PC VOL/EXP 0 1 - 00 - 0 0 0 1 - 00 - 0 Value + 00 0 1 - 00 - 0 Value + 00 0 1 - 00 - 0 Value + 00 0 1 - 00 - 0 Value + 00 0 1 - 00 - 0 Value + 00 0 1 - 00 - 0 Value + 00 0 1 - 00 - 0 Value - 00 0 - 0 Value - 00

<u>Simple MIDI Sequencer (SMS) — Main Features</u>

- Compatible with at least GNU/Linux + macOS + Windows Operating systems (Thanks to Purr Data)
- Compliant with General MIDI 1 (GM 1) specifications based on Standard MIDI-File (SMF) Format Spec. 1.1
- GUI with 15x Zoom levels + Full screen view
- Modular design architecture allowing easy and freely reuse of modules (patchs/sub-patchs) in other projects • **5x Main Modules with GOP** (Graph-on-Parent – GUI):
- [pd seq] + [pd display] + [pd ctrls] + [pd audio] + [pd dt] • 3x Additional Modules (without GOP): [pd help] + [pd tools] + [pd license]

■ <u>MIDI Sequencer & Player (General Purpose)</u> - [pd seq] (16-bit resolution with user defined 44.1 or 48 kHz sample MIDI-In/Out Sequencer for real-time performances

Record 1x Track / 16x Channels (Type 0) + SYSEX (System Exclusive)

 Play SMF (Standard MIDI File) Types 0 (mono-track) and 1 (multi-track) & Text files (Purr Data format) + SYSEX (System Exclusive)

Read/Write MIDI files (.mid, .kar & .txt) from/to RAM/ HDD-SSD-USB

Playback Tempo from 40 to 240-480 BPM

 Record/Play Chronograph (mm:ss) up to several hours Banner for MIDI & Audio messages from SMS to the performer

■ <u>MIDI-In & Sequencer-Out Activity</u> - [pd display] Displays MIDI Messages in real-time

Notes: channel (1-16) / number-pitch (0-127) / velocity (0-127) / bend (only MSB 0->63<-127) / after-touch & breath like (0-127) / name (C-G#) / octave (with P#60=C4: #0-8 & P-Scale#12-119), •Volume and Expression (CC): levels (0-127), •Control Changes (CC): channel (1-16) / number (0-127) / value (0-127), •Program Changes (PC): channel (1-16) / number (0-127), •SysEx In/Out: flow $(240_{d}...xxx...247_{d} / F0_{b}...xx...F7_{b})$



■ <u>GM Controllers – PC & CC MIDI-Out</u> - [pd ctrls] Ix Program Change (PC) + 12x Control Change (CC) Controllers

 Send predefined & user defined GM Controllers messages to internal/external MIDI equipment: •CC channel (1-16) / number (0-127) / value (0-127) with the possibility to combine MSB & LSB values -and- •PC channel (0-127) / number (0-127)

■ <u>Audio/Voice Recorder & Player</u> - [pd audio] Direct to/from disk

 Record/Play stereo Audio tracks with CD/DVD quality rate based on Nyquist-Shannon sampling theorem)

 Write/Read Audio files: free/libre .OGG (Vorbis), Microsoft .WAV, Apple .AIF, Sun/Next .AU and .SND

•Write Audio files: .MP3... but .MP3 Read is not available yet!

 Synchronized Copy of MIDI-to-Audio files: Read MIDI from-RAM => Synth / SoundFont => Write Audio to-Disk

Recorder/Player Stereo Graphs & Vu-Meters

Record/Play Chronograph (mm:ss) up to several hours

■ [pd dt] - Display current Date & Time (useful when SMS is in full screen view)

■ [pd help] - An embedded help on How-To use SMS (today only in English)

■ [pd tools] - 5x useful MIDI/Audio tools

•MIDI Chords Detector/Guesser (up to 6 notes with Highest MIDI note number limit)

 MIDI Notes Scaler (scales a stream of numbers to a MIDI note number)

•MIDI-to-Frequency Converter (convert MIDI Note Nbs to Wave/Signal Frequency Nbs)

 Frequency-to-MIDI Converter (convert Wave/Signal Frequency Nbs to MIDI Note Nbs)

•7x MIDI Channel Status / Hex₍₁₆₎-to-Decimal₍₁₀₎ Converters: Note Off/On (8n_b/9n_b), Poly Key AfterTouch (An_k), Control Change (CC) On (Bn_k), Program Change (PC) On (Cn_k), Channel AfterTouch (Dn_k) and Pitch Bend (En_{h})