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Synergy V3.22 MIDI Support            R Grieb        8/24/2018
(Based on looking at the MIDI source code)


Incoming messages:


Note On (90h)
    28dec subtracted from note number to get key number
    velocity set to MIDI velocity value
    if vel=0, then release key
    otherwise, press key

Note Off (80h)
    28dec subtracted from note number to get key number
    velocity set to MIDI velocity value
    release key


Poly Key pressure/after touch (A0h) clears running status and exits MIDI code


Control Change (B0h)
    CC #1 is used for modulation, value is divided by two
    CC #64 is Regular pedal control
    CC $65 is Middle pedal control
    CC #122 is Local control off if value is 0
    CC #122 is Local control on if value not 127 and not 0
    CC #123 is All notes off if value is 0
    CC #124 is OMNI mode off if value is 0
    CC #126 is OMNI mode on if value is 0


Program change (C0h) clears running status and exits MIDI code


Channel pressure/after touch (D0h) clears running status and exits MIDI code


Pitch Bend (E0h)
        64dec subtracted from value to make it signed
        Set bend to value if in range


Real Time Messages (F8-FFh)


        F8h             Clock (ignored)
        F9h             Undefined (ignored)
        FAh             Start
        FBh             Continue (ignored)
        FCh             Stop
        FDh             Undefined (ignored)
        FEh             Active Sensing (ignored)
        FFh             System reset (causes reboot)


Outgoing messages:


Note On - Sent for keys to the left of split point, with velocity
28dec added to key number to form MIDI note number

Note Off - Sent for keys to the left of split point, with velocity
28dec added to key number to form MIDI note number
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Current Modulation pot value - Sent as CC#1

Sequence On, sent as FAh status message

Sequence Stop, sent as FCh status message

Regular Pedal Change - Sent as CC#64, value = 127 for press, 0 for release

Middle Pedal Change - Sent as CC#65, value = 127 for press, 0 for release