PCH2CSD STATUS ON **13/10/24**

COLOR CODES FOR **STATUS and NEXT TO-DOs SECTIONS**:

GREEN – OK

PALE GREEN – OK WITH SOME TODO

YELLOW – JUST A QUESTION OF TIME

ORANGE – (PROBABLY) TOUGH

GREEN COLOR IN **GROUP SECTION** MEANS IT WAS UPDATED FROM THE PREVIOUS DOC UPDATE

**Cnt to end** means number of modules in the category to reach the first target of the roadmap i.e. all modules are implemented at least somehow.

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| **Group** | **Status** | **Next TO-DOs** | **Cnt to end** |
| **In/Out** | Almost completed. See TODO for *Status* module | - | - |
| **Oscillators** | Majority of OSCs are OK.  Some things to be clarified i.e. decay times, waveshaping oscs waves etc. | *MetNoise* is the next real thing to do.  *DX* model is not yet implemented (though *DXRouter* is done) | *2* |
| **Random** | RandomA & B are OK in statistical sense. | Probably to try get the whole rand sequence.. also analyze Rnd1 vs Rnd2 and impl RndTrig | 4(6) |
| **Filter** | *LP, HP, all EQs, WahWah, Vocoder, Voice* (under testing), *Static* | *Multi* is just a matter of time. Find the closest opcode to *Nord* and *Classic* filters. | *5* |
| **Delay** | Completed | Common check needed and also filter values for the last units | - |
| **Level** | Completed | Common check needed | - |
| **Switch** | Completed | Need revisiting and checking | - |
| **Seq** | Completed | Audio rate versions are not implemented yet | (5) |
| **Note** | *NoteQuant*, *NoteScaler, ZeroCounter* (blue mode only), *LevelScaler*.  *KeyQuant* (Closest mode only), *Glide* | *PartQuant, PitchTracker* | *2* |
| **LFO** | Completed without two last LFOA waveforms. Needs checking. | Two last LFOA waveforms still need to be done. Random sequences seem to be long, at least 10min records shows no repetitions. | 1 |
| **Env** | Completed | Needs general checking, EnvASR needs small feature add | *-* |
| **FX** | *Flanger* & *Chorus* are done (with good precision). *FreqShift & Digitizer* are added, but NM’s FFT is dirtier. *Compressor* is done. *Phasor* is a bit different but OK so far | *Reverb* is finally reversed, just need some more time to code. Also *Scratcher* | *2* |
| **Shaper** | *Clip, Wrap, Static, ShpExp* and *Rect* are done, mostly without modulation feature. *Saturate* needs checking | *Drive* | *1* |
| **Mixers** | Completed | Four last modules need checking in modulation mode | - |
| **Logic** | Completed | Check switch time for better simulation | - |
| **MIDI** | Completed | - | - |