# Transposition & Shifting Inputs and Outputs

| CDP FUNCTION | Mode | Input 1 | Input 2 OR Output | Output | Key Parameters/[Comments] |
|---|---|---|---|---|---|
| REPITCH ANALENV (create binary envelope file) | None | `in.ana` | | `out.evl` | [binary envelope file] Use with ENVEL IMPOSE |
| REPITCH GENERATE (make own pitch data) | None | `inmidipitch-data.txt` | | `out.frq` | [binary pitch data file] Use with REPITCH COMBINE or COMBINEB |
| REPITCH GETPITCH (get pitch trace) | 1 | `in.ana` | `outlisten.ana` | `out.frq` | [binary pitch data file] |
| | 2 | `in.ana` | `outlisten.ana` | `out.brk` | [breakpoint (text) file] |
| REPITCH TRANSPOSE (M4: route for .trn to .ana) | 1–3 | `in.ana` | | `out.ana` | *transpose* (ratio, 8$^{ves}$, semitones) |
| | 4 | `in.ana` | `in.trn` | `out.ana` | [ready to synthesise] |
| REPITCH TRANSPOSEF (M4: route for .trn to .ana) | 1–3 | `in.ana` | | `out.ana` | `-p` or `-f` (formant extraction) *transpose* (ratio, 8$^{ves}$, semitones) |
| | 4 | `in.ana` | `in.trn` | `out.ana` | `-p` or `-f` (formant extraction) [ready to synthesise] |
| REPITCH COMBINE NB: creates .trn outputs | 1 | `in1.frq` | `in2.frq` | `out.trn` | [can be input to REPITCH TRANSPOSE/F] |
| | 2 | `in.frq` | `in.trn` | `out.frq` | [can be given to another .frq processor] |
| | 3 | `in1.trn` | `in2.trn` | `out.trn` | [can be input to REPITCH TRANSPOSE/F] |
| PITCH TRANSP | 1-3 | `in.ana` | | `out.ana` | *frq_split* [frequency split point] |
| | 4-5 | `in.ana` | | `out.ana` | *frq_split* [frequency split point] *transpose* [semitones] |
| | 6 | `in.ana` | | `out.ana` | *frq_split* [frequency split point] *transpose1 transpose2* [semitones] |
| PITCH OCTMOVE | 1-2 | `in.ana` | `in.frq` | `out.ana` | *transposition* (integer >0: follows harmonic series) [in.frq is derived from in.ana] |
| | 3 | `in.ana` | `in.frq` | `out.ana` | *transposition bassboost* |
| STRANGE SHIFT | 1 | `in.ana` | | `out.ana` | *frqshift* (in Hz) |
| | 2-3 | `in.ana` | | `out.ana` | *frqshift frq_divide* (in Hz) |
| | 4-5 | `in.ana` | | `out.ana` | *frqshift frqlo frqhi* (in Hz) |
| REPITCH APPROX | 1 | `in.frq` | | `out.frq` | *prange trange srange* |
| | 2 | `in.frq` | | `out.trn` | *prange trange srange* |
| REPITCH EXAG | 1 | `in.frq` | | `out.frq` | *meanpch range* |
| | 2 | `in.frq` | | `out.trn` | *meanpch range* |
| | 3 | `in.frq` | | `out.frq` | *meanpch contour* |
| | 4 | `in.frq` | | `out.trn` | *meanpch contour* |

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| | 5 | `in.frq` | | `out.frq` | *meanpch range contour* |
| | 6 | `in.frq` | | `out.trn` | *meanpch range contour* |
| REPITCH INVERT | 1 | `in.frq` | | `out.frq` | *map* (file) ... |
| | 2 | `in.frq` | | `out.trn` | *map* (file) ... |
| REPITCH CUT | 1 | `in.frq` | | `out.frq` | *starttime* |
| | 2 | `in.frq` | | `out.frq` | *endtime* |
| | 3 | `in.frq` | | `out.frq` | *starttime endtime* |
| REPITCH FIX | 0 | `in.frq` | | `out.frq` | [several options] |
| REPITCH PCHSHIFT | 0 | `in.frq` | | `out.frq` | *transposition* (semitone constant) |
| REPITCH QUANTISE | 1 | `in.frq` | | `out.frq` | *q_set* (file of MIDI pitchvals) |
| | 2 | `in.frq` | | `out.trn` | *q_set* (file of MIDI pitchvals) |
| REPITCH RANDOMISE | 1 | `in.frq` | | `out.frq` | *maxinterval timestep* |
| | 2 | `in.frq` | | `out.trn` | *maxinterval timestep* |
| REPITCH SMOOTH | 1 | `in.frq` | | `out.frq` | *timeframe* ... |
| | 2 | `in.frq` | | `out.trn` | *timeframe* ... |
| REPITCH SYNTH (spectrum + pitch contour) | None | `in.frq` | *harmonics-data* | `out.ana` | [analysis file] Ready to Play or Resynthesise |
| REPITCH VIBRATO | 1 | `in.frq` | | `out.frq` | *vibfrq vibrange* |
| | 2 | `in.frq` | | `out.trn` | *vibfreq vibrange* |
| REPITCH VOWELS (colour with vowel sounds) | None | `in.frq` | *vowel-data* | `out.ana` | [analysisfile] Ready to Play or Resynthesise |
| REPITCH INSERTSIL (insert silence) | None | `in.frq` | *silence_file* | `out.frq` | [binary pitch data file] Use with other REPITCH functions |
| REPITCH INSERTZEROS (insert unpitched areas) | None | `in.frq` | *zeros-data* | `out.frq` | [binary pitch data file] Use with other REPITCH functions |
| REPITCH INTERP (replace noise with interpolated pitch) | None | `in.frq` | | `out.frq` | [binary pitch data file] Use with other REPITCH functions |
| REPITCH INSERTZEROS (insert unpitched areas) | None | `in.frq` | *zeros-data* | `out.frq` | [binary pitch data file] Use with other REPITCH functions |
| REPITCH NOISETOSIL (replace unpitched with silence) | None | `in.frq` | | `out.frq` | [binary pitch data file] Use with other REPITCH functions |
| REPITCH PCHTOTXT (convert .frq to .txt) | None | `in.frq` | | `out.txt` | [Ascii text file] Use with other COLUMN edit functions |
| REPITCH PITCHTOSIL (replace pitched with silence) | None | `in.frq` | | `out.frq` | [binary pitch data file] Use with other REPITCH functions |

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