# Transposition & Shifting Inputs and Outputs

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| **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, 8ves, 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, 8ves, 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* |
| 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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