# *Stimulus* Structure

## Summary of Fields:

|  |  |  |
| --- | --- | --- |
| **Variable Name** | **Variable Description** | **Variable Type** |
| AmplitudeL | L pk-pk amplitude (V) | [Nreps x 1 double] |
| AmplitudeR | R pk-pk amplitude (V) | [Nreps x 1 double] |
| AttenuationL | L attenuation (dB) | [Nreps x 1 double] |
| AttenuationR | R attenuation (dB) | [Nreps x 1 double] |
| BBNlowerFreqL | L noise lower frequency limit (Hz) | [Nreps x 1 double] |
| BBNlowerFreqR | R noise lower frequency limit (Hz) | [Nreps x 1 double] |
| BBNupperFreqL | L noise upper frequency limit (Hz) | [Nreps x 1 double] |
| BBNupperFreqR | R noise upper frequency limit (Hz) | [Nreps x 1 double] |
| Channel | Output channel (‘L’, ‘R’, ‘BOTH’} | char |
| FixedDelayL | L delay time for all signals (sec) | [Nreps x 1 double] |
| FixedDelayR | R delay time for all signals (sec) | [Nreps x 1 double] |
| HoldTimeL | L duration between onset/offset ramps (sec) | [Nreps x 1 double] |
| HoldTimeR | R duration between onset/offset ramps (sec) | [Nreps x 1 double] |
| Indices | Location(s) of stimulus presentation | [Nreps x 1 double] |
| LAttenIndices | Locations(s) for each of the LAttenVals | {} |
| LAttenVals | Unique L attenuation values, sorted (dB) | [] |
| Nreps | # of repetitions of this stimulus | Double |
| OutputFilename | Path to which original raw data were written | [char] |
| OutputTimeWithDelayL | L time of signal onset + delay (sec) | [Nreps x 1 double] |
| OutputTimeWithDelayR | R time of signal onset + delay (sec) | [Nreps x 1 double] |
| OutputTimestampL | L time of signal onset (stim. timestamp) (sec) | [Nreps x 1 double] |
| OutputTimestampR | R time of signal onset (stim. timestamp) (sec) | [Nreps x 1 double] |
| PA5idL | Id # for L PA5 attenuator | [Nreps x 1 double] |
| PA5idR | Id # for R PA5 attenuator | [Nreps x 1 double] |
| PhaseDegL | L tone phase (degrees) | [Nreps x 1 double] |
| PhaseDegR | R tone phase (degrees) | [Nreps x 1 double] |
| RAttenIndices | Locations for each of the RAttenVals | {[Nreps x 1 double]} |
| RAttenVals | Unique R attenuation values, sorted (dB) | 20 |
| RampDownL | L signal offset time (sec) | [Nreps x 1 double] |
| RampDownR | R signal offset time (sec) | [Nreps x 1 double] |
| RampUpL | L signal onset time (sec) | [Nreps x 1 double] |
| RampUpR | R signal onset time (sec) | [Nreps x 1 double] |
| Spiketimes |  | {11xNreps cell} |
| Sweepend |  | [Nreps x 1 double] |
| Sweepstart |  | [Nreps x 1 double] |
| Tagstring |  | [1x227 char] |
| TimeShiftL |  | [Nreps x 1 double] |
| TimeShiftR |  | [Nreps x 1 double] |
| Timestamp |  | '5011297' |
| ToneFreqL |  | [Nreps x 1 double] |
| ToneFreqR |  | [Nreps x 1 double] |
| Type |  | {'WAVFILE'} |
| Var |  | [1x2 struct] |
| WavFilenameL |  | '' |
| WavFilenameR |  | 'C:\DataWave\mousecalls\sep\_calls\p100\_9.wav' |
| id |  | [Nreps x 1 double] |

AmplitudeL [Nreps x 1 double]

AmplitudeR [Nreps x 1 double]

AttenuationL [Nreps x 1 double]

AttenuationR [Nreps x 1 double]

BBNlowerFreqL [Nreps x 1 double]

BBNlowerFreqR [Nreps x 1 double]

BBNupperFreqL [Nreps x 1 double]

BBNupperFreqR [Nreps x 1 double]

Channel 'R'

FixedDelayL [Nreps x 1 double]

FixedDelayR [Nreps x 1 double]

HoldTimeL [Nreps x 1 double]

HoldTimeR [Nreps x 1 double]

Indices [Nreps x 1 double]

LAttenIndices {}

LAttenVals []

Nreps 'Nreps'

Nsweeps Nreps

OutputFilename 'C:\DataWave\Data\768c\768\_110706\_12\_3q\_LFH\_1per\_1sec\_2.ddf'

OutputTimeWithDelayL [Nreps x 1 double]

OutputTimeWithDelayR [Nreps x 1 double]

OutputTimestampL [Nreps x 1 double]

OutputTimestampR [Nreps x 1 double]

PA5idL [Nreps x 1 double]

PA5idR [Nreps x 1 double]

PhaseDegL [Nreps x 1 double]

PhaseDegR [Nreps x 1 double]

RAttenIndices {[Nreps x 1 double]}

RAttenVals 20

RampDownL [Nreps x 1 double]

RampDownR [Nreps x 1 double]

RampUpL [Nreps x 1 double]

RampUpR [Nreps x 1 double]

Spiketimes {11xNreps cell}

Sweepend [Nreps x 1 double]

Sweepstart [Nreps x 1 double]

Tagstring [1x227 char]

TimeShiftL [Nreps x 1 double]

TimeShiftR [Nreps x 1 double]

Timestamp '5011297'

ToneFreqL [Nreps x 1 double]

ToneFreqR [Nreps x 1 double]

Type {'WAVFILE'}

Var [1x2 struct]

WavFilenameL ''

WavFilenameR 'C:\DataWave\mousecalls\sep\_calls\p100\_9.wav'

id [Nreps x 1 double]