getPeak

getPeak(start, length, rms)

Description

Function to analyze the levels in an audio file. You specify the audio file with the AudioFile object that is returned by the `AudioFile.open` function. The arguments `start` and `length` define the range in the audio file to be analyzed. The `rms` argument determines whether the peak level or the RMS level of the specified range is returned.

Available in: Controller.

Arguments

start	The start position in samples.	number
length	The duration in samples. Set this to equal to or less than 0 to use all samples from the specified `start` to the end of the file.	number
rms	If this is set to 0, the peak level of the specified range will be returned. If this is set to a value above 0, the RMS level over the specified range will be calculated.	number

Return Values

Returns the level of the specifed range as a linear value. The example shows how to convert the value from linear to dB.

Example

```
function lin2db(lin)
  return 20 * math.log(lin) / math.log(10)
end
fname = "vstsound://F29C895D6D8E4D6C9BCBBA5198412192/.samples/Ambient Pad 01/Ambient Pad 01 - C3.tg3c"
af = AudioFile.open(fname)
-- analyze the peak level in the first 1000 samples
attpeak = af:getPeak(0, 1000, 0)
-- analyze the RMS level in the range from 1000 samples till the end of the file
susrms = af:getPeak(1000, -1, 1)
print("Attack Peak:", attpeak, "(", lin2db(attpeak), "dB )")
print("Sustain RMS:", susrms, "(", lin2db(susrms), "dB )")
```

See Also: AudioFile, AudioFile.open