Kerbal Space Program - Feedback #9434

Volume sliders shouldn't be linear

04/23/2016 12:00 AM - nand

Status: Needs Clarification

Severity: Low

Assignee:

Category: Audio

Target version:

Version: 1.1.0 Language: English (US)

Platform: Linux | Mod Related: No

Expansion:

Description

The human psychoacoustic system does not perceive sounds linearly, which makes the current volume sliders a bit awkward to deal with. (I basically have to make all my adjustments around the lower 10%-20% range)

âllldeaâll volume adjustments are logarithmic, but for games it's generally desirable to preserve the property of 0% mapping onto a signal level of 0, so an easy approximation you can use is to take the squared or cubed slider level. (A more sophisticated slider could be exponential with a linear slope near zero, which is how most hardware volume knobs on mixing devices etc. work)

For more information see e.g. http://www.dr-lex.be/info-stuff/volumecontrols.html

(e.g. a slider level of 50% would translate to a signal level of 0.5² = 0.25 or 0.5³ = 0.125 instead)

History

#1 - 07/17/2016 09:47 AM - TriggerAu

- Status changed from New to Needs Clarification

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