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FLAC-compressed wave file (44.1 kHz, 24 bit, 8 channels)

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Please verify correctness of peak and average meters visually.

Given levels describe the first channel. The other channels have been amplified in steps of +5.0 dB per channel (first test) and +1.0 dB (all other tests), respectively.

Notes: 1. create audio file using Sound Forge and save as RIFF WAVE
2. convert to RIFF WAVE using foobar2000 (adds channel mask)
3. change channel mask from FF 00 to 3F 06 using HexEdit
4. flac -6 --verify level_meters_multi.wav

00:00.000 - 00:01.000 silence
00:01.000 - 00:04.000 sine wave (997 Hz, -60.1 dB FS peak)

[signal meter ch. 1 should not light]
[signal meter ch. 2 should light]
[signal meter ch. 3 should light]
[signal meter ch. 4 should light]
[signal meter ch. 5 should light]
[signal meter ch. 6 should light]
[signal meter ch. 7 should light]
[signal meter ch. 8 should light]

00:04.000 - 00:05.000 silence
00:05.000 - 00:08.000 sine wave (997 Hz, -24.1 dB FS peak)

[peak meter ch. 1 should read -24.1 dB]
[peak meter ch. 2 should read -23.1 dB]
[peak meter ch. 3 should read -22.1 dB]
[peak meter ch. 4 should read -21.1 dB]
[peak meter ch. 5 should read -20.1 dB]
[peak meter ch. 6 should read -19.1 dB]
[peak meter ch. 7 should read -18.1 dB]
[peak meter ch. 8 should read -17.1 dB]

[RMS meter ch. 1 should read -24.1 dB]
[RMS meter ch. 2 should read -23.1 dB]
[RMS meter ch. 3 should read -22.1 dB]
[RMS meter ch. 4 should read -21.1 dB]
[RMS meter ch. 5 should read -20.1 dB]
[RMS meter ch. 6 should read -19.1 dB]
[RMS meter ch. 7 should read -18.1 dB]
[RMS meter ch. 8 should read -17.1 dB]

[maximum peaks should not be visible]
[all signal meters should light]

00:08.000 - 00:08.500 silence
00:08.500 - 00:11.500 sine wave (997 Hz, -23.9 dB FS peak)

[peak meter ch. 1 should read -23.9 dB]
[peak meter ch. 2 should read -22.9 dB]
[peak meter ch. 3 should read -21.9 dB]
[peak meter ch. 4 should read -20.9 dB]
[peak meter ch. 5 should read -19.9 dB]
[peak meter ch. 6 should read -18.9 dB]
[peak meter ch. 7 should read -17.9 dB]
[peak meter ch. 8 should read -16.9 dB]

[RMS meter ch. 1 should read -23.9 dB]
[RMS meter ch. 2 should read -22.9 dB]
[RMS meter ch. 3 should read -21.9 dB]
[RMS meter ch. 4 should read -20.9 dB]
[RMS meter ch. 5 should read -19.9 dB]
[RMS meter ch. 6 should read -18.9 dB]
[RMS meter ch. 7 should read -17.9 dB]
[RMS meter ch. 8 should read -16.9 dB]

[maximum peaks should be visible]
[all signal meters should light]

00:11.500 - 00:12.500 silence
00:12.500 - 00:15.500 sine wave (997 Hz, -16.1 dB FS peak)

[peak meter ch. 1 should read -16.1 dB]
[peak meter ch. 2 should read -15.1 dB]
[peak meter ch. 3 should read -14.1 dB]
[peak meter ch. 4 should read -13.1 dB]
[peak meter ch. 5 should read -12.1 dB]
[peak meter ch. 6 should read -11.1 dB]
[peak meter ch. 7 should read -10.1 dB]
[peak meter ch. 8 should read -9.1 dB]

[RMS meter ch. 1 should read -16.1 dB]
[RMS meter ch. 2 should read -15.1 dB]
[RMS meter ch. 3 should read -14.1 dB]
[RMS meter ch. 4 should read -13.1 dB]
[RMS meter ch. 5 should read -12.1 dB]
[RMS meter ch. 6 should read -11.1 dB]
[RMS meter ch. 7 should read -10.1 dB]
[RMS meter ch. 8 should read -9.1 dB]

[maximum peaks should not be visible]
[all signal meters should light]

00:15.500 - 00:16.000 silence
00:16.000 - 00:19.000 sine wave (997 Hz, -15.9 dB FS peak)

[peak meter ch. 1 should read -15.9 dB]
[peak meter ch. 2 should read -14.9 dB]
[peak meter ch. 3 should read -13.9 dB]
[peak meter ch. 4 should read -12.9 dB]
[peak meter ch. 5 should read -11.9 dB]
[peak meter ch. 6 should read -10.9 dB]
[peak meter ch. 7 should read -9.9 dB]
[peak meter ch. 8 should read -8.9 dB]

[RMS meter ch. 1 should read -15.9 dB]
[RMS meter ch. 2 should read -14.9 dB]
[RMS meter ch. 3 should read -13.9 dB]
[RMS meter ch. 4 should read -12.9 dB]
[RMS meter ch. 5 should read -11.9 dB]
[RMS meter ch. 6 should read -10.9 dB]
[RMS meter ch. 7 should read -9.9 dB]
[RMS meter ch. 8 should read -8.9 dB]

[maximum peaks should be visible]
[all signal meters should light]

00:19.000 - 00:20.000 silence

Validation settings

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File: level_meters_multi.flac

Host SR: 44 100 Hz

Channel: All

Display: [] Peak meter level
 [] Average meter level