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  K-Meter
  =======
  Implementation of a K-System meter according to Bob Katz' specifications

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FLAC-compressed wave file (44.1 kHz, 24 bit)
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Please verify correctness of peak meter and maximum peak meter
programmatically.

Given values describe the left channel.  The right channel is delayed
by one second and its level has been attenuated by 1.93 dB.

00:00.000 - 00:02.000  silence
00:02.000 - 00:07.000  square wave (  20 Hz, -41.0 dBFS)

                       [left  peak meter should read -21.00 dB (K-20)]
                       [right peak meter should read -22.93 dB (K-20)]

                       [left  maximum peak should read -21.00 dB (K-20)]
                       [right maximum peak should read -22.93 dB (K-20)]

00:07.000 - 00:09.000  silence
00:09.000 - 00:14.000  square wave ( 180 Hz, -29.0 dBFS)

                       [left  peak meter should read  -9.00 dB (K-20)]
                       [right peak meter should read -10.93 dB (K-20)]

                       [left  maximum peak should read  -9.00 dB (K-20)]
                       [right maximum peak should read -10.93 dB (K-20)]

00:14.000 - 00:16.000  silence
00:16.000 - 00:21.000  square wave ( 530 Hz, -17.5 dBFS)

                       [left  peak meter should read  +2.50 dB (K-20)]
                       [right peak meter should read  +0.57 dB (K-20)]

                       [left  maximum peak should read  +2.50 dB (K-20)]
                       [right maximum peak should read  +0.57 dB (K-20)]

00:21.000 - 00:23.000  silence
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00:23.000 - 00:28.000  square wave (1111 Hz,  -8.3 dBFS)

                       [left  peak meter should read +11.70 dB (K-20)]
                       [right peak meter should read  +9.77 dB (K-20)]

                       [left  maximum peak should read +11.70 dB (K-20)]
                       [right maximum peak should read  +9.77 dB (K-20)]

00:28.000 - 00:30.000  silence
00:30.000 - 00:35.000  square wave (1501 Hz,  -0.1 dBFS)

                       [left  peak meter should read +19.90 dB (K-20)]
                       [right peak meter should read +17.97 dB (K-20)]

                       [left  maximum peak should read +19.90 dB (K-20)]
                       [right maximum peak should read +17.97 dB (K-20)]

00:35.000 - 00:37.000  silence
00:37.000 - 00:42.000  square wave (2890 Hz, -36.0 dBFS)

                       [left  peak meter should read -16.00 dB (K-20)]
                       [right peak meter should read -17.93 dB (K-20)]

                       [left  maximum peak should read +19.90 dB (K-20)]
                       [right maximum peak should read +17.97 dB (K-20)]

00:42.000 - 00:44.000  silence
00:44.000 - 00:49.000  square wave (4190 Hz, -69.5 dBFS)

                       [left  peak meter should read -49.50 dB (K-20)]
                       [right peak meter should read -51.43 dB (K-20)]

                       [left  maximum peak should read +19.90 dB (K-20)]
                       [right maximum peak should read +17.97 dB (K-20)]

00:49.000 - 00:51.000  silence
00:51.000 - 00:56.000  square wave (8345 Hz, -85.0 dBFS)

                       (it seems like I have driven Sound Forge's test
                        tone generator to its limits -- the peak level
                        meter readings given below have been measured
                        using the "Statistics" dialog in Sound Forge)

                       [left  peak meter should read -65.05 dB (K-20)]
                       [right peak meter should read -66.99 dB (K-20)]

                       [left  maximum peak should read +19.90 dB (K-20)]
                       [right maximum peak should read +17.97 dB (K-20)]

00:56.000 - 00:59.000  silence


Validation settings
===================
File:     peak_meter.flac
Host SR:  44 100 Hz
Channel:  All
Display:  [ ] Average meter level
          [x] Peak meter level
          [x] Maximum peak level
          [ ] Stereo meter value
          [ ] Phase correlation
```