This file (EMDH) executes the EMD and Hurst-based speech enhancement algorithm [1]. The modes selection and the speech signal reconstruction consider frames with 512 samples.
The C/C++ executable was compiled in a Linux machine (Ubuntu 14.04 LTS).

Usage:
./EMDH <input_file> <output_file> <num_IMF> <Hurst_threshold> <verbose(opt)>

where
input_file: input .wav filename
output_file: output .wav filename
num_IMF: total number of modes (IMFs) obtained with EMD
Hurst_threshold: Hurst exponent threshold value
verbose: “off” to disable the verbose mode

Reference:
[1] L. Zão, R. Coelho and P. Flandrin, "Speech Enhancement with EMD and Hurst-based Mode Selection", IEEE/ACM Transactions on Audio, Speech and Language Processing, v. 22, n. 5, pp. 897-909, May 2014.

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