RunLwsBwConv

Synopsis

`RunLwsBw lowCut lowRollOff highCut highRollOff sampleRate numberOfFilterSamples` inputDataFileName

We **`Return`** the filtered time array using the butterworth filter as described in RunLwsBw. The output is in out standard file format. We also place a copy of the filter in the local file `lastDataOutput`.

Defaults

The default values for the input are:

Name	Type	Default Value
lowCut	**float**	**0.05**
lowRollOff	**float**	**24**
highCut	**float**	**25**
highRollOff	**float**	**24**
sampleRate	**float**	**0.01**
numberOfFilterSamples	**long**	**8192**
inputDataFileName	**String**	**“data”**

Theory

The butterworth filter is described in RunLwsBw. This routine uses the library function FlButterworth to generate the filter. We then apply the filter using a convolution in the time domain, as described in LwsConv. The resulting output is thus filtered using the butterworth filter.

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