

Matlab Block File Format Example

The main script in this example, BlockFileFormatExample.m, demonstrates extracting data of multiple types from a file stored in the block file format. There are variables you will need to change based on the settings of your equipment and location of your files.

In the "Set up for file parse" section , you should enter the folder and name of the file you wish to extract data from.

In the section "Convert neural data to physical units (V)", you will need to enter the correct number of ADC bits, voltage resolution, number of channels, and sampling frequency of neural data in Hz. This information can be found in the "File started" event which you can view using in the event file reader.

In the section "Scale audio data and save as wav", you should set the number of audio bits, frequency of audio data (Hz) and if audio data is signed. This information can also be found in the "File started" event which you can view using in the event file reader.

In the section "Sort motion sensor data by data type", you should set acclMax and gyroMax to the values in the "File started" event which you can view using in the event file reader. The magMax value should be set based on what type of hardware you are using. This information is given in the Magnetometer info section of MotionSensorConstants.m.