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alphamap2eeg

- **Description**

Conversion tool for Alpha-Map files to **.eeg** format.

- **Usage**

alphamap2eeg *myAlphaMapfile.map* [*myeegfile* *myparfile*]

with :

- *myAlphaMapfile.map* : *Alpha-Map* file to convert (with extension).
- *myeegfile* : output **.eeg** file (no extension).
- *myparfile* : text file containing conversion parameters.

- **Fields of parameter file and example**

channel_type_nb 4	Number of types of data defined below.
channel_type_list SPK 1 LFP 0 ANC 0 DIG 2 CH 3	<p>Data types list : sequence of labels and codes.</p> <p>Labels correspond to the prefixes of the channel names used for conversion (in <i>Alpha-Map</i> file). Digital channels (DIG) are used for event creation but are not converted.</p> <p>The following codes are used :</p> <p>0 : continuous signal channel (LFP, sEEG, ...).</p> <p>1 : spike channel. These channels are converted to continuous channels and the spikes are averaged along time.</p> <p>2 : trigger channel (events).</p> <p>3 : digital channel to convert to analog channel.</p> <p>In this example, channels beginning with SPK are considered as spike channels. Channels beginning with LFP and ANC are used as continuous signal channels. Channels beginning with CH are transformed to analog channels. Channels beginning with DIG are used for events conversion, but are not stored in output file. The other channels are ignored.</p>
electrodes SPK1.-1 SPK2.-1 SPK3.-1 SPK4.-1 LFP1.-1 LFP2.-1 LFP3.-1 LFP4.-1 ANC1.-1 ANC2.-1 CH2_T1.-1 CH2_T2.-1 CH2_T3.-1 CH3_T1.-1	<p>Output channel name list :</p> <p>Names and numbers corresponding to elec.dat definition for converted channels, or name and -1 if the channel is not defined in elec.dat.</p> <p>The order should be the same as in the input <i>Alpha-Map</i> file.</p>

- **Example**

Reading information about a file *A2209004.map* :
alphamap2eeg *A2209004.map*

Output to screen :
ALPHAMAP2EEG : V1.04 14-03-2008
File conversion from the Alpha-Map format to ELAN eeg format.

Reading Alpha-Map file
A2209004.map...
Alpha-Map file version : 85

#chan name	#Alpha	type	f(kHz)	Gain	#samples	duration (s)	
1	2-AI001	20001	0	12.500	5.000	66501	5.320080
2	2-AI008	20008	0	12.500	5.000	66501	5.320080
3	2-AI017	20017	0	12.500	5.000	66501	5.320080
4	2-AI024	20024	0	12.500	5.000	66501	5.320080

done.
ALPHAMAP2EEG done.

- **Comments**

- If *myeegfile* and *myparfile* are omitted, the *Alpha-Map* file is read. The information about all channels are displayed.
- The output sampling frequency is the same for all channels. It is the highest sampling frequency of the input continuous channels.

- **Current version**

1.06 05-04-2016

- **History**

- 1.00 10-08-2005 (PEA) : 1st version.
- 1.04 14-03-2008 (PEA) : conversion of digital channels to analog channels added (type 3).
- 1.05 06-06-2008 (PEA) : better use data dynamic (physical maximum and minimum).
- 1.06 05-04-2016 (PEA) : new HDF5 ELAN file format.

- **Files**

\$ELANPATH/bin/alphamap2eeg

- **See also**

Lyon Neuroscience Research Center - Brain Dynamic and Cognition team

CRNL

