

Table Of Contents

Table Of Contents	1
eegmval	2
CRNL	3



Published on elan (<http://elan.lyon.inserm.fr>)

[Home](#) > [Printer-friendly PDF](#) > [Printer-friendly PDF](#)

eegmval

- **Description**

Computes mean, minimum and maximum values of an **.eeg** file in time windows and outputs in a text file.

- **Usage**

eegmval *myeegfile.eeg* *myposfilein.pos* *myparfile.par* [*window_file.t.wnd*]

with :

- *myeegfile.eeg*: input **.eeg** file to process (with extension).
- *myposfilein.pos*: input event file (with extension).
- *myparfile.par*: text parameter file (with extension) for measurements.
- options:
window_file.t.wnd : text file containing time window description. If omitted, time windows are created from the parameter file *myparfile.par* .

- **Fields of parameter file and examples**

fileprefix myfilename_out	Prefix of the output text files.
nb_eventcode 2	Number of event codes to process.
list_eventcode 2 5	List of the event codes to process.
prestim_nbsample 400 800	List of the numbers of samples in the prestimulus period; one value for each event code.
poststim_nbsample 1000 1200	List of the numbers of samples in the poststimulus period; one value for each event code; the total number of samples of the analysis is $\text{prestim_nbsample} + \text{poststim_nbsample} + 1$, the extra sample corresponds to the event itself.
ep_channel_flag 1 1 0 1 0 0 0	List of the channels to take measurements: 1/0 for selected/unselected channels; the total number of flags is $N+2$, N being the number of recorded channels in <i>myeegfile.eeg</i> file; the last 2 flags should be set to 0. In this example, $N=5$, and only channels number 1, 2, 4 will be averaged and stored in the output <i>.p</i> files.
ep_channel_ref 0 5 0 6 0 0 0	List of the new reference for each channel before taking measurements (bipolar montage for instance): 0: no change of the reference, ≠0: electrode number (rank) to which the current channel should be re-referenced. The total number of values is $N+2$, N being the number of recorded channels in <i>myeegfile.eeg</i> file; the last 2 flags should be set to 0. This field is optional. If omitted, the channels are not modified. In this example, $N=5$, and channel 1 is unchanged, channel 2 is referenced to channel 5, and channel 4 re-referenced to channel 6.
eegmval_time_hw 50	Half time window (in msec) of the measurements. This parameter is required only if no window file is provided.
eegmval_time_step 50	Time step (in msec) for the sliding window of the measurements. This parameter is required only if no window file is provided.

Window file format (*window_file.t.wnd*) :

wnd_nb 2	Number of time windows.
wnd_list -250 -50 500 750	Beginning and end (in msec) latencies list for each window. The time 0 is at the event code. In this example, the 1st window starts at -250 ms and ends at -50 ms, and the 2nd window starts at 500 ms and ends at 750 ms.
wnd_label_list wnd_1 wnd_2	Window label list. Each label is on one line. In this example, the 1st window has label 'wnd_1', and the 2nd window has label 'wnd_2' .

- **Examples**

- **Comments**

- See [eegchref](#) [1] to create a re-referenced .eeg data file (several referencing options available).

- **Current version**

1.04 29-09-2010

- **History**

- 1.02 14-01-2004 (PEA) : 1st documented version.
- 1.03 29-11-2006 (PEA) : correction files larger than 2GB. Modification for use of rejection flag in .pos file.
- 1.04 29-09-2010 (PEA) : update to use cmake and free release of Elan.

- **Files**

\$ELANPATH/bin/eegmval

- **See also**

[eegchref](#) [1], [eegstat](#) [2], [eegavg](#) [3]

Lyon Neuroscience Research Center - Brain Dynamic and Cognition team

CRNL



Source URL: <http://elan.lyon.inserm.fr/?q=eegmval>

Links:

[1] <http://elan.lyon.inserm.fr/?q=eegchref>

[2] <http://elan.lyon.inserm.fr/?q=eegstat>

[3] <http://elan.lyon.inserm.fr/?q=eegavg>