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## tfavgprofilef

- **Description**

Creates a frequency profile in a selected time interval of a TF file (output in EP file format **.p**). This profile (**.p**) can be displayed by erpa.

- **Usage**

tfavgprofilef [+sqrt] [+sem coef]

with :

- option :

+sqrt : computes square root of data. If omitted, the profile of data is created.

+sem coef : computes standard error of the mean (sem) for each point. It outputs 3 files : one file containing mean values (**.p** suffix), one with mean values + coef \* SEM (**.sem1.p** suffix), and one with mean values - coef \* SEM (**.sem2.p** suffix). For example :

*tfavgprofilef +sem 2*

will create files with 2\*SEM values added or subtracted to the mean values.

This program uses an interactive input. The questions are as follows (questions (program) are italic, answers (user) are bold):

*Start latency (ms):*

**200**

*Stop latency (ms):*

**400**

start and stop latencies of the time-window in which tf values will be averaged or summed.

*Baseline correction: none (0), mean (1) or median (2) in a time-window ? (0/1/2) :*

**1**

0: no baseline correction

1: the mean value between start and stop latencies will be used

2: the median value between start and stop latencies will be used

if baseline correction type  $\neq$  0

*Start latency of baseline (in ms.) :*

**-400**

*Stop latency of baseline (in ms.) :*

**-100**

*Substract (1) or divide (2) by baseline ? (1/2)*

**1**

1: the baseline value is substracted from the original data

2: the original data are divided by the baseline value

*Sum (0) or average (1) :*

**1**

0: sum over time of the tf values for each frequency band

1: average over time of the tf values for each frequency band

*Input file name (with extension) or Enter to quit :*

**myfile1.avg.tf**

*Output EP file name (without extension):*

**myfile1.avg.lat200-400.bl**

*Input file name (with extension) or Enter to quit :*

**myfile2.avg.tf**

the same processing will be repeated with new files.

*Output EP file name (without extension):*

**myfile2.avg.lat200-400.bl**

*Input file name or Enter to quit :*

**(return)**

a new TF file can be processed with the same parameters,

or the return key terminates the program.

- **Fields of parameter file and example**

- **Examples**

In this example, the output files myfile1.avg.lat200-400.bl.p and myfile2.avg.lat200-400.bl.p contain baseline corrected frequency profiles between 200 and 400 ms. Note that the **.p** extension is generated automatically.

- **Comments**

- **Current version**

1.09 03-10-2013

- **History**

- 1.00 09-12-2001 (PEA) : 1st documented version.
- 1.01 04-02-2002 (PEA) : minor modification.
- 1.02 09-12-2003 (PEA) : adds baseline correction support.
- 1.03 04-03-2004 (PEA) : fixes EP format header size.
- 1.04 07-10-2004 (PEA) : adds +sqrt option to compute square root of data.
- 1.05 13-08-2007 (PEA) : minor modification.
- 1.06 11-03-2008 (PEA) : removes static allocations.
- 1.07 07-02-2011 (PEA) : updates to use cmake and free release of Elan.
- 1.08 10-01-2012 (PEA) : adds the option to create output files with Standard Error of the Mean (+sem).
- 1.09 03-10-2013 (PEA) : fixes deallocation memory after file creation.

- **Files**

\$ELANPATH/bin/tfavgprofilef

- **See also**

[tfavgprofilet](#) <sup>[1]</sup>

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**CRNL**



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

Links:

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