

Initializing spm8 Batch

A command line interface to realignment procedures in FSL.
This uses the FSL routines : fslmerge, fsfsplit and mcflirt.

The 'realignfMRI' command builds a script in the directory:

matlabScripts/spm8Batch/realignfMRI/YYYY_MM directory

directly below the current directory and will launch this script in background. The names of the matlab and shell scripts will be in the format of :

realignfMRI_yymmdd_HH_MM_[USER]_[COMPUTER].m and
realignfMRI_yymmdd_HH_MM_[USER]_[COMPUTER].sh

where yymmdd is the date and HH_MM is the time.

This script is expecting to find the necessary components in the directory structure of :

```
yymmddLF/                                (subject directory)
  anatomy/
  func/
  coReg/
  run_XX/
```

Usage:

realignfMRI [OPTIONS] [subject_1] [subject_2] ... [subject_N]

Options

Key Parameter	Description
-A	process all runs found in 'func' directory, default is unspecified.
-d	enable debug flag.
-D	enable super debug flag.
-f sub-directory	set relative path functional directory, default=func
-i #1-#2	set the start and end run numbers to scan for inclusively
+,	default is none.
-m "flirt options"	enable super debug flag. Be sure to specify inside of quotes. do "mcflirt --help" for help. default is "-cost normcorr -stats -plots"
-M SUBJECTMASTER	set the directory to scan for subjects, default is Subjects/
-S VolumeNumber	set volume number to be the standard for realignment, default is 10.
-t	enable testing flag, script will be built but not run.
-U user-email	set the user name for email notification, default is "rcwelsh" of present shell.
-v volume-wild	set the volume name wild-card, default "aprun".

-# RUN-NUMBER add run # to list to process,
 default is none.

e.g.

To realign fmri volumes in runs 1,2,4 to 10th image in run 1 you would:

```
realignfMRI -v vol -f func/MSIT -s img/ -n 10 -r 1 -r 2 -r 4 060402rw
```

To realign fmri volumes in inclusive range of 1-10, to 10th in first do:

```
realignfMRI -v vol -f func/MSIT -s img/ -n 10 -i 1-10 060402rw
```

Current command default configuration is:

```
Standard Volume Number (0=first)      : 10
Functional Path                        : func/
Sub-directory                         :
Volume Wildcard                       : aprun
McFlirt Options                      : -cost normcorr -stats -plots
FSLOUTPUTTYPE                        : NIFTI
Number of runs to realign             : 0
functional images path                : func/
Subject directory                     : Subjects/

spm8 is located in                    : /net/dysthymia//spm8
spm8Batch is located in               : /net/dysthymia//spm8Batch
spm8 patch is located in              : /net/dysthymia//spm8Batch/matlabScripts
auxillary matlab path                 : /net/dysthymia//spm8Batch/spm8_patch

User                                  : rcwelsh
MATLAB                               : /net/misc/matlab2007b/bin/matlab

SANDBOXHOST                          : dysthymia
SANDBOX                              : /dysthymia/sandbox/
SANDBOXPID                           :
```

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