

Running FSL commands in Matlab

To run FSL commands in Matlab you need to start Matlab like this:

```
LD_PRELOAD=/usr/lib64/libstdc++.so.6 <path to Matlab>/matlab
```

For example:

```
LD_PRELOAD=/usr/lib64/libstdc++.so.6 /usr/local/Matlab/bin/matlab
```

Next, within Matlab you need to set up some variables:

```
fsl_path = '/usr/share/fsl/4.1/';  
setenv('FSLDIR',fsl_path)  
setenv('FSLOUTPUTTYPE','NIFTI_GZ')  
curpath = getenv('PATH');  
setenv('PATH',sprintf('%s:%s',fullfile(fsl_path,'bin'),curpath));
```

Then you call FSL routines like this:

```
system('sh -c ". ${FSLDIR}etc/fslconf/fsl.sh;${FSLDIR}bin/<FSL command>"')
```

For example:

```
system('sh -c ". ${FSLDIR}etc/fslconf/fsl.sh;${FSLDIR}bin/fast -b --nopve mean_func"')
```

References:

<https://www.jiscmail.ac.uk/cgi-bin/webadmin?A2=ind0902&L=FSL&D=0&P=348826>

<https://www.jiscmail.ac.uk/cgi-bin/webadmin?A2=ind0902&L=FSL&D=0&P=357648>

http://www.mathworks.com/matlabcentral/newsreader/view_thread/162466