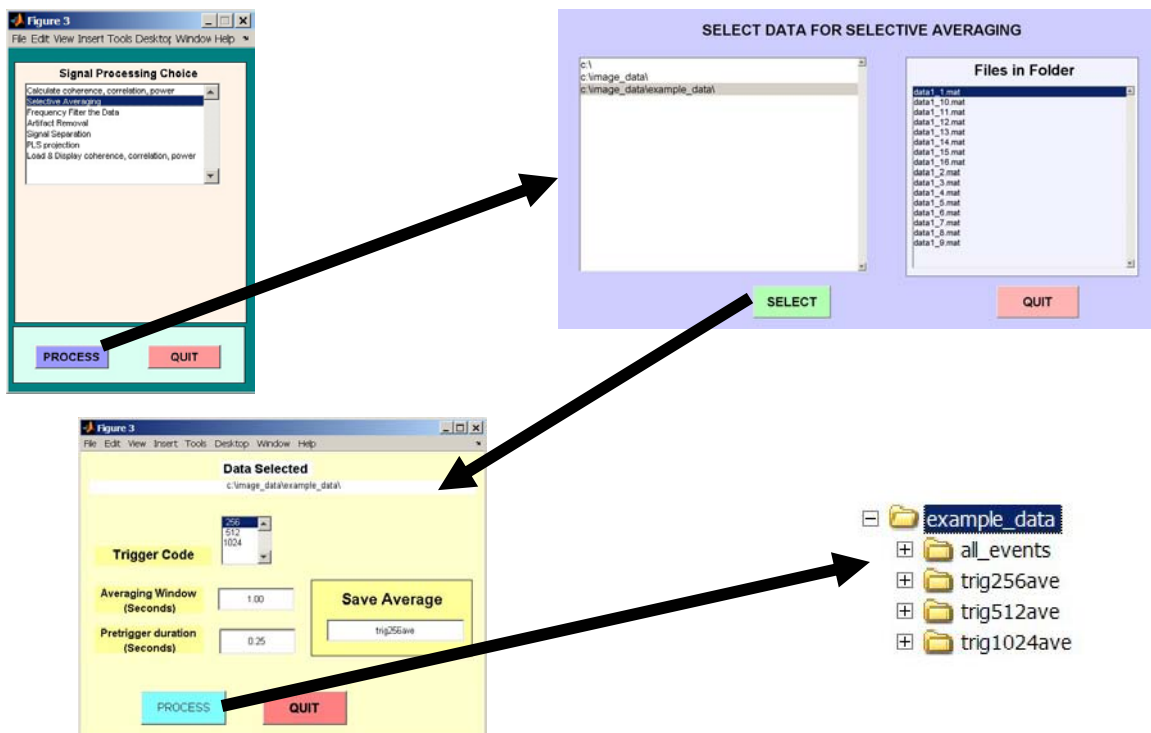


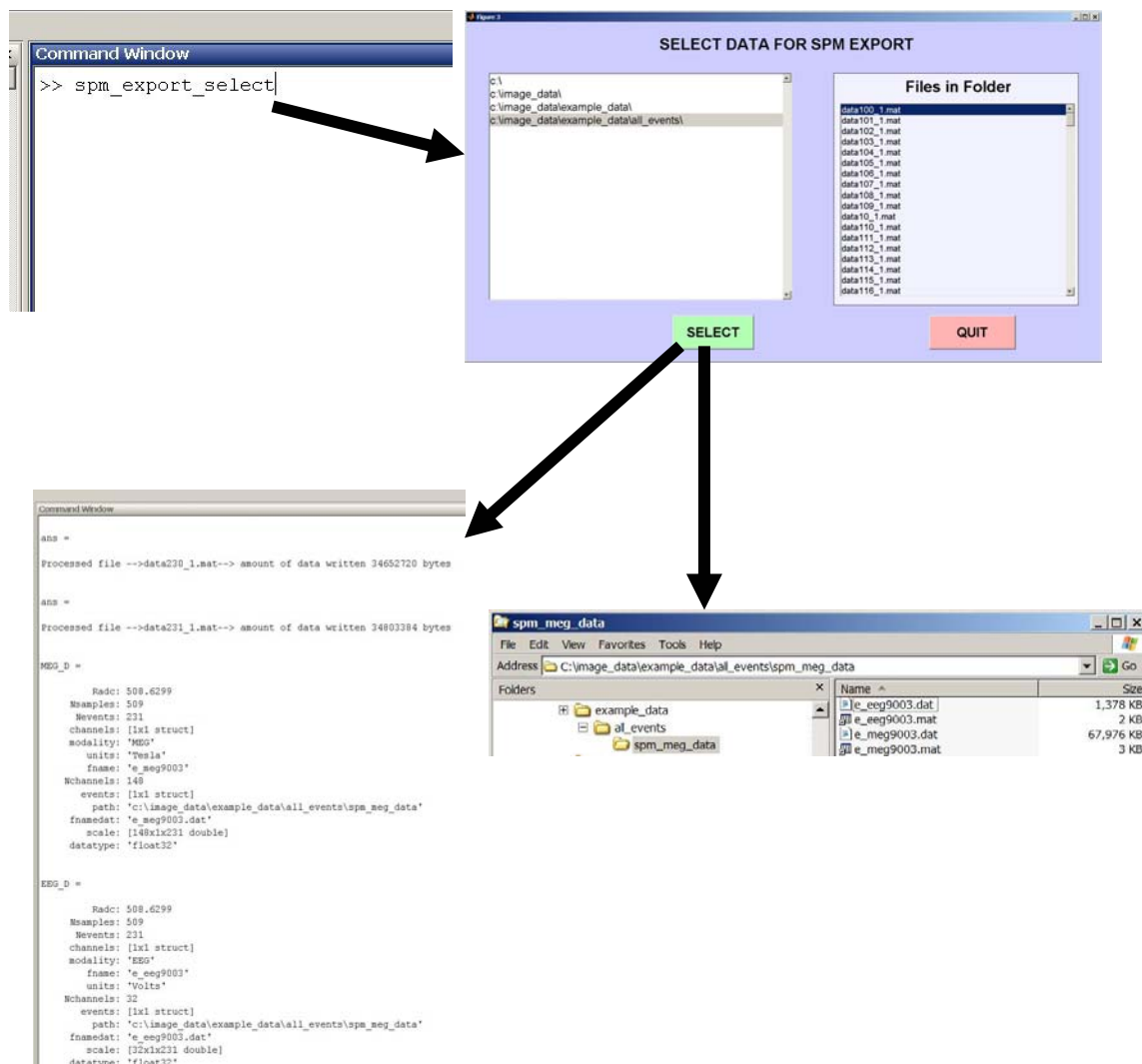
IMPORTING MEG/EEG data to SPM

SPM will accept Event related MEG and EEG data. MEG_TOOLS can be used to segment event data gathered in continuous mode based on the different trigger channel codes for different event types. This utility is accessed from the main MEG_Tools MENU by choosing <SIGNAL PROCESSING> → <Selective Averaging>. Use the Selection menu choose the data which is to be segmented. This utility will find the triggers types in the data and create a menu to set the Data window width and pre-trigger interval (IMPORTANT: The pre-trigger and window width intervals can be different for each trigger value. However, for this application you should set the pre-trigger interval and full window width to be the same for each trigger value.) The program will create a directory “all_events” that will contain the complete sequence of windowed event data with the window width and pre-trigger interval equal to that chosen for the first trigger type. In addition, the epochs will be separated for each trigger type and averaged. These data will be placed in appropriate separate subdirectories. For this application only the “all_events” subdirectory is used.



Set averaging window and pre-trigger duration for EACH trigger code.

The next step requires running the utility “spm_export_select” from the MATLAB Command Line. A data selection menu will appear. Chose any data file in the “all_events” directory created in the previous MEG_Tools application. All the MEG event data segments will be saved as a single file called “e_meg_patient_id.data” and a corresponding SPM data structure file “e_meg_patient_id.mat”. If EEG data has been acquired, these will be saved as “e_eeg_patient_id.dat” and “e_eeg_patient_id.mat”.



Running “spm_export_select” from the MATLAB Command Line.