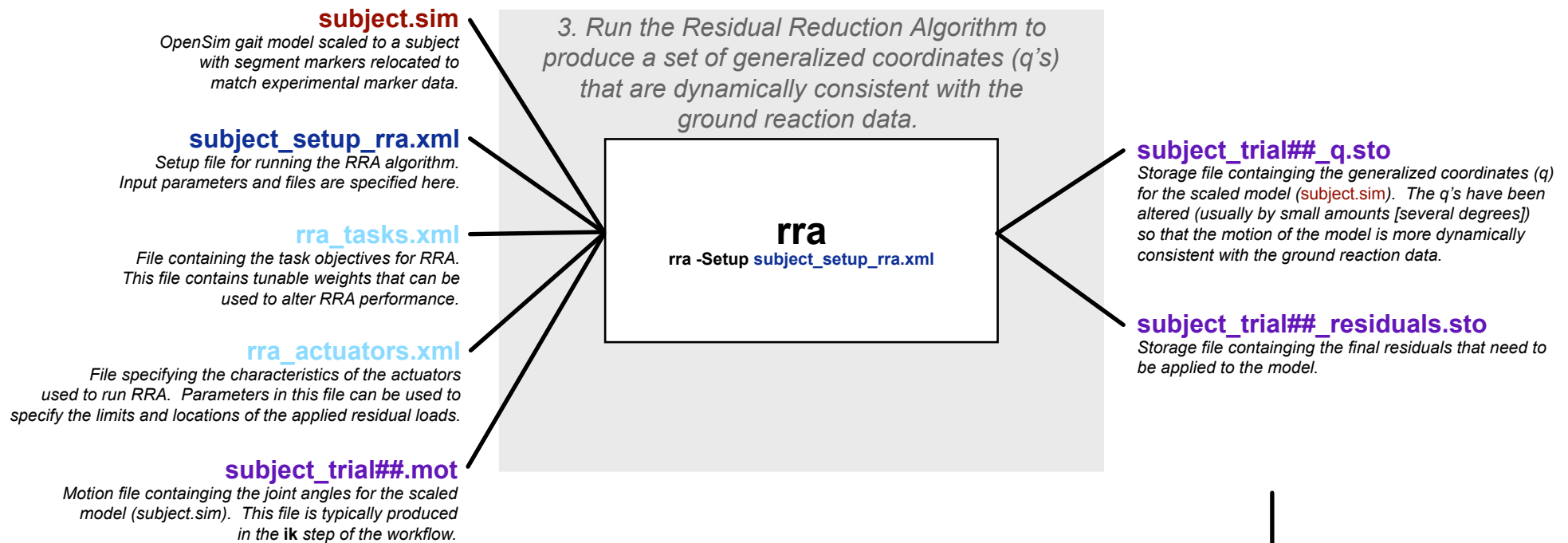


User Actions

a. Edit the setup file **subject_setup_scale_ik.xml** to specify the settings for the **ik** command. All parameters, input files, and output files are specified within this setup file. Detailed comments are contained within the setup file describing each parameter, input file, and output file. There are no restrictions on the names of files, although the conventions shown below are typically followed. In the file names below, it is assumed that the user will make the appropriate substitution for “subject” and “trial##”.

b. Execute the command “**rra -Setup subject_setup_scale_ik.xml**”. This command produces a file containing altered generalized coordinates (**q**’s) so that the motion of the model is more dynamically consistent with the ground reaction data (**subject_trial##_q.sto**). In general, it is not possible for RRA to eliminate residuals entirely. Therefore, the **rra** command produces an additional file containing the remaining residuals that need to be applied to the model (**subject_trial##_residuals.sto**). Both these files will be used in the subsequent computed muscle control (**cmc**) step.



3. Run the computed muscle control algorithm.

cmc