

|         |                         |                         |
|---------|-------------------------|-------------------------|
| IN      | inputnode               | OUT                     |
|         | bvals                   | bvals                   |
|         | bvecs                   | bvecs                   |
|         | dw                      | dw                      |
|         | resolution_network_file | resolution_network_file |
| utility | subject_id              | subject_id              |
|         | subjects_dir            | subjects_dir            |

|                         |                         |                         |
|-------------------------|-------------------------|-------------------------|
| IN                      | inputnode_within        | OUT                     |
| bvals                   | bvals                   | bvals                   |
| bvecs                   | bvecs                   | bvecs                   |
| dw                      | dw                      | dw                      |
| resolution_network_file | resolution_network_file | resolution_network_file |
| subject_id              | subject_id              | subject_id              |
| subjects_dir            | subjects_dir            | subjects_dir            |
| utility                 |                         | mapping                 |

|              |            |          |
|--------------|------------|----------|
| IN           | fssourceLH | OUT      |
| subject_id   | io         | annot    |
| subjects_dir | mapping    | inflated |
|              |            | pial     |
|              |            | sphere   |
|              |            | white    |

|              |            |          |
|--------------|------------|----------|
| IN           | fssourceRH | OUT      |
| subject_id   | io         | annot    |
| subjects_dir | mapping    | inflated |
|              |            | pial     |
|              |            | sphere   |
|              |            | white    |

|              |          |            |
|--------------|----------|------------|
| IN           | fssource | OUT        |
| subject_id   | io       | aparc_aseg |
| subjects_dir | mapping  | brain      |

|           |            |        |
|-----------|------------|--------|
| IN        | fsl2scheme | OUT    |
| bval_file | camino     | scheme |
| bvec_file | mapping    |        |

|         |             |             |
|---------|-------------|-------------|
| IN      | image2voxel | OUT         |
| in_file | camino      | voxel_order |
|         | mapping     |             |

|             |          |       |
|-------------|----------|-------|
| IN          | dtlutgen | OUT   |
| scheme_file | camino   | dtLUT |
|             | mapping  |       |

|             |         |               |
|-------------|---------|---------------|
| IN          | dtift   | OUT           |
| in_file     | camino  | tensor_fitted |
| scheme_file | mapping |               |

|         |          |      |
|---------|----------|------|
| IN      | picopdfs | OUT  |
| in_file | camino   | pdfs |
| luts    | mapping  |      |

|         |         |       |
|---------|---------|-------|
| IN      | dteig   | OUT   |
| in_file | camino  | trace |
|         | mapping |       |

|         |         |       |
|---------|---------|-------|
| IN      | trace   | OUT   |
| in_file | camino  | trace |
|         | mapping |       |

|            |                     |        |
|------------|---------------------|--------|
| IN         | analyzeheader_trace | OUT    |
| data_dims  | camino              |        |
| in_file    | mapping             | header |
| voxel_dims |                     |        |

|             |           |            |
|-------------|-----------|------------|
| IN          | trace2nii | OUT        |
| affine      | misc      |            |
| data_file   | mapping   | nifti_file |
| header_file |           |            |

|           |         |         |
|-----------|---------|---------|
| IN        | track   | OUT     |
| in_file   | camino  | tracked |
| seed_file | mapping |         |

|            |                 |          |
|------------|-----------------|----------|
| IN         | camino2trackvis | OUT      |
| data_dims  | camino2trackvis | trackvis |
| in_file    | mapping         |          |
| voxel_dims |                 |          |

|         |                |     |
|---------|----------------|-----|
| IN      | vtkstreamlines | OUT |
| in_file | camino         |     |
|         | mapping        |     |

|            |                  |        |
|------------|------------------|--------|
| IN         | analyzeheader_fa | OUT    |
| data_dims  | camino           | header |
| in_file    | mapping          |        |
| voxel_dims |                  |        |

|             |         |            |
|-------------|---------|------------|
| IN          | fa2nii  | OUT        |
| affine      | misc    |            |
| data_file   | mapping | nifti_file |
| header_file |         |            |

|         |            |          |
|---------|------------|----------|
| IN      | convertxfm | OUT      |
| in_file | fsl        | out_file |
|         | mapping    |          |

|                |                   |          |
|----------------|-------------------|----------|
| IN             | inverse_AparcAseg | OUT      |
| in_file        | fsl               | out_file |
| in_matrix_file | reference         |          |
|                | mapping           |          |

|                |           |     |
|----------------|-----------|-----|
| IN             | inverse   | OUT |
| in_file        | fsl       |     |
| in_matrix_file | reference |     |
|                | mapping   |     |

|                 |         |          |
|-----------------|---------|----------|
| IN              | ROIgen  | OUT      |
| aparc_aseg_file | cmtk    | roi_file |
|                 | mapping |          |

|     |              |     |
|-----|--------------|-----|
| IN  | NiftiVolumes | OUT |
| in1 | utility      | out |
| in2 |              |     |
| in3 | mapping      |     |

|                   |              |                 |
|-------------------|--------------|-----------------|
| IN                | CFFConverter | OUT             |
| data_files        |              |                 |
| gifti_labels      |              |                 |
| gifti_surfaces    | cmtk         |                 |
| gpickled_networks |              |                 |
| nifti_volumes     |              |                 |
| title             | mapping      | connectome_file |
| tract_files       |              |                 |

|     |                 |     |
|-----|-----------------|-----|
| IN  | FiberDataArrays | OUT |
| in1 | utility         | out |
| in2 |                 |     |
| in3 | mapping         |     |
| in4 |                 |     |

|                         |              |                                   |
|-------------------------|--------------|-----------------------------------|
| IN                      | CreateMatrix | OUT                               |
| out_matrix_file         |              | endpoint_file                     |
| out_matrix_mat_file     |              | endpoint_file_mm                  |
| resolution_network_file | cmtk         | fiber_label_file                  |
| roi_file                |              | fiber_length_file                 |
| tract_file              | mapping      | fiber_length_std_matrix_mat_file  |
|                         |              | matrix_files                      |
|                         |              | matrix_mat_file                   |
|                         |              | mean_fiber_length_matrix_mat_file |

|                         |             |              |
|-------------------------|-------------|--------------|
| IN                      | CreateNodes | OUT          |
| resolution_network_file | cmtk        | node_network |
| roi_file                | mapping     |              |

|     |               |     |
|-----|---------------|-----|
| IN  | GiftiSurfaces | OUT |
| in1 |               |     |
| in2 | utility       |     |
| in3 |               |     |
| in4 |               |     |
| in5 |               |     |
| in6 |               |     |
| in7 |               |     |
| in8 | mapping       | out |

|     |             |     |
|-----|-------------|-----|
| IN  | GiftiLabels | OUT |
| in1 | utility     |     |
| in2 | mapping     | out |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertRHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertLH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertLHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |

|         |                        |           |
|---------|------------------------|-----------|
| IN      | mris_convertLHinflated | OUT       |
| in_file | freesurfer             | converted |
|         | mapping                |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertLHsphere | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                      |           |
|---------|----------------------|-----------|
| IN      | mris_convertRHlabels | OUT       |
| in_file | freesurfer           | converted |
|         | mapping              |           |

|         |                |           |
|---------|----------------|-----------|
| IN      | mris_convertRH | OUT       |
| in_file | freesurfer     | converted |
|         | mapping        |           |

|         |                     |           |
|---------|---------------------|-----------|
| IN      | mris_convertRHwhite | OUT       |
| in_file | freesurfer          | converted |
|         | mapping             |           |