

|    |           |          |
|----|-----------|----------|
| IN | inputnode | OUT      |
|    | utility   | in_data  |
|    |           | metadata |

|         |         |          |
|---------|---------|----------|
| IN      | flatten | OUT      |
| in_data | utils   | out_data |
| in_meta |         | out_meta |

|          |              |          |
|----------|--------------|----------|
| IN       | concat_blips | OUT      |
| in_files | nibabel      | out_file |
|          |              |          |

|          |              |              |
|----------|--------------|--------------|
| IN       | readout_time | OUT          |
| in_file  | epi          | readout_time |
| metadata |              |              |

| IN                 | topup | OUT           |
|--------------------|-------|---------------|
|                    |       | out_corrected |
| encoding_direction | fsl   | out_field     |
| in_file            |       | out_fieldcoef |
|                    |       | out_jacs      |
| readout_times      |       | out_mats      |
|                    |       | out_warps     |

|          |                 |         |
|----------|-----------------|---------|
| IN       | merge_corrected | OUT     |
| in_files | images          | out_avg |
|          |                 |         |

|          |           |           |
|----------|-----------|-----------|
| IN       | fix_coeff | OUT       |
| fmap_ref | bspline   | out_coeff |
| in_coeff |           |           |
| pe_dir   |           |           |

|                   |                    |                     |
|-------------------|--------------------|---------------------|
| IN                | brainextraction_wf | OUT                 |
| inputnode.in_file |                    | outputnode.out_mask |
|                   |                    |                     |
|                   |                    |                     |

|            |            |     |
|------------|------------|-----|
| IN         | outputnode | OUT |
| fmap       |            |     |
| fmap_coeff |            |     |
| fmap_mask  | utility    |     |
| fmap_ref   |            |     |
| jacobians  |            |     |
| out_warps  |            |     |
| xfms       |            |     |